UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

July 31, 2015

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Mark Hayes, On-Scene Coordinator (6SF-PR)
Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: **WILCOX OIL**

Case#: **45316**

SDG#: **F9KW7**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

500018268

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: July 30, 2015

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1502-211-0137
TDF No.:	6-15-282A
ESAT File No.:	O-1231

Attached is the data review summary for Case # 45316
SDG # F9KW7
Site Wilcox Oil

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	45316	SITE	Wilcox Oil
LABORATORY	DATAC	NO. OF SAMPLES	20
CONTRACT#	EP-W-11-037	MATRIX	Soil
SDG#	F9KW7	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2GG	COMPLETION DATE	July 30, 2015

SAMPLE NO.					
	F9K71	F9K78	F9KW9	F9KX5	F9KY7
	F9K72	F9KR0	F9KX0	F9KY4	F9L28
	F9K73	F9KW7	F9KX1	F9KY5	F9L29
	F9K77	F9KW8	F9KX4	F9KY6	F9L30

DATA ASSESSMENT SUMMARY

	BNA	BNA-SIM
1. HOLDING TIMES	M	M
2. GC/MS TUNE/INSTR. PERFORM.	O	O
3. CALIBRATIONS	M	O
4. BLANKS	O	O
5. DMC/SURROGATES	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A
7. OTHER QC	N/A	N/A
8. INTERNAL STANDARDS	O	O
9. COMPOUND ID/QUANTITATION	O	O
10. PERFORMANCE/COMPLETENESS	O	O
11. OVERALL ASSESSMENT	M	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: The reanalyzed BNA and BNA-SIM samples were analyzed past the contractual holding time limit. For BNA two closing CCVs and for BNA-SIM an opening CCV and a closing CCV had RRFs or a %D that did not meet contractual calibration requirements.

AREA OF CONCERN: **BNA** The 10 reanalyzed samples were analyzed two or six days past the technical holding time limit. Three compounds did not meet the technical %D calibration criteria. **BNA-SIM** The nine reanalyzed samples were analyzed nine days past the technical holding time limit.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45316 **SDG** F9KW7 **SITE** Wilcox Oil **LAB** DATAC

COMMENTS: This SDG consisted of 20 soil samples for BNA/BNA-SIM analyses following CLP SOW SOM01.2. MS/MSD analyses were not requested.

The SOW requires that the soil sample results be adjusted for moisture content as well as dilution when applicable. The adjusted CRQLs, higher than the CRQLs specified in the SOW, were reported by the laboratory and are referred to as SQLs in this report.

Although both the full scan and SIM analysis results were available for BNA samples, the SIM analysis results are designated for use only when the corresponding full scan analysis results were non-detects or below the SQLs with the following exception. Five non-detect pentachlorophenol results were designated for use from the BNA analysis to avoid being qualified as unusable in the BNA-SIM analysis. A number of the SIM compounds were reported at concentrations above the SQLs in 14 samples. BNA-SIM samples F9K71, F9K77, and F9L30 were only analyzed at dilution.

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: Some results were qualified for 10 BNA and 9 BNA-SIM samples because of problems with holding time and/or calibration. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. The DST included in this report is the final version.

The laboratory was contacted for an analysis issue and was instructed to reanalyze 10 BNA and 9 BNA-SIM samples and to submit a new CSF data package (see Resubmission Request). The laboratory responded by submitting only the sample data as a separate CSF package. The sample data from the original CSF package should be disregarded, and only the resubmitted data used. S4VEM Review was performed on the resubmitted CSF package because the EDM CCS Defect Report was not available. An Evidence Audit was conducted for the original and resubmitted CSFs, and the audit results were reported on separate Evidence Inventory Checklists.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	100-52-7	Benzaldehyde	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	108-95-2	Phenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	111-44-4	Bis(2-chloroethyl)ether	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-57-8	2-Chlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-48-7	2-Methylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	98-86-2	Acetophenone	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	106-44-5	4-Methylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	621-64-7	N-Nitroso-di-n-propylamine	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	67-72-1	Hexachloroethane	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	98-95-3	Nitrobenzene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	78-59-1	Isophorone	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	88-75-5	2-Nitrophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	105-67-9	2,4-Dimethylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	111-91-1	Bis(2-chloroethoxy)methane	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	120-83-2	2,4-Dichlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	106-47-8	4-Chloroaniline	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	87-68-3	Hexachlorobutadiene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	105-60-2	Caprolactam	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	59-50-7	4-Chloro-3-methylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	77-47-4	Hexachlorocyclopentadiene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	88-06-2	2,4,6-Trichlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-95-4	2,4,5-Trichlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	92-52-4	1,1'-Biphenyl	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-58-7	2-Chloronaphthalene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	88-74-4	2-Nitroaniline	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	131-11-3	Dimethylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	606-20-2	2,6-Dinitrotoluene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	208-96-8	Acenaphthylene	15	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	99-09-2	3-Nitroaniline	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	51-28-5	2,4-Dinitrophenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	100-02-7	4-Nitrophenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	132-64-9	Dibenzofuran	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	121-14-2	2,4-Dinitrotoluene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	84-66-2	Diethylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	7005-72-3	4-Chlorophenyl-phenylether	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	100-01-6	4-Nitroaniline	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	534-52-1	4,6-Dinitro-2-methylphenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	86-30-6	N-Nitrosodiphenylamine	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	101-55-3	4-Bromophenyl-phenylether	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	118-74-1	Hexachlorobenzene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	1912-24-9	Atrazine	190	UJ	ug/kg	190	05/19/2015	006

45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	87-86-5	Pentachlorophenol	370	UJ	ug/kg	370	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	85-01-8	Phenanthrene	16	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	120-12-7	Anthracene	16	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	86-74-8	Carbazole	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	84-74-2	Di-n-butylphthalate	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	206-44-0	Fluoranthene	150	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	129-00-0	Pyrene	150	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	85-68-7	Butylbenzylphthalate	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-94-1	3,3'-Dichlorobenzidine	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	56-55-3	Benzo(a)anthracene	120	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	218-01-9	Chrysene	140	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	117-84-0	Di-n-octylphthalate	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	205-99-2	Benzo(b)fluoranthene	180	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	207-08-9	Benzo(k)fluoranthene	57	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	50-32-8	Benzo(a)pyrene	100	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	193-39-5	Indeno(1,2,3-cd)pyrene	91	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	53-70-3	Dibenzo(a,h)anthracene	25	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	191-24-2	Benzo(g,h,i)perylene	56	*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	UJ	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	91-20-3	Naphthalene	37	U	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	91-57-6	2-Methylnaphthalene	37	U	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	208-96-8	Acenaphthylene	23	LJ	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	83-32-9	Acenaphthene	37	U	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	86-73-7	Fluorene	37	U	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	87-86-5	Pentachlorophenol	75	U*	ug/kg	75	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	85-01-8	Phenanthrene	16	LJ	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	120-12-7	Anthracene	28	LJ	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	206-44-0	Fluoranthene	170		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	129-00-0	Pyrene	170		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	56-55-3	Benzo(a)anthracene	150		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	218-01-9	Chrysene	150		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	205-99-2	Benzo(b)fluoranthene	190		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	207-08-9	Benzo(k)fluoranthene	63		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	50-32-8	Benzo(a)pyrene	110		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	193-39-5	Indeno(1,2,3-cd)pyrene	110		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	53-70-3	Dibenzo(a,h)anthracene	24	LJ	ug/kg	37	05/19/2015 006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	191-24-2	Benzo(g,h,i)perylene	63		ug/kg	37	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	108-95-2	Phenol	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/19/2015 006

45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	78-59-1	Isophorone	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	86-74-8	Carbazole	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/19/2015	006

45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	91-20-3	Naphthalene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	91-57-6	2-Methylnaphthalene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	206-44-0	Fluoranthene	2.2	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	129-00-0	Pyrene	3.7	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	56-55-3	Benzo(a)anthracene	2.1	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	218-01-9	Chrysene	2.2	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	205-99-2	Benzo(b)fluoranthene	2.4	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	207-08-9	Benzo(k)fluoranthene	0.87	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	50-32-8	Benzo(a)pyrene	1.4	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.5	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	191-24-2	Benzo(g,h,i)perylene	0.87	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	108-95-2	Phenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	78-59-1	Isophorone	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/19/2015 006

45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	86-74-8	Carbazole	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	91-20-3	Naphthalene	1.0	LJ	ug/kg	3.8	05/19/2015 006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	91-57-6	2-Methylnaphthalene	1.0	LJ	ug/kg	3.8	05/19/2015 006

45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	206-44-0	Fluoranthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	129-00-0	Pyrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	56-55-3	Benzo(a)anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	218-01-9	Chrysene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	50-32-8	Benzo(a)pyrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	100-52-7	Benzaldehyde	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	108-95-2	Phenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	111-44-4	Bis(2-chloroethyl)ether	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-57-8	2-Chlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-48-7	2-Methylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	98-86-2	Acetophenone	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	106-44-5	4-Methylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	621-64-7	N-Nitroso-di-n-propylamine	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	67-72-1	Hexachloroethane	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	98-95-3	Nitrobenzene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	78-59-1	Isophorone	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	88-75-5	2-Nitrophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	105-67-9	2,4-Dimethylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	111-91-1	Bis(2-chloroethoxy)methane	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	120-83-2	2,4-Dichlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	106-47-8	4-Chloroaniline	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	87-68-3	Hexachlorobutadiene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	105-60-2	Caprolactam	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	59-50-7	4-Chloro-3-methylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	77-47-4	Hexachlorocyclopentadiene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	88-06-2	2,4,6-Trichlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-95-4	2,4,5-Trichlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	92-52-4	1,1'-Biphenyl	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-58-7	2-Chloronaphthalene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	88-74-4	2-Nitroaniline	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	131-11-3	Dimethylphthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	606-20-2	2,6-Dinitrotoluene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	99-09-2	3-Nitroaniline	390	UJ	ug/kg	390	05/19/2015	006

45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	51-28-5	2,4-Dinitrophenol	390	UJ	ug/kg	390	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	100-02-7	4-Nitrophenol	390	UJ	ug/kg	390	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	132-64-9	Dibenzofuran	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	121-14-2	2,4-Dinitrotoluene	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	84-66-2	Diethylphthalate	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	7005-72-3	4-Chlorophenyl-phenylether	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	100-01-6	4-Nitroaniline	390	UJ	ug/kg	390	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	534-52-1	4,6-Dinitro-2-methylphenol	390	UJ	ug/kg	390	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	86-30-6	N-Nitrosodiphenylamine	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	101-55-3	4-Bromophenyl-phenylether	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	118-74-1	Hexachlorobenzene	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	1912-24-9	Atrazine	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	87-86-5	Pentachlorophenol	390	UJ	ug/kg	390	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	86-74-8	Carbazole	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	84-74-2	Di-n-butylphthalate	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	206-44-0	Fluoranthene	25	*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	129-00-0	Pyrene	27	*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	85-68-7	Butylbenzylphthalate	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-94-1	3,3'-Dichlorobenzidine	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	56-55-3	Benzo(a)anthracene	18	*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	218-01-9	Chrysene	38	*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	117-84-0	Di-n-octylphthalate	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	205-99-2	Benzo(b)fluoranthene	35	*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	50-32-8	Benzo(a)pyrene	18	*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	UJ	ug/kg	200	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	91-20-3	Naphthalene	7.7	UJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	91-57-6	2-Methylnaphthalene	7.7	UJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	208-96-8	Acenaphthylene	6.3	LJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	83-32-9	Acenaphthene	7.7	UJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	86-73-7	Fluorene	7.7	UJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	87-86-5	Pentachlorophenol	16	U*	ug/kg	16	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	85-01-8	Phenanthrene	4.2	LJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	120-12-7	Anthracene	6.9	LJ	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	206-44-0	Fluoranthene	25	J	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	129-00-0	Pyrene	25	J	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	56-55-3	Benzo(a)anthracene	19	J	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	218-01-9	Chrysene	36	J	ug/kg	7.7	05/19/2015 006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	205-99-2	Benzo(b)fluoranthene	31	J	ug/kg	7.7	05/19/2015 006

45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	207-08-9	Benzo(k)fluoranthene	8.7	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	50-32-8	Benzo(a)pyrene	17	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	193-39-5	Indeno(1,2,3-cd)pyrene	20	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	53-70-3	Dibenzo(a,h)anthracene	4.5	LJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	191-24-2	Benzo(g,h,i)perylene	11	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	108-95-2	Phenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	111-44-4	Bis(2-chloroethyl)ether	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	98-86-2	Acetophenone	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	78-59-1	Isophorone	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	106-47-8	4-Chloroaniline	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	105-60-2	Caprolactam	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	77-47-4	Hexachlorocyclopentadiene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	88-74-4	2-Nitroaniline	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	99-09-2	3-Nitroaniline	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	51-28-5	2,4-Dinitrophenol	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	100-02-7	4-Nitrophenol	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	100-01-6	4-Nitroaniline	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	534-52-1	4,6-Dinitro-2-methylphenol	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	05/19/2015	006

45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	1912-24-9	Atrazine	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	87-86-5	Pentachlorophenol	410	U*	ug/kg	410	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	86-74-8	Carbazole	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	84-74-2	Di-n-butylphthalate	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	91-20-3	Naphthalene	4.1	U	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	91-57-6	2-Methylnaphthalene	4.1	U	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	208-96-8	Acenaphthylene	1.5	LJ	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	83-32-9	Acenaphthene	4.1	U	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	86-73-7	Fluorene	4.1	U	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	87-86-5	Pentachlorophenol	8.2	U	ug/kg	8.2	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	85-01-8	Phenanthrene	4.1	U	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	120-12-7	Anthracene	1.3	LJ	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	206-44-0	Fluoranthene	5.0		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	129-00-0	Pyrene	6.7		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	56-55-3	Benzo(a)anthracene	4.7		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	218-01-9	Chrysene	5.5		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	205-99-2	Benzo(b)fluoranthene	6.8		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	207-08-9	Benzo(k)fluoranthene	2.2	LJ	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	50-32-8	Benzo(a)pyrene	4.2		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	4.3		ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	53-70-3	Dibenzo(a,h)anthracene	0.88	LJ	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	191-24-2	Benzo(g,h,i)perylene	2.1	LJ	ug/kg	4.1	05/19/2015 006
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015 020

45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	88-74-4	2-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	51-28-5	2,4-Dinitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	91-20-3	Naphthalene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	91-57-6	2-Methylnaphthalene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	208-96-8	Acenaphthylene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	83-32-9	Acenaphthene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	86-73-7	Fluorene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	87-86-5	Pentachlorophenol	7.5	U	ug/kg	7.5	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	85-01-8	Phenanthrene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	120-12-7	Anthracene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	206-44-0	Fluoranthene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	129-00-0	Pyrene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	56-55-3	Benzo(a)anthracene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	218-01-9	Chrysene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	205-99-2	Benzo(b)fluoranthene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	207-08-9	Benzo(k)fluoranthene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	50-32-8	Benzo(a)pyrene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	191-24-2	Benzo(g,h,i)perylene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015 020

45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	87-86-5	Pentachlorophenol	400	U*	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	117-81-7	Bis(2-ethylhexyl)phthalate	23	LJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	020

45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	91-20-3	Naphthalene	2.3	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	91-57-6	2-Methylnaphthalene	4.3	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	208-96-8	Acenaphthylene	2.8	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	83-32-9	Acenaphthene	2.0	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	86-73-7	Fluorene	2.1	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	87-86-5	Pentachlorophenol	1.4	LJ	ug/kg	8.1	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	85-01-8	Phenanthrene	4.7	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	120-12-7	Anthracene	3.0	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	206-44-0	Fluoranthene	9.3	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	129-00-0	Pyrene	8.4	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	56-55-3	Benzo(a)anthracene	6.3	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	218-01-9	Chrysene	8.1	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	205-99-2	Benzo(b)fluoranthene	9.9	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	207-08-9	Benzo(k)fluoranthene	2.5	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	50-32-8	Benzo(a)pyrene	5.5	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.8	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	53-70-3	Dibenzo(a,h)anthracene	1.4	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	191-24-2	Benzo(g,h,i)perylene	3.9	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	88-74-4	2-Nitroaniline	370	U	ug/kg	370	05/18/2015 020

45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	51-28-5	2,4-Dinitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	117-81-7	Bis(2-ethylhexyl)phthalate	21	LJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	91-20-3	Naphthalene	1.5	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	91-57-6	2-Methylnaphthalene	2.3	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	208-96-8	Acenaphthylene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	83-32-9	Acenaphthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	86-73-7	Fluorene	1.1	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	87-86-5	Pentachlorophenol	7.5	U	ug/kg	7.5	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	85-01-8	Phenanthrene	3.6	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	120-12-7	Anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	206-44-0	Fluoranthene	1.1	LJ	ug/kg	3.7	05/18/2015	020

45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	129-00-0	Pyrene	1.3	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	56-55-3	Benzo(a)anthracene	0.80	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	218-01-9	Chrysene	1.2	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	205-99-2	Benzo(b)fluoranthene	1.2	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	207-08-9	Benzo(k)fluoranthene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	50-32-8	Benzo(a)pyrene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	191-24-2	Benzo(g,h,i)perylene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	108-95-2	Phenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	78-59-1	Isophorone	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	88-74-4	2-Nitroaniline	390	U	ug/kg	390	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	51-28-5	2,4-Dinitrophenol	390	U	ug/kg	390	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015 020

45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	87-86-5	Pentachlorophenol	390	U*	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	86-74-8	Carbazole	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	91-20-3	Naphthalene	1.4	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	91-57-6	2-Methylnaphthalene	1.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	208-96-8	Acenaphthylene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	83-32-9	Acenaphthene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	86-73-7	Fluorene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	87-86-5	Pentachlorophenol	7.9	U	ug/kg	7.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	85-01-8	Phenanthrene	1.1	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	120-12-7	Anthracene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	206-44-0	Fluoranthene	1.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	129-00-0	Pyrene	1.7	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	56-55-3	Benzo(a)anthracene	1.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	218-01-9	Chrysene	1.8	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	205-99-2	Benzo(b)fluoranthene	2.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	50-32-8	Benzo(a)pyrene	1.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	100-52-7	Benzaldehyde	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	108-95-2	Phenol	200	UJ	ug/kg	200	05/18/2015	020

45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	111-44-4	Bis(2-chloroethyl)ether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-57-8	2-Chlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-48-7	2-Methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	98-86-2	Acetophenone	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	106-44-5	4-Methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	621-64-7	N-Nitroso-di-n-propylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	67-72-1	Hexachloroethane	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	98-95-3	Nitrobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	78-59-1	Isophorone	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	88-75-5	2-Nitrophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	105-67-9	2,4-Dimethylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	111-91-1	Bis(2-chloroethoxy)methane	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	120-83-2	2,4-Dichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	106-47-8	4-Chloroaniline	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	87-68-3	Hexachlorobutadiene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	105-60-2	Caprolactam	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	59-50-7	4-Chloro-3-methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	77-47-4	Hexachlorocyclopentadiene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	88-06-2	2,4,6-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-95-4	2,4,5-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	92-52-4	1,1'-Biphenyl	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-58-7	2-Chloronaphthalene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	88-74-4	2-Nitroaniline	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	131-11-3	Dimethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	606-20-2	2,6-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	99-09-2	3-Nitroaniline	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	51-28-5	2,4-Dinitrophenol	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	100-02-7	4-Nitrophenol	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	132-64-9	Dibenzofuran	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	121-14-2	2,4-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	84-66-2	Diethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	7005-72-3	4-Chlorophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	100-01-6	4-Nitroaniline	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	534-52-1	4,6-Dinitro-2-methylphenol	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	86-30-6	N-Nitrosodiphenylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	101-55-3	4-Bromophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	118-74-1	Hexachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	1912-24-9	Atrazine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	87-86-5	Pentachlorophenol	390	U*	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	85-01-8	Phenanthrene	16	*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020

45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	86-74-8	Carbazole	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	84-74-2	Di-n-butylphthalate	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	129-00-0	Pyrene	24	*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	85-68-7	Butylbenzylphthalate	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-94-1	3,3'-Dichlorobenzidine	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	218-01-9	Chrysene	21	*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	117-81-7	Bis(2-ethylhexyl)phthalate	46	LJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	117-84-0	Di-n-octylphthalate	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	205-99-2	Benzo(b)fluoranthene	24	*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	91-20-3	Naphthalene	2.3	LJ	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	91-57-6	2-Methylnaphthalene	4.4	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	208-96-8	Acenaphthylene	5.1	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	83-32-9	Acenaphthene	1.7	LJ	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	86-73-7	Fluorene	2.5	LJ	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	87-86-5	Pentachlorophenol	4.4	LJ	ug/kg	7.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	85-01-8	Phenanthrene	15	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	120-12-7	Anthracene	7.5	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	206-44-0	Fluoranthene	16	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	129-00-0	Pyrene	24	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	56-55-3	Benzo(a)anthracene	16	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	218-01-9	Chrysene	22	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	205-99-2	Benzo(b)fluoranthene	23	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	207-08-9	Benzo(k)fluoranthene	6.7	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	50-32-8	Benzo(a)pyrene	14	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	193-39-5	Indeno(1,2,3-cd)pyrene	13	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	53-70-3	Dibenzo(a,h)anthracene	3.6	LJ	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	191-24-2	Benzo(g,h,i)perylene	12	J	ug/kg	3.9	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	100-52-7	Benzaldehyde	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	108-95-2	Phenol	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	111-44-4	Bis(2-chloroethyl)ether	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-57-8	2-Chlorophenol	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-48-7	2-Methylphenol	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	98-86-2	Acetophenone	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	106-44-5	4-Methylphenol	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	621-64-7	N-Nitroso-di-n-propylamine	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	67-72-1	Hexachloroethane	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	98-95-3	Nitrobenzene	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	78-59-1	Isophorone	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	88-75-5	2-Nitrophenol	190	UJ	ug/kg	190	05/18/2015 020

45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	105-67-9	2,4-Dimethylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	111-91-1	Bis(2-chloroethoxy)methane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	120-83-2	2,4-Dichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	106-47-8	4-Chloroaniline	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	87-68-3	Hexachlorobutadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	105-60-2	Caprolactam	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	59-50-7	4-Chloro-3-methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	77-47-4	Hexachlorocyclopentadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	88-06-2	2,4,6-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-95-4	2,4,5-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	92-52-4	1,1'-Biphenyl	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-58-7	2-Chloronaphthalene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	88-74-4	2-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	131-11-3	Dimethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	606-20-2	2,6-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	99-09-2	3-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	51-28-5	2,4-Dinitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	100-02-7	4-Nitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	132-64-9	Dibenzofuran	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	121-14-2	2,4-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	84-66-2	Diethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	7005-72-3	4-Chlorophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	100-01-6	4-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	534-52-1	4,6-Dinitro-2-methylphenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	86-30-6	N-Nitrosodiphenylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	101-55-3	4-Bromophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	118-74-1	Hexachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	1912-24-9	Atrazine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	85-01-8	Phenanthrene	25	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	86-74-8	Carbazole	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	84-74-2	Di-n-butylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	206-44-0	Fluoranthene	16	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	129-00-0	Pyrene	31	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	85-68-7	Butylbenzylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-94-1	3,3'-Dichlorobenzidine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	56-55-3	Benzo(a)anthracene	19	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	218-01-9	Chrysene	29	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	117-81-7	Bis(2-ethylhexyl)phthalate	18	LJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	117-84-0	Di-n-octylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	205-99-2	Benzo(b)fluoranthene	24	*	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KX1		1513978005	S	07/02/2015	13:36:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1		1513978005	S	07/02/2015	13:36:00	50-32-8	Benzo(a)pyrene	17	*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1		1513978005	S	07/02/2015	13:36:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1		1513978005	S	07/02/2015	13:36:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1		1513978005	S	07/02/2015	13:36:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1		1513978005	S	07/02/2015	13:36:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	91-20-3	Naphthalene	1.7	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	91-57-6	2-Methylnaphthalene	3.1	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	208-96-8	Acenaphthylene	4.0	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	83-32-9	Acenaphthene	3.7	UJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	86-73-7	Fluorene	0.84	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	87-86-5	Pentachlorophenol	0.85	LJ	ug/kg	7.5	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	85-01-8	Phenanthrene	25	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	120-12-7	Anthracene	6.2	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	206-44-0	Fluoranthene	18	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	129-00-0	Pyrene	33	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	56-55-3	Benzo(a)anthracene	22	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	218-01-9	Chrysene	32	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	205-99-2	Benzo(b)fluoranthene	24	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	207-08-9	Benzo(k)fluoranthene	6.5	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	50-32-8	Benzo(a)pyrene	15	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	14	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	53-70-3	Dibenzo(a,h)anthracene	4.6	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX1	(SIM)	1513978005	S	07/09/2015	16:46:00	191-24-2	Benzo(g,h,i)perylene	11	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4		1514071002	S	05/27/2015	16:39:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015 020

45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	91-20-3	Naphthalene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	91-57-6	2-Methylnaphthalene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/18/2015 020

45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	206-44-0	Fluoranthene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	129-00-0	Pyrene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	56-55-3	Benzo(a)anthracene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	218-01-9	Chrysene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	50-32-8	Benzo(a)pyrene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	108-95-2	Phenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	78-59-1	Isophorone	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/18/2015 020

45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	86-74-8	Carbazole	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	91-20-3	Naphthalene	1.9	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	91-57-6	2-Methylnaphthalene	2.7	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	208-96-8	Acenaphthylene	1.5	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	83-32-9	Acenaphthene	1.6	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	86-73-7	Fluorene	2.0	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	87-86-5	Pentachlorophenol	1.5	LJ	ug/kg	7.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	85-01-8	Phenanthrene	2.6	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	120-12-7	Anthracene	1.6	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	206-44-0	Fluoranthene	0.96	LJ	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	129-00-0	Pyrene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	56-55-3	Benzo(a)anthracene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	218-01-9	Chrysene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	50-32-8	Benzo(a)pyrene	3.8	U	ug/kg	3.8	05/18/2015 020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U	ug/kg	3.8	05/18/2015 020

45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	100-52-7	Benzaldehyde	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	108-95-2	Phenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	111-44-4	Bis(2-chloroethyl)ether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-57-8	2-Chlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-48-7	2-Methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	98-86-2	Acetophenone	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	106-44-5	4-Methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	621-64-7	N-Nitroso-di-n-propylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	67-72-1	Hexachloroethane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	98-95-3	Nitrobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	78-59-1	Isophorone	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	88-75-5	2-Nitrophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	105-67-9	2,4-Dimethylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	111-91-1	Bis(2-chloroethoxy)methane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	120-83-2	2,4-Dichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	106-47-8	4-Chloroaniline	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	87-68-3	Hexachlorobutadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	105-60-2	Caprolactam	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	59-50-7	4-Chloro-3-methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	77-47-4	Hexachlorocyclopentadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	88-06-2	2,4,6-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-95-4	2,4,5-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	92-52-4	1,1'-Biphenyl	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-58-7	2-Chloronaphthalene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	88-74-4	2-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	131-11-3	Dimethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	606-20-2	2,6-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	99-09-2	3-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	51-28-5	2,4-Dinitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	100-02-7	4-Nitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	132-64-9	Dibenzofuran	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	121-14-2	2,4-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	84-66-2	Diethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	7005-72-3	4-Chlorophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	100-01-6	4-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	534-52-1	4,6-Dinitro-2-methylphenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	86-30-6	N-Nitrosodiphenylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	101-55-3	4-Bromophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	118-74-1	Hexachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	1912-24-9	Atrazine	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	87-86-5	Pentachlorophenol	370	UJ	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	86-74-8	Carbazole	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	84-74-2	Di-n-butylphthalate	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	85-68-7	Butylbenzylphthalate	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-94-1	3,3'-Dichlorobenzidine	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	117-84-0	Di-n-octylphthalate	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	UJ	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	91-20-3	Naphthalene	1.7	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	91-57-6	2-Methylnaphthalene	2.2	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	208-96-8	Acenaphthylene	2.6	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	83-32-9	Acenaphthene	3.7	UJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	86-73-7	Fluorene	0.76	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	87-86-5	Pentachlorophenol	7.5	U*	ug/kg	7.5	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	85-01-8	Phenanthrene	4.6	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	120-12-7	Anthracene	3.3	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	206-44-0	Fluoranthene	8.4	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	129-00-0	Pyrene	11	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	56-55-3	Benzo(a)anthracene	8.4	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	218-01-9	Chrysene	10	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	205-99-2	Benzo(b)fluoranthene	13	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	207-08-9	Benzo(k)fluoranthene	3.8	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	50-32-8	Benzo(a)pyrene	7.2	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	7.0	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	53-70-3	Dibenzo(a,h)anthracene	1.8	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	191-24-2	Benzo(g,h,i)perylene	4.1	J	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015 020

45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	88-74-4	2-Nitroaniline	370	U	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	51-28-5	2,4-Dinitrophenol	370	U	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015 020

45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	91-20-3	Naphthalene	0.81	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	91-57-6	2-Methylnaphthalene	1.2	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	208-96-8	Acenaphthylene	1.0	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	83-32-9	Acenaphthene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	86-73-7	Fluorene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	87-86-5	Pentachlorophenol	7.5	U	ug/kg	7.5	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	85-01-8	Phenanthrene	5.4		ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	120-12-7	Anthracene	1.2	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	206-44-0	Fluoranthene	3.4	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	129-00-0	Pyrene	7.4		ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	56-55-3	Benzo(a)anthracene	3.9		ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	218-01-9	Chrysene	5.8		ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	205-99-2	Benzo(b)fluoranthene	4.0		ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	207-08-9	Benzo(k)fluoranthene	1.2	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	50-32-8	Benzo(a)pyrene	2.5	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	2.4	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	191-24-2	Benzo(g,h,i)perylene	1.7	LJ	ug/kg	3.7	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015 020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015 020

45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	87-86-5	Pentachlorophenol	400	U*	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	117-81-7	Bis(2-ethylhexyl)phthalate	78	LJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	91-20-3	Naphthalene	0.83	LJ	ug/kg	4.0	05/18/2015	020

45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	91-57-6	2-Methylnaphthalene	4.0	UJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	208-96-8	Acenaphthylene	1.5	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	83-32-9	Acenaphthene	4.0	UJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	86-73-7	Fluorene	4.0	UJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	87-86-5	Pentachlorophenol	1.4	LJ	ug/kg	8.1	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	85-01-8	Phenanthrene	2.7	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	120-12-7	Anthracene	2.3	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	206-44-0	Fluoranthene	7.7	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	129-00-0	Pyrene	8.6	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	56-55-3	Benzo(a)anthracene	7.2	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	218-01-9	Chrysene	11	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	205-99-2	Benzo(b)fluoranthene	12	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	207-08-9	Benzo(k)fluoranthene	2.6	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	50-32-8	Benzo(a)pyrene	12	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	9.7	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	53-70-3	Dibenzo(a,h)anthracene	3.7	LJ	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	191-24-2	Benzo(g,h,i)perylene	19	J	ug/kg	4.0	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	100-52-7	Benzaldehyde	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	108-95-2	Phenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	111-44-4	Bis(2-chloroethyl)ether	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-57-8	2-Chlorophenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-48-7	2-Methylphenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	98-86-2	Acetophenone	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	106-44-5	4-Methylphenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	621-64-7	N-Nitroso-di-n-propylamine	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	67-72-1	Hexachloroethane	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	98-95-3	Nitrobenzene	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	78-59-1	Isophorone	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	88-75-5	2-Nitrophenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	105-67-9	2,4-Dimethylphenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	111-91-1	Bis(2-chloroethoxy)methane	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	120-83-2	2,4-Dichlorophenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	106-47-8	4-Chloroaniline	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	87-68-3	Hexachlorobutadiene	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	105-60-2	Caprolactam	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	59-50-7	4-Chloro-3-methylphenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	77-47-4	Hexachlorocyclopentadiene	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	88-06-2	2,4,6-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-95-4	2,4,5-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	92-52-4	1,1'-Biphenyl	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-58-7	2-Chloronaphthalene	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	88-74-4	2-Nitroaniline	380	UJ	ug/kg	380	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	131-11-3	Dimethylphthalate	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	606-20-2	2,6-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015 020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015 020

45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	99-09-2	3-Nitroaniline	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	51-28-5	2,4-Dinitrophenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	100-02-7	4-Nitrophenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	132-64-9	Dibenzofuran	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	121-14-2	2,4-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	84-66-2	Diethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	7005-72-3	4-Chlorophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	100-01-6	4-Nitroaniline	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	534-52-1	4,6-Dinitro-2-methylphenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	86-30-6	N-Nitrosodiphenylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	101-55-3	4-Bromophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	118-74-1	Hexachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	1912-24-9	Atrazine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	87-86-5	Pentachlorophenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	86-74-8	Carbazole	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	84-74-2	Di-n-butylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	85-68-7	Butylbenzylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	91-94-1	3,3'-Dichlorobenzidine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	117-84-0	Di-n-octylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7		1513978010	S	07/02/2015	15:15:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	91-20-3	Naphthalene	2.1	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	91-57-6	2-Methylnaphthalene	3.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	208-96-8	Acenaphthylene	2.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	83-32-9	Acenaphthene	1.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	86-73-7	Fluorene	1.5	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	87-86-5	Pentachlorophenol	7.7	U*	ug/kg	7.7	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	85-01-8	Phenanthrene	4.3	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	120-12-7	Anthracene	3.1	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	206-44-0	Fluoranthene	8.0	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	129-00-0	Pyrene	9.6	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	56-55-3	Benzo(a)anthracene	6.0	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7	(SIM)	1513978010	S	07/09/2015	18:17:00	218-01-9	Chrysene	8.0	J	ug/kg	3.8	05/18/2015	020

45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	205-99-2	Benzo(b)fluoranthene	10	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	207-08-9	Benzo(k)fluoranthene	2.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	50-32-8	Benzo(a)pyrene	5.6	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.9	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	53-70-3	Dibenzo(a,h)anthracene	1.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	191-24-2	Benzo(g,h,i)perylene	6.5	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	020

45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	87-86-5	Pentachlorophenol	400	U*	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	91-20-3	Naphthalene	1.3	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	91-57-6	2-Methylnaphthalene	1.7	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	208-96-8	Acenaphthylene	1.8	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	83-32-9	Acenaphthene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	86-73-7	Fluorene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	87-86-5	Pentachlorophenol	1.2	LJ	ug/kg	8.2	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	85-01-8	Phenanthrene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	120-12-7	Anthracene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	206-44-0	Fluoranthene	8.2	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	129-00-0	Pyrene	7.9	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	56-55-3	Benzo(a)anthracene	6.3	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	218-01-9	Chrysene	9.1	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	205-99-2	Benzo(b)fluoranthene	11	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	207-08-9	Benzo(k)fluoranthene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	50-32-8	Benzo(a)pyrene	5.9	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.5	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	53-70-3	Dibenzo(a,h)anthracene	1.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	191-24-2	Benzo(g,h,i)perylene	3.9	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	108-95-2	Phenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/18/2015	020

45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	78-59-1	Isophorone	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	86-74-8	Carbazole	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/18/2015 020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015 020

45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	91-20-3	Naphthalene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	91-57-6	2-Methylnaphthalene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	206-44-0	Fluoranthene	2.9	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	129-00-0	Pyrene	4.2		ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	56-55-3	Benzo(a)anthracene	2.2	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	218-01-9	Chrysene	2.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	205-99-2	Benzo(b)fluoranthene	2.4	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	207-08-9	Benzo(k)fluoranthene	0.78	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	50-32-8	Benzo(a)pyrene	1.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015	006

45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	87-86-5	Pentachlorophenol	400	UJ	ug/kg	400	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	206-44-0	Fluoranthene	57	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	129-00-0	Pyrene	65	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	56-55-3	Benzo(a)anthracene	44	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	218-01-9	Chrysene	77	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	205-99-2	Benzo(b)fluoranthene	86	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	207-08-9	Benzo(k)fluoranthene	25	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	50-32-8	Benzo(a)pyrene	42	*	ug/kg	210	05/18/2015 006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	193-39-5	Indeno(1,2,3-cd)pyrene	27	*	ug/kg	210	05/18/2015 006

45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	191-24-2	Benzo(g,h,i)perylene	23	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	91-20-3	Naphthalene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	91-57-6	2-Methylnaphthalene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	208-96-8	Acenaphthylene	18	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	83-32-9	Acenaphthene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	86-73-7	Fluorene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	87-86-5	Pentachlorophenol	32	U*	ug/kg	32	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	85-01-8	Phenanthrene	12	LJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	120-12-7	Anthracene	20	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	206-44-0	Fluoranthene	64	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	129-00-0	Pyrene	63	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	56-55-3	Benzo(a)anthracene	51	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	218-01-9	Chrysene	84	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	205-99-2	Benzo(b)fluoranthene	80	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	207-08-9	Benzo(k)fluoranthene	24	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	50-32-8	Benzo(a)pyrene	43	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	51	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	53-70-3	Dibenzo(a,h)anthracene	11	LJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	191-24-2	Benzo(g,h,i)perylene	31	J	ug/kg	16	05/18/2015	006

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45316 SDG No. F9KW7 SDG Nos. To Follow Mod. Ref No. Date Rec 06/10/15

EPA Lab ID: DATAC

Lab Location: Salt Lake City, UT

Region: 6 Audit No.: 45316/F9KW7

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Item Description

14./15. The sampler did not use sample tags.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Linda Hoffman / ESAT Data Reviewer Date 07/24/15

Audited by: Date

Signature Printed Name/Title

DC-2__

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45316 SDG No. F9KW7 SDG Nos. To Follow Mod. Ref No. Date Rec 07/17/15

EPA Lab ID: DATAC

Lab Location: Salt Lake City, UT

Region: 6 Audit No.: 45316/F9KW7

Re_Submitted CSF? Yes X No

Box No(s): 1

COMMENTS:

Item Description

Only the BNA/BNA-SIM sample data was resubmitted in this CSF.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?			X
7. Complete?			X
8. Accurate?			X
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?			X
10. Dated?			X
AIRBILLS/AIRBILL STICKER			
11. Present?			X
12. Signed?			X
13. Dated?			X
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Linda Hoffman / ESAT Data Reviewer Date 07/24/15

Audited by: Date

Signature Printed Name/Title

DC-2__

In Reference To Case No.: 45316 SDG(s): F9K48, F9K50, and F9KW7

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	DATAC
Lab Contact:	Roxanne Olson
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Linda Hoffman - ESAT

In reference to data for the fraction(s):

BNA/BNA-SIM

Summary of Questions/Issues:

The analyses for the BNA/BNA-SIM samples listed below under each SDG appear to be over diluted. Please reanalyze these samples without dilution and with any needed dilutions that meet the SOW requirement (SOM01.2, p. D-41/SVOA, sec. 10.6.6.3). Please submit a new CSF data package and EDD submission that includes revised and additional data and associated Forms resulting from the reanalyses of these samples.

SDG F9K48:

BNA: F9K48, F9K49, F9K51, F9K54, F9K55, F9K83, F9K84, F9K85, F9K87, F9K90, F9K91, F9K93, F9KA1, F9L35, and F9L36

BNA-SIM: F9K84, F9K85, F9K91, F9K93, and F9L35

SDG F9K50:

BNA: F9K50, F9K70, F9K76, F9K82, F9K86, F9K92, F9KA0, F9KA2, F9KQ6, F9KT8, F9KT9, F9KW2, and F9KW6

BNA-SIM: F9K70, F9K86, F9K92, F9KA2, F9KT8, F9KT9, F9KW2, and F9KW6

SDG F9KW7:

BNA: F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, and F9L30

BNA-SIM: F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, and F9L30

Resubmission Request

Continuation Page: 2
Laboratory/Contact: DATAC/Roxanne Olson
In Reference to Case No.: 45316 **SDG:** F9K48, F9K50, and F9KW7

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM01.2, p. B-33, sec. 2.6.3). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 7 days** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

USEPA CLP COC (REGION COPY)
DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773634427290

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #:

No: 6-051915-112821-0023
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-006-001-06-51	F9K71	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:15	Field Sample
WO-006-001-12-51	F9K72	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:20	Field Sample
WO-006-001-24-51	F9K73	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (1)	006	05/19/2015 08:25	Field Sample
WO-006-002-06-51	F9K77	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:40	Field Sample
WO-006-002-12-51	F9K78	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:45	Field Sample
WO-006-002-24-51	F9K79	Soil/ START	Composite	SVOA/SVOASIM(21)	1027 (Ice) (2)	006	05/19/2015 08:50	Field Sample
WO-006-003-06-51	F9K83	Soil/ START	Composite	SVOA/SVOASIM(21)	1034 (Ice) (2)	006	05/19/2015 10:15	Field Sample

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Cherch Weston	5/19/2015 2100	FedEx	5/19/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749050

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #: 9

No: 6-051815-190752-0015
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-006-005-00-51	F9K50	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:20	Field Sample
WO-006-001-00-51	F9K70	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:15	Field Sample
WO-006-002-00-51	F9K76	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:30	Field Sample
WO-006-003-00-51	F9K82	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:40	Field Sample
WO-006-004-00-51	F9K86	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:00	Field Sample
WO-020-001-24-51	F9KT7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:15	Field Sample
WO-020-001-24-52	F9L29	Soil/ START	Composite	SVOA(21)	1013 (Ice) (2)	020	05/18/2015 14:20	Field Sample

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Weston	5/18/15 2100	FedEx	5/18/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749082

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #: 6

No: 6-051815-172245-0011
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-001-00-51	F9KQ6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:00	Field Sample
WO-020-001-06-51	F9KQ7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:05	Field Sample
WO-020-002-12-51	F9KR0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:25	Field Sample
WO-020-002-24-51	F9KR1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:30	Field Sample
WO-020-001-12-51	F9KT6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:10	Field Sample
WO-020-002-00-51	F9KT8	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:15	Field Sample
WO-020-002-06-51	F9KT9	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:20	Field Sample

Page 49 of 52

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	D. [signature] Weston	5/18/15 2100	Fed Ex	5/18/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749108

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #: 5

No: 6-051815-142514-0010
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-003-00-51	F9KW2	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 10:15	Field Sample
WO-020-003-06-51	F9KW3	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 10:25	Field Sample
WO-020-003-12-51	F9KW4	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 10:30	Field Sample
WO-020-003-24-51	F9KW5	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 10:35	Field Sample
WO-020-004-00-51	F9KW6	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:45	Field Sample
WO-020-004-06-51	F9KW7	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:50	Field Sample
WO-020-004-12-51	F9KW8	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:55	Field Sample
WO-020-004-24-51	F9KW9	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 10:00	Field Sample
WO-020-003-00-52	F9L28	Soil/ START	Composite	SVOA/SVOASIM(21)	1008 (Ice) (2)	020	05/18/2015 10:20	Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	C Bersh Weston	5/18/2015 2100	Fed Ex	5/18/2015 2100	

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USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467748958

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #: 11

No: 6-051815-201754-0020
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-006-006-00-51	F9K92	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:40	Field Sample
WO-006-007-00-51	F9KA0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 17:20	Field Sample
WO-006-008-00-51	F9KA2	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 17:25	Field Sample
WO-006-004-00-52	F9L30	Soil/ START	Composite	SVOA(21)	1018 (Ice) (2)	006	05/18/2015 16:05	Field Sample

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	D [signature]	5/18/15 2100	Fed Ex	5/18/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749130

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #: 1

No: 6-051815-110208-0001
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-005-00-51	F9KX0	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 08:05	Field Sample
WO-020-005-06-51	F9KX1	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 08:10	Field Sample
WO-020-006-12-51	F9KX4	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:25	Field Sample
WO-020-006-24-51	F9KX5	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:30	Field Sample
WO-020-005-12-51	F9KY4	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 08:15	Field Sample
WO-020-005-24-51	F9KY5	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 08:20	Field Sample
WO-020-006-00-51	F9KY6	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:15	Field Sample
WO-020-006-06-51	F9KY7	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	020	05/18/2015 09:20	Field Sample

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBenh Weston	5/18/15 2100	FedEx	5/18/15 2100	

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ADDENDUM

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**BNA**
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
	2,4-Dinitrophenol SSTD020L2
	Hexachlorocyclopentadiene SSTD020K1, SSTD020L2
	4,6-Dinitro-2-methylphenol SSTD020L2
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
Continuing Calibration Verification	**BNA**
BC21	The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and nondetected compounds are not qualified.
	F9L30
	4,6-Dinitro-2-methylphenol-d2 SSTD020L2
	F9L30

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**BNA_SIM**	
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria.	Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30	
	Pentachlorophenol SSTD0.4F1	
	F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30	
Continuing Calibration Verification	**BNA_SIM**	
BC14	The following semivolatile samples are associated with a CCV with relative response factors (RRF50) outside criteria.	Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30	
	Pentachlorophenol SSTD0.4F1, SSTD0.4T1	
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30	

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K71, F9K77, F9KW7, F9KW8, F9KX0, F9KX1, F9KY6, F9L30
	Benzo(k)fluoranthene F9K71, F9L30
	Anthracene F9K71
	Fluoranthene F9K71, F9K77, F9KX1, F9L30
	Benzo(g,h,i)perylene F9K71, F9L30
	Pyrene F9K71, F9K77, F9KX0, F9KX1, F9L30
	Indeno(1,2,3-cd)pyrene F9K71, F9L30
	Acenaphthylene F9K71
	Benzo(a)anthracene F9K71, F9K77, F9KX1, F9L30
	Chrysene F9K71, F9K77, F9KX0, F9KX1, F9L30
	Phenanthrene F9K71, F9KX0, F9KX1
	Benzo(b)fluoranthene F9K71, F9K77, F9KX0, F9KX1, F9L30
	Benzo(a)pyrene F9K71, F9K77, F9KX1, F9L30
	Bis(2-ethylhexyl)phthalate F9KW7, F9KW8, F9KX0, F9KX1, F9KY6
	Dibenzo(a,h)anthracene F9K71

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K71, F9K72, F9K73, F9K77, F9K78, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30
	Benzo(k)fluoranthene F9K72, F9K78, F9KW7, F9KY5, F9KY6, F9KY7, F9L28, F9L29
	Anthracene F9K71, F9K77, F9K78, F9KW7, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28
	Fluoranthene F9K72, F9KW8, F9KW9, F9KX5, F9KY5, F9L29
	Benzo(g,h,i)perylene F9K72, F9K78, F9KW7, F9KY5, F9L28
	Fluorene F9KW7, F9KW8, F9KX0, F9KX1, F9KX5, F9KY4, F9KY7
	Naphthalene F9K73, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28
	Pyrene F9K72, F9KW8, F9KW9
	Indeno(1,2,3-cd)pyrene F9K72, F9KW9, F9KY5, F9L29
	Acenaphthylene F9K71, F9K77, F9K78, F9KW7, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28
	Benzo(a)anthracene F9K72, F9KW8, F9KW9, F9L29
	Chrysene F9K72, F9KW8, F9KW9, F9L29
	Phenanthrene F9K71, F9K77, F9KW8, F9KW9, F9KX5, F9KY6, F9L28, F9L30
	Acenaphthene F9KW7, F9KX0, F9KX5, F9KY7
	Benzo(b)fluoranthene F9K72, F9KW8, F9KW9, F9L29
	Benzo(a)pyrene F9K72, F9KW9, F9KY5, F9L29
	2-Methylnaphthalene F9K73, F9KW8, F9KW9, F9KX1, F9KX5, F9KY4, F9KY5, F9KY7, F9L28
	Pentachlorophenol F9KW7, F9KX0, F9KX1, F9KX5, F9KY6, F9L28
	Dibenzo(a,h)anthracene F9K71, F9K77, F9K78, F9KW7, F9KX0, F9KY4, F9KY6, F9KY7, F9L28, F9L30

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA
BHT4	The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA_SIM
BHT4	The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30, SBLK23
	Hexadecenoic acid, Z-11- F9KX0, F9KX1
	13-Docosenamide, (Z)- F9K72, F9K73, F9K77, F9K78, F9KX4, F9KX5
	Hexadecanamide F9K71, F9K72, F9K73, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9L29, SBLK23
	9-Tetradecenal, (Z)- F9L30
	Octacosanol F9KX0, F9L28
	Pentadecanoic acid, 14-methyl-, methyl ester F9K77, F9KY7
	A'-Neogammacer-22(29)-ene F9L29
	Dodecanamide F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9L28
	Stigmasterol F9KW7, F9L28
	Tetradecanamide F9K71, F9K73, F9KX0, F9KX4, F9KY7, F9L30
	1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl F9KY4
	Tricosyl trifluoroacetate F9L28
	Stigmast-4-en-3-one F9KW7, F9KX0
	Perylene F9K71
	9-Octadecenoic acid (Z)-, methyl ester F9L28
	Methyl 10-trans,12-cis-octadecadienoate F9L28
	7-Nonenamide F9L28
	trans-13-Octadecenoic acid F9KX0
	1-Heneicosanol F9KW7
	Undecanamide, 11-bromo- F9KX0
	.gamma.-Sitosterol F9KX0
	Furan, 2,5-dimethyl- F9K73, SBLK23
	.beta.-Sitosterol F9KW7, F9KY6
	8-Octadecenoic acid, methyl ester, (E)- F9K77
	Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, [1R-(1. F9KX1

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	9-Octadecenamide, (Z)- F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30, SBLK23
	3-Buten-2-one, 3-methyl- F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY6, F9KY7, F9L28, F9L30
	10-Octadecenoic acid, methyl ester F9KY6
	1,21-Docosadiene F9KW7
	Ethanone, 1-(2-hydroxy-4-methoxyphenyl)- F9KY6
	n-Hexadecanoic acid F9K71, F9K77, F9KW7, F9KW8, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
	n-Tetracosanol-1 F9KX0
	Testosterone F9KY6, F9L28
	cis-Vaccenic acid F9L28
	2-Propanone, 1-chloro- F9K71, F9K73, F9K77, F9KW9, F9KX5, F9KY4, F9L29, F9L30, SBLK23
	Octadecanamide F9K73, SBLK23
	Methyl 13-methyltetradecanoate F9KY6
	Supraene F9KW7
	Phytol F9KW7
	Dehydroabietic acid F9K72
	1-Hexacosene F9KX0
	15-Octadecenoic acid, methyl ester F9L28
	16-Hentriacontanone F9KX5
	9-Hexacosene F9KW7, F9KX0
	13-Tetradecen-1-ol acetate F9L28
	cis-9,10-Epoxyoctadecanamide F9KX1
	Squalene F9KX0, F9KY6, F9KY7, F9L28
	Hexadecanoic acid, methyl ester F9KY6, F9L28, F9L30
TIC	**BNA**
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30, SBLK23
	Unknown 3-Pentenoic acid, methyl ester F9K72, F9K73, F9KW7, F9KW9, F9KY4

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown 2-Propanone, 1-hydroxy- F9KW7, F9KX0
	Unknown 2,2,5,5,8-Pentamethyl-3,6-dioxa-8-nonen-1-ol F9L28
	Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl- SBLK23
	Unknown Butanoic acid, 2-propenyl ester F9K77
	Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)-acetami F9K71
	Unknown Hydroxylamine, O-(3-methylbutyl)- F9KY6
	Unknown 1,2-Benzenedicarboxylic acid F9KX0
	Unknown Thioindigo F9L28
	Unknown 2H-Pyran, tetrahydro-2-methyl- F9K77, F9KX1, F9KY6
	Unknown 2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethoxy F9KY4
	Unknown (2-Acetyl-5-methyl-cyclopentyl)-acetic acid F9L30
	Unknown 5.beta.-Coprostan-16,22-epoxy-3.alpha.,25,26-tri F9L29
	Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dim F9KR0, F9KW8, F9L29
	Unknown 1,2-Ethanediol F9K77, F9KR0, F9KW8, F9KW9, F9KX4, F9KY5, F9L30
	Unknown Benzene, 1-chloro-4-methoxy-2-methyl- F9KX5
	Unknown 4-Phenylpiperidine F9KY4
	Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl) F9K71
	Unknown Furan, 2,5-dimethyl- F9K72
	Unknown 2-Butanol, 3-methyl- F9K77
	Unknown 3-Pentenoic acid, 4-methyl- F9KW7
	Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.beta.)- F9K71, F9KW9
	Unknown 7-Nonenamide F9KY6, F9KY7
	Unknown Pentane, 3-bromo- F9L30
	Unknown Thiophene, 2-methyl- F9KY7
	Unknown 2-Pentenoic acid, 2,3-dimethyl- F9KY6
	Unknown 4-Chloro-2-butanone F9K72, F9K73, F9K77, F9KR0, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KY4, F9KY5, F9KY6, F9KY7, F9L30, SBLK23
	Unknown 3-[4-Methoxyphenyl]quinolin-4-ol F9L28

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown .delta.-Selinene F9K72
	Unknown Phthalic acid, isobutyl undecyl ester F9K77
	Unknown Acetic acid, 2-[5-(4-nitrophenyl)-1-imidazolyl]- F9KY6
	Unknown [2.2]Paracyclophane F9KY7
	Unknown Dodecanamide F9K71, F9KY6, F9KY7, F9L28
	Unknown Propane, 2,2-dimethoxy- F9K73, F9K78
	Unknown Silane, tetraethyl- F9KX0, F9KY6, F9L28
	Unknown Amyl nitrite F9KW7
	Unknown Stearic acid hydrazide F9KY7
	Unknown (-)-Isolongifolol, methyl ether F9L29
	Unknown 1,2,3,4-Tetrahydropentalene, 1,1-dimethyl-3-cyan SBLK23
	Unknown Bromoacetic acid, 4-methylpentyl ester F9L28
	Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenzo[c]thie F9K72, F9KW8, F9KW9, F9KX5
	Unknown dl-Glyceraldehyde dimer F9KX1
	Unknown Hexadecanamide F9KX1
	Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro-5H-naph F9K72, F9K73, F9K78, F9KX5, F9KY5
	Unknown 2,4,4-Trimethyl-3-(3-methylbuta-1,3-dienyl)cyclo F9L29
	Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hexahydro-2 F9KX5
	Unknown 3-Dodecen-1-ol F9KX0
	Unknown 5-Tetradecene, (E)- F9KX0
	Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien-1-one F9K73
	Unknown Ethanol, 2-(2-ethoxyethoxy)- F9K71, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L30
	Unknown Acetaldehyde, O-ethyloxime- F9K73
	Unknown 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl F9KX0
	Unknown 4-Acetylbenzoic acid F9KY7
	Unknown Tridecane, 1-iodo- F9KY7
	Unknown Thiazole F9KY7

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown 2-Piperidinone F9L30
	Unknown Tetradecanamide F9K77, F9KX0
	Unknown 1,3-Dioxolane, 2,2-dimethyl- F9K71, F9K77, F9K78, F9KX0, F9KX1, F9KY4, F9L28
	Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-methoxy- F9K71, F9KX0, F9KY4, F9KY6, F9KY7
	Unknown 9-Octadecenamide, (Z)- F9K72, F9K73, F9K78, F9KR0, F9KX1, F9KX4, F9KY4, F9KY5, F9KY7, F9L28, F9L29, SBLK23
	Unknown 2,6-Bis(4-nitro-phenylthio)pyridine F9K72
	Unknown Ethanethiol F9K71
	Unknown 1H-Pyrrole-2,5-dione F9K71, F9K72, F9K77, F9KR0, F9KW7, F9KW9, F9KX1, F9KX5, F9KY5, F9KY6, F9KY7, F9L29, F9L30
	Unknown Methacrylamide F9L30
	Unknown 2-Pentanone, 4-hydroxy-4-methyl- F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L30, SBLK23
	Unknown Guanidine F9KW9, F9L29
	Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetraene-17a-o F9KY6
	Unknown Lanceol, cis F9KY6
	Unknown 3-Hexene-2,5-dione F9K78, F9KW8, F9KX4
	Unknown trans-Crotonamide F9K71
	Unknown 3-Bromo-4-hydroxy-5-methoxyphenylacetonitrile F9L29
	Unknown Nonanamide F9KY7, F9L30
	Unknown Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-, acetate F9KW7, F9KX1, F9KY7
	Unknown Pentanoic acid, 2,2,4-trimethyl-3-carboxyisoprop F9KW8, F9KW9, F9KX5, F9KY5, SBLK23
	Unknown Tridecanedial F9KX1
	Unknown 1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4,5,6,7b- F9L29
	Unknown Carbonic acid, isobutyl undec-10-enyl ester F9KW7
	Unknown Ethyl tetradecyl ether F9KX0
	Unknown Phthalic acid, monoethyl ester F9KW7, F9KY4
	Unknown 9-Octadecenoic acid (Z)-, methyl ester F9KY7
	Unknown Glutaric acid, ethyl 1-phenylpropyl ester F9L28
	Unknown Acetamide, N-ethyl- F9K72, F9KY4, F9KY6

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown 16-Hentriacontanone F9KW8
	Unknown Hexadeca-2,6,10,14-tetraen-1-ol, 3,7,11,16-tetra F9KX1
	Unknown 1-Decene, 5-methyl- F9KY7
	Unknown Cyclohexanecarboxamide F9K78, F9KR0, F9KW8, F9KX4, F9KX5, F9KY5, F9L29
	Unknown Isopentyloxyethyl acetate F9K77
	Unknown 3-[1-Bromo-2-(phenylthio)cycloprop-1-yl]cyclopen F9KW7
	Unknown Hexadecanoic acid, 4-nitrophenyl ester F9K73
	Unknown 1-Butene, 3,3-dimethyl- F9KW7
	Unknown 1,3,4-Oxadiazole, 2-(acetyloxy)-2,5-dihydro-2,5, F9K71
	Unknown Bicyclo[3.1.1]heptane, 2,6,6-trimethyl- F9L28
	Unknown Pyrazinamide F9L30
	Unknown 5-(2-Chlorophenyl)-3-[5-(trifluoromethyl)pyridin F9K73
	Unknown Palmitic acid vinyl ester F9KY4, F9KY7
	Unknown Phthalic anhydride F9K71, F9KW7, F9KY4, F9KY7
	Unknown Phytol F9L28
	Unknown Ethanone, 1-oxiranyl- F9KY7, F9L28
	Unknown 2-Pentanone, 3-methyl- F9KW7, F9KY4, F9KY6
	Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate F9K73, F9KW8, F9KW9, F9KX5
	Unknown 1,2-Ethanediol, monoacetate F9KW7, F9KY4
	Unknown 3-Pyrrolidinol F9KX5, F9KY7, F9L29
	Unknown 2-Propanone, 1-chloro- F9KW7, F9KW8, F9KX0, F9KX1, F9KY6, F9KY7, F9L28

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	100-52-7	Benzaldehyde	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	108-95-2	Phenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	111-44-4	Bis(2-chloroethyl)ether	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-57-8	2-Chlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-48-7	2-Methylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	98-86-2	Acetophenone	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	106-44-5	4-Methylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	621-64-7	N-Nitroso-di-n-propylamine	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	67-72-1	Hexachloroethane	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	98-95-3	Nitrobenzene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	78-59-1	Isophorone	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	88-75-5	2-Nitrophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	105-67-9	2,4-Dimethylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	111-91-1	Bis(2-chloroethoxy)methane	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	120-83-2	2,4-Dichlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	106-47-8	4-Chloroaniline	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	87-68-3	Hexachlorobutadiene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	105-60-2	Caprolactam	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	59-50-7	4-Chloro-3-methylphenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	77-47-4	Hexachlorocyclopentadiene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	88-06-2	2,4,6-Trichlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-95-4	2,4,5-Trichlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	92-52-4	1,1'-Biphenyl	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-58-7	2-Chloronaphthalene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	88-74-4	2-Nitroaniline	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	131-11-3	Dimethylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	606-20-2	2,6-Dinitrotoluene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	208-96-8	Acenaphthylene	15	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	99-09-2	3-Nitroaniline	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	51-28-5	2,4-Dinitrophenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	100-02-7	4-Nitrophenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	132-64-9	Dibenzofuran	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	121-14-2	2,4-Dinitrotoluene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	84-66-2	Diethylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	7005-72-3	4-Chlorophenyl-phenylether	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	100-01-6	4-Nitroaniline	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	534-52-1	4,6-Dinitro-2-methylphenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	86-30-6	N-Nitrosodiphenylamine	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	101-55-3	4-Bromophenyl-phenylether	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	118-74-1	Hexachlorobenzene	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	1912-24-9	Atrazine	190	UJ	ug/kg	190	05/19/2015	006

45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	87-86-5	Pentachlorophenol	370	UJ	ug/kg	370	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	85-01-8	Phenanthrene	16	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	120-12-7	Anthracene	16	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	86-74-8	Carbazole	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	84-74-2	Di-n-butylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	206-44-0	Fluoranthene	150	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	129-00-0	Pyrene	150	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	85-68-7	Butylbenzylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	91-94-1	3,3'-Dichlorobenzidine	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	56-55-3	Benzo(a)anthracene	120	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	218-01-9	Chrysene	140	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	117-84-0	Di-n-octylphthalate	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	205-99-2	Benzo(b)fluoranthene	180	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	207-08-9	Benzo(k)fluoranthene	57	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	50-32-8	Benzo(a)pyrene	100	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	193-39-5	Indeno(1,2,3-cd)pyrene	91	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	53-70-3	Dibenzo(a,h)anthracene	25	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	191-24-2	Benzo(g,h,i)perylene	56	*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71	1514052001	S	07/02/2015	11:23:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	UJ	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	91-20-3	Naphthalene	37	U	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	91-57-6	2-Methylnaphthalene	37	U	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	208-96-8	Acenaphthylene	23	LJ	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	83-32-9	Acenaphthene	37	U	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	86-73-7	Fluorene	37	U	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	87-86-5	Pentachlorophenol	75	U*	ug/kg	75	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	85-01-8	Phenanthrene	16	LJ	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	120-12-7	Anthracene	28	LJ	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	206-44-0	Fluoranthene	170		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	129-00-0	Pyrene	170		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	56-55-3	Benzo(a)anthracene	150		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	218-01-9	Chrysene	150		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	205-99-2	Benzo(b)fluoranthene	190		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	207-08-9	Benzo(k)fluoranthene	63		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	50-32-8	Benzo(a)pyrene	110		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	193-39-5	Indeno(1,2,3-cd)pyrene	110		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	53-70-3	Dibenzo(a,h)anthracene	24	LJ	ug/kg	37	05/19/2015	006
45316	F9KW7	F9K71 (SIM)	1514052001	S	06/05/2015	00:28:00	191-24-2	Benzo(g,h,i)perylene	63		ug/kg	37	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	108-95-2	Phenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/19/2015	006

45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	78-59-1	Isophorone	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	86-74-8	Carbazole	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/19/2015	006

45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72	1514052002	S	05/27/2015	14:27:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	91-20-3	Naphthalene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	91-57-6	2-Methylnaphthalene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	206-44-0	Fluoranthene	2.2	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	129-00-0	Pyrene	3.7	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	56-55-3	Benzo(a)anthracene	2.1	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	218-01-9	Chrysene	2.2	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	205-99-2	Benzo(b)fluoranthene	2.4	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	207-08-9	Benzo(k)fluoranthene	0.87	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	50-32-8	Benzo(a)pyrene	1.4	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.5	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K72 (SIM)	1514052002	S	06/04/2015	17:03:00	191-24-2	Benzo(g,h,i)perylene	0.87	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	108-95-2	Phenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	78-59-1	Isophorone	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/19/2015	006

45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	86-74-8	Carbazole	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73	1514052003	S	05/27/2015	15:00:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	91-20-3	Naphthalene	1.0	LJ	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	91-57-6	2-Methylnaphthalene	1.0	LJ	ug/kg	3.8	05/19/2015	006

45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	206-44-0	Fluoranthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	129-00-0	Pyrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	56-55-3	Benzo(a)anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	218-01-9	Chrysene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	50-32-8	Benzo(a)pyrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K73 (SIM)	1514052003	S	06/04/2015	17:33:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	100-52-7	Benzaldehyde	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	108-95-2	Phenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	111-44-4	Bis(2-chloroethyl)ether	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-57-8	2-Chlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-48-7	2-Methylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	98-86-2	Acetophenone	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	106-44-5	4-Methylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	621-64-7	N-Nitroso-di-n-propylamine	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	67-72-1	Hexachloroethane	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	98-95-3	Nitrobenzene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	78-59-1	Isophorone	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	88-75-5	2-Nitrophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	105-67-9	2,4-Dimethylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	111-91-1	Bis(2-chloroethoxy)methane	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	120-83-2	2,4-Dichlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	106-47-8	4-Chloroaniline	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	87-68-3	Hexachlorobutadiene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	105-60-2	Caprolactam	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	59-50-7	4-Chloro-3-methylphenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	77-47-4	Hexachlorocyclopentadiene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	88-06-2	2,4,6-Trichlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-95-4	2,4,5-Trichlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	92-52-4	1,1'-Biphenyl	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-58-7	2-Chloronaphthalene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	88-74-4	2-Nitroaniline	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	131-11-3	Dimethylphthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	606-20-2	2,6-Dinitrotoluene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	99-09-2	3-Nitroaniline	390	UJ	ug/kg	390	05/19/2015	006

45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	51-28-5	2,4-Dinitrophenol	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	100-02-7	4-Nitrophenol	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	132-64-9	Dibenzofuran	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	121-14-2	2,4-Dinitrotoluene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	84-66-2	Diethylphthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	7005-72-3	4-Chlorophenyl-phenylether	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	100-01-6	4-Nitroaniline	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	534-52-1	4,6-Dinitro-2-methylphenol	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	86-30-6	N-Nitrosodiphenylamine	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	101-55-3	4-Bromophenyl-phenylether	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	118-74-1	Hexachlorobenzene	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	1912-24-9	Atrazine	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	87-86-5	Pentachlorophenol	390	UJ	ug/kg	390	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	86-74-8	Carbazole	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	84-74-2	Di-n-butylphthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	206-44-0	Fluoranthene	25	*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	129-00-0	Pyrene	27	*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	85-68-7	Butylbenzylphthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	91-94-1	3,3'-Dichlorobenzidine	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	56-55-3	Benzo(a)anthracene	18	*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	218-01-9	Chrysene	38	*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	117-84-0	Di-n-octylphthalate	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	205-99-2	Benzo(b)fluoranthene	35	*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	50-32-8	Benzo(a)pyrene	18	*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77	1514052004	S	07/02/2015	11:56:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	UJ	ug/kg	200	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	91-20-3	Naphthalene	7.7	UJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	91-57-6	2-Methylnaphthalene	7.7	UJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	208-96-8	Acenaphthylene	6.3	LJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	83-32-9	Acenaphthene	7.7	UJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	86-73-7	Fluorene	7.7	UJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	87-86-5	Pentachlorophenol	16	U*	ug/kg	16	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	85-01-8	Phenanthrene	4.2	LJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	120-12-7	Anthracene	6.9	LJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	206-44-0	Fluoranthene	25	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	129-00-0	Pyrene	25	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	56-55-3	Benzo(a)anthracene	19	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	218-01-9	Chrysene	36	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	205-99-2	Benzo(b)fluoranthene	31	J	ug/kg	7.7	05/19/2015	006

45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	207-08-9	Benzo(k)fluoranthene	8.7	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	50-32-8	Benzo(a)pyrene	17	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	193-39-5	Indeno(1,2,3-cd)pyrene	20	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	53-70-3	Dibenzo(a,h)anthracene	4.5	LJ	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K77 (SIM)	1514052004	S	07/09/2015	15:16:00	191-24-2	Benzo(g,h,i)perylene	11	J	ug/kg	7.7	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	108-95-2	Phenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	111-44-4	Bis(2-chloroethyl)ether	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	98-86-2	Acetophenone	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	78-59-1	Isophorone	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	106-47-8	4-Chloroaniline	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	105-60-2	Caprolactam	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	77-47-4	Hexachlorocyclopentadiene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	88-74-4	2-Nitroaniline	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	99-09-2	3-Nitroaniline	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	51-28-5	2,4-Dinitrophenol	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	100-02-7	4-Nitrophenol	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	100-01-6	4-Nitroaniline	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	534-52-1	4,6-Dinitro-2-methylphenol	410	U	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	05/19/2015	006

45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	1912-24-9	Atrazine	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	87-86-5	Pentachlorophenol	410	U*	ug/kg	410	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	86-74-8	Carbazole	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	84-74-2	Di-n-butylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78	1514052005	S	05/27/2015	15:33:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	91-20-3	Naphthalene	4.1	U	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	91-57-6	2-Methylnaphthalene	4.1	U	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	208-96-8	Acenaphthylene	1.5	LJ	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	83-32-9	Acenaphthene	4.1	U	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	86-73-7	Fluorene	4.1	U	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	87-86-5	Pentachlorophenol	8.2	U	ug/kg	8.2	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	85-01-8	Phenanthrene	4.1	U	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	120-12-7	Anthracene	1.3	LJ	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	206-44-0	Fluoranthene	5.0		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	129-00-0	Pyrene	6.7		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	56-55-3	Benzo(a)anthracene	4.7		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	218-01-9	Chrysene	5.5		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	205-99-2	Benzo(b)fluoranthene	6.8		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	207-08-9	Benzo(k)fluoranthene	2.2	LJ	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	50-32-8	Benzo(a)pyrene	4.2		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	4.3		ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	53-70-3	Dibenzo(a,h)anthracene	0.88	LJ	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9K78 (SIM)	1514052005	S	06/04/2015	18:03:00	191-24-2	Benzo(g,h,i)perylene	2.1	LJ	ug/kg	4.1	05/19/2015	006
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	88-74-4	2-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	51-28-5	2,4-Dinitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0	1514071001	S	05/27/2015	16:06:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	91-20-3	Naphthalene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	91-57-6	2-Methylnaphthalene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	208-96-8	Acenaphthylene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	83-32-9	Acenaphthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	86-73-7	Fluorene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	87-86-5	Pentachlorophenol	7.5	U	ug/kg	7.5	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	85-01-8	Phenanthrene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	120-12-7	Anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	206-44-0	Fluoranthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	129-00-0	Pyrene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	56-55-3	Benzo(a)anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	218-01-9	Chrysene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	205-99-2	Benzo(b)fluoranthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	207-08-9	Benzo(k)fluoranthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	50-32-8	Benzo(a)pyrene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KR0 (SIM)	1514071001	S	06/04/2015	18:33:00	191-24-2	Benzo(g,h,i)perylene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015	020

45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	87-86-5	Pentachlorophenol	400	U*	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	117-81-7	Bis(2-ethylhexyl)phthalate	23	LJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	020

45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7	1513978001	S	07/02/2015	12:29:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	91-20-3	Naphthalene	2.3	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	91-57-6	2-Methylnaphthalene	4.3	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	208-96-8	Acenaphthylene	2.8	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	83-32-9	Acenaphthene	2.0	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	86-73-7	Fluorene	2.1	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	87-86-5	Pentachlorophenol	1.4	LJ	ug/kg	8.1	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	85-01-8	Phenanthrene	4.7	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	120-12-7	Anthracene	3.0	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	206-44-0	Fluoranthene	9.3	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	129-00-0	Pyrene	8.4	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	56-55-3	Benzo(a)anthracene	6.3	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	218-01-9	Chrysene	8.1	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	205-99-2	Benzo(b)fluoranthene	9.9	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	207-08-9	Benzo(k)fluoranthene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	50-32-8	Benzo(a)pyrene	5.5	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.8	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	53-70-3	Dibenzo(a,h)anthracene	1.4	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW7 (SIM)	1513978001	S	07/09/2015	15:46:00	191-24-2	Benzo(g,h,i)perylene	3.9	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	88-74-4	2-Nitroaniline	370	U	ug/kg	370	05/18/2015	020

45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	51-28-5	2,4-Dinitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	117-81-7	Bis(2-ethylhexyl)phthalate	21	LJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8	1513978002	S	05/27/2015	11:39:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	91-20-3	Naphthalene	1.5	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	91-57-6	2-Methylnaphthalene	2.3	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	208-96-8	Acenaphthylene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	83-32-9	Acenaphthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	86-73-7	Fluorene	1.1	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	87-86-5	Pentachlorophenol	7.5	U	ug/kg	7.5	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	85-01-8	Phenanthrene	3.6	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	120-12-7	Anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	206-44-0	Fluoranthene	1.1	LJ	ug/kg	3.7	05/18/2015	020

45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	129-00-0	Pyrene	1.3	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	56-55-3	Benzo(a)anthracene	0.80	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	218-01-9	Chrysene	1.2	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	205-99-2	Benzo(b)fluoranthene	1.2	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	207-08-9	Benzo(k)fluoranthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	50-32-8	Benzo(a)pyrene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW8 (SIM)	1513978002	S	06/04/2015	14:32:00	191-24-2	Benzo(g,h,i)perylene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	108-95-2	Phenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	78-59-1	Isophorone	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	88-74-4	2-Nitroaniline	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	99-09-2	3-Nitroaniline	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	51-28-5	2,4-Dinitrophenol	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	100-02-7	4-Nitrophenol	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020

45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	100-01-6	4-Nitroaniline	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	534-52-1	4,6-Dinitro-2-methylphenol	390	U	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	87-86-5	Pentachlorophenol	390	U*	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	86-74-8	Carbazole	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9	1513978003	S	05/27/2015	12:13:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	91-20-3	Naphthalene	1.4	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	91-57-6	2-Methylnaphthalene	1.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	208-96-8	Acenaphthylene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	83-32-9	Acenaphthene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	86-73-7	Fluorene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	87-86-5	Pentachlorophenol	7.9	U	ug/kg	7.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	85-01-8	Phenanthrene	1.1	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	120-12-7	Anthracene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	206-44-0	Fluoranthene	1.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	129-00-0	Pyrene	1.7	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	56-55-3	Benzo(a)anthracene	1.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	218-01-9	Chrysene	1.8	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	205-99-2	Benzo(b)fluoranthene	2.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	50-32-8	Benzo(a)pyrene	1.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KW9 (SIM)	1513978003	S	06/04/2015	15:02:00	191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	100-52-7	Benzaldehyde	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	108-95-2	Phenol	200	UJ	ug/kg	200	05/18/2015	020

45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	111-44-4	Bis(2-chloroethyl)ether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-57-8	2-Chlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-48-7	2-Methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	98-86-2	Acetophenone	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	106-44-5	4-Methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	621-64-7	N-Nitroso-di-n-propylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	67-72-1	Hexachloroethane	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	98-95-3	Nitrobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	78-59-1	Isophorone	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	88-75-5	2-Nitrophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	105-67-9	2,4-Dimethylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	111-91-1	Bis(2-chloroethoxy)methane	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	120-83-2	2,4-Dichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	106-47-8	4-Chloroaniline	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	87-68-3	Hexachlorobutadiene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	105-60-2	Caprolactam	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	59-50-7	4-Chloro-3-methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	77-47-4	Hexachlorocyclopentadiene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	88-06-2	2,4,6-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-95-4	2,4,5-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	92-52-4	1,1'-Biphenyl	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-58-7	2-Chloronaphthalene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	88-74-4	2-Nitroaniline	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	131-11-3	Dimethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	606-20-2	2,6-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	99-09-2	3-Nitroaniline	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	51-28-5	2,4-Dinitrophenol	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	100-02-7	4-Nitrophenol	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	132-64-9	Dibenzofuran	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	121-14-2	2,4-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	84-66-2	Diethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	7005-72-3	4-Chlorophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	100-01-6	4-Nitroaniline	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	534-52-1	4,6-Dinitro-2-methylphenol	390	UJ	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	86-30-6	N-Nitrosodiphenylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	101-55-3	4-Bromophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	118-74-1	Hexachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	1912-24-9	Atrazine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	87-86-5	Pentachlorophenol	390	U*	ug/kg	390	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	85-01-8	Phenanthrene	16	*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020

45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	86-74-8	Carbazole	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	84-74-2	Di-n-butylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	129-00-0	Pyrene	24	*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	85-68-7	Butylbenzylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	91-94-1	3,3'-Dichlorobenzidine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	218-01-9	Chrysene	21	*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	117-81-7	Bis(2-ethylhexyl)phthalate	46	LJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	117-84-0	Di-n-octylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	205-99-2	Benzo(b)fluoranthene	24	*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0	1513978004	S	07/02/2015	13:03:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	91-20-3	Naphthalene	2.3	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	91-57-6	2-Methylnaphthalene	4.4	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	208-96-8	Acenaphthylene	5.1	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	83-32-9	Acenaphthene	1.7	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	86-73-7	Fluorene	2.5	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	87-86-5	Pentachlorophenol	4.4	LJ	ug/kg	7.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	85-01-8	Phenanthrene	15	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	120-12-7	Anthracene	7.5	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	206-44-0	Fluoranthene	16	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	129-00-0	Pyrene	24	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	56-55-3	Benzo(a)anthracene	16	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	218-01-9	Chrysene	22	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	205-99-2	Benzo(b)fluoranthene	23	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	207-08-9	Benzo(k)fluoranthene	6.7	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	50-32-8	Benzo(a)pyrene	14	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	193-39-5	Indeno(1,2,3-cd)pyrene	13	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	53-70-3	Dibenzo(a,h)anthracene	3.6	LJ	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX0 (SIM)	1513978004	S	07/09/2015	16:16:00	191-24-2	Benzo(g,h,i)perylene	12	J	ug/kg	3.9	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	100-52-7	Benzaldehyde	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	108-95-2	Phenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	111-44-4	Bis(2-chloroethyl)ether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-57-8	2-Chlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-48-7	2-Methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	98-86-2	Acetophenone	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	106-44-5	4-Methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	621-64-7	N-Nitroso-di-n-propylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	67-72-1	Hexachloroethane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	98-95-3	Nitrobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	78-59-1	Isophorone	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	88-75-5	2-Nitrophenol	190	UJ	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	105-67-9	2,4-Dimethylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	111-91-1	Bis(2-chloroethoxy)methane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	120-83-2	2,4-Dichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	106-47-8	4-Chloroaniline	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	87-68-3	Hexachlorobutadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	105-60-2	Caprolactam	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	59-50-7	4-Chloro-3-methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	77-47-4	Hexachlorocyclopentadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	88-06-2	2,4,6-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-95-4	2,4,5-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	92-52-4	1,1'-Biphenyl	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-58-7	2-Chloronaphthalene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	88-74-4	2-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	131-11-3	Dimethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	606-20-2	2,6-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	99-09-2	3-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	51-28-5	2,4-Dinitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	100-02-7	4-Nitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	132-64-9	Dibenzofuran	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	121-14-2	2,4-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	84-66-2	Diethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	7005-72-3	4-Chlorophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	100-01-6	4-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	534-52-1	4,6-Dinitro-2-methylphenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	86-30-6	N-Nitrosodiphenylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	101-55-3	4-Bromophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	118-74-1	Hexachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	1912-24-9	Atrazine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	85-01-8	Phenanthrene	25	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	86-74-8	Carbazole	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	84-74-2	Di-n-butylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	206-44-0	Fluoranthene	16	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	129-00-0	Pyrene	31	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	85-68-7	Butylbenzylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	91-94-1	3,3'-Dichlorobenzidine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	56-55-3	Benzo(a)anthracene	19	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	218-01-9	Chrysene	29	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	117-81-7	Bis(2-ethylhexyl)phthalate	18	LJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	117-84-0	Di-n-octylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	205-99-2	Benzo(b)fluoranthene	24	*	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	50-32-8	Benzo(a)pyrene	17	*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1	1513978005	S	07/02/2015	13:36:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	91-20-3	Naphthalene	1.7	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	91-57-6	2-Methylnaphthalene	3.1	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	208-96-8	Acenaphthylene	4.0	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	83-32-9	Acenaphthene	3.7	UJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	86-73-7	Fluorene	0.84	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	87-86-5	Pentachlorophenol	0.85	LJ	ug/kg	7.5	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	85-01-8	Phenanthrene	25	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	120-12-7	Anthracene	6.2	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	206-44-0	Fluoranthene	18	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	129-00-0	Pyrene	33	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	56-55-3	Benzo(a)anthracene	22	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	218-01-9	Chrysene	32	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	205-99-2	Benzo(b)fluoranthene	24	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	207-08-9	Benzo(k)fluoranthene	6.5	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	50-32-8	Benzo(a)pyrene	15	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	14	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	53-70-3	Dibenzo(a,h)anthracene	4.6	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX1 (SIM)	1513978005	S	07/09/2015	16:46:00	191-24-2	Benzo(g,h,i)perylene	11	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4	1514071002	S	05/27/2015	16:39:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	91-20-3	Naphthalene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	91-57-6	2-Methylnaphthalene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/18/2015	020

45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	206-44-0	Fluoranthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	129-00-0	Pyrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	56-55-3	Benzo(a)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	218-01-9	Chrysene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	50-32-8	Benzo(a)pyrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX4 (SIM)	1514071002	S	06/04/2015	19:03:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	108-95-2	Phenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	78-59-1	Isophorone	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/18/2015	020

45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	86-74-8	Carbazole	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5	1513978006	S	05/27/2015	12:46:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	91-20-3	Naphthalene	1.9	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	91-57-6	2-Methylnaphthalene	2.7	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	208-96-8	Acenaphthylene	1.5	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	83-32-9	Acenaphthene	1.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	86-73-7	Fluorene	2.0	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	87-86-5	Pentachlorophenol	1.5	LJ	ug/kg	7.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	85-01-8	Phenanthrene	2.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	120-12-7	Anthracene	1.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	206-44-0	Fluoranthene	0.96	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	129-00-0	Pyrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	56-55-3	Benzo(a)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	218-01-9	Chrysene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	50-32-8	Benzo(a)pyrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U	ug/kg	3.8	05/18/2015	020

45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KX5 (SIM)	1513978006	S	06/04/2015	15:32:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	100-52-7	Benzaldehyde	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	108-95-2	Phenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	111-44-4	Bis(2-chloroethyl)ether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-57-8	2-Chlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-48-7	2-Methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	98-86-2	Acetophenone	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	106-44-5	4-Methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	621-64-7	N-Nitroso-di-n-propylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	67-72-1	Hexachloroethane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	98-95-3	Nitrobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	78-59-1	Isophorone	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	88-75-5	2-Nitrophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	105-67-9	2,4-Dimethylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	111-91-1	Bis(2-chloroethoxy)methane	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	120-83-2	2,4-Dichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	106-47-8	4-Chloroaniline	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	87-68-3	Hexachlorobutadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	105-60-2	Caprolactam	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	59-50-7	4-Chloro-3-methylphenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	77-47-4	Hexachlorocyclopentadiene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	88-06-2	2,4,6-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-95-4	2,4,5-Trichlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	92-52-4	1,1'-Biphenyl	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-58-7	2-Chloronaphthalene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	88-74-4	2-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	131-11-3	Dimethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	606-20-2	2,6-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	99-09-2	3-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	51-28-5	2,4-Dinitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	100-02-7	4-Nitrophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	132-64-9	Dibenzofuran	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	121-14-2	2,4-Dinitrotoluene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	84-66-2	Diethylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	7005-72-3	4-Chlorophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	100-01-6	4-Nitroaniline	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	534-52-1	4,6-Dinitro-2-methylphenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	86-30-6	N-Nitrosodiphenylamine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	101-55-3	4-Bromophenyl-phenylether	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	118-74-1	Hexachlorobenzene	190	UJ	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	1912-24-9	Atrazine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	87-86-5	Pentachlorophenol	370	UJ	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	86-74-8	Carbazole	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	84-74-2	Di-n-butylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	85-68-7	Butylbenzylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	91-94-1	3,3'-Dichlorobenzidine	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	117-84-0	Di-n-octylphthalate	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4	1513978007	S	07/02/2015	14:09:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	UJ	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	91-20-3	Naphthalene	1.7	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	91-57-6	2-Methylnaphthalene	2.2	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	208-96-8	Acenaphthylene	2.6	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	83-32-9	Acenaphthene	3.7	UJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	86-73-7	Fluorene	0.76	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	87-86-5	Pentachlorophenol	7.5	U*	ug/kg	7.5	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	85-01-8	Phenanthrene	4.6	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	120-12-7	Anthracene	3.3	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	206-44-0	Fluoranthene	8.4	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	129-00-0	Pyrene	11	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	56-55-3	Benzo(a)anthracene	8.4	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	218-01-9	Chrysene	10	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	205-99-2	Benzo(b)fluoranthene	13	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	207-08-9	Benzo(k)fluoranthene	3.8	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	50-32-8	Benzo(a)pyrene	7.2	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	7.0	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	53-70-3	Dibenzo(a,h)anthracene	1.8	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY4 (SIM)	1513978007	S	07/09/2015	17:17:00	191-24-2	Benzo(g,h,i)perylene	4.1	J	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	100-52-7	Benzaldehyde	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	108-95-2	Phenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	111-44-4	Bis(2-chloroethyl)ether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-57-8	2-Chlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-48-7	2-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	108-60-1	2,2'-Oxybis(1-chloropropane)	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	98-86-2	Acetophenone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	106-44-5	4-Methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	621-64-7	N-Nitroso-di-n-propylamine	190	U	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	67-72-1	Hexachloroethane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	98-95-3	Nitrobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	78-59-1	Isophorone	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	88-75-5	2-Nitrophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	105-67-9	2,4-Dimethylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	120-83-2	2,4-Dichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-20-3	Naphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	106-47-8	4-Chloroaniline	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	87-68-3	Hexachlorobutadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	105-60-2	Caprolactam	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-57-6	2-Methylnaphthalene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	77-47-4	Hexachlorocyclopentadiene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	92-52-4	1,1'-Biphenyl	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-58-7	2-Chloronaphthalene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	88-74-4	2-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	131-11-3	Dimethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	606-20-2	2,6-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	208-96-8	Acenaphthylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	99-09-2	3-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	83-32-9	Acenaphthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	51-28-5	2,4-Dinitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	100-02-7	4-Nitrophenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	132-64-9	Dibenzofuran	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	121-14-2	2,4-Dinitrotoluene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	84-66-2	Diethylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	86-73-7	Fluorene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	7005-72-3	4-Chlorophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	100-01-6	4-Nitroaniline	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	534-52-1	4,6-Dinitro-2-methylphenol	370	U	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	86-30-6	N-Nitrosodiphenylamine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	101-55-3	4-Bromophenyl-phenylether	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	118-74-1	Hexachlorobenzene	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	1912-24-9	Atrazine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	87-86-5	Pentachlorophenol	370	U*	ug/kg	370	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	85-01-8	Phenanthrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	120-12-7	Anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	86-74-8	Carbazole	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	84-74-2	Di-n-butylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	206-44-0	Fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	129-00-0	Pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	85-68-7	Butylbenzylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	56-55-3	Benzo(a)anthracene	190	U*	ug/kg	190	05/18/2015	020

45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	218-01-9	Chrysene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	117-81-7	Bis(2-ethylhexyl)phthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	117-84-0	Di-n-octylphthalate	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	205-99-2	Benzo(b)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	207-08-9	Benzo(k)fluoranthene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	50-32-8	Benzo(a)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	193-39-5	Indeno(1,2,3-cd)pyrene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	53-70-3	Dibenzo(a,h)anthracene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	191-24-2	Benzo(g,h,i)perylene	190	U*	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5	1513978008	S	05/27/2015	13:20:00	58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg	190	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	91-20-3	Naphthalene	0.81	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	91-57-6	2-Methylnaphthalene	1.2	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	208-96-8	Acenaphthylene	1.0	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	83-32-9	Acenaphthene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	86-73-7	Fluorene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	87-86-5	Pentachlorophenol	7.5	U	ug/kg	7.5	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	85-01-8	Phenanthrene	5.4		ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	120-12-7	Anthracene	1.2	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	206-44-0	Fluoranthene	3.4	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	129-00-0	Pyrene	7.4		ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	56-55-3	Benzo(a)anthracene	3.9		ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	218-01-9	Chrysene	5.8		ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	205-99-2	Benzo(b)fluoranthene	4.0		ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	207-08-9	Benzo(k)fluoranthene	1.2	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	50-32-8	Benzo(a)pyrene	2.5	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	193-39-5	Indeno(1,2,3-cd)pyrene	2.4	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	53-70-3	Dibenzo(a,h)anthracene	3.7	U	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY5 (SIM)	1513978008	S	06/04/2015	16:03:00	191-24-2	Benzo(g,h,i)perylene	1.7	LJ	ug/kg	3.7	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015	020

45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	87-86-5	Pentachlorophenol	400	U*	ug/kg	400	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	117-81-7	Bis(2-ethylhexyl)phthalate	78	LJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6	1513978009	S	07/02/2015	14:42:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	91-20-3	Naphthalene	0.83	LJ	ug/kg	4.0	05/18/2015	020

45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	91-57-6	2-Methylnaphthalene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	208-96-8	Acenaphthylene	1.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	83-32-9	Acenaphthene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	86-73-7	Fluorene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	87-86-5	Pentachlorophenol	1.4	LJ	ug/kg	8.1	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	85-01-8	Phenanthrene	2.7	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	120-12-7	Anthracene	2.3	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	206-44-0	Fluoranthene	7.7	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	129-00-0	Pyrene	8.6	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	56-55-3	Benzo(a)anthracene	7.2	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	218-01-9	Chrysene	11	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	205-99-2	Benzo(b)fluoranthene	12	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	207-08-9	Benzo(k)fluoranthene	2.6	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	50-32-8	Benzo(a)pyrene	12	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	9.7	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	53-70-3	Dibenzo(a,h)anthracene	3.7	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY6 (SIM)	1513978009	S	07/09/2015	17:47:00	191-24-2	Benzo(g,h,i)perylene	19	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	100-52-7	Benzaldehyde	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	108-95-2	Phenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	111-44-4	Bis(2-chloroethyl)ether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-57-8	2-Chlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-48-7	2-Methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	98-86-2	Acetophenone	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	106-44-5	4-Methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	621-64-7	N-Nitroso-di-n-propylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	67-72-1	Hexachloroethane	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	98-95-3	Nitrobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	78-59-1	Isophorone	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	88-75-5	2-Nitrophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	105-67-9	2,4-Dimethylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	111-91-1	Bis(2-chloroethoxy)methane	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	120-83-2	2,4-Dichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	106-47-8	4-Chloroaniline	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	87-68-3	Hexachlorobutadiene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	105-60-2	Caprolactam	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	59-50-7	4-Chloro-3-methylphenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	77-47-4	Hexachlorocyclopentadiene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	88-06-2	2,4,6-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-95-4	2,4,5-Trichlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	92-52-4	1,1'-Biphenyl	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-58-7	2-Chloronaphthalene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	88-74-4	2-Nitroaniline	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	131-11-3	Dimethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	606-20-2	2,6-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015	020

45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	99-09-2	3-Nitroaniline	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	51-28-5	2,4-Dinitrophenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	100-02-7	4-Nitrophenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	132-64-9	Dibenzofuran	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	121-14-2	2,4-Dinitrotoluene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	84-66-2	Diethylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	7005-72-3	4-Chlorophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	100-01-6	4-Nitroaniline	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	534-52-1	4,6-Dinitro-2-methylphenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	86-30-6	N-Nitrosodiphenylamine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	101-55-3	4-Bromophenyl-phenylether	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	118-74-1	Hexachlorobenzene	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	1912-24-9	Atrazine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	87-86-5	Pentachlorophenol	380	UJ	ug/kg	380	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	86-74-8	Carbazole	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	84-74-2	Di-n-butylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	85-68-7	Butylbenzylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	91-94-1	3,3'-Dichlorobenzidine	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	117-84-0	Di-n-octylphthalate	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7	1513978010	S	07/02/2015	15:15:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	UJ	ug/kg	200	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	91-20-3	Naphthalene	2.1	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	91-57-6	2-Methylnaphthalene	3.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	208-96-8	Acenaphthylene	2.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	83-32-9	Acenaphthene	1.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	86-73-7	Fluorene	1.5	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	87-86-5	Pentachlorophenol	7.7	U*	ug/kg	7.7	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	85-01-8	Phenanthrene	4.3	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	120-12-7	Anthracene	3.1	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	206-44-0	Fluoranthene	8.0	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	129-00-0	Pyrene	9.6	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	56-55-3	Benzo(a)anthracene	6.0	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	218-01-9	Chrysene	8.0	J	ug/kg	3.8	05/18/2015	020

45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	205-99-2	Benzo(b)fluoranthene	10	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	207-08-9	Benzo(k)fluoranthene	2.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	50-32-8	Benzo(a)pyrene	5.6	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.9	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	53-70-3	Dibenzo(a,h)anthracene	1.6	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9KY7 (SIM)	1513978010	S	07/09/2015	18:17:00	191-24-2	Benzo(g,h,i)perylene	6.5	J	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	020

45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	87-86-5	Pentachlorophenol	400	U*	ug/kg	400	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	206-44-0	Fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	129-00-0	Pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	56-55-3	Benzo(a)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	218-01-9	Chrysene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	205-99-2	Benzo(b)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	207-08-9	Benzo(k)fluoranthene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	50-32-8	Benzo(a)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	191-24-2	Benzo(g,h,i)perylene	210	U*	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28	1513978011	S	07/02/2015	15:47:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	91-20-3	Naphthalene	1.3	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	91-57-6	2-Methylnaphthalene	1.7	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	208-96-8	Acenaphthylene	1.8	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	83-32-9	Acenaphthene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	86-73-7	Fluorene	4.0	UJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	87-86-5	Pentachlorophenol	1.2	LJ	ug/kg	8.2	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	85-01-8	Phenanthrene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	120-12-7	Anthracene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	206-44-0	Fluoranthene	8.2	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	129-00-0	Pyrene	7.9	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	56-55-3	Benzo(a)anthracene	6.3	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	218-01-9	Chrysene	9.1	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	205-99-2	Benzo(b)fluoranthene	11	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	207-08-9	Benzo(k)fluoranthene	2.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	50-32-8	Benzo(a)pyrene	5.9	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.5	J	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	53-70-3	Dibenzo(a,h)anthracene	1.5	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L28 (SIM)	1513978011	S	07/09/2015	18:47:00	191-24-2	Benzo(g,h,i)perylene	3.9	LJ	ug/kg	4.0	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	100-52-7	Benzaldehyde	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	108-95-2	Phenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	111-44-4	Bis(2-chloroethyl)ether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-57-8	2-Chlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-48-7	2-Methylphenol	200	U	ug/kg	200	05/18/2015	020

45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	108-60-1	2,2'-Oxybis(1-chloropropane)	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	98-86-2	Acetophenone	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	106-44-5	4-Methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	621-64-7	N-Nitroso-di-n-propylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	67-72-1	Hexachloroethane	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	98-95-3	Nitrobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	78-59-1	Isophorone	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	88-75-5	2-Nitrophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	105-67-9	2,4-Dimethylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	120-83-2	2,4-Dichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-20-3	Naphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	106-47-8	4-Chloroaniline	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	87-68-3	Hexachlorobutadiene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	105-60-2	Caprolactam	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-57-6	2-Methylnaphthalene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	77-47-4	Hexachlorocyclopentadiene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	92-52-4	1,1'-Biphenyl	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-58-7	2-Chloronaphthalene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	88-74-4	2-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	131-11-3	Dimethylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	606-20-2	2,6-Dinitrotoluene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	208-96-8	Acenaphthylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	99-09-2	3-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	83-32-9	Acenaphthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	51-28-5	2,4-Dinitrophenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	100-02-7	4-Nitrophenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	132-64-9	Dibenzofuran	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	121-14-2	2,4-Dinitrotoluene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	84-66-2	Diethylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	86-73-7	Fluorene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	7005-72-3	4-Chlorophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	100-01-6	4-Nitroaniline	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	534-52-1	4,6-Dinitro-2-methylphenol	380	U	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	86-30-6	N-Nitrosodiphenylamine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	101-55-3	4-Bromophenyl-phenylether	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	118-74-1	Hexachlorobenzene	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	1912-24-9	Atrazine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	87-86-5	Pentachlorophenol	380	U*	ug/kg	380	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	85-01-8	Phenanthrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	120-12-7	Anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	86-74-8	Carbazole	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	84-74-2	Di-n-butylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	206-44-0	Fluoranthene	200	U*	ug/kg	200	05/18/2015	020

45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	129-00-0	Pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	85-68-7	Butylbenzylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	56-55-3	Benzo(a)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	218-01-9	Chrysene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	117-81-7	Bis(2-ethylhexyl)phthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	117-84-0	Di-n-octylphthalate	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	205-99-2	Benzo(b)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	207-08-9	Benzo(k)fluoranthene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	50-32-8	Benzo(a)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	193-39-5	Indeno(1,2,3-cd)pyrene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	53-70-3	Dibenzo(a,h)anthracene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	191-24-2	Benzo(g,h,i)perylene	200	U*	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29	1513978012	S	05/27/2015	13:53:00	58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg	200	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	91-20-3	Naphthalene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	91-57-6	2-Methylnaphthalene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	208-96-8	Acenaphthylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	83-32-9	Acenaphthene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	86-73-7	Fluorene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	87-86-5	Pentachlorophenol	7.7	U	ug/kg	7.7	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	85-01-8	Phenanthrene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	120-12-7	Anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	206-44-0	Fluoranthene	2.9	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	129-00-0	Pyrene	4.2		ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	56-55-3	Benzo(a)anthracene	2.2	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	218-01-9	Chrysene	2.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	205-99-2	Benzo(b)fluoranthene	2.4	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	207-08-9	Benzo(k)fluoranthene	0.78	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	50-32-8	Benzo(a)pyrene	1.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	193-39-5	Indeno(1,2,3-cd)pyrene	1.3	LJ	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L29 (SIM)	1513978012	S	06/04/2015	16:33:00	191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg	3.8	05/18/2015	020
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	100-52-7	Benzaldehyde	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	108-95-2	Phenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	111-44-4	Bis(2-chloroethyl)ether	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-57-8	2-Chlorophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-48-7	2-Methylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	98-86-2	Acetophenone	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	106-44-5	4-Methylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	621-64-7	N-Nitroso-di-n-propylamine	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	67-72-1	Hexachloroethane	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	98-95-3	Nitrobenzene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	78-59-1	Isophorone	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	88-75-5	2-Nitrophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	105-67-9	2,4-Dimethylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	111-91-1	Bis(2-chloroethoxy)methane	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	120-83-2	2,4-Dichlorophenol	210	UJ	ug/kg	210	05/18/2015	006

45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-20-3	Naphthalene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	106-47-8	4-Chloroaniline	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	87-68-3	Hexachlorobutadiene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	105-60-2	Caprolactam	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	59-50-7	4-Chloro-3-methylphenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-57-6	2-Methylnaphthalene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	77-47-4	Hexachlorocyclopentadiene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	88-06-2	2,4,6-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-95-4	2,4,5-Trichlorophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	92-52-4	1,1'-Biphenyl	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-58-7	2-Chloronaphthalene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	88-74-4	2-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	131-11-3	Dimethylphthalate	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	606-20-2	2,6-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	208-96-8	Acenaphthylene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	99-09-2	3-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	83-32-9	Acenaphthene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	51-28-5	2,4-Dinitrophenol	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	100-02-7	4-Nitrophenol	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	132-64-9	Dibenzofuran	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	121-14-2	2,4-Dinitrotoluene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	84-66-2	Diethylphthalate	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	86-73-7	Fluorene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	7005-72-3	4-Chlorophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	100-01-6	4-Nitroaniline	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	534-52-1	4,6-Dinitro-2-methylphenol	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	86-30-6	N-Nitrosodiphenylamine	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	101-55-3	4-Bromophenyl-phenylether	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	118-74-1	Hexachlorobenzene	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	1912-24-9	Atrazine	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	87-86-5	Pentachlorophenol	400	UJ	ug/kg	400	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	85-01-8	Phenanthrene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	120-12-7	Anthracene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	86-74-8	Carbazole	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	84-74-2	Di-n-butylphthalate	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	206-44-0	Fluoranthene	57	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	129-00-0	Pyrene	65	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	85-68-7	Butylbenzylphthalate	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	91-94-1	3,3'-Dichlorobenzidine	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	56-55-3	Benzo(a)anthracene	44	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	218-01-9	Chrysene	77	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	117-84-0	Di-n-octylphthalate	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	205-99-2	Benzo(b)fluoranthene	86	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	207-08-9	Benzo(k)fluoranthene	25	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	50-32-8	Benzo(a)pyrene	42	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	193-39-5	Indeno(1,2,3-cd)pyrene	27	*	ug/kg	210	05/18/2015	006

45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	53-70-3	Dibenzo(a,h)anthracene	210	U*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	191-24-2	Benzo(g,h,i)perylene	23	*	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30	1513978013	S	07/06/2015	10:13:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	UJ	ug/kg	210	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	91-20-3	Naphthalene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	91-57-6	2-Methylnaphthalene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	208-96-8	Acenaphthylene	18	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	83-32-9	Acenaphthene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	86-73-7	Fluorene	16	UJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	87-86-5	Pentachlorophenol	32	U*	ug/kg	32	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	85-01-8	Phenanthrene	12	LJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	120-12-7	Anthracene	20	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	206-44-0	Fluoranthene	64	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	129-00-0	Pyrene	63	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	56-55-3	Benzo(a)anthracene	51	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	218-01-9	Chrysene	84	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	205-99-2	Benzo(b)fluoranthene	80	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	207-08-9	Benzo(k)fluoranthene	24	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	50-32-8	Benzo(a)pyrene	43	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	193-39-5	Indeno(1,2,3-cd)pyrene	51	J	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	53-70-3	Dibenzo(a,h)anthracene	11	LJ	ug/kg	16	05/18/2015	006
45316	F9KW7	F9L30 (SIM)	1513978013	S	07/09/2015	19:17:00	191-24-2	Benzo(g,h,i)perylene	31	J	ug/kg	16	05/18/2015	006

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**BNA**
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
	2,4-Dinitrophenol SSTD020L2
	Hexachlorocyclopentadiene SSTD020K1, SSTD020L2
	4,6-Dinitro-2-methylphenol SSTD020L2
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
Continuing Calibration Verification	**BNA**
BC21	The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and nondetected compounds are not qualified.
	F9L30
	4,6-Dinitro-2-methylphenol-d2 SSTD020L2
	F9L30

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**BNA_SIM**
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
	Pentachlorophenol SSTD0.4F1
	F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
Continuing Calibration Verification	**BNA_SIM**
BC14	The following semivolatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
	Pentachlorophenol SSTD0.4F1, SSTD0.4T1
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K71, F9K77, F9KW7, F9KW8, F9KX0, F9KX1, F9KY6, F9L30
	Benzo(k)fluoranthene F9K71, F9L30
	Anthracene F9K71
	Fluoranthene F9K71, F9K77, F9KX1, F9L30
	Benzo(g,h,i)perylene F9K71, F9L30
	Pyrene F9K71, F9K77, F9KX0, F9KX1, F9L30
	Indeno(1,2,3-cd)pyrene F9K71, F9L30
	Acenaphthylene F9K71
	Benzo(a)anthracene F9K71, F9K77, F9KX1, F9L30
	Chrysene F9K71, F9K77, F9KX0, F9KX1, F9L30
	Phenanthrene F9K71, F9KX0, F9KX1
	Benzo(b)fluoranthene F9K71, F9K77, F9KX0, F9KX1, F9L30
	Benzo(a)pyrene F9K71, F9K77, F9KX1, F9L30
	Bis(2-ethylhexyl)phthalate F9KW7, F9KW8, F9KX0, F9KX1, F9KY6
	Dibenzo(a,h)anthracene F9K71

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K71, F9K72, F9K73, F9K77, F9K78, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30
	Benzo(k)fluoranthene F9K72, F9K78, F9KW7, F9KY5, F9KY6, F9KY7, F9L28, F9L29
	Anthracene F9K71, F9K77, F9K78, F9KW7, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28
	Fluoranthene F9K72, F9KW8, F9KW9, F9KX5, F9KY5, F9L29
	Benzo(g,h,i)perylene F9K72, F9K78, F9KW7, F9KY5, F9L28
	Fluorene F9KW7, F9KW8, F9KX0, F9KX1, F9KX5, F9KY4, F9KY7
	Naphthalene F9K73, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28
	Pyrene F9K72, F9KW8, F9KW9
	Indeno(1,2,3-cd)pyrene F9K72, F9KW9, F9KY5, F9L29
	Acenaphthylene F9K71, F9K77, F9K78, F9KW7, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28
	Benzo(a)anthracene F9K72, F9KW8, F9KW9, F9L29
	Chrysene F9K72, F9KW8, F9KW9, F9L29
	Phenanthrene F9K71, F9K77, F9KW8, F9KW9, F9KX5, F9KY6, F9L28, F9L30
	Acenaphthene F9KW7, F9KX0, F9KX5, F9KY7
	Benzo(b)fluoranthene F9K72, F9KW8, F9KW9, F9L29
	Benzo(a)pyrene F9K72, F9KW9, F9KY5, F9L29
	2-Methylnaphthalene F9K73, F9KW8, F9KW9, F9KX1, F9KX5, F9KY4, F9KY5, F9KY7, F9L28
	Pentachlorophenol F9KW7, F9KX0, F9KX1, F9KX5, F9KY6, F9L28
	Dibenzo(a,h)anthracene F9K71, F9K77, F9K78, F9KW7, F9KX0, F9KY4, F9KY6, F9KY7, F9L28, F9L30

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA
BHT4	The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA_SIM
BHT4	The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30, SBLK23
	Hexadecenoic acid, Z-11- F9KX0, F9KX1
	13-Docosenamide, (Z)- F9K72, F9K73, F9K77, F9K78, F9KX4, F9KX5
	Hexadecanamide F9K71, F9K72, F9K73, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9L29, SBLK23
	9-Tetradecenal, (Z)- F9L30
	Octacosanol F9KX0, F9L28
	Pentadecanoic acid, 14-methyl-, methyl ester F9K77, F9KY7
	A'-Neogammacer-22(29)-ene F9L29
	Dodecanamide F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9L28
	Stigmasterol F9KW7, F9L28
	Tetradecanamide F9K71, F9K73, F9KX0, F9KX4, F9KY7, F9L30
	1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl F9KY4
	Tricosyl trifluoroacetate F9L28
	Stigmast-4-en-3-one F9KW7, F9KX0
	Perylene F9K71
	9-Octadecenoic acid (Z)-, methyl ester F9L28
	Methyl 10-trans,12-cis-octadecadienoate F9L28
	7-Nonenamide F9L28
	trans-13-Octadecenoic acid F9KX0
	1-Heneicosanol F9KW7
	Undecanamide, 11-bromo- F9KX0
	.gamma.-Sitosterol F9KX0
	Furan, 2,5-dimethyl- F9K73, SBLK23
	.beta.-Sitosterol F9KW7, F9KY6
	8-Octadecenoic acid, methyl ester, (E)- F9K77
	Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, [1R-(1. F9KX1

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	9-Octadecenamide, (Z)- F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30, SBLK23
	3-Buten-2-one, 3-methyl- F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY6, F9KY7, F9L28, F9L30
	10-Octadecenoic acid, methyl ester F9KY6
	1,21-Docosadiene F9KW7
	Ethanone, 1-(2-hydroxy-4-methoxyphenyl)- F9KY6
	n-Hexadecanoic acid F9K71, F9K77, F9KW7, F9KW8, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, F9L30
	n-Tetracosanol-1 F9KX0
	Testosterone F9KY6, F9L28
	cis-Vaccenic acid F9L28
	2-Propanone, 1-chloro- F9K71, F9K73, F9K77, F9KW9, F9KX5, F9KY4, F9L29, F9L30, SBLK23
	Octadecanamide F9K73, SBLK23
	Methyl 13-methyltetradecanoate F9KY6
	Supraene F9KW7
	Phytol F9KW7
	Dehydroabietic acid F9K72
	1-Hexacosene F9KX0
	15-Octadecenoic acid, methyl ester F9L28
	16-Hentriacontanone F9KX5
	9-Hexacosene F9KW7, F9KX0
	13-Tetradecen-1-ol acetate F9L28
	cis-9,10-Epoxyoctadecanamide F9KX1
	Squalene F9KX0, F9KY6, F9KY7, F9L28
	Hexadecanoic acid, methyl ester F9KY6, F9L28, F9L30
TIC	**BNA**
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L29, F9L30, SBLK23
	Unknown 3-Pentenoic acid, methyl ester F9K72, F9K73, F9KW7, F9KW9, F9KY4

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Lab DATAC(ALS Environmental) **SDG** F9KW7 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216963 **SOW** SOM01.2

Data Review Reports

TIC

TIC	BNA
	Unknown 2-Propanone, 1-hydroxy- F9KW7, F9KX0
	Unknown 2,2,5,5,8-Pentamethyl-3,6-dioxa-8-nonen-1-ol F9L28
	Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl- SBLK23
	Unknown Butanoic acid, 2-propenyl ester F9K77
	Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)-acetami F9K71
	Unknown Hydroxylamine, O-(3-methylbutyl)- F9KY6
	Unknown 1,2-Benzenedicarboxylic acid F9KX0
	Unknown Thioindigo F9L28
	Unknown 2H-Pyran, tetrahydro-2-methyl- F9K77, F9KX1, F9KY6
	Unknown 2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethoxy F9KY4
	Unknown (2-Acetyl-5-methyl-cyclopentyl)-acetic acid F9L30
	Unknown 5.beta.-Coprostan-16,22-epoxy-3.alpha.,25,26-tri F9L29
	Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dim F9KR0, F9KW8, F9L29
	Unknown 1,2-Ethanediol F9K77, F9KR0, F9KW8, F9KW9, F9KX4, F9KY5, F9L30
	Unknown Benzene, 1-chloro-4-methoxy-2-methyl- F9KX5
	Unknown 4-Phenylpiperidine F9KY4
	Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl) F9K71
	Unknown Furan, 2,5-dimethyl- F9K72
	Unknown 2-Butanol, 3-methyl- F9K77
	Unknown 3-Pentenoic acid, 4-methyl- F9KW7
	Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.beta.)- F9K71, F9KW9
	Unknown 7-Nonenamide F9KY6, F9KY7
	Unknown Pentane, 3-bromo- F9L30
	Unknown Thiophene, 2-methyl- F9KY7
	Unknown 2-Pentenoic acid, 2,3-dimethyl- F9KY6
	Unknown 4-Chloro-2-butanone F9K72, F9K73, F9K77, F9KR0, F9KW8, F9KW9, F9KX0, F9KX1, F9KX4, F9KY4, F9KY5, F9KY6, F9KY7, F9L30, SBLK23
	Unknown 3-[4-Methoxyphenyl]quinolin-4-ol F9L28

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Data Review Reports

TIC

TIC	BNA
	Unknown .delta.-Selinene F9K72
	Unknown Phthalic acid, isobutyl undecyl ester F9K77
	Unknown Acetic acid, 2-[5-(4-nitrophenyl)-1-imidazolyl]- F9KY6
	Unknown [2.2]Paracyclophane F9KY7
	Unknown Dodecanamide F9K71, F9KY6, F9KY7, F9L28
	Unknown Propane, 2,2-dimethoxy- F9K73, F9K78
	Unknown Silane, tetraethyl- F9KX0, F9KY6, F9L28
	Unknown Amyl nitrite F9KW7
	Unknown Stearic acid hydrazide F9KY7
	Unknown (-)-Isolongifolol, methyl ether F9L29
	Unknown 1,2,3,4-Tetrahydropentalene, 1,1-dimethyl-3-cyan SBLK23
	Unknown Bromoacetic acid, 4-methylpentyl ester F9L28
	Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenzo[c]thie F9K72, F9KW8, F9KW9, F9KX5
	Unknown dl-Glyceraldehyde dimer F9KX1
	Unknown Hexadecanamide F9KX1
	Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro-5H-naph F9K72, F9K73, F9K78, F9KX5, F9KY5
	Unknown 2,4,4-Trimethyl-3-(3-methylbuta-1,3-dienyl)cyclo F9L29
	Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hexahydro-2 F9KX5
	Unknown 3-Dodecen-1-ol F9KX0
	Unknown 5-Tetradecene, (E)- F9KX0
	Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien-1-one F9K73
	Unknown Ethanol, 2-(2-ethoxyethoxy)- F9K71, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L30
	Unknown Acetaldehyde, O-ethyloxime- F9K73
	Unknown 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl F9KX0
	Unknown 4-Acetylbenzoic acid F9KY7
	Unknown Tridecane, 1-iodo- F9KY7
	Unknown Thiazole F9KY7

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Data Review Reports

TIC

TIC	BNA
	Unknown 2-Piperidinone F9L30
	Unknown Tetradecanamide F9K77, F9KX0
	Unknown 1,3-Dioxolane, 2,2-dimethyl- F9K71, F9K77, F9K78, F9KX0, F9KX1, F9KY4, F9L28
	Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-methoxy- F9K71, F9KX0, F9KY4, F9KY6, F9KY7
	Unknown 9-Octadecenamide, (Z)- F9K72, F9K73, F9K78, F9KR0, F9KX1, F9KX4, F9KY4, F9KY5, F9KY7, F9L28, F9L29, SBLK23
	Unknown 2,6-Bis(4-nitro-phenylthio)pyridine F9K72
	Unknown Ethanethiol F9K71
	Unknown 1H-Pyrrole-2,5-dione F9K71, F9K72, F9K77, F9KR0, F9KW7, F9KW9, F9KX1, F9KX5, F9KY5, F9KY6, F9KY7, F9L29, F9L30
	Unknown Methacrylamide F9L30
	Unknown 2-Pentanone, 4-hydroxy-4-methyl- F9K71, F9K72, F9K73, F9K77, F9K78, F9KR0, F9KW7, F9KW8, F9KX0, F9KX1, F9KX4, F9KX5, F9KY4, F9KY5, F9KY6, F9KY7, F9L28, F9L30, SBLK23
	Unknown Guanidine F9KW9, F9L29
	Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetraene-17a-o F9KY6
	Unknown Lanceol, cis F9KY6
	Unknown 3-Hexene-2,5-dione F9K78, F9KW8, F9KX4
	Unknown trans-Crotonamide F9K71
	Unknown 3-Bromo-4-hydroxy-5-methoxyphenylacetonitrile F9L29
	Unknown Nonanamide F9KY7, F9L30
	Unknown Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-, acetate F9KW7, F9KX1, F9KY7
	Unknown Pentanoic acid, 2,2,4-trimethyl-3-carboxyisoprop F9KW8, F9KW9, F9KX5, F9KY5, SBLK23
	Unknown Tridecanedial F9KX1
	Unknown 1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4,5,6,7b- F9L29
	Unknown Carbonic acid, isobutyl undec-10-enyl ester F9KW7
	Unknown Ethyl tetradecyl ether F9KX0
	Unknown Phthalic acid, monoethyl ester F9KW7, F9KY4
	Unknown 9-Octadecenoic acid (Z)-, methyl ester F9KY7
	Unknown Glutaric acid, ethyl 1-phenylpropyl ester F9L28
	Unknown Acetamide, N-ethyl- F9K72, F9KY4, F9KY6

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Data Review Reports

TIC

TIC	BNA
	Unknown 16-Hentriacontanone F9KW8
	Unknown Hexadeca-2,6,10,14-tetraen-1-ol, 3,7,11,16-tetra F9KX1
	Unknown 1-Decene, 5-methyl- F9KY7
	Unknown Cyclohexanecarboxamide F9K78, F9KR0, F9KW8, F9KX4, F9KX5, F9KY5, F9L29
	Unknown Isopentyloxyethyl acetate F9K77
	Unknown 3-[1-Bromo-2-(phenylthio)cycloprop-1-yl]cyclopen F9KW7
	Unknown Hexadecanoic acid, 4-nitrophenyl ester F9K73
	Unknown 1-Butene, 3,3-dimethyl- F9KW7
	Unknown 1,3,4-Oxadiazole, 2-(acetyloxy)-2,5-dihydro-2,5, F9K71
	Unknown Bicyclo[3.1.1]heptane, 2,6,6-trimethyl- F9L28
	Unknown Pyrazinamide F9L30
	Unknown 5-(2-Chlorophenyl)-3-[5-(trifluoromethyl)pyridin F9K73
	Unknown Palmitic acid vinyl ester F9KY4, F9KY7
	Unknown Phthalic anhydride F9K71, F9KW7, F9KY4, F9KY7
	Unknown Phytol F9L28
	Unknown Ethanone, 1-oxiranyl- F9KY7, F9L28
	Unknown 2-Pentanone, 3-methyl- F9KW7, F9KY4, F9KY6
	Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate F9K73, F9KW8, F9KW9, F9KX5
	Unknown 1,2-Ethanediol, monoacetate F9KW7, F9KY4
	Unknown 3-Pyrrolidinol F9KX5, F9KY7, F9L29
	Unknown 2-Propanone, 1-chloro- F9KW7, F9KW8, F9KX0, F9KX1, F9KY6, F9KY7, F9L28

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.:	F9KW7
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	21	✓	
3. **SDG Cover Sheet/Traffic Report**	22	29	✓	
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)			✓	
Method Blank Summary (Form IV VOA)			✓	
GC/MS Instrument Performance Check (Form V VOA)			✓	
Internal Standard Area and RT Summary (Form VIII VOA)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data			✓	
BFB			✓	
Blank Data			✓	

Ae 10/9/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9KW7
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			✓	

02/09/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9KW7
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)	30	31	✓	
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)	32	32	✓	
GC/MS Instrument Performance Check (Form V SV)	33	35	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	36	39	✓	
b. Sample Data	40	345		
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)	346	397		
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	398	406	✓	
Blank Data	407	425	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	426	431	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9KW7
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.]	432	618	✓	
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)			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9KW7
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)			✓	

10/09/2015

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9KW7
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	619	632	✓	
Internal sample and sample extract transfer chain-of-custody records	633	644	✓	
Screening records	n/a		✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	645	647	✓	
10. EPA Shipping/Receiving Documents				
Airbills (no. of shipments 7)	648	654	✓	
Chain of Custody Records (Copies)	655	661	✓	
Sample Tags	662	662	✓	
Sample Log-in Sheet (Lab & DC-1)	663	669	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

06/09/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9KW7
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	670	670	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	671	681	✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab) Desiree Hill (Signature) Desiree Hill/DCO (Printed Name/Title) 6/9/15 (Date)

Verified by: (CLP Lab) Julie Wacker for (Signature) Roxanne Olson/Manager (Printed Name/Title) 6/9/15 (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: F9KW7

WO No(s): 1513978, 1514052, 1514071

Cooler # and Temperatures of each (upon receipt)

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

06/09/2015
DH

Communications:

Any sample receiving issues with this SDG are fully documented through the email communications which are included as a portion of this SDG Narrative and immediately follow this page. Copies of each email communication are also located in the communication section of this datapackage. In addition, any analytical issues pertinent to a given fraction are fully documented by the analyst in the associated narrative for the applicable fraction.

Comments:

None

Signature: Desiree Hall
Document Control Officer

Date: 06/09/2015

Jessica Helland

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Wednesday, May 20, 2015 2:19 PM
To: Jessica Helland; Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple | FINAL

Jessica,

-Non-sampler issues-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.
Resolution 1: Per Region 6, the samples were for SV/SVSIM analysis and laboratory QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)
Resolution 2: Per Region 6, F9KX4 is correct in cooler 1. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.
Resolution 3: Per Region 6, F9KX4 from cooler 6 needs to be changed to F9KR0. The laboratory should note that sample F9KX4 from cooler #6 was mislabeled and data should be reported under F9KR0. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 04:14 PM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 05/20/2015 03:42 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issues 2 & 3

Hello Margaret – please provide information below to the lab.

Lab Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

R6 response # 2 - F9KX4 - is correct in cooler 1.

Lab Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

R6 response # 3 - The F9KX4 from cooler 6 needs to be changed to F9KR0. Lab should note that sample # F9KX4 from cooler #6 was mislabeled and data should be reported under
F9KR0.

Please ask the lab to note the issues and resolutions in the SDG narrative and proceed with analysis.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Perez, Myra
Sent: Wednesday, May 20, 2015 2:02 PM
To: 'Margaret T Jarosz'
Cc: Gorostiza, Sylvia; Flores, Raymond
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issue 1

Hello Margaret –

Lab Issue1-Insufficient volume- Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

R6 response – The samples were for SV/SVSIM analysis. Lab QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs.

We are waiting for a response from the sampler for issues 2 & 3.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]
Sent: Wednesday, May 20, 2015 12:12 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple

Good afternoon,
DATAC is reporting the following issues with Case 45316. Please advise.

-Insufficient volume-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

-Samples/analyses listed on COC but not received at laboratory-
Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 01:06 PM -----

From: Jessica Helland <Jessica.Helland@alsglobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 05/20/2015 11:46 AM
Subject: FW: Case 45316 issues

Please see below issues.

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Thomas Carlson
Sent: Tuesday, May 19, 2015 10:54 AM
To: Roxanne Olson
Cc: Meredith D. Edwards; Jessica Helland
Subject: Case 45316 issues

Please advise region 6 of the following issues;

1. None of the TR's designate QC for any samples, nor was any additional volume provided for QC for any samples.
2. We received 2 sample labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
   a. The samples on the right were from the TR designated "Cooler 1" (see attached scan of TR) and match up appropriately.
   b. The samples on the left, marked with a black X on the lid were received from the TR designated "Cooler 6". (See attached scan of TR)
3. We did not receive sample F9KR0 from the TR designated "Cooler 6". This leads us to believe that sample F9KR0 was mislabeled as F9KX4.

****
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Jessica Helland

From: Jessica Helland
Sent: Tuesday, May 19, 2015 9:00 AM
To: Julie Warath; Thomas Carlson
Subject: FW: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Have we received these yet?

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Roxanne Olson
Sent: Tuesday, May 19, 2015 8:21 AM
To: Jessica Helland
Subject: Fwd: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Fyi

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: Margaret T Jarosz <mjarosz@csc.com>
Date: 05/19/2015 8:19 AM (GMT-07:00)
To: Roxanne Olson <Roxanne.Olson@ALSGlobal.com>
Cc: Humphrey.marvelyn@Epa.gov, Gorostiza.Sylvia@epa.gov, "Perez, Myra" <perez.myra@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Roxy,

Issue 1: Region 6 informed CSC that the incorrect Case number was used for the samples for organic analysis.

Resolution 1: Per Region 6, the laboratory will log these samples in under Case number 45316, note the issue in the SDG Narrative, and proceed with the analysis of the samples.

Issue 2: Region 6 informed CSC that the correct analysis is SVOA/SVOASIM.
Resolution 2: Per Region 6, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/19/2015 10:14 AM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Flores, Raymond" <flores.raymond@epa.gov>, Caroline Kramer/USA/CSC@CSC, "Hayes, Mark" <hayes.mark@epa.gov>, "Coltrain, Katrina" <coltrain.katrina@epa.gov>, "Cobb, Derrick" <Derrick.Cobb@WestonSolutions.com>, "Corey.Bercher@WestonSolutions.com" <Corey.Bercher@WestonSolutions.com>
Date: 05/19/2015 09:27 AM
Subject: FW: [x]

Hello Margaret – Upon receipt of the COC, we noticed that the incorrect case number was used for the samples for organic analysis. Please notify DATAC that they should log these samples under case number 45316 and note the issue in the SDG narrative. Also the analysis is for SVOA/SVOASIM.

If you or the lab need additional information, please contact me at your earliest convenience.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Bercher, Corey [mailto:Corey.Bercher@WestonSolutions.com]
Sent: Tuesday, May 19, 2015 8:03 AM
To: Perez, Myra
Subject: FW: [x]

From: Bercher, Corey
Sent: Monday, May 18, 2015 11:57 PM
To: 'mjarosz@csc.com'
Cc: Cobb, Derrick
Subject: [x]

Hello,

Attached is the XML file and pdf of COCs for samples en route to ALS Salt Lake City that were collected at [x]on 18 May 2015.

Thanks,

Corey

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Jessica Helland

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Thursday, May 21, 2015 7:19 AM
To: Jessica Helland; Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple | FINAL

Jessica,

-Missing/broken custody seals-
Issue 1: Two of the coolers received today, corresponding with airbill numbers 773640624237 and773634427290, were received with no intact custody seal and no tape. The inner black bags were still intact, which should minimize any concerns about sample integrity issues.
Resolution 1: Per Region 6, the laboratory will note this issue in the SDG Narrative and proceed with analysis. The laboratory should add in the SDG Narrative whether or not all of the containers had intact custody seals.

Issue 2: Two of the coolers received today also had tape that was beginning to come off of the coolers. As the tape was coming up, it was also taking the custody seal with it, which likely explains how the other 2 coolers arrived without custody seals.
Resolution 2: Per Region 6, the laboratory will note this issue in the SDG Narrative and proceed with analysis. The laboratory should add in the SDG Narrative whether or not all of the containers had intact custody seals.

-Incorrect/duplicated sample IDs-
Issue 3: The laboratory received 4 sets of samples that did not have the CLP sample number on the label. All three had the same sample identifier number, WO-005-001-00-52 and the same collection date and time of 05/19/2015 14:50. This corresponds with sample F9L38, which is listed on the four COCs received from coolers with this issue. The laboratory did not receive any other samples that had been labeled F9L38.
Resolution 3: Per Region 6, the samples referenced above are F9L38. The laboratory should note the issue in the SDG Narrative and proceed with analysis.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/21/2015 09:14 AM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Humphrey, Marvelyn" <humphrey.marvelyn@epa.gov>, "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 05/20/2015 05:28 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response

---

Margaret – please notify the lab of the following:

Issues 1 & 2 – The lab will note this issue in the SDG narrative and proceed with analysis. The lab should add in the SDG narrative whether or not all of the containers had intact custody seals.

Issue 3 - The samples referenced below are F9L38. The lab should note the issue in the SDG narrative and proceed with analysis.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]
Sent: Wednesday, May 20, 2015 3:26 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple

Good afternoon,
DATAC is reporting the following issues with Case 45316. Please advise.

-Missing/broken custody seals-
Issue 1: Two of the coolers received today, corresponding with airbill numbers 773640624237 and773634427290, were received with no intact custody seal and no tape. (See attached pictures). The inner black bags were still intact, which should minimize any concerns about sample integrity issues.

Issue 2: Two of the coolers received today also had tape that was beginning to come off of the coolers. As the tape was coming up, it was also taking the custody seal with it, which likely explains how the other 2 coolers arrived without custody seals. (See attached picture)

-Incorrect/duplicated sample IDs-
Issue 3: The laboratory received 4 sets of samples that did not have the CLP sample number on the label. All three had the same sample identifier number, WO-005-001-00-52 and the same collection date and time of 05/19/2015 14:50. This corresponds with sample F9L38, which is listed on the four COCs received from coolers with this issue. The laboratory did not receive any other samples that had been labeled F9L38.(See attached pictures and COC scans).

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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---- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 04:22 PM ----

From: Jessica Helland <Jessica.Helland@alsglobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 05/20/2015 04:05 PM
Subject: FW: Case 45316 Issues

Please advise region 6 of the below issues.

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Thomas Carlson
Sent: Wednesday, May 20, 2015 11:57 AM
To: Jessica Helland; Meredith D. Edwards
Cc: Julie Warath; Joseph Gress
Subject: Case 45316 Issues

Please advise region 6 of the following issues.

1. 2 of the coolers received today, corresponding with airbill numbers 773640624237 and773634427290, were received with no intact custody seal and no tape. (See attached pictures)
   a. The inner black bags were still intact, which should minimize any concerns about sample integrity issues.
2. 2 of the coolers received today also had tape that was beginning to come off of the coolers. As the tape was coming up, it was also taking the custody seal with it, which likely explains how the other 2 coolers arrived without custody seals. (See attached pictures)
3. We received 4 sets of samples that did not have the CLP sample number on the label. All three had the same sample identifier number, WO-005-001-00-52 and the same collection date and time of 05/19/2015 14:50. This corresponds with sample F9L38, which is listed on the four TRs received from coolers with this issue. We did not receive any

other samples that had been labeled F9L38.(See attached pictures and TR scans).
Thanks

****
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Jessica Helland

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Wednesday, May 20, 2015 2:19 PM
To: Jessica Helland; Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple | FINAL

Jessica,

-Non-sampler issues-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.
Resolution 1: Per Region 6, the samples were for SV/SVSIM analysis and laboratory QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)
Resolution 2: Per Region 6, F9KX4 is correct in cooler 1. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.
Resolution 3: Per Region 6, F9KX4 from cooler 6 needs to be changed to F9KR0. The laboratory should note that sample F9KX4 from cooler #6 was mislabeled and data should be reported under F9KR0. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 04:14 PM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 05/20/2015 03:42 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issues 2 & 3

Hello Margaret – please provide information below to the lab.

Lab Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

R6 response # 2 - F9KX4 - is correct in cooler 1.

Lab Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

R6 response # 3 - The F9KX4 from cooler 6 needs to be changed to F9KR0. Lab should note that sample # F9KX4 from cooler #6 was mislabeled and data should be reported under
F9KR0.

Please ask the lab to note the issues and resolutions in the SDG narrative and proceed with analysis.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Perez, Myra
Sent: Wednesday, May 20, 2015 2:02 PM
To: 'Margaret T Jarosz'
Cc: Gorostiza, Sylvia; Flores, Raymond
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issue 1

Hello Margaret –

Lab Issue1-Insufficient volume- Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

R6 response – The samples were for SV/SVSIM analysis. Lab QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs.

We are waiting for a response from the sampler for issues 2 & 3.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]
Sent: Wednesday, May 20, 2015 12:12 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple

Good afternoon,
DATAC is reporting the following issues with Case 45316. Please advise.

-Insufficient volume-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

-Samples/analyses listed on COC but not received at laboratory-
Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 01:06 PM -----

From: Jessica Helland <Jessica.Helland@alsglobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 05/20/2015 11:46 AM
Subject: FW: Case 45316 issues

Please see below issues.

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Thomas Carlson
Sent: Tuesday, May 19, 2015 10:54 AM
To: Roxanne Olson
Cc: Meredith D. Edwards; Jessica Helland
Subject: Case 45316 issues

Please advise region 6 of the following issues;

1. None of the TR's designate QC for any samples, nor was any additional volume provided for QC for any samples.
2. We received 2 sample labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
   a. The samples on the right were from the TR designated "Cooler 1" (see attached scan of TR) and match up appropriately.
   b. The samples on the left, marked with a black X on the lid were received from the TR designated "Cooler 6". (See attached scan of TR)
3. We did not receive sample F9KR0 from the TR designated "Cooler 6". This leads us to believe that sample F9KR0 was mislabeled as F9KX4.

****
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SDG Narrative
Semivolatiles Fraction

Contract Number: EPW11037
Case Number: 45316
SDG Number: F9KW7
SOW Number: SOM01.2
Laboratory Name: ALS Environmental

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9K71	1514052001	5	SVOA
F9K71	1514052001	10	SVOA SIM
F9K72	1514052002		SVOA
F9K72	1514052002		SVOA SIM
F9K73	1514052003		SVOA
F9K73	1514052003		SVOA SIM
F9K77	1514052004	10	SVOA
F9K77	1514052004	10	SVOA SIM
F9K78	1514052005		SVOA
F9K78	1514052005		SVOA SIM
F9KR0	1514071001		SVOA
F9KR0	1514071001		SVOA SIM
F9KW7	1513978001	10	SVOA
F9KW7	1513978001	10	SVOA SIM
F9KW8	1513978002		SVOA
F9KW8	1513978002		SVOA SIM
F9KW9	1513978003		SVOA
F9KW9	1513978003		SVOA SIM
F9KX0	1513978004	10	SVOA
F9KX0	1513978004	10	SVOA SIM
F9KX1	1513978005	10	SVOA
F9KX1	1513978005	10	SVOA SIM
F9KX4	1514071002		SVOA
F9KX4	1514071002		SVOA SIM
F9KX5	1513987006		SVOA
F9KX5	1513978006		SVOA SIM
F9KY4	1513978007	5	SVOA
F9KY4	1513978007	5	SVOA SIM
F9KY5	1513978008		SVOA
F9KY5	1513978008		SVOA SIM
F9KY6	1513978009	10	SVOA
F9KY6	1513978009	10	SVOA SIM
F9KY7	1513978010	10	SVOA
F9KY7	1513978010	10	SVOA SIM
F9L28	1513978011	10	SVOA
F9L28	1513978011	10	SVOA SIM
F9L29	1513978012		SVOA
F9L29	1513978012		SVOA SIM
F9L30	1513978013	10	SVOA
F9L30	1513978013	10	SVOA SIM

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

Instrumentation: Agilent GC/MS system (ID 5975-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.

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	
SSTD005DG	Indeno(1,2,3-c,d)pyrene	3284	3318

For SIM analysis:

Sample	Analyte	Scan start-stop	
F9KX1	Fluoranthene-d10	1660	1678
F9KX5	Fluoranthene-d10	1661	1677
F9L29	Benzo(k)fluoranthrene	2425	2437
F9K72	Benzo(k)fluoranthrene	2425	2437
F9K78	Benzo(k)fluoranthrene	2425	2436
F9L30	Benzo(k)fluoranthrene	2425	2436
F9K71	Benzo(k)fluoranthrene	2425	2434
F9K77	Benzo(k)fluoranthrene	2424	2437

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.

Dustin Calder June 8, 2015

Dustin Calder
Chemist
Semivolatile Organic Analysis Section

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9KW7

☐ ARO ☐ PEST ☒ BNA ☒ BNASIM ☐ VT ☐ VOASIM ☐ VLM

Laboratory Name: ALS Laboratory Group (SLC)

Laboratory Code: DATAC

Contract No.: EPW11037

Case No.: 45316

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis Requested: NO

Program: SOM01.2

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) F9K71	7) F9KW7	13) F9KX5	19) F9L29
2) F9K72	8) F9KW8	14) F9KY4	20) F9L30
3) F9K73	9) F9KW9	15) F9KY5	21)
4) F9K77	10) F9KX0	16) F9KY6	22)
5) F9K78	11) F9KX1	17) F9KY7	23)
6) F9KR0	12) F9KX4	18) F9L28	24)

F9KR0

First Sample in SDG

F9K78

Last Sample in SDG

05/19/15

First Sample Receipt Date

05/20/15

Last Sample Receipt Date

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

Signature: /S/ Jessica Helland

Date: 5/19/2015 4:48:40 PM

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

1513978

USEPA CLP COC (REGION COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749108
Copy Original in SDG F9K50

CHAIN OF CUSTODY RECORD

Wilcox Oil 05/19/2015
Case #: ~~45299~~ 45316 F9KW7
Cooler #: 5

No: 6-051815-142514-0010

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-003-00-51	F9KW2	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:15	Field Sample
WO-020-003-06-51	F9KW3	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:25	Field Sample
WO-020-003-12-51	F9KW4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:30	Field Sample
WO-020-003-24-51	F9KW5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:35	Field Sample
WO-020-004-00-51	F9KW6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:45	Field Sample
WO-020-004-06-51	F9KW7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:50	Field Sample
WO-020-004-12-51	F9KW8	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:55	Field Sample
WO-020-004-24-51	F9KW9	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:00	Field Sample
WO-020-003-00-52	F9L28	Soil/ START	Composite	SVOA(21)	1008 (Ice) (2)	020	05/18/2015 10:20	Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	D Pill Weston	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	[illegible]	05/19/2015 09:03	Good

USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749130

CHAIN OF CUSTODY RECORD
Wilcox Oil 05/19/2015
Case #: ~~45299~~ 45314 F9KW7
Cooler #: 1

No: 6-051815-110208-0001
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-005-00-51	F9KX0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:05	Field Sample
WO-020-005-06-51	F9KX1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:10	Field Sample
WO-020-006-12-51	F9KX4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:25	Field Sample
WO-020-006-24-51	F9KX5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:30	Field Sample
WO-020-005-12-51	F9KY4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:15	Field Sample
WO-020-005-24-51	F9KY5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:20	Field Sample
WO-020-006-00-51	F9KY6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:15	Field Sample
WO-020-006-06-51	F9KY7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:20	Field Sample

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/18/15 2100	FedEX	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	

USEPA CLP COC (LAB COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749050
copy original in SDG F9K50

CHAIN OF CUSTODY RECORD

OB. 05/19/2015
Case #: ~~45299~~ 45316 F9KW7
Cooler #: 9

No: 6-051815-190752-0015

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-005-00-51	F9K50	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:20	Good
WO-006-001-00-51	F9K70	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:15	
WO-006-002-00-51	F9K76	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:30	
WO-006-003-00-51	F9K82	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:40	
WO-006-004-00-51	F9K86	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:00	
WO-020-001-24-51	F9KT7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:15	
WO-020-001-24-52	F9L29	Soil/ START	Composite	SVOA(21)	1013 (Ice) (2)	020	05/18/2015 14:20	

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	[signature]	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	[signature] DATAC	05/19/2015 09:03	GOOD

USEPA CLP COC (LAB COPY)

DateShipped: 5/18/2015

CarrierName: FedEx

AirbillNo: 805467748958

copy original in SDG F9K50

CHAIN OF CUSTODY RECORD

05/19/2015

Case #: ~~45299~~ 45316 F9KW7

Cooler #: 11

No: 6-051815-201754-0020

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-006-00-51	F9K92	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:40	Good
WO-006-007-00-51	F9KA0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 17:20	
WO-006-008-00-51	F9KA2	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 17:25	
WO-006-004-00-52	F9L30	Soil/ START	Composite	SVOA(21)	1018 (Ice) (2)	006	05/18/2015 16:05	

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	Weston	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	Good

1514052

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773634427290
Copy original in SDG F9K24

CHAIN OF CUSTODY RECORD

Case #: ~~45299~~ 45316
Cooler #:

F9KW7

No: 6-051915-112821-0023
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-001-06-51	F9K71	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:15	Good
WO-006-001-12-51	F9K72	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:20	
WO-006-001-24-51	F9K73	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (1)	006	05/19/2015 08:25	
WO-006-002-06-51	F9K77	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:40	
WO-006-002-12-51	F9K78	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:45	
WO-006-002-24-51	F9K79	Soil/ START	Composite	SVOA/SVOASIM(21)	1027 (Ice) (2)	006	05/19/2015 08:50	
WO-006-003-06-51	F9K83	Soil/ START	Composite	SVOA/SVOASIM(21)	1034 (Ice) (2)	006	05/19/2015 10:15	

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

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	D. [signature] WESTON	5/19/15 2100	FedEx	5/19/15 2100	
	FedEx	05/20/2015 08:42	[signature] DATAC	05/20/2015 08:42	Good

1514071

W

USEPA CLP COC (LAB COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749082

F9K50
Copy Original in SDG ~~F9KW7~~ 05/21/2015

CHAIN OF CUSTODY RECORD

05/19/2015
Case #: ~~45299~~ 45316
Cooler #: 6

F9KW7
~~F9K50~~
05/20/2015

No: 6-051815-172245-0011
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-020-001-00-51	F9KQ6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:00	Good
WO-020-001-06-51	F9KQ7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:05	
WO-020-002-12-51	F9KR0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:25	
WO-020-002-24-51	F9KR1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:30	
WO-020-001-12-51	F9KT6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:10	
WO-020-002-00-51	F9KT8	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:15	
WO-020-002-06-51	F9KT9	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:20	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	D [signature]	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	[signature] DATAC	05/19/2015 09:03	Good

USEPA CLP COC (REGION COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749130
Copy original in SDG F9KW7

CHAIN OF CUSTODY RECORD

Wilcox Oil 05/19/2015
Case #: ~~45299~~ 45321 F9KW7
Cooler #: 1

No: 6-051815-110208-0001

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-005-00-51	F9KX0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:05	Field Sample
WO-020-005-06-51	F9KX1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:10	Field Sample
WO-020-006-12-51	F9KX4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:25	Field Sample
WO-020-006-24-51	F9KX5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:30	Field Sample
WO-020-005-12-51	F9KY4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:15	Field Sample
WO-020-005-24-51	F9KY5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:20	Field Sample
WO-020-006-00-51	F9KY6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:15	Field Sample
WO-020-006-06-51	F9KY7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:20	Field Sample

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/18/15 2100	FedEX	5/18/22 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	

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.: F9KW7

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9K71	70	66	69	51	70	68	70	13
02	F9K72	71	59	66	43	68	70	69	11
03	F9K73	70	57	66	50	63	66	66	11
04	F9K77	58	61	64	37	63	60	62	9
05	F9K78	70	59	67	57	65	66	67	9
06	F9KR0	67	59	63	38	66	66	65	14
07	F9KW7	59	52	59	60	58	54	60	14
08	F9KW8	68	60	67	59	68	67	67	11
09	F9KW9	75	68	74	66	74	73	72	13
10	F9KX0	71	66	72	71	72	69	71	18
11	F9KX1	67	66	68	65	68	65	68	16
12	F9KX4	66	54	61	40	61	61	62	8
13	F9KX5	77	68	75	65	78	78	77	17
14	F9KY4	67	62	64	50	66	64	66	15
15	F9KY5	75	59	72	62	69	74	75	20
16	F9KY6	64	58	64	52	63	57	62	14
17	F9KY7	72	65	73	64	70	67	74	16
18	F9L28	65	60	67	62	64	61	65	16
19	F9L29	80	68	77	69	77	77	77	12
20	F9L30	71	70	73	53	76	71	72	15
21	SBLK23	67	62	67	50	67	66	62	11
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.: F9KW7

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	F9K71	83	77	61	81	33	79	80	75	0
02	F9K72	89	77	85	84	67	87	91	91	0
03	F9K73	84	70	73	77	61	86	91	88	0
04	F9K77	76	70	48	75	23	75	75	69	0
05	F9K78	81	70	77	77	61	79	82	77	0
06	F9KR0	87	73	80	82	60	83	87	80	0
07	F9KW7	70	65	43	71	35	72	74	68	0
08	F9KW8	79	74	69	77	61	77	81	77	0
09	F9KW9	85	77	80	82	67	82	87	83	0
10	F9KX0	83	79	60	82	44	82	87	80	0
11	F9KX1	81	77	57	80	41	82	82	77	0
12	F9KX4	77	69	71	75	57	78	82	79	0
13	F9KX5	93	86	84	90	74	92	97	93	0
14	F9KY4	80	74	62	79	48	78	83	74	0
15	F9KY5	88	79	80	85	57	86	90	85	0
16	F9KY6	78	73	56	78	39	79	80	73	0
17	F9KY7	90	83	51	89	40	88	88	81	0
18	F9L28	78	74	47	77	36	80	80	75	0
19	F9L29	93	86	87	91	75	95	100	98	0
20	F9L30	88	84	54	88	37	87	89	84	0
21	SBLK23	79	73	67	77	72	82	90	89	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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFL02BLK Lab Sample ID: 447823

Instrument ID: 5975-D Date Extracted: 05/21/2015

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

Level: (LOW/MED) LOW Time Analyzed: 09:25

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9K71	1514052001	DFM26F01	05/28/2015
02	F9K72	1514052002	DFL11F02	05/27/2015
03	F9K73	1514052003	DFL12F03	05/27/2015
04	F9K77	1514052004	DFM27F04	05/28/2015
05	F9K78	1514052005	DFL13F05	05/27/2015
06	F9KR0	1514071001	DFL14F01	05/27/2015
07	F9KW7	1513978001	DFM18F01	05/28/2015
08	F9KW8	1513978002	DFL06F02	05/27/2015
09	F9KW9	1513978003	DFL07F03	05/27/2015
10	F9KX0	1513978004	DFM19F04	05/28/2015
11	F9KX1	1513978005	DFM20F05	05/28/2015
12	F9KX4	1514071002	DFL15F02	05/27/2015
13	F9KX5	1513978006	DFL08F06	05/27/2015
14	F9KY4	1513978007	DFM21F07	05/28/2015
15	F9KY5	1513978008	DFL09F08	05/27/2015
16	F9KY6	1513978009	DFM22F09	05/28/2015
17	F9KY7	1513978010	DFM23F10	05/28/2015
18	F9L28	1513978011	DFM24F11	05/28/2015
19	F9L29	1513978012	DFL10F12	05/27/2015
20	F9L30	1513978013	DFM25F13	05/28/2015
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.

DFTPPDG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFG02S20 DFTPP Injection Date: 05/21/2015

Instrument ID: 5975-D DFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	30.4
70	Less than 2.0% of mass 69	0.3 (1.0) 1
127	10.0 - 80.0% of mass 198	40.8
197	Less than 2.0% of mass 198	0.5
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	24.9
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	9.9
442	50.0 - 100% of mass 198	65.3
443	15.0 - 24.0% of mass 442	12.7 (19.4) 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	SSTD020DG	SSTD020DG	DFG02S20	05/21/2015	14:38
02	SSTD005DG	SSTD005DG	DFG03S05	05/21/2015	15:14
03	SSTD010DG	SSTD010DG	DFG04S10	05/21/2015	15:48
04	SSTD040DG	SSTD040DG	DFG05S40	05/21/2015	16:22
05	SSTD080DG	SSTD080DG	DFG06S80	05/21/2015	16:56
06					
07					
08					
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.

DFTPPDL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFL01S20 DFTPP Injection Date: 05/27/2015

Instrument ID: 5975-D DFTPP Injection Time: 08:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	31.0
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	41.6
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	23.9
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	8.7
442	50.0 - 100% of mass 198	59.1
443	15.0 - 24.0% of mass 442	11.7 (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	SSTD020DL	SSTD020DL	DFL01S20	05/27/2015	08:33
02	SBLK23	447823	DFL02BLK	05/27/2015	09:25
03	F9KW8	1513978002	DFL06F02	05/27/2015	11:39
04	F9KW9	1513978003	DFL07F03	05/27/2015	12:13
05	F9KX5	1513978006	DFL08F06	05/27/2015	12:46
06	F9KY5	1513978008	DFL09F08	05/27/2015	13:20
07	F9L29	1513978012	DFL10F12	05/27/2015	13:53
08	F9K72	1514052002	DFL11F02	05/27/2015	14:27
09	F9K73	1514052003	DFL12F03	05/27/2015	15:00
10	F9K78	1514052005	DFL13F05	05/27/2015	15:33
11	F9KR0	1514071001	DFL14F01	05/27/2015	16:06
12	F9KX4	1514071002	DFL15F02	05/27/2015	16:39
13	SSTD020L1	SSTD020L1	DFL16S20	05/27/2015	17:12
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO.

DFTPPDM

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFM17S20 DFTPP Injection Date: 05/28/2015

Instrument ID: 5975-D DFTPP Injection Time: 09:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.3
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	30.8
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	41.1
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	24.5
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	9.1
442	50.0 - 100% of mass 198	61.0
443	15.0 - 24.0% of mass 442	11.9 (19.5) 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	SSTD020DM	SSTD020DM	DFM17S20	05/28/2015	09:45
02	F9KW7	1513978001	DFM18F01	05/28/2015	10:18
03	F9KX0	1513978004	DFM19F04	05/28/2015	10:53
04	F9KX1	1513978005	DFM20F05	05/28/2015	11:28
05	F9KY4	1513978007	DFM21F07	05/28/2015	12:02
06	F9KY6	1513978009	DFM22F09	05/28/2015	12:36
07	F9KY7	1513978010	DFM23F10	05/28/2015	13:10
08	F9L28	1513978011	DFM24F11	05/28/2015	13:44
09	F9L30	1513978013	DFM25F13	05/28/2015	14:18
10	F9K71	1514052001	DFM26F01	05/28/2015	14:51
11	F9K77	1514052004	DFM27F04	05/28/2015	15:25
12	SSTD020M1	SSTD020M1	DFM28S20	05/28/2015	15:59
13					
14					
15					
16					
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19					
20					
21					

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Date Analyzed: 05/27/2015

Lab File ID (Standard): DFL01S20 Time Analyzed: 08:33

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	877489	5.10	2881851	6.56	1770482	9.23
	UPPER LIMIT	1754978	5.60	5763702	7.06	3540964	9.73
	LOWER LIMIT	438745	4.60	1440926	6.06	885241	8.73
	EPA SAMPLE NO.						
01	SBLK23	827035	5.10	2846652	6.55	1752020	9.23
02	F9KW8	812837	5.11	2715448	6.56	1672690	9.23
03	F9KW9	885236	5.11	3016252	6.56	1915541	9.23
04	F9KX5	870632	5.11	2867072	6.56	1743620	9.23
05	F9KY5	807287	5.11	2734430	6.55	1704804	9.23
06	F9L29	935236	5.11	3097393	6.56	1844963	9.23
07	F9K72	778678	5.11	2622480	6.56	1656021	9.23
08	F9K73	806611	5.11	2718683	6.56	1670624	9.23
09	F9K78	841038	5.11	2887588	6.56	1791807	9.23
10	F9KR0	781530	5.10	2646503	6.55	1664972	9.23
11	F9KX4	930807	5.11	3178290	6.56	1960304	9.23
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.: F9KW7

EPA Sample No.(SSTD020##): SSTD020DL Date Analyzed: 05/27/2015

Lab File ID (Standard): DFL01S20 Time Analyzed: 08:33

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	3099613	11.88	3769374	16.03	3504700	18.60
	UPPER LIMIT	6199226	12.38	7538748	16.53	7009400	19.10
	LOWER LIMIT	1549807	11.38	1884687	15.53	1752350	18.10
	EPA SAMPLE NO.						
01	SBLK23	2999012	11.88	3503198	16.02	3362251	18.60
02	F9KW8	2895480	11.87	3392654	16.02	3222814	18.59
03	F9KW9	3407383	11.88	3981531	16.02	3788029	18.59
04	F9KX5	2983965	11.88	3459227	16.02	3282705	18.59
05	F9KY5	2962688	11.88	3502245	16.02	3391512	18.60
06	F9L29	3119740	11.88	3659459	16.02	3527810	18.60
07	F9K72	2937902	11.88	3568810	16.02	3443995	18.60
08	F9K73	2860153	11.88	3287845	16.02	3097343	18.59
09	F9K78	3191014	11.88	3873949	16.02	3751001	18.60
10	F9KR0	2976695	11.88	3576597	16.02	3415453	18.59
11	F9KX4	3351084	11.88	3904194	16.02	3773589	18.60
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.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DM Date Analyzed: 05/28/2015

Lab File ID (Standard): DFM17S20 Time Analyzed: 09:45

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	875507	5.10	2942402	6.56	1851975	9.23
	UPPER LIMIT	1751014	5.60	5884804	7.06	3703950	9.73
	LOWER LIMIT	437754	4.60	1471201	6.06	925988	8.73
	EPA SAMPLE NO.						
01	F9KW7	963833	5.11	3280136	6.56	2057801	9.23
02	F9KX0	994866	5.11	3336866	6.56	2057091	9.23
03	F9KX1	896157	5.11	3040752	6.56	1871665	9.23
04	F9KY4	906318	5.11	3077466	6.56	1944145	9.23
05	F9KY6	856951	5.11	2945725	6.56	1812047	9.23
06	F9KY7	844118	5.11	2811574	6.56	1760544	9.23
07	F9L28	852980	5.11	2892660	6.56	1795014	9.23
08	F9L30	814795	5.11	2708178	6.56	1703966	9.23
09	F9K71	836422	5.11	2785386	6.56	1722750	9.23
10	F9K77	835063	5.11	2798911	6.56	1761573	9.23
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.: F9KW7

EPA Sample No.(SSTD020##): SSTD020DM Date Analyzed: 05/28/2015

Lab File ID (Standard): DFM17S20 Time Analyzed: 09:45

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	3334155	11.88	4169218	16.03	3821105	18.60
	UPPER LIMIT	6668310	12.38	8338436	16.53	7642210	19.10
	LOWER LIMIT	1667078	11.38	2084609	15.53	1910553	18.10
	EPA SAMPLE NO.						
01	F9KW7	3626589	11.88	4209039	16.02	3853662	18.60
02	F9KX0	3544396	11.88	3954328	16.02	3694442	18.59
03	F9KX1	3343776	11.88	4069563	16.02	3871924	18.59
04	F9KY4	3431879	11.88	3942798	16.02	3675645	18.59
05	F9KY6	3217393	11.88	3849133	16.02	3659417	18.60
06	F9KY7	3098795	11.88	3757899	16.02	3542030	18.60
07	F9L28	3130971	11.88	3723946	16.02	3469438	18.60
08	F9L30	3030909	11.88	3711435	16.02	3471016	18.59
09	F9K71	3089819	11.88	3756624	16.02	3536996	18.59
10	F9K77	3136912	11.88	3810780	16.02	3628861	18.60
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.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFM26F01

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	960	U
108-95-2	Phenol	960	U
111-44-4	Bis(2-chloroethyl)ether	960	U
95-57-8	2-Chlorophenol	960	U
95-48-7	2-Methylphenol	960	U
108-60-1	2,2'-Oxybis(1-chloropropane)	960	U
98-86-2	Acetophenone	960	U
106-44-5	4-Methylphenol	960	U
621-64-7	N-Nitroso-di-n-propylamine	960	U
67-72-1	Hexachloroethane	960	U
98-95-3	Nitrobenzene	960	U
78-59-1	Isophorone	960	U
88-75-5	2-Nitrophenol	960	U
105-67-9	2,4-Dimethylphenol	960	U
111-91-1	Bis(2-chloroethoxy)methane	960	U
120-83-2	2,4-Dichlorophenol	960	U
91-20-3	Naphthalene	960	U
106-47-8	4-Chloroaniline	960	U
87-68-3	Hexachlorobutadiene	960	U
105-60-2	Caprolactam	960	U
59-50-7	4-Chloro-3-methylphenol	960	U
91-57-6	2-Methylnaphthalene	960	U
77-47-4	Hexachlorocyclopentadiene	960	U
88-06-2	2,4,6-Trichlorophenol	960	U
95-95-4	2,4,5-Trichlorophenol	960	U
92-52-4	1,1'-Biphenyl	960	U
91-58-7	2-Chloronaphthalene	960	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	960	U
606-20-2	2,6-Dinitrotoluene	960	U
208-96-8	Acenaphthylene	960	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	960	U

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

EPA SAMPLE NO.

F9K71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFM26F01

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	960	U
121-14-2	2,4-Dinitrotoluene	960	U
84-66-2	Diethylphthalate	960	U
86-73-7	Fluorene	960	U
7005-72-3	4-Chlorophenyl-phenylether	960	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	960	U
95-94-3	1,2,4,5-Tetrachlorobenzene	960	U
101-55-3	4-Bromophenyl-phenylether	960	U
118-74-1	Hexachlorobenzene	960	U
1912-24-9	Atrazine	960	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	960	U
120-12-7	Anthracene	960	U
86-74-8	Carbazole	960	U
84-74-2	Di-n-butylphthalate	960	U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	960	U
91-94-1	3,3'-Dichlorobenzidine	960	U
56-55-3	Benzo(a)anthracene	150	J
218-01-9	Chrysene	160	J
117-81-7	Bis(2-ethylhexyl)phthalate	960	U
117-84-0	Di-n-octylphthalate	960	U
205-99-2	Benzo(b)fluoranthene	960	U
207-08-9	Benzo(k)fluoranthene	960	U
50-32-8	Benzo(a)pyrene	100	J
193-39-5	Indeno(1,2,3-cd)pyrene	96.	J
53-70-3	Dibenzo(a,h)anthracene	960	U
191-24-2	Benzo(g,h,i)perylene	960	U
58-90-2	2,3,4,6-Tetrachlorophenol	960	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9K71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFM26F01

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.70	5500	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.31	1400	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

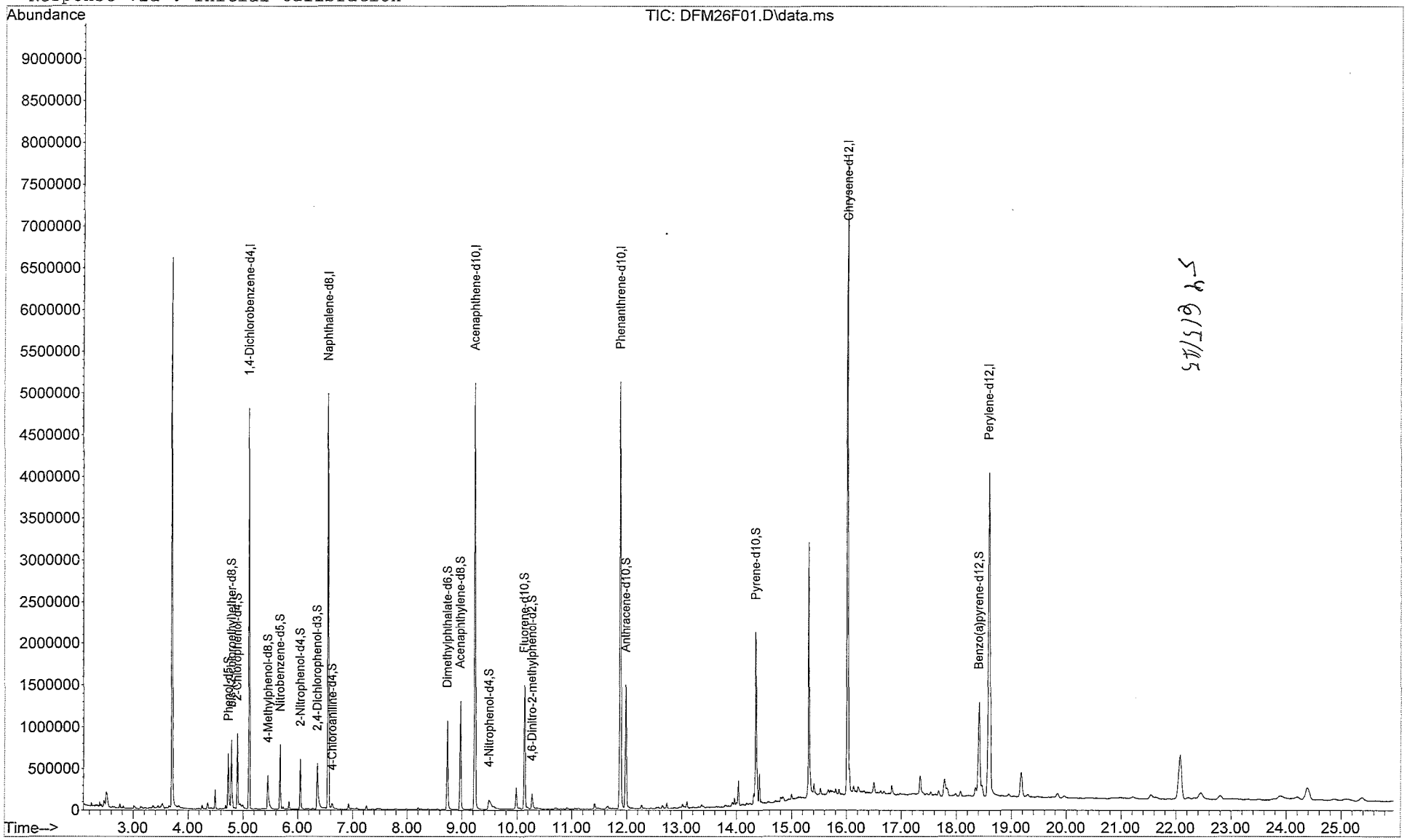
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM26F01.D Vial: 24
Acq On : 05/28/2015 14:51 Operator: DJC
Sample : 1514052001 F9K71 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 15:18:13 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM26F01.D Vial: 24
Acq On : 05/28/2015 14:51 Operator: DJC
Sample : 1514052001 F9K71 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 15:18:13 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	836422	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2785386	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1722750	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3089819	20.00 ug/ml
73) Chrysene-d12	16.02	240	3756624	20.00 ug/ml
81) Perylene-d12	18.59	264	3536996	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	291523	5.600ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	200582	5.266ug/mL
7) 2-Chlorophenol-d4	4.90	132	286939	5.530ug/ml
13) 4-Methylphenol-d8	5.45	113	159529	4.088ug/mL
17) Nitrobenzene-d5	5.67	128	128328	5.625ug/ml
21) 2-Nitrophenol-d4	6.05	143	147539	5.453ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	243170	5.562ug/mL
28) 4-Chloroaniline-d4	6.63	131	33981	1.035ug/mL
42) Dimethylphthalate-d6	8.73	166	703998	6.628ug/mL
45) Acenaphthylene-d8	8.97	160	866200	6.193ug/mL
50) 4-Nitrophenol-d4	9.49	143	86694	4.914ug/mL
57) Fluorene-d10	10.13	176	608079	6.479ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	51716	2.650ug/mL
69) Anthracene-d10	11.98	188	995216	6.287ug/mL
75) Pyrene-d10	14.34	212	1016563	6.426ug/mL
86) Benzo(a)pyrene-d12	18.41	264	976106	6.030ug/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)

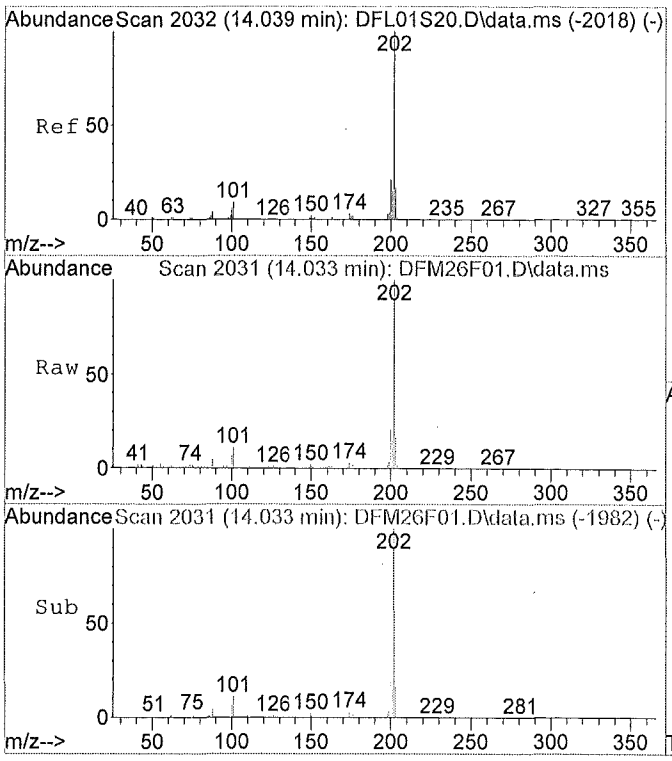
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM26F01.D Vial: 24
Acq On : 05/28/2015 14:51 Operator: DJC
Sample : 1514052001 F9K71 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 15:18:13 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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	14.03	202	180114	1.016ug/ml	89
74) Pyrene	14.37	202	183988	0.942ug/ml	87
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	16.00	228	161346	0.817ug/ml	94
79) Chrysene	16.05	228	152865	0.858ug/ml	96
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	18.35	252	100805	0.550ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	21.55	276	89444	0.511ug/ml	80
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

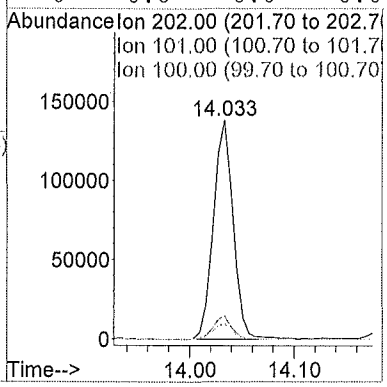
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

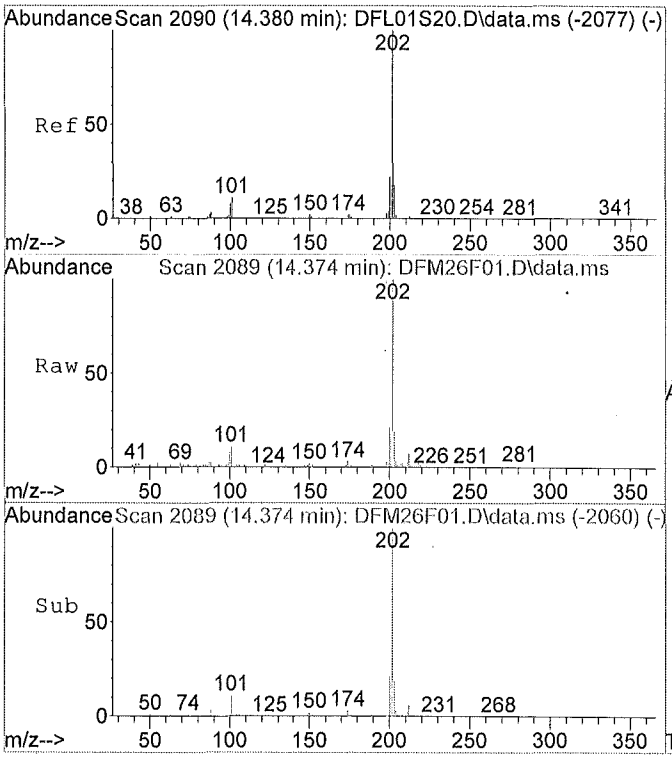


#72
Fluoranthene
Concen: 1.02 ug/ml
RT: 14.03 min Scan# 2031
Delta R.T. 0.00 min
Lab File: DFM26F01.D
Acq: 05/28/2015 14:51

Tgt Ion:202 Resp: 180114

Ion	Ratio	Lower	Upper
202	100		
101	10.1	10.5	19.5#
100	6.9	7.4	13.8#
0	0.0	0.0	0.0

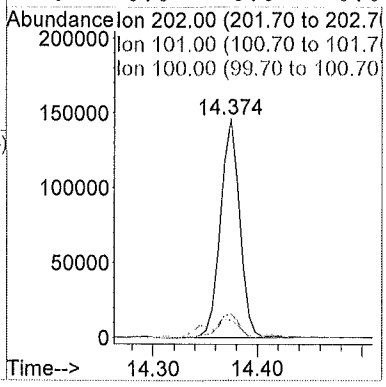


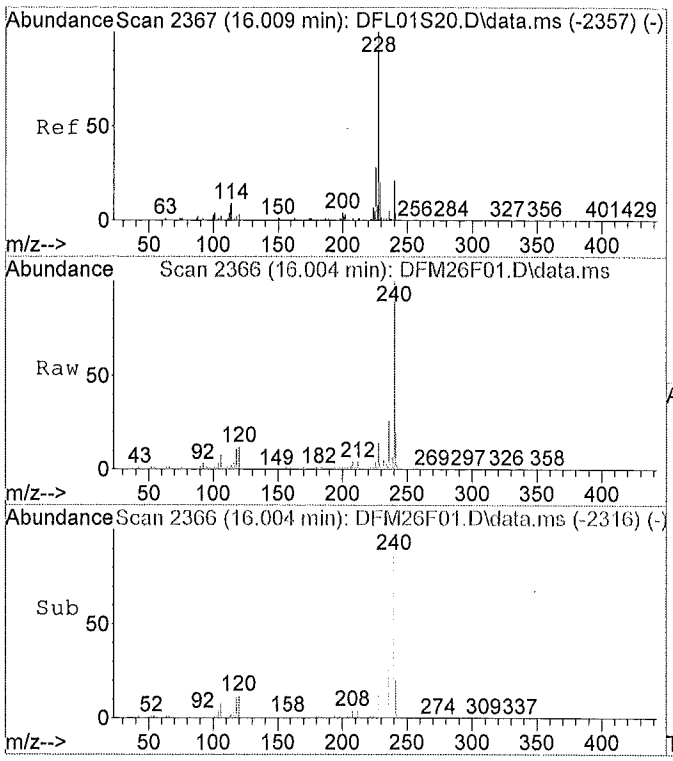


#74
Pyrene
Concen: 0.94 ug/ml
RT: 14.37 min Scan# 2089
Delta R.T. 0.00 min
Lab File: DFM26F01.D
Acq: 05/28/2015 14:51

Tgt Ion:202 Resp: 183988

Ion	Ratio	Lower	Upper
202	100		
101	12.5	12.2	22.7
100	8.7	10.1	18.7#
0	0.0	0.0	0.0

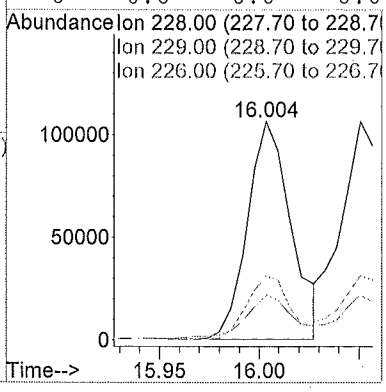


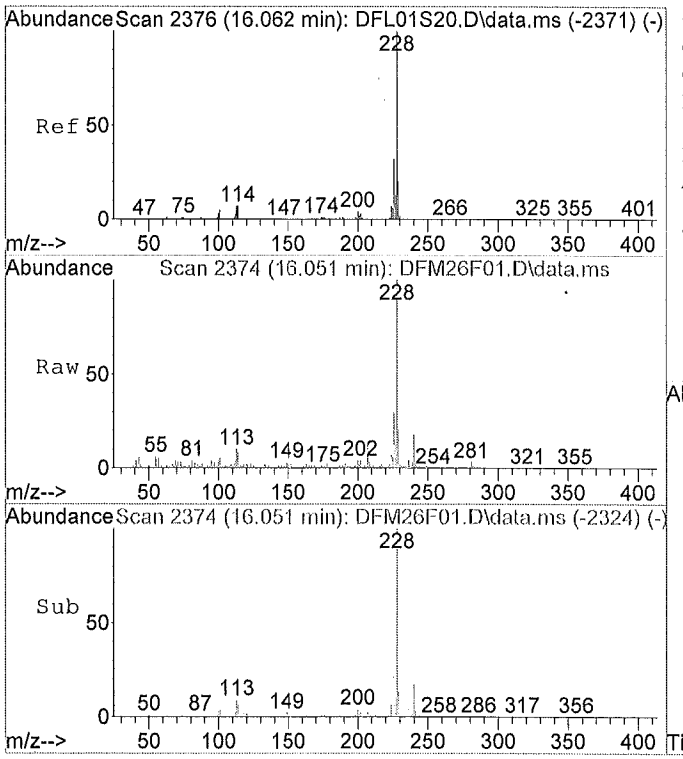


#78
Benzo(a)anthracene
Concen: 0.82 ug/ml
RT: 16.00 min Scan# 2366
Delta R.T. -0.01 min
Lab File: DFM26F01.D
Acq: 05/28/2015 14:51

Tgt Ion:228 Resp: 161346

Ion	Ratio	Lower	Upper
228	100		
229	21.7	13.7	25.5
226	29.8	18.2	33.8
0	0.0	0.0	0.0

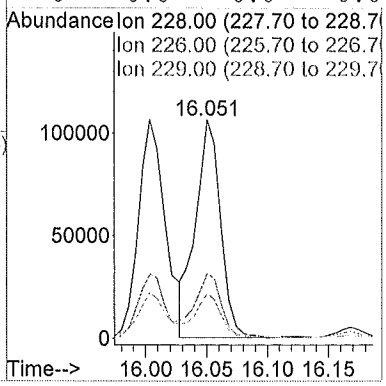


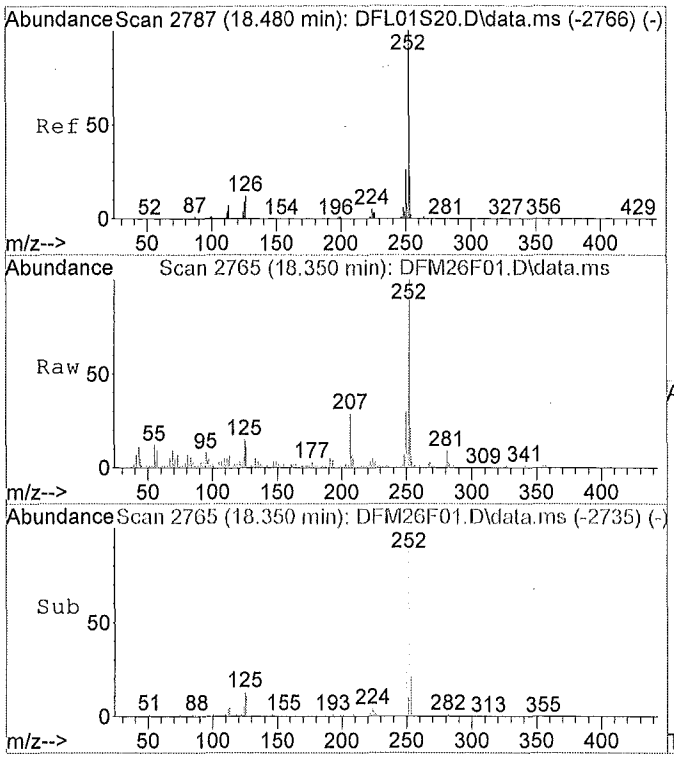


#79
Chrysene
Concen: 0.86 ug/ml
RT: 16.05 min Scan# 2374
Delta R.T. -0.01 min
Lab File: DFM26F01.D
Acq: 05/28/2015 14:51

Tgt Ion:228 Resp: 152865

Ion	Ratio	Lower	Upper
228	100		
226	30.9	20.1	37.3
229	21.4	13.7	25.5
0	0.0	0.0	0.0

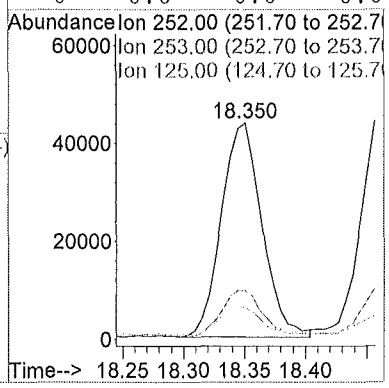


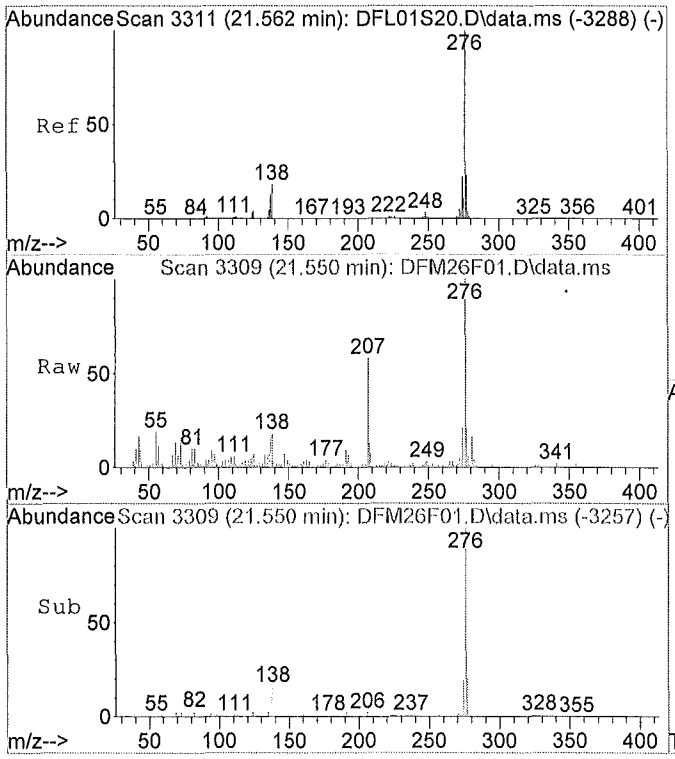


#85
Benzo(a)pyrene
Concen: 0.55 ug/ml
RT: 18.35 min Scan# 2765
Delta R.T. -0.12 min
Lab File: DFM26F01.D
Acq: 05/28/2015 14:51

Tgt Ion:252 Resp: 100805

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.2	28.2
125	13.6	11.8	21.8
0	0.0	0.0	0.0

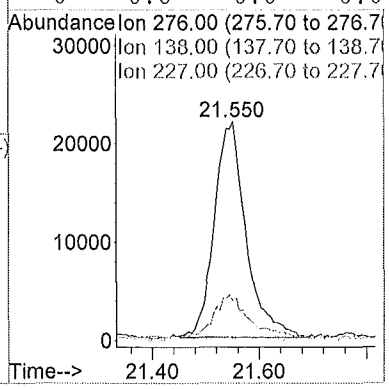




#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.51 ug/ml
RT: 21.55 min Scan# 3309
Delta R.T. 0.01 min
Lab File: DFM26F01.D
Acq: 05/28/2015 14:51

Tgt Ion:276 Resp: 89444

Ion	Ratio	Lower	Upper
276	100		
138	20.8	22.3	41.5#
227	0.1	0.1	0.1
0	0.0	0.0	0.0



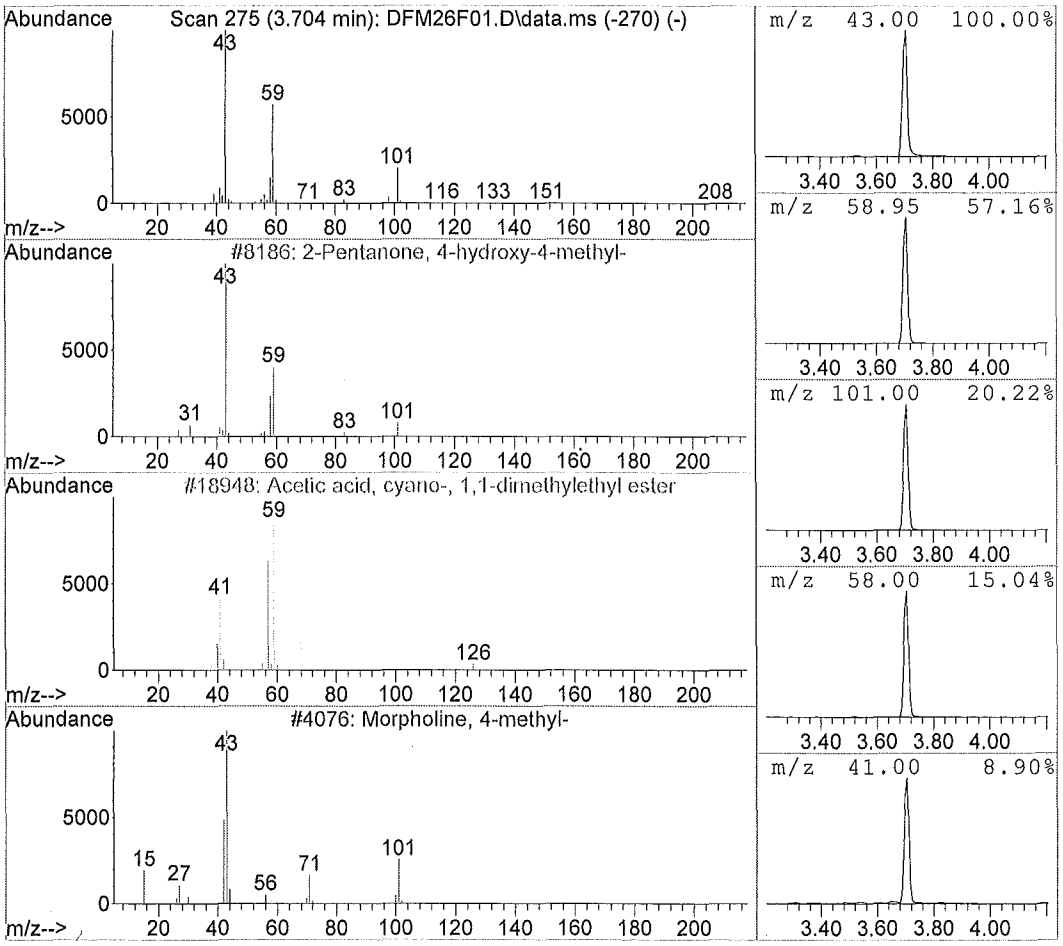
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM26F01.D Vial: 24
Acq On : 05/28/2015 14:51 Operator: DJC
Sample : 1514052001 F9K71 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	29.56 ug/ml	7357646	1,4-Dichlorobenzene-d4	4978684

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	Morpholine, 4-methyl-	4076	000109-02-4	9.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Acetic acid, 1,1-dimethylethyl este	8202	000540-88-5	9.00



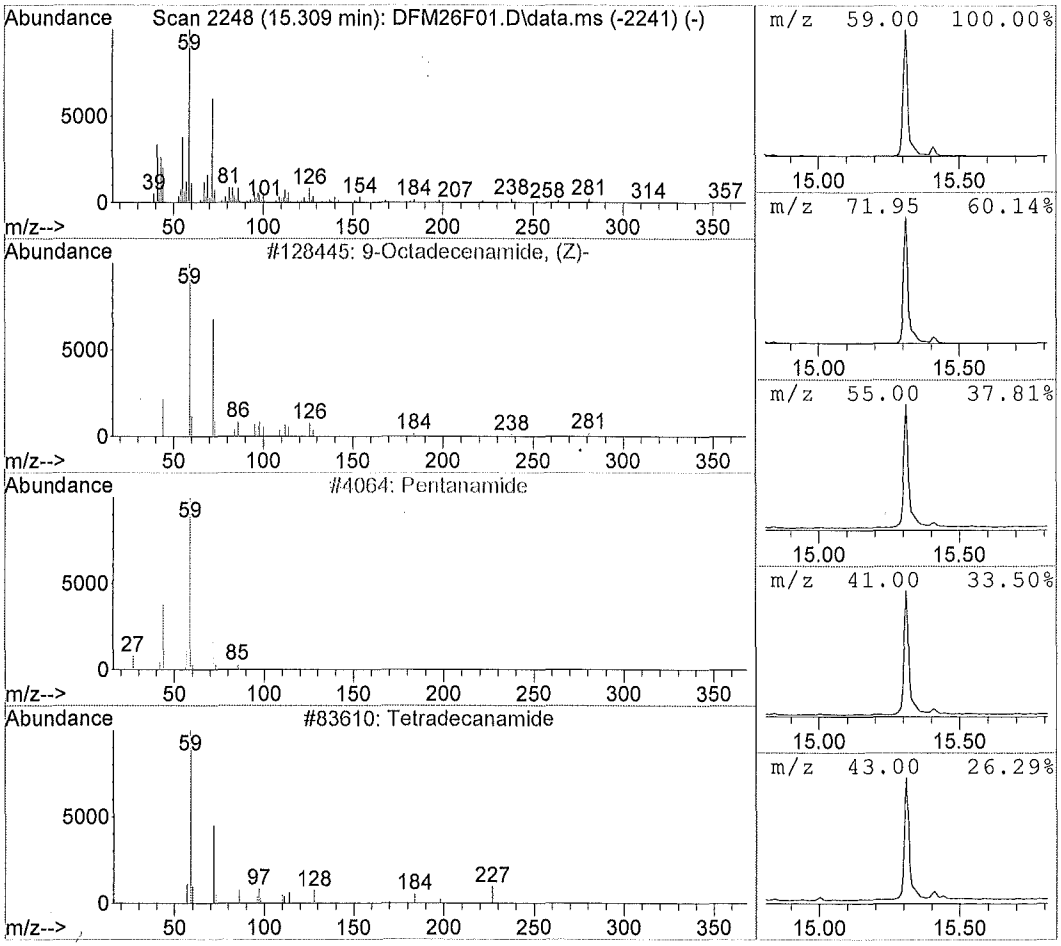
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM26F01.D Vial: 24
Acq On : 05/28/2015 14:51 Operator: DJC
Sample : 1514052001 F9K71 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	7.36 ug/ml	3727645	Chrysene-d12	10132556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentanamide	4064	000626-97-1	72.00
3	Tetradecanamide	83610	000638-58-4	64.00
4	Octanamide	20317	000629-01-6	64.00
5	Nonanamide	29478	001120-07-6	53.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL11F02

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL11F02

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL11F02

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Acetamide, N-ethyl-	2.52	180	J
02		Unknown Furan, 2,5-dimethyl-	2.63	120	JB
03		Unknown 4-Chloro-2-butanone	3.53	87.	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4300	JB
05		Unknown 1H-Pyrrole-2,5-dione	4.49	120	J
06	629-54-9	Hexadecanamide	13.10	89.	JN
07		Unknown 9-Octadecenamide, (Z)-	14.32	120	JB
08	629-54-9	Hexadecanamide	14.42	240	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.32	2000	JNB
10	629-54-9	Hexadecanamide	15.41	94.	JN
11	1740-19-8	Dehydroabietic acid	15.77	360	JN
12	301-02-0	9-Octadecenamide, (Z)-	16.13	85.	JNB
13		Unknown 3-Pentenoic acid, methyl ester	16.50	160	J
14	112-84-5	13-Docosenamide, (Z)-	17.34	570	JN
15		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.18	94.	J
16		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	580	J
17		Unknown .delta.-Selinene	22.46	80.	J
18		Unknown 2,6-Bis(4-nitro-phenylthio)pyridine	24.39	110	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

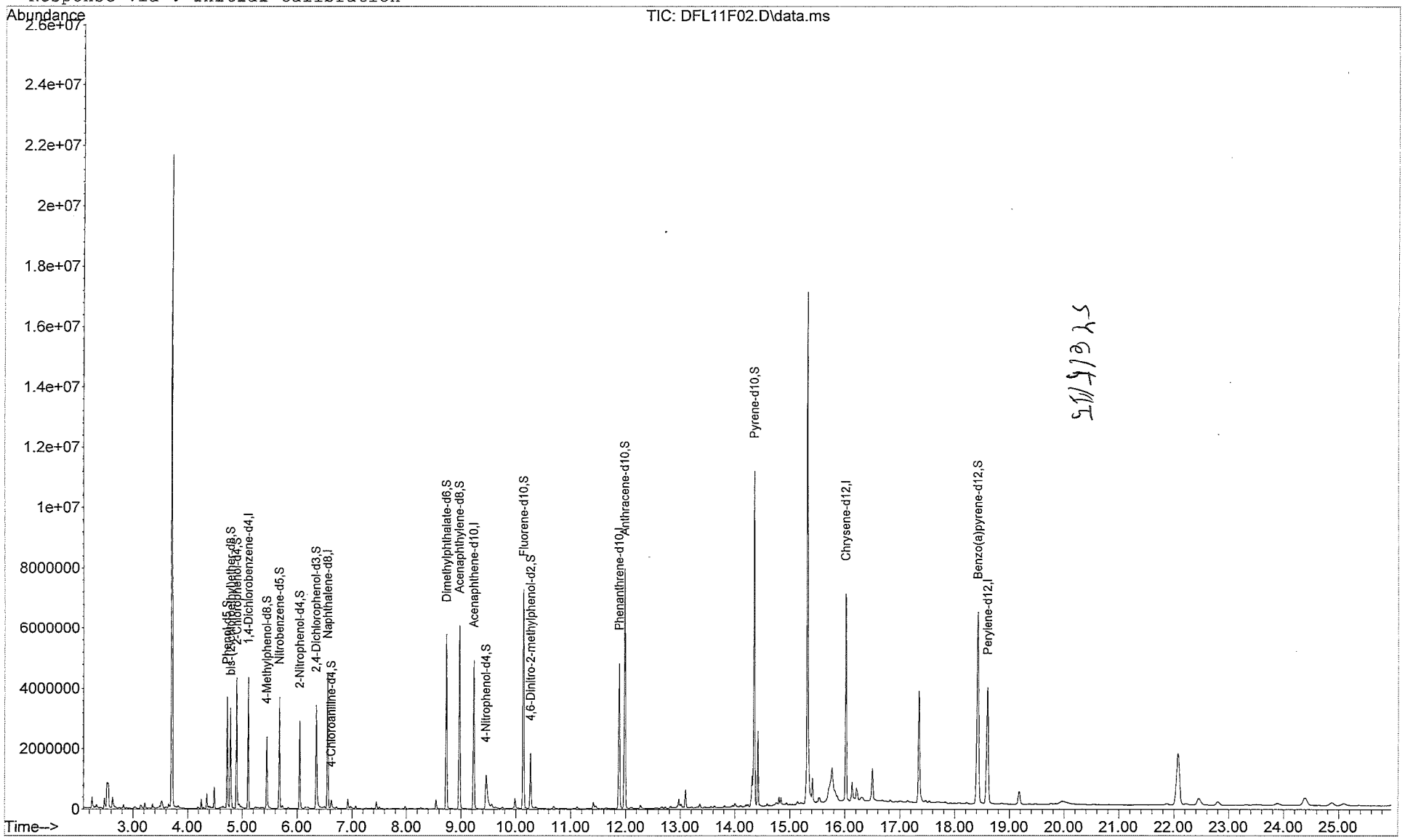
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:15:43 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



SYGEFT/ITS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:43 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	778678	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2622480	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1656021	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2937902	20.00 ug/ml
73) Chrysene-d12	16.02	240	3568810	20.00 ug/ml
81) Perylene-d12	18.60	264	3443995	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1380026	28.476ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	835635	23.565ug/mL
7) 2-Chlorophenol-d4	4.90	132	1277030	26.436ug/ml
13) 4-Methylphenol-d8	5.45	113	628244	17.294ug/mL
17) Nitrobenzene-d5	5.67	128	583931	27.186ug/ml
21) 2-Nitrophenol-d4	6.05	143	709548	27.856ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1142077	27.746ug/mL
28) 4-Chloroaniline-d4	6.62	131	137552	4.448ug/mL
42) Dimethylphthalate-d6	8.73	166	3637954	35.630ug/mL
45) Acenaphthylene-d8	8.97	160	4115333	30.611ug/mL
50) 4-Nitrophenol-d4	9.46	143	574145	33.857ug/mL
57) Fluorene-d10	10.14	176	3018062	33.452ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	497397	26.809ug/mL
69) Anthracene-d10	11.98	188	5257118	34.928ug/mL
75) Pyrene-d10	14.35	212	5499315	36.591ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5719793	36.291ug/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)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:43 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

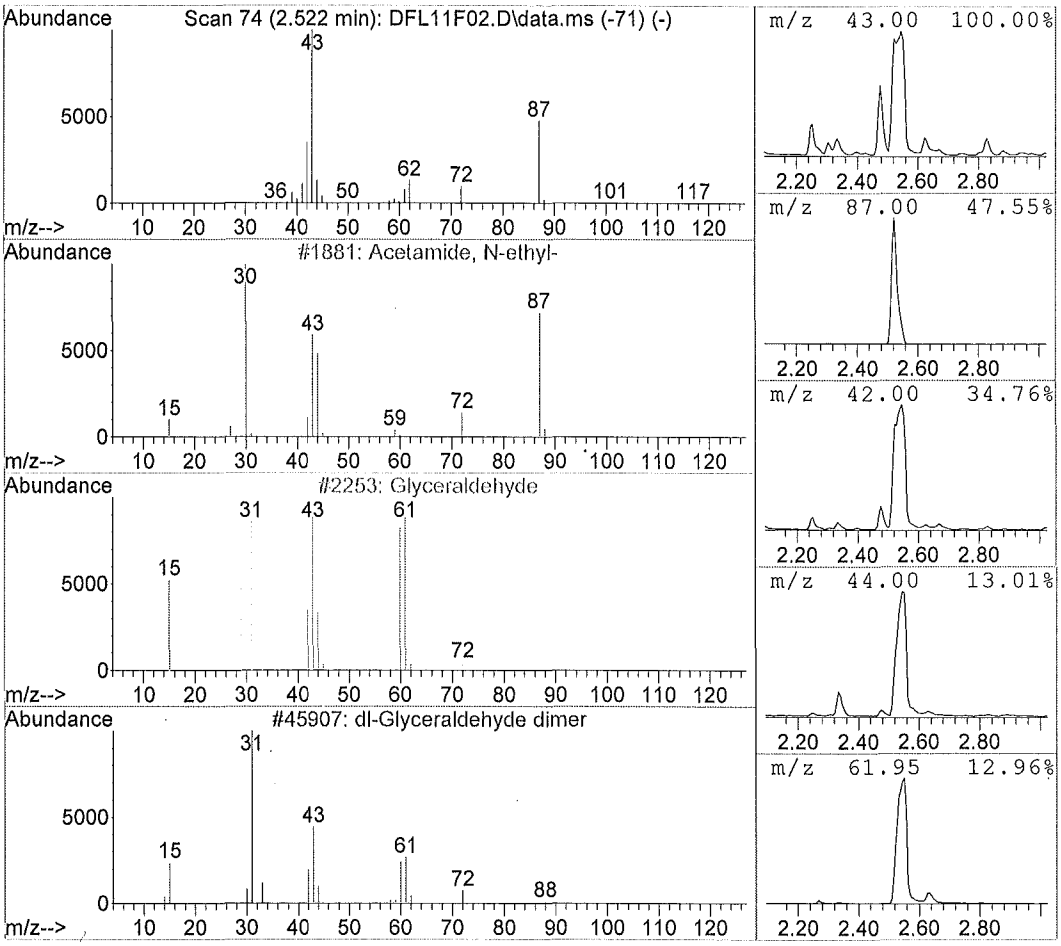
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.52	4.70 ug/ml	1077072	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetamide, N-ethyl-	1881	000625-50-3	9.00
2	Glyceraldehyde	2253	000056-82-6	9.00
3	dl-Glyceraldehyde dimer	45907	026793-98-6	9.00
4	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	9.00
5	Methyl glyoxal	628	000078-98-8	7.00



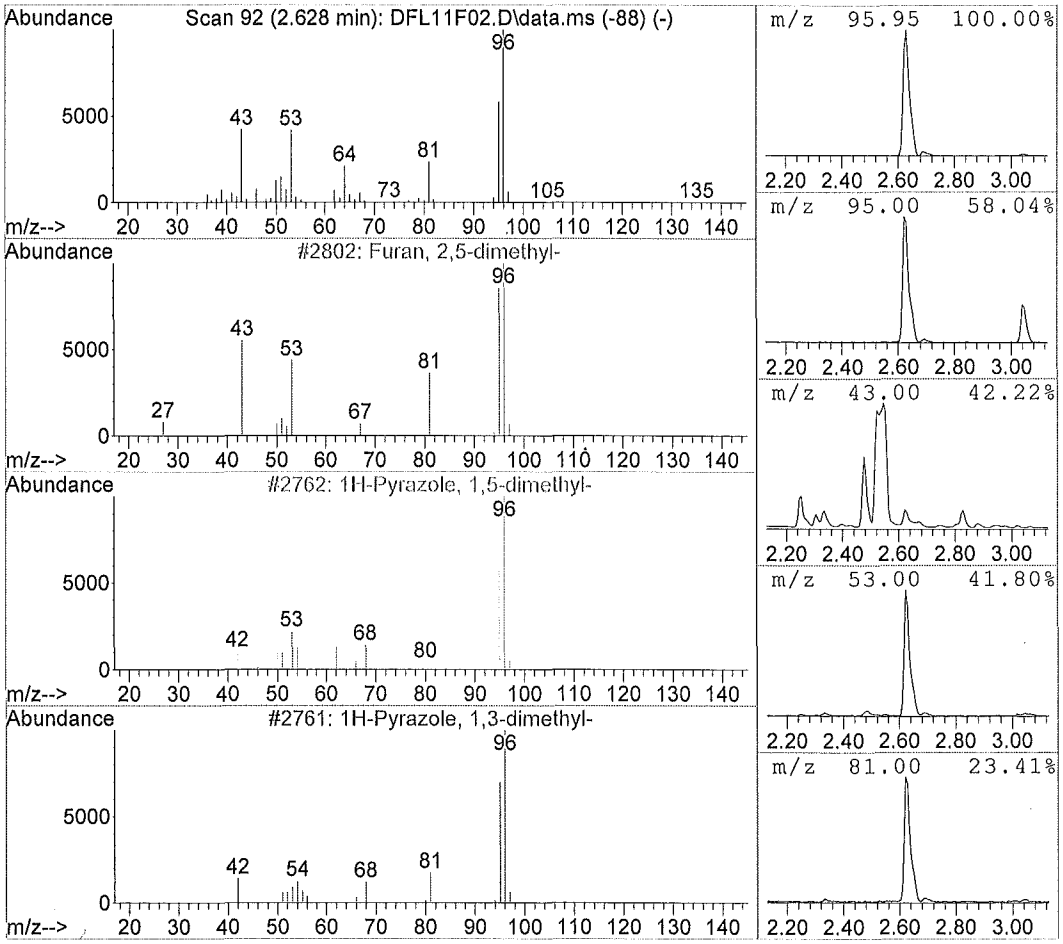
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.63	3.07 ug/ml	702826	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	59.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	35.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	27.00
4	3,5-Dimethylpyrazole	2747	000067-51-6	22.00
5	Benzene, fluoro-	2786	000462-06-6	18.00



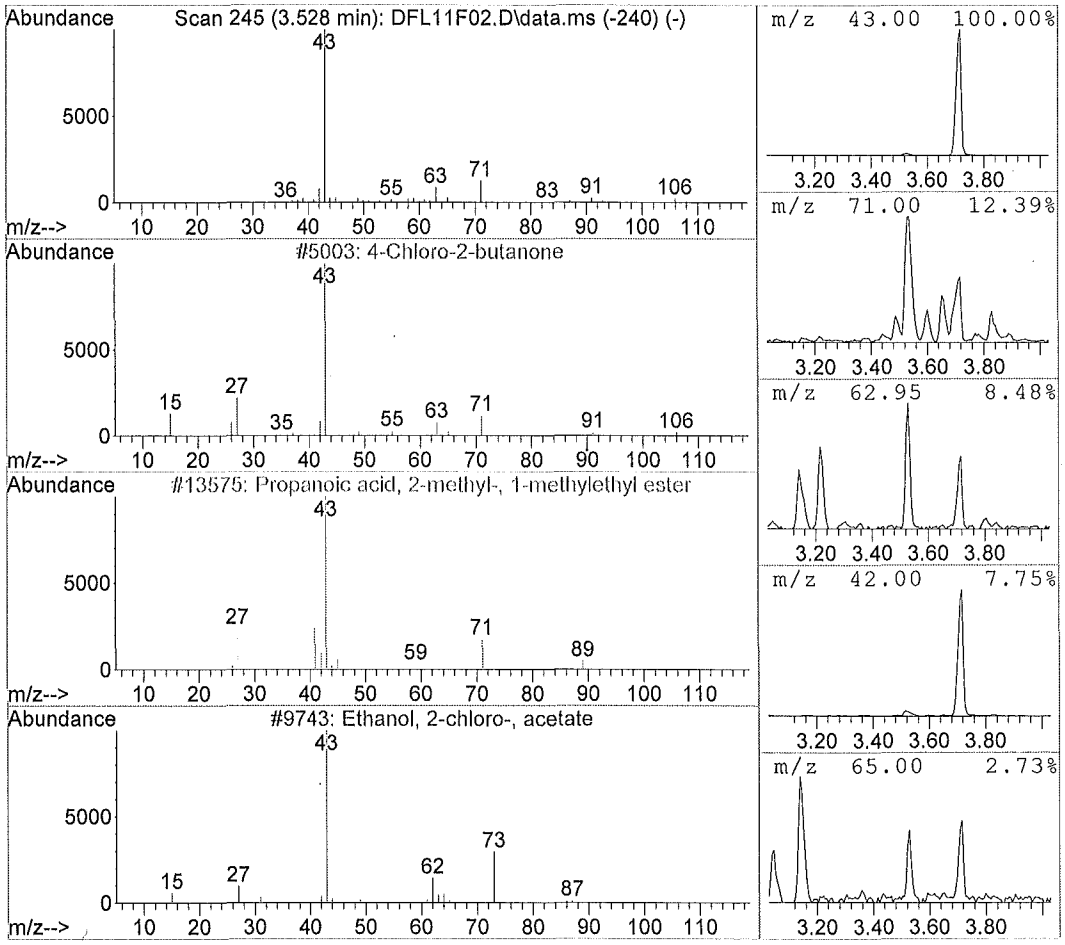
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.29 ug/ml	524657	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	52.00
2	Propanoic acid, 2-methyl-, 1-methyl	13575	000617-50-5	33.00
3	Ethanol, 2-chloro-, acetate	9743	000542-58-5	28.00
4	Acetyl chloride	988	000075-36-5	10.00
5	2-Butanone	651	000078-93-3	9.00



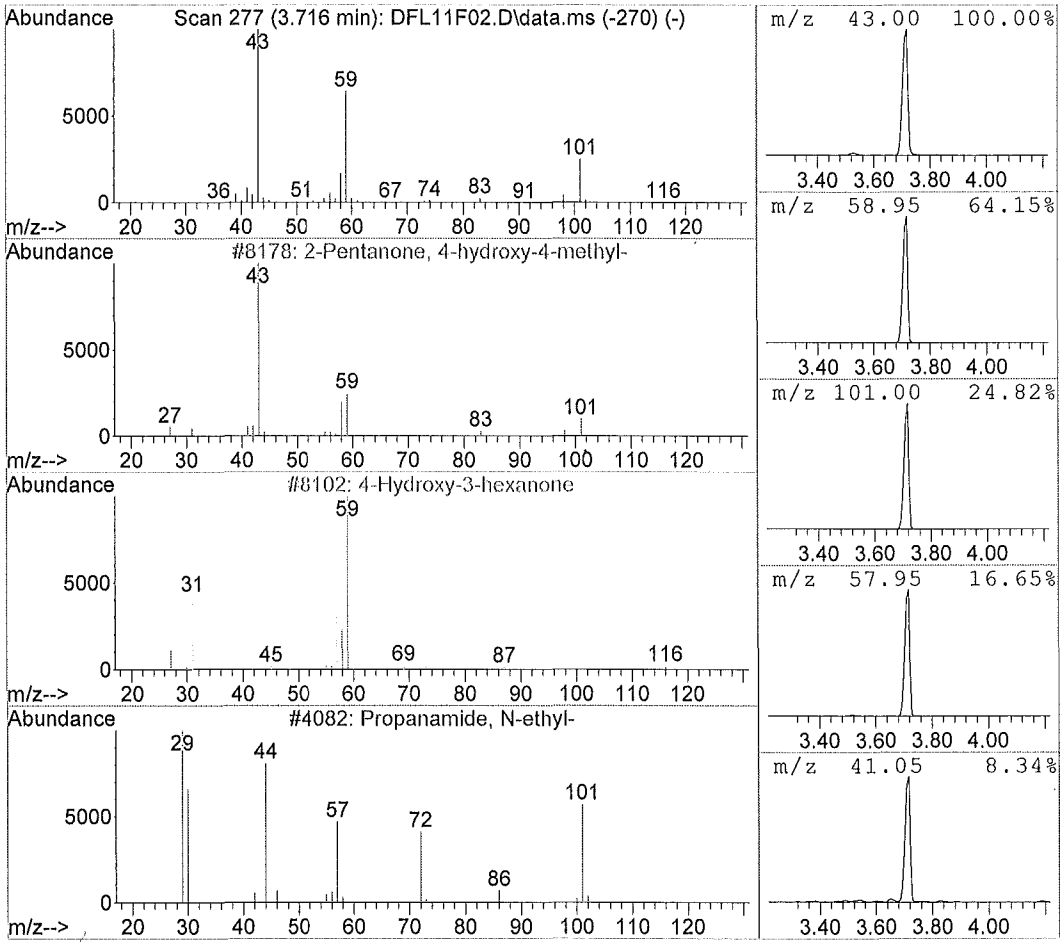
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	111.81 ug/ml	25625635	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	59.00
2	4-Hydroxy-3-hexanone	8102	004984-85-4	17.00
3	Propanamide, N-ethyl-	4082	005129-72-6	9.00
4	Formamide, N,N-diethyl-	4092	000617-84-5	9.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00



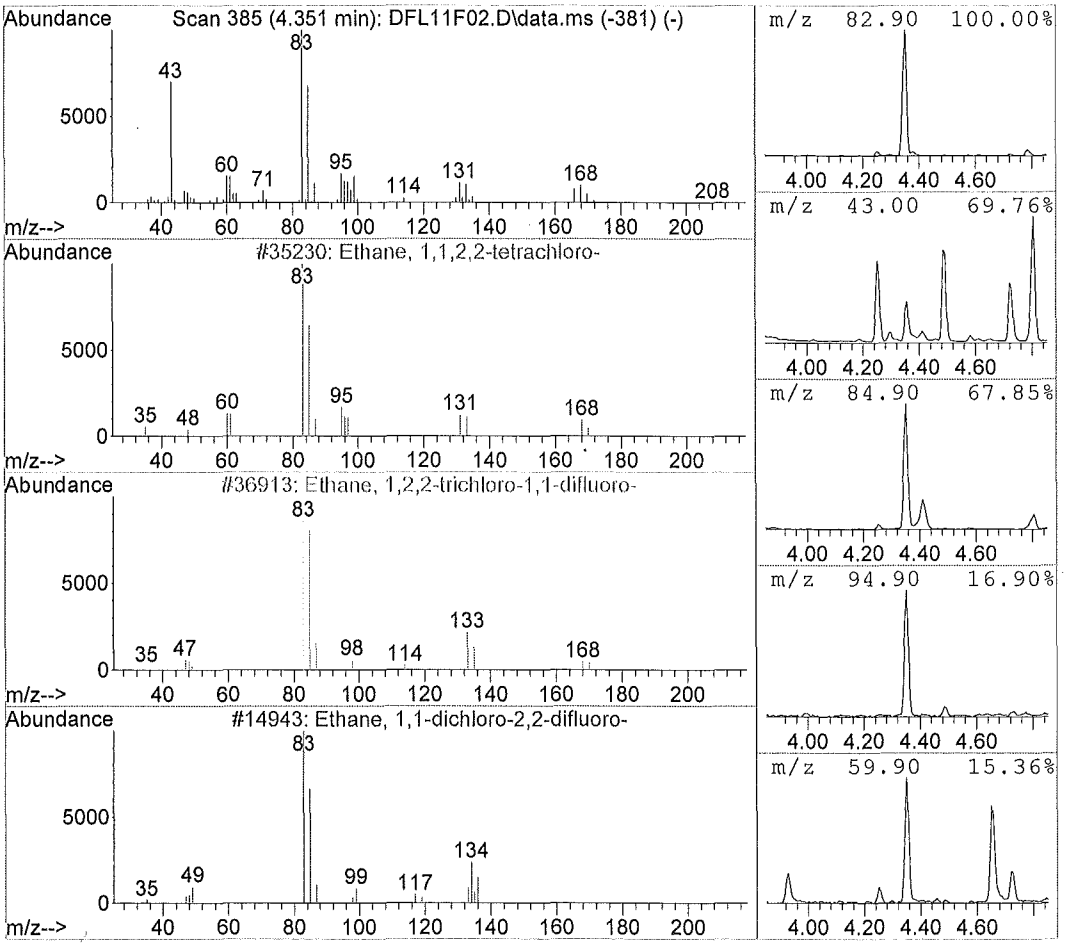
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	2.11 ug/ml	483222	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	98.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	70.00
3	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	59.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	50.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00



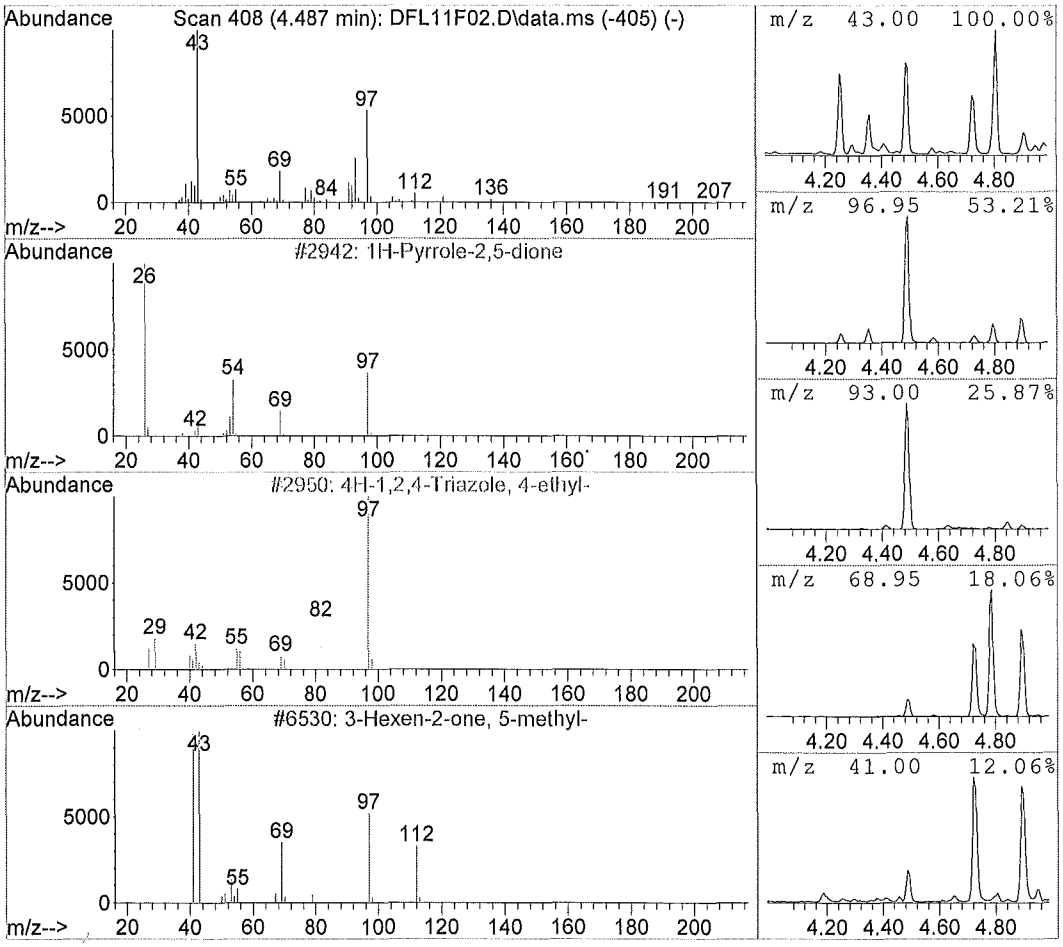
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	3.02 ug/ml	692739	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	25.00
2	4H-1,2,4-Triazole, 4-ethyl-	2950	043183-55-7	25.00
3	3-Hexen-2-one, 5-methyl-	6530	005166-53-0	25.00
4	5-Amino-3-methylpyrazole	2946	031230-17-8	22.00
5	Cyclohexane, 1,3-dimethyl-, cis-	6808	000638-04-0	17.00



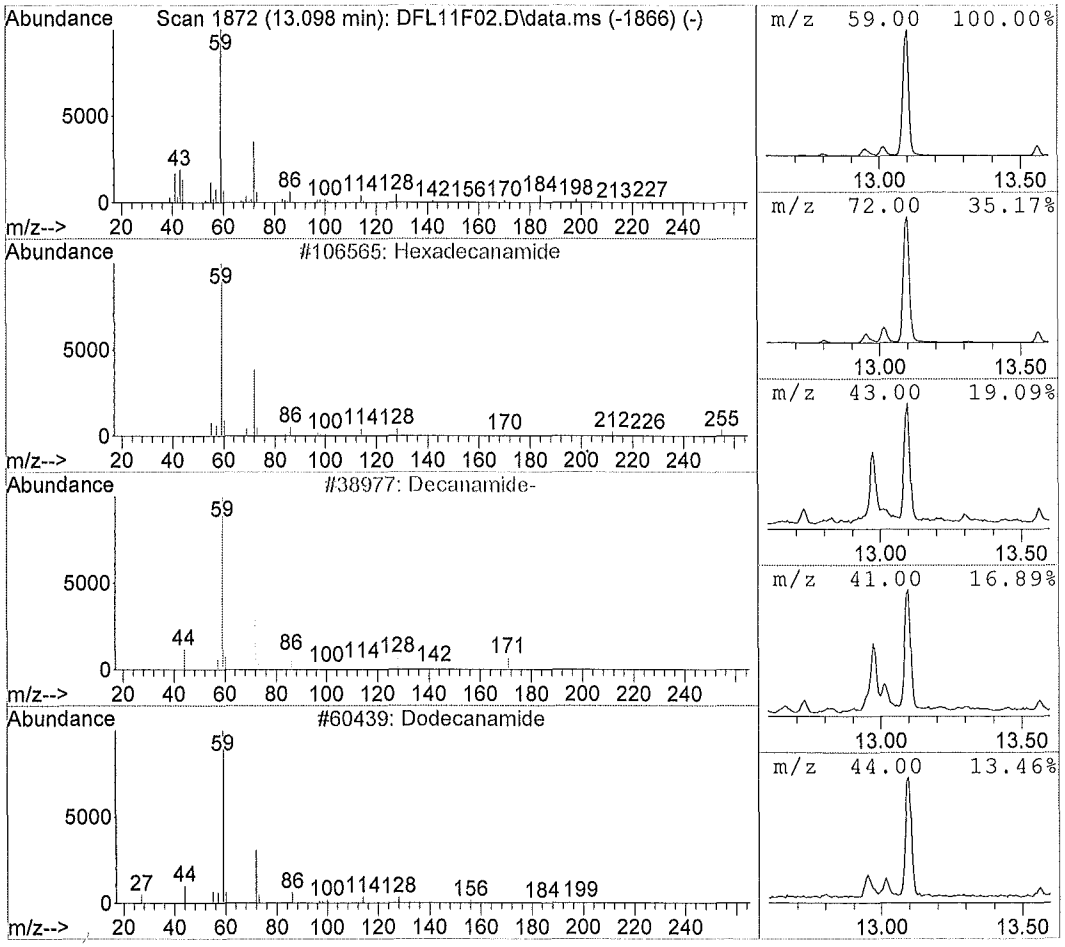
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.10	2.33 ug/ml	841003	Phenanthrene-d10	7229572

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Decanamide-	38977	002319-29-1	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Tetradecanamide	83609	000638-58-4	83.00
5	Nonanamide	29478	001120-07-6	78.00



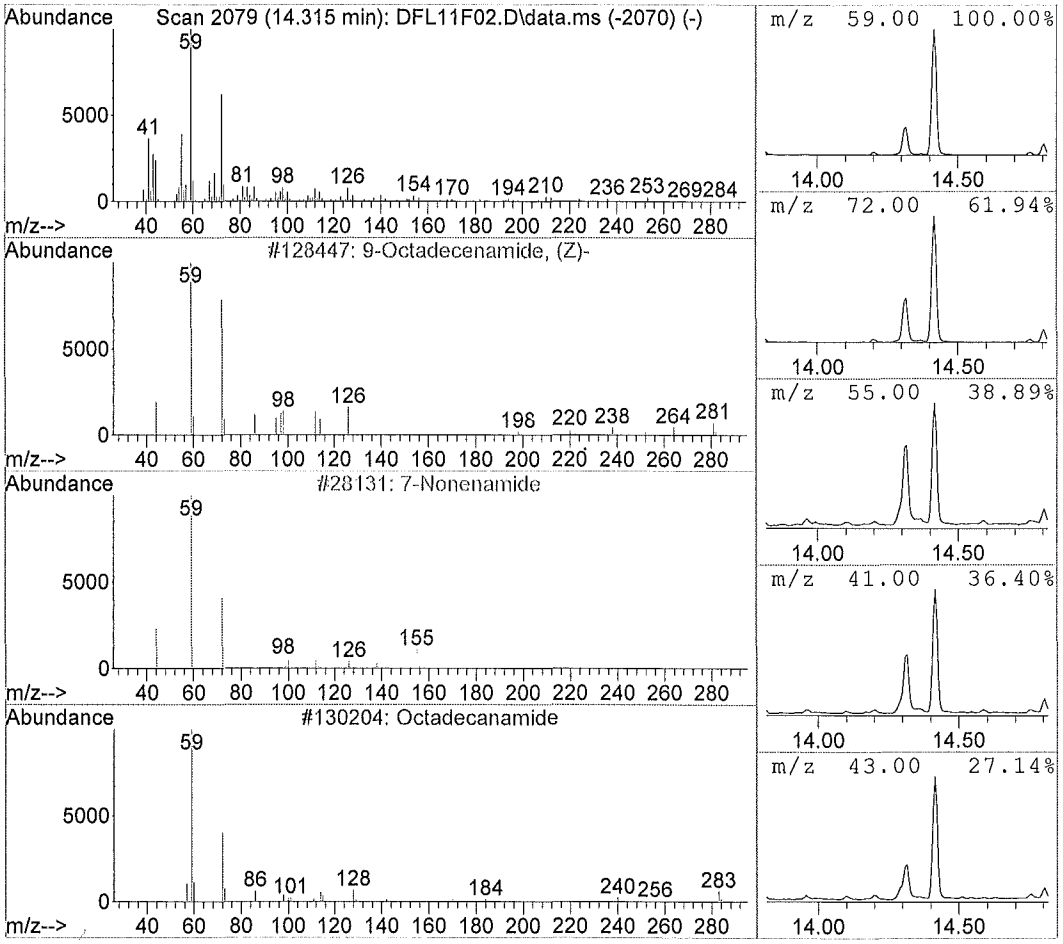
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.32	3.18 ug/ml	1469470	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Octadecanamide	130204	000124-26-5	64.00
4	Octanamide	20317	000629-01-6	59.00
5	Nonanamide	29478	001120-07-6	59.00



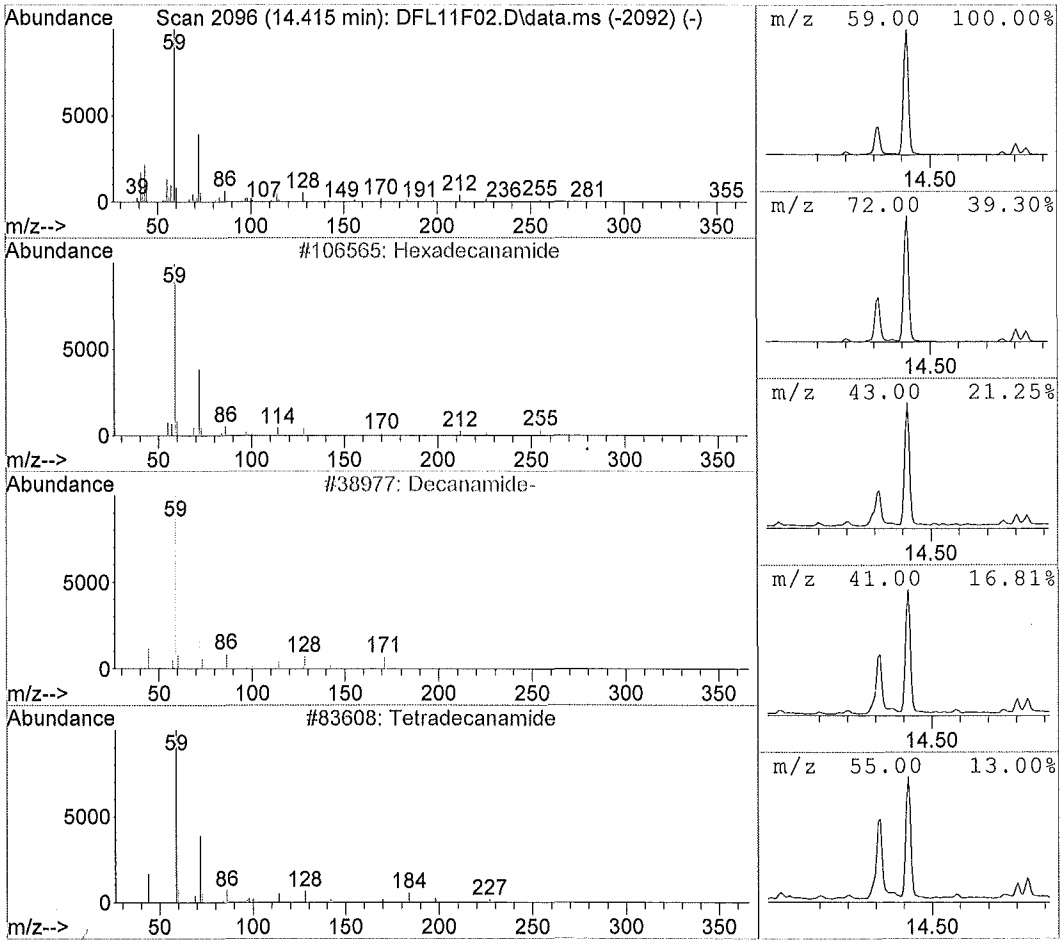
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	6.42 ug/ml	2967316	Chrysene-d12	9245956

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



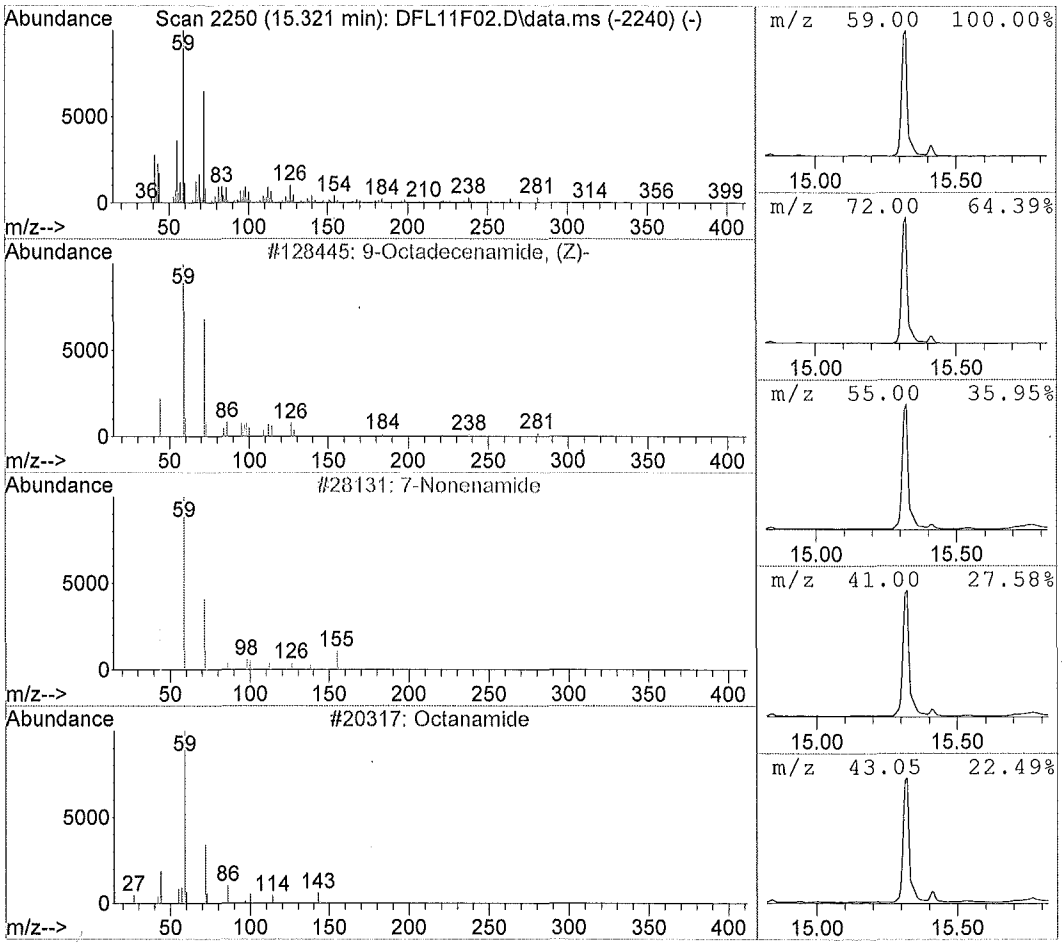
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	52.67 ug/ml	24348949	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	7-Nonenamide	28131	090949-53-4	56.00
3	Octanamide	20317	000629-01-6	53.00
4	Nonanamide	29478	001120-07-6	50.00
5	14-Hydroxy-14-methylpentadecanoic a	121120	091544-39-7	47.00



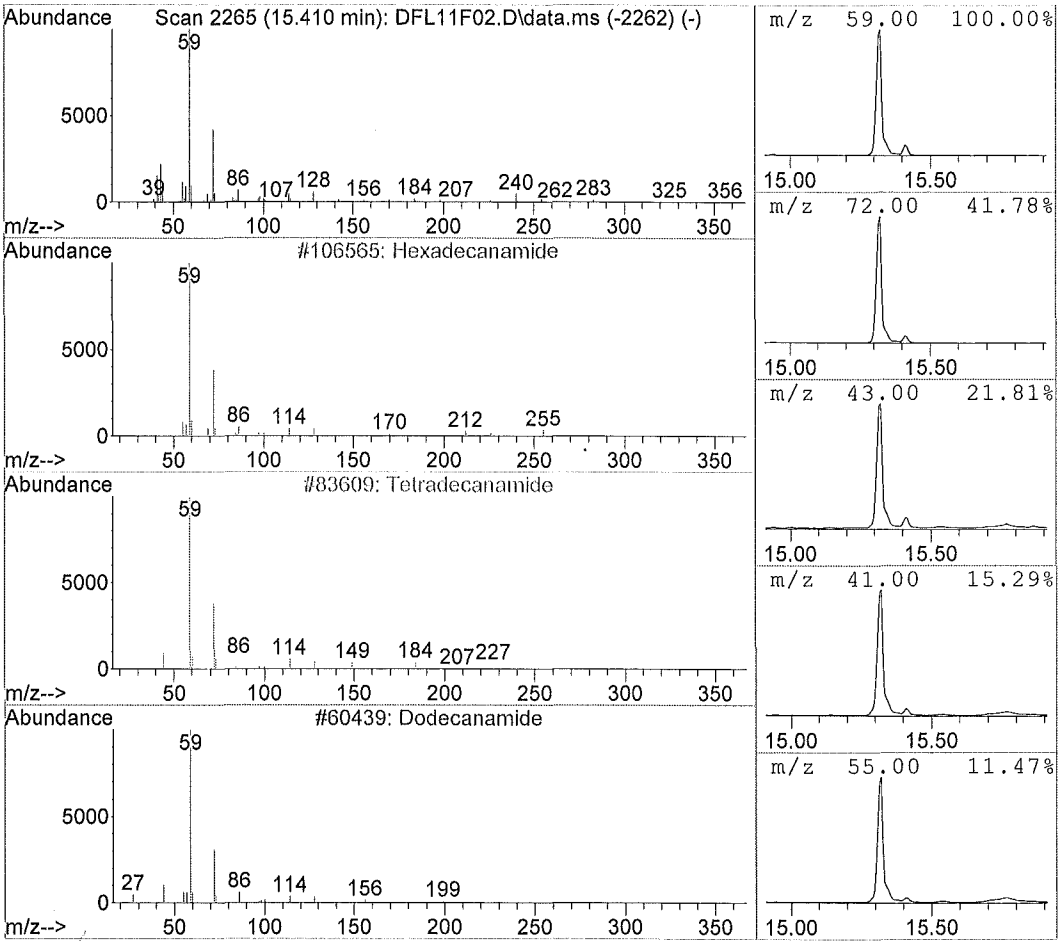
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.47 ug/ml	1143108	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Nonadecanamide	142051	058185-32-3	64.00
5	Decanamide-	38977	002319-29-1	64.00



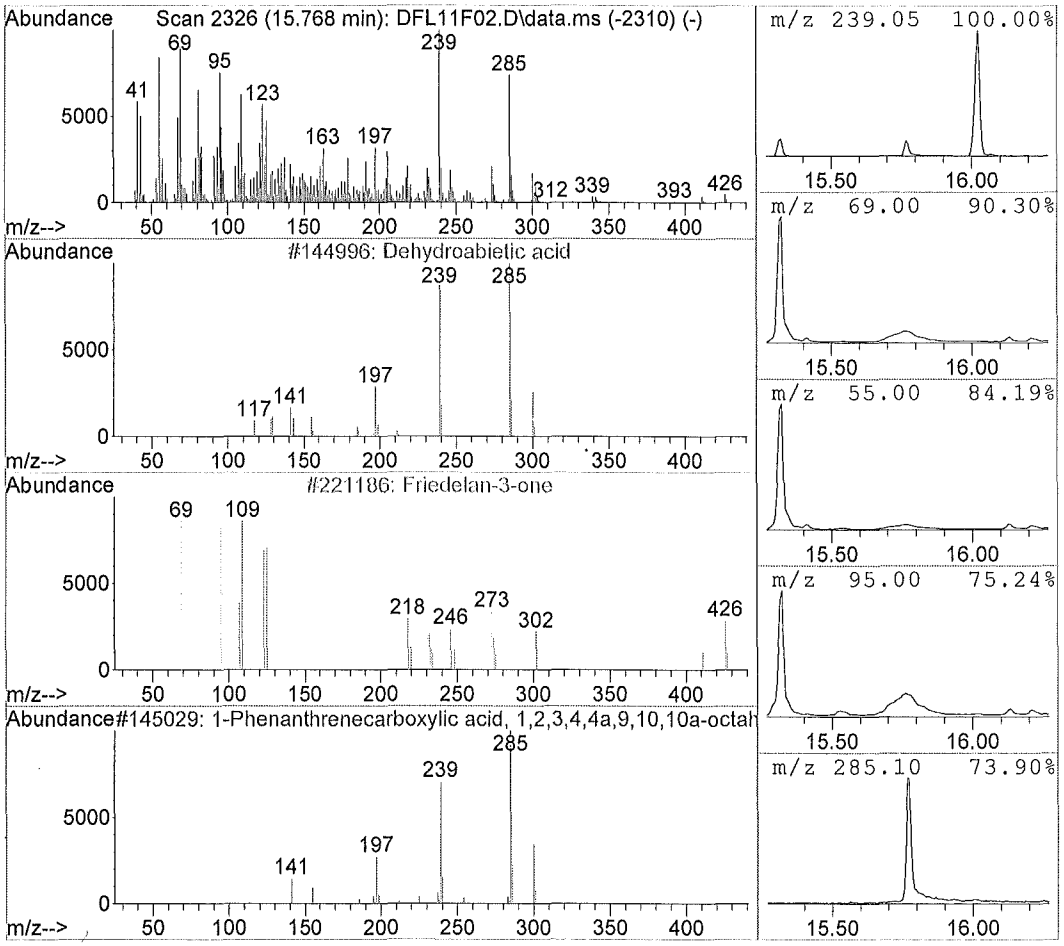
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.77	9.38 ug/ml	4335019	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dehydroabietic acid	144996	001740-19-8	94.00
2	Friedelan-3-one	221186	000559-74-0	74.00
3	1-Phenanthrenecarboxylic acid, 1,2,	145029	005155-70-4	70.00
4	3-Quinolinecarboxylic acid, 4-hydro	131626	023851-84-5	38.00
5	Ethyl 4-hydroxy-7-trifluoromethyl-3	131625	000391-02-6	25.00



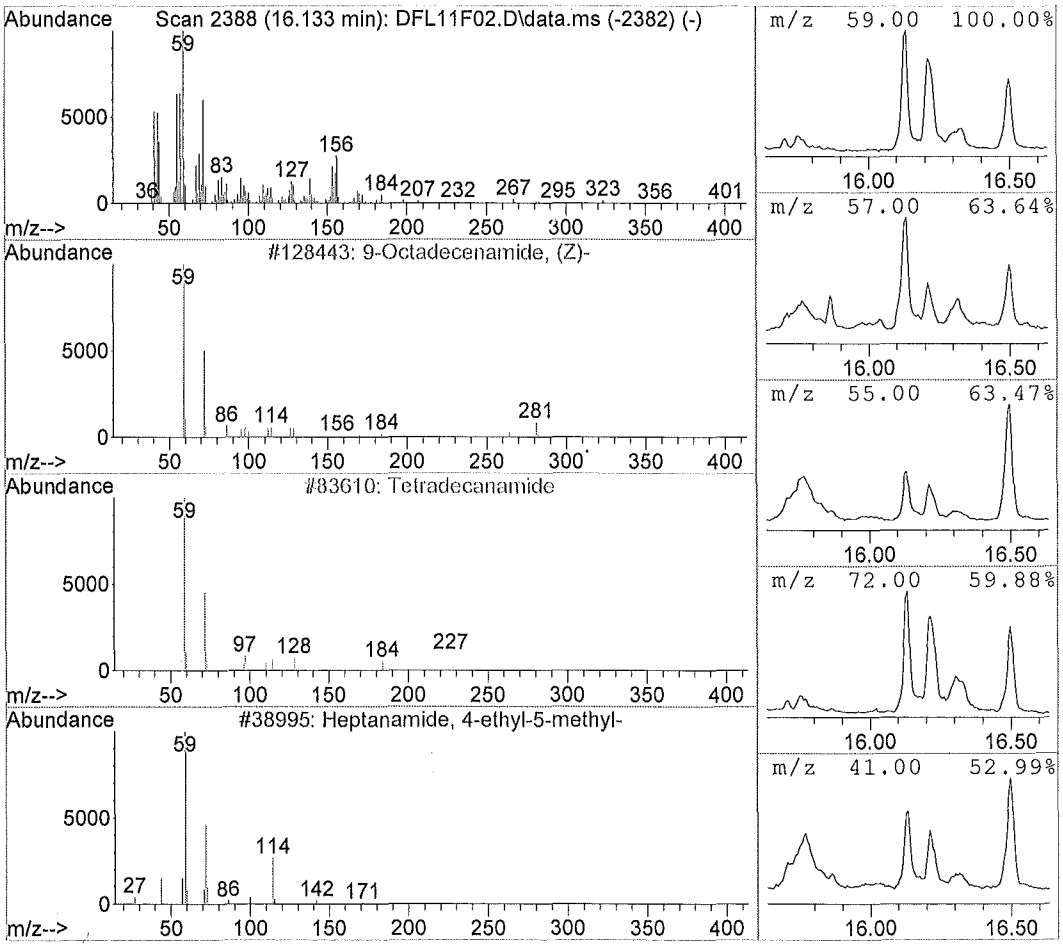
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.22 ug/ml	1028341	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	92.00
2	Tetradecanamide	83610	000638-58-4	60.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	46.00
4	Dodecanamide	60439	001120-16-7	38.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	35.00



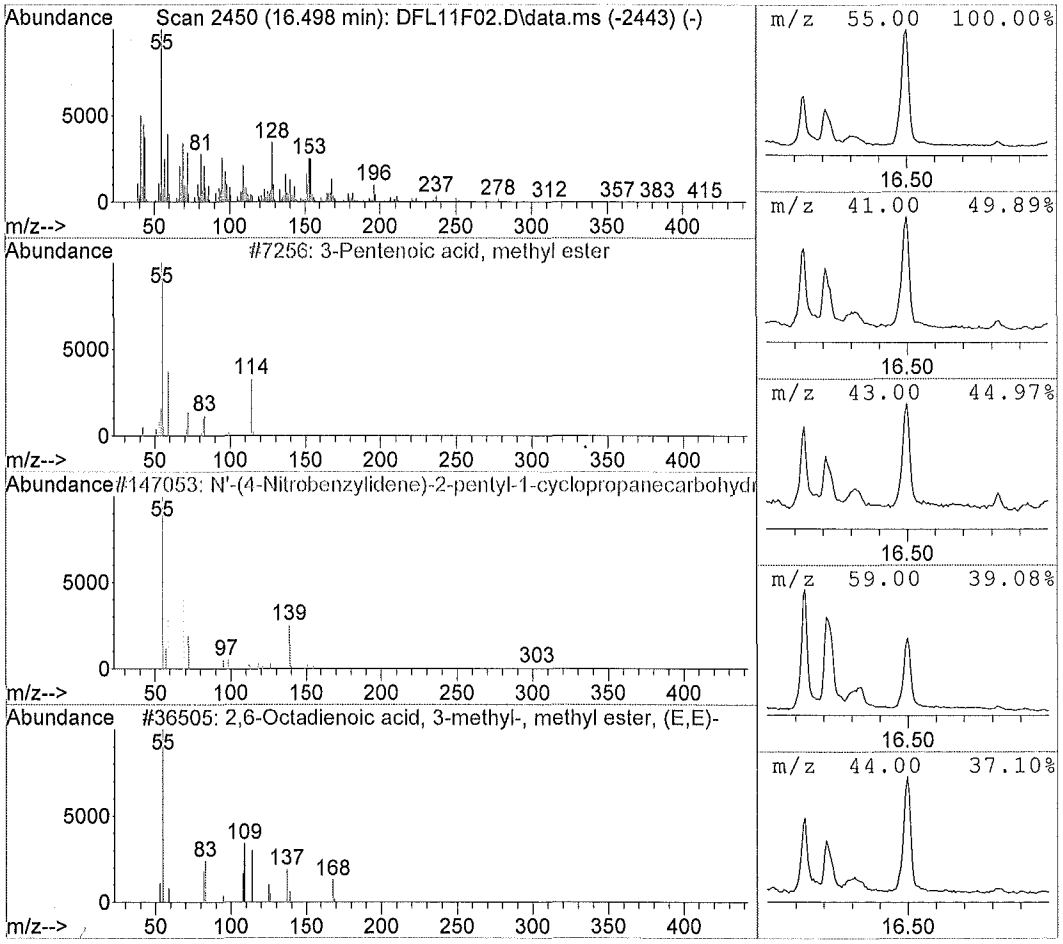
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	4.26 ug/ml	1969579	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	12.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
4	Propanoic acid, 3-bromo-, ethyl est	45856	000539-74-2	9.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	9.00



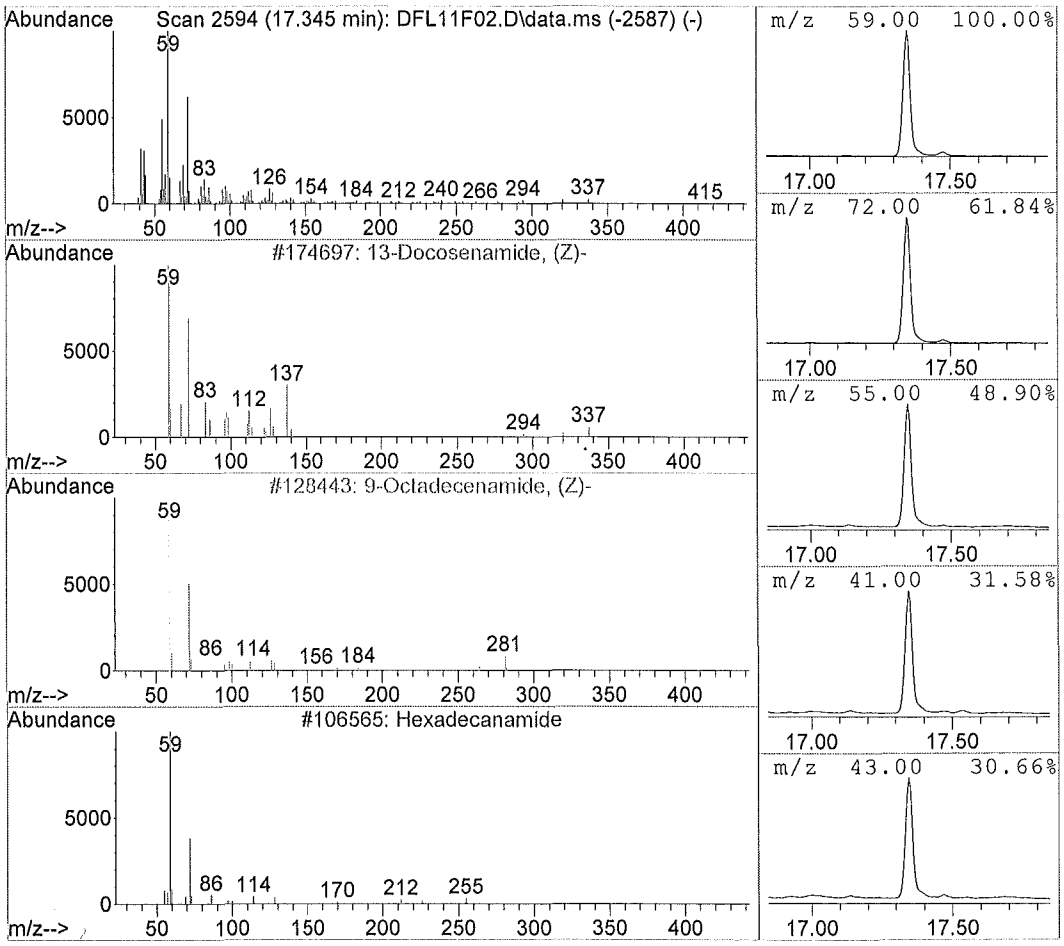
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	14.93 ug/ml	6653348	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
3	Hexadecanamide	106565	000629-54-9	78.00
4	Octanamide	20317	000629-01-6	59.00
5	Hexanamide	7791	000628-02-4	49.00



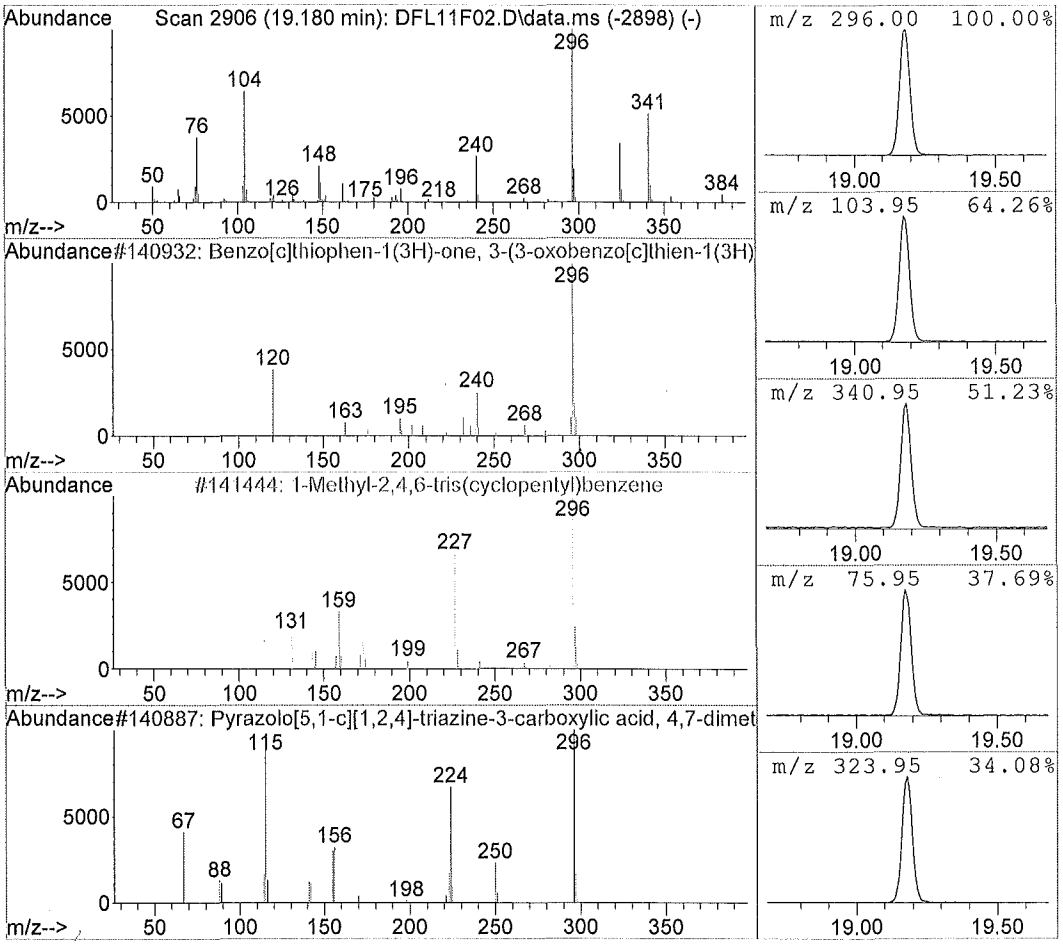
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	2.46 ug/ml	1096179	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
3	Pyrazolo[5,1-c][1,2,4]-triazine-3-c	140887	077632-06-5	22.00
4	Bithiophthalide	140931	032819-84-4	16.00
5	Phthalic anhydride	23154	000085-44-9	14.00

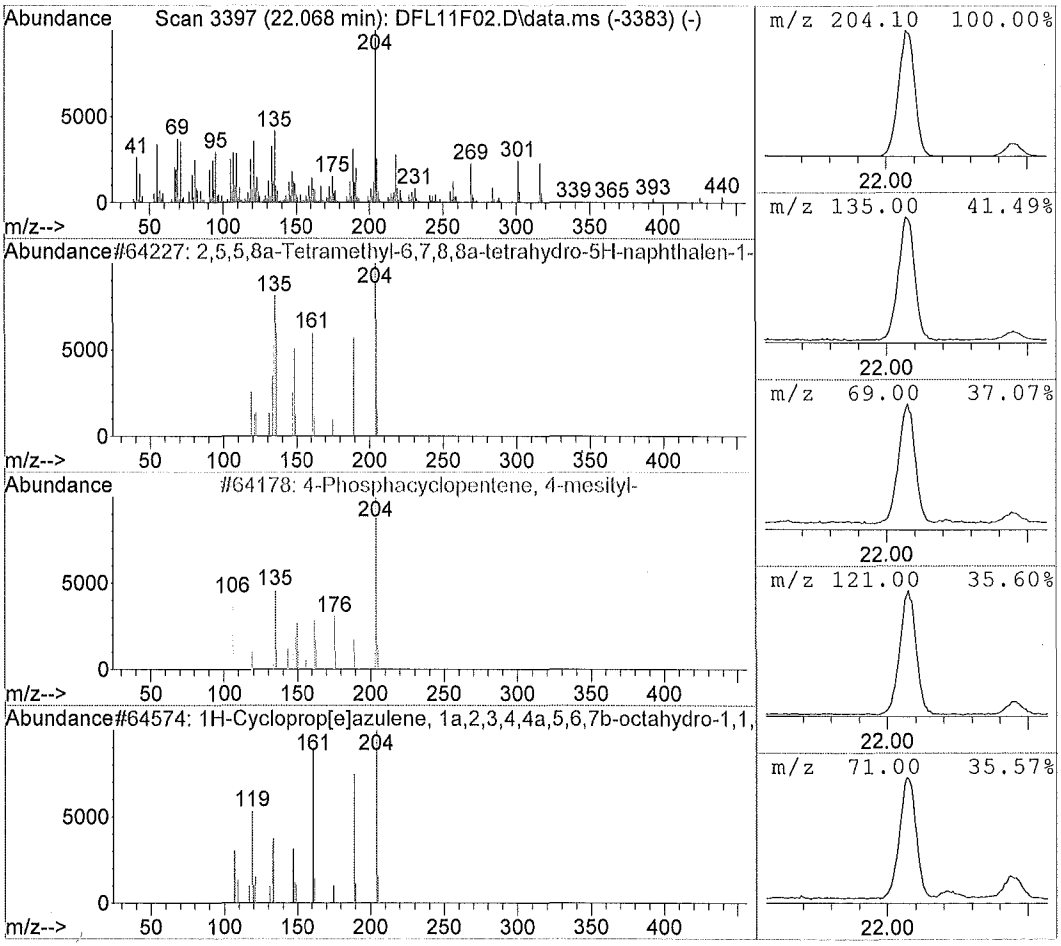


Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	15.34 ug/ml	6835053	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	42.00
4	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	41.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00



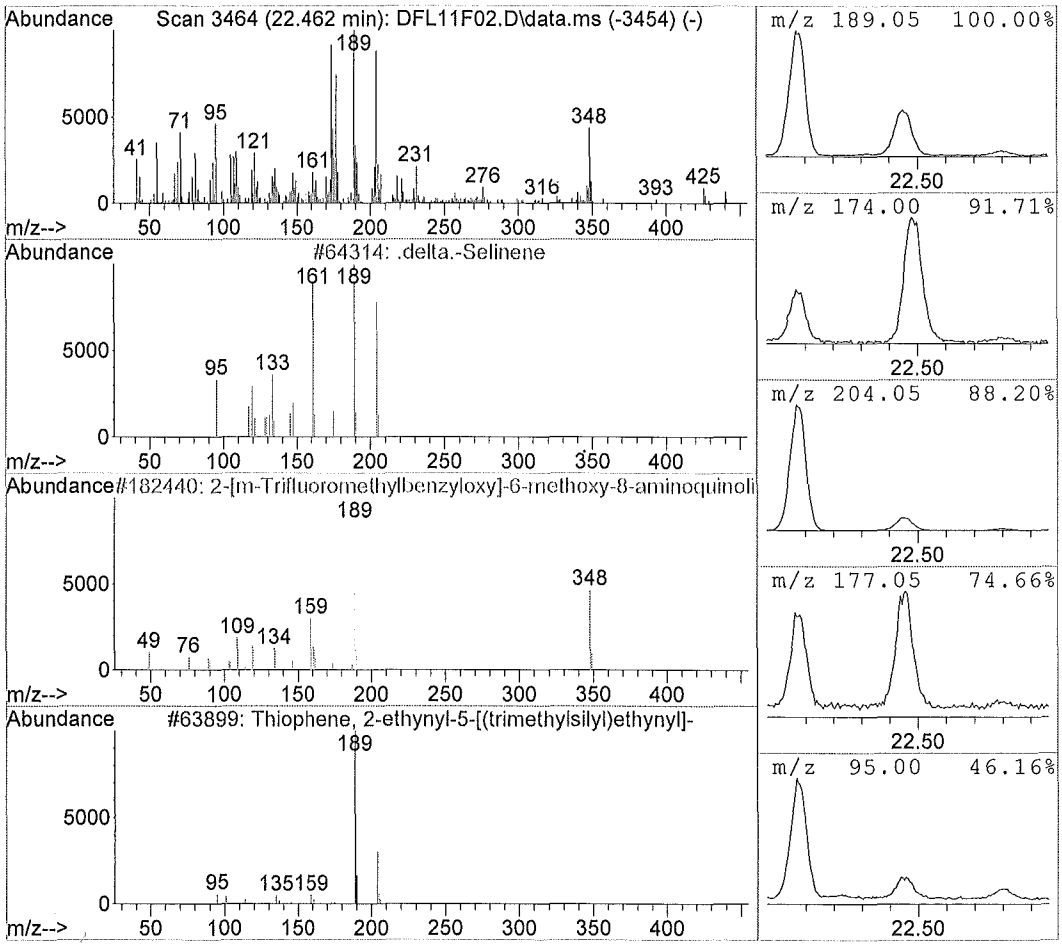
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.46	2.10 ug/ml	936948	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.delta.-Selinene	64314	028624-23-9	41.00
2	2-[m-Trifluoromethylbenzyloxy]-6-me	182440	063624-55-5	35.00
3	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	30.00
4	2-Naphthalenemethanol, 1,2,3,4,4a,5	79488	001209-71-8	30.00
5	Guanidine, 1-(4-methoxy-6-methylqui	86533	331841-06-6	30.00



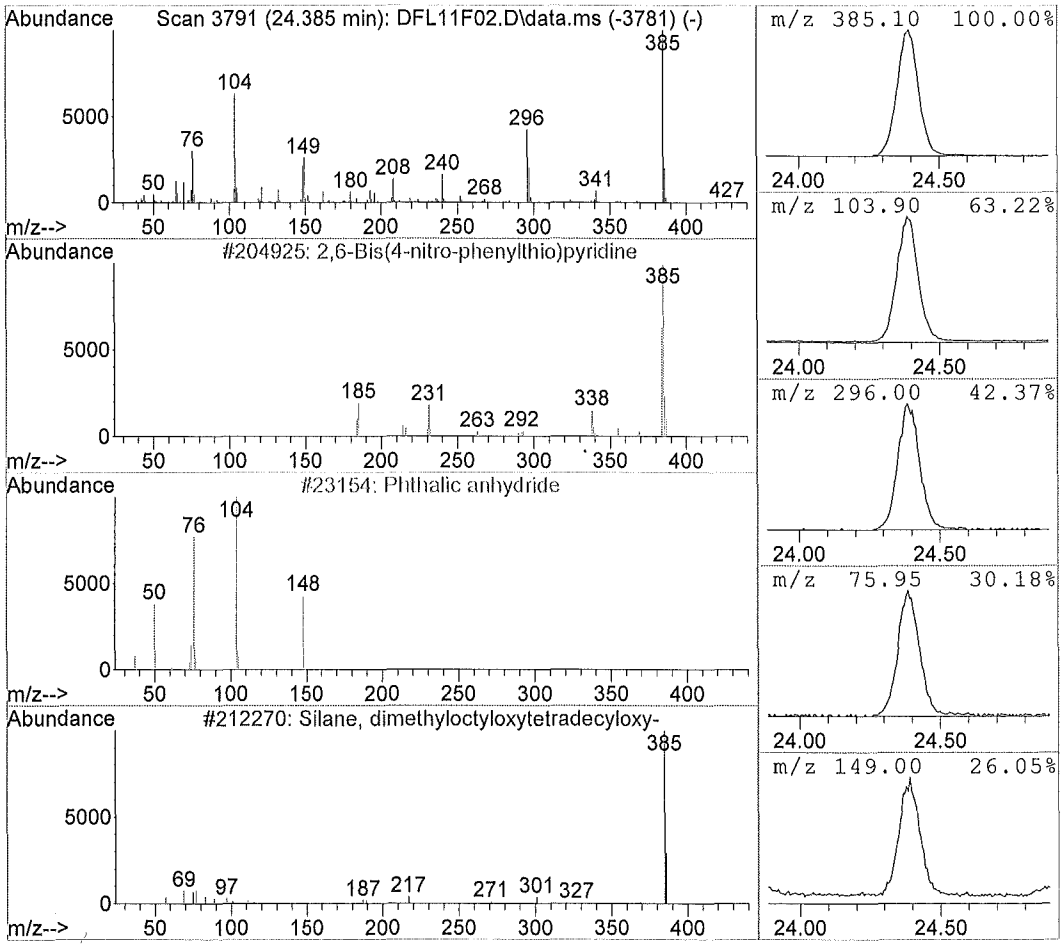
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.39	2.92 ug/ml	1302920	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	25.00
2	Phthalic anhydride	23154	000085-44-9	14.00
3	Silane, dimethyloctyloxytetradecylo	212270	1000346-75-1	10.00
4	Silane, diethyldecyloxyundecyloxy-	217317	1000363-32-9	10.00
5	Silane, dimethylnonyloxytridecyloxy	212262	1000356-05-2	10.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL12F03

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL12F03

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL12F03

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.26	87.	J
02	78-95-5	2-Propanone, 1-chloro-	2.48	77.	JNB
03		Unknown Acetaldehyde, O-ethyloxime-	2.53	260	J
04	625-86-5	Furan, 2,5-dimethyl-	2.63	110	JNB
05		Unknown 4-Chloro-2-butanone	3.52	90.	JB
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4700	JB
07		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.45	82.	J
08	638-58-4	Tetradecanamide	13.09	78.	JN
09		Unknown 9-Octadecenamide, (Z)-	14.31	120	JB
10	629-54-9	Hexadecanamide	14.42	240	JNB
11	301-02-0	9-Octadecenamide, (Z)-	15.32	2200	JNB
12	124-26-5	Octadecanamide	15.41	91.	JNB
13		Unknown 3-Pentenoic acid, methyl ester	16.50	130	J
14	112-84-5	13-Docosenamide, (Z)-	17.34	250	JN
15		Unknown 5-(2-Chlorophenyl)-3-[5-(trifluoromethyl	19.18	260	J
16		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	300	J
17		Unknown Hexadecanoic acid, 4-nitrophenyl ester	22.22	100	J
18		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.39	310	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

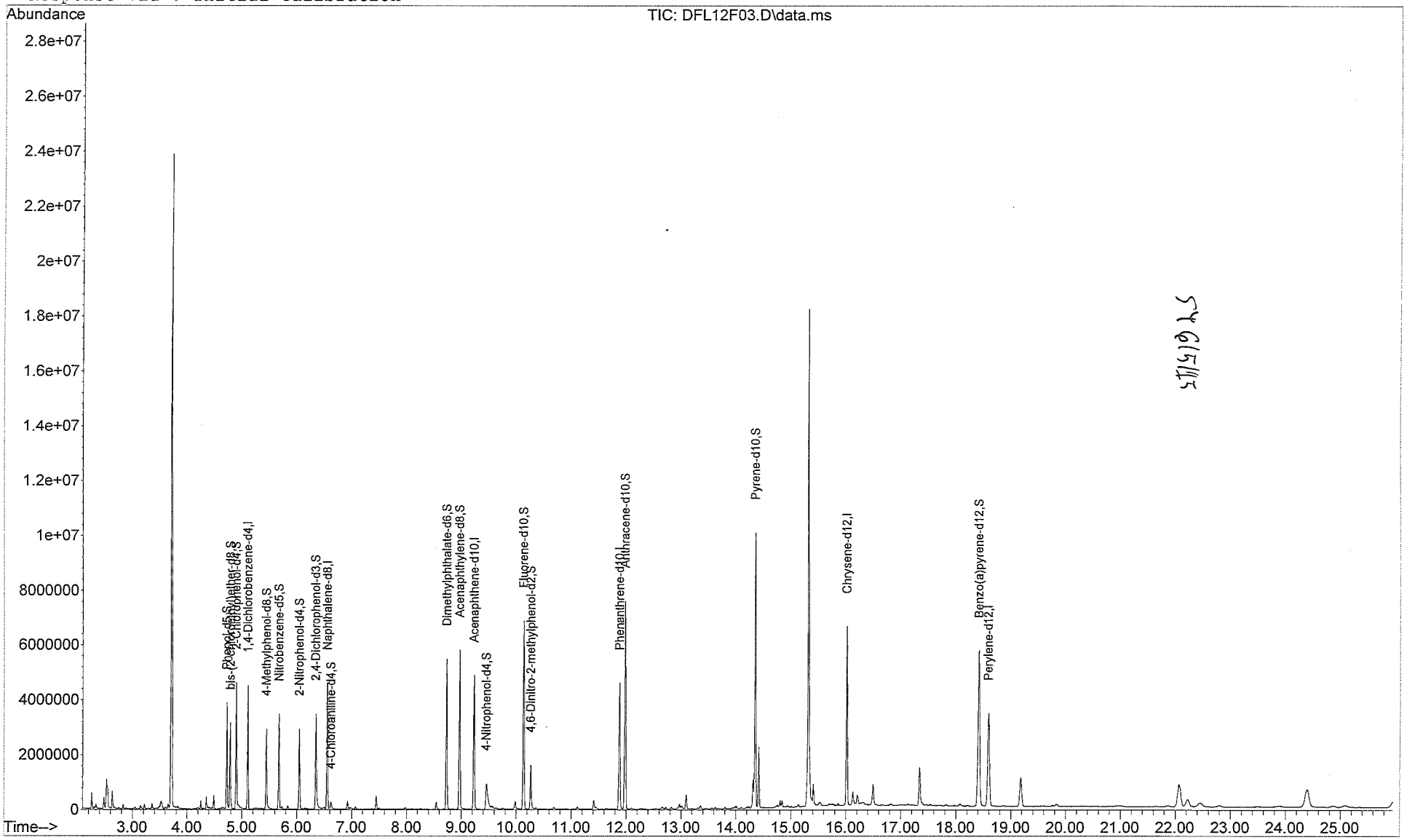
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:16:23 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:23 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	806611	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2718683	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1670624	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2860153	20.00 ug/ml
73) Chrysene-d12	16.02	240	3287845	20.00 ug/ml
81) Perylene-d12	18.59	264	3097343	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1408130	28.050ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	831465	22.635ug/mL
7) 2-Chlorophenol-d4	4.89	132	1313294	26.245ug/ml
13) 4-Methylphenol-d8	5.45	113	754630	20.054ug/mL
17) Nitrobenzene-d5	5.67	128	557436	25.034ug/ml
21) 2-Nitrophenol-d4	6.05	143	692923	26.241ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1132014	26.528ug/mL
28) 4-Chloroaniline-d4	6.62	131	139730	4.359ug/mL
42) Dimethylphthalate-d6	8.73	166	3447313	33.468ug/mL
45) Acenaphthylene-d8	8.97	160	3773369	27.822ug/mL
50) 4-Nitrophenol-d4	9.46	143	501400	29.309ug/mL
57) Fluorene-d10	10.13	176	2819179	30.974ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	442029	24.473ug/mL
69) Anthracene-d10	11.98	188	5022332	34.275ug/mL
75) Pyrene-d10	14.35	212	5038956	36.393ug/mL
86) Benzo(a)pyrene-d12	18.42	264	4980191	35.134ug/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)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:23 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

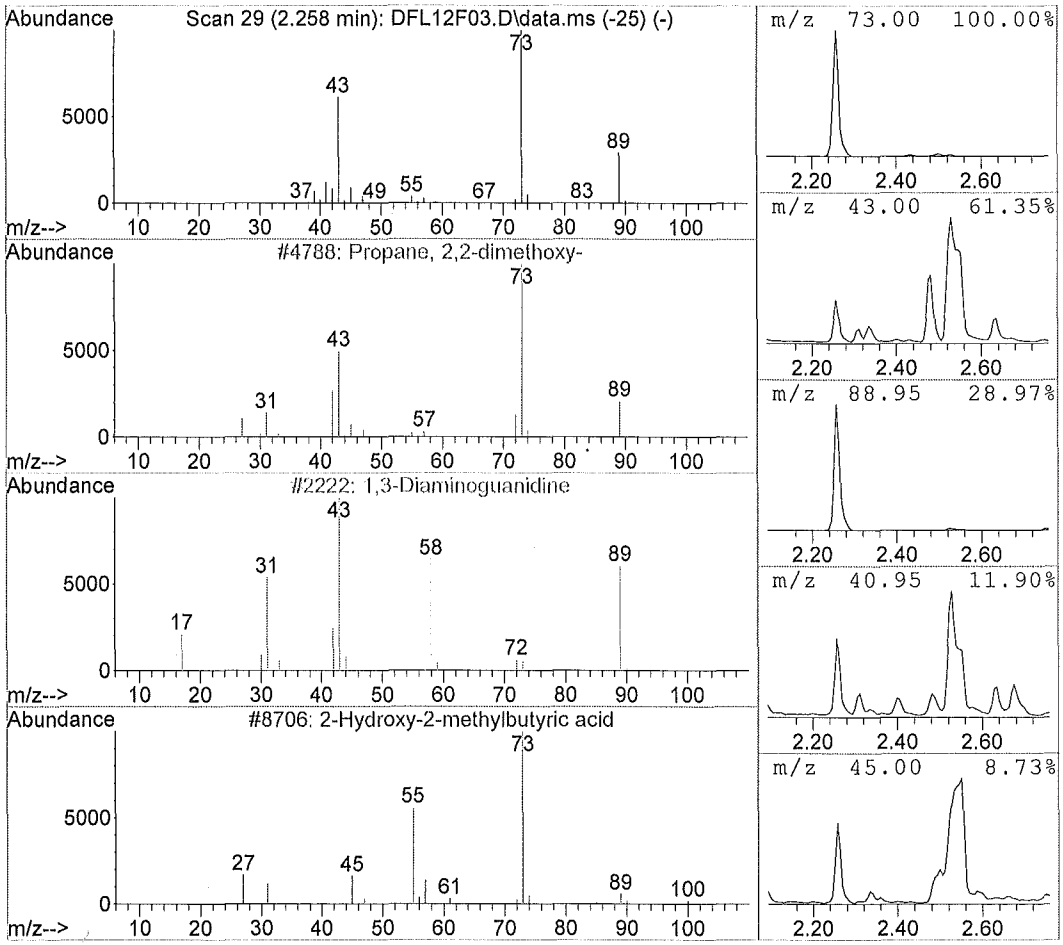
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.26	2.27 ug/ml	540652	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	56.00
2	1,3-Diaminoguanidine	2222	004364-78-7	9.00
3	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
4	Propane, 2-methoxy-2-methyl-	2136	001634-04-4	9.00
5	Oxirane-2-carboxylic acid, ethyl es	8052	1000192-50-3	9.00



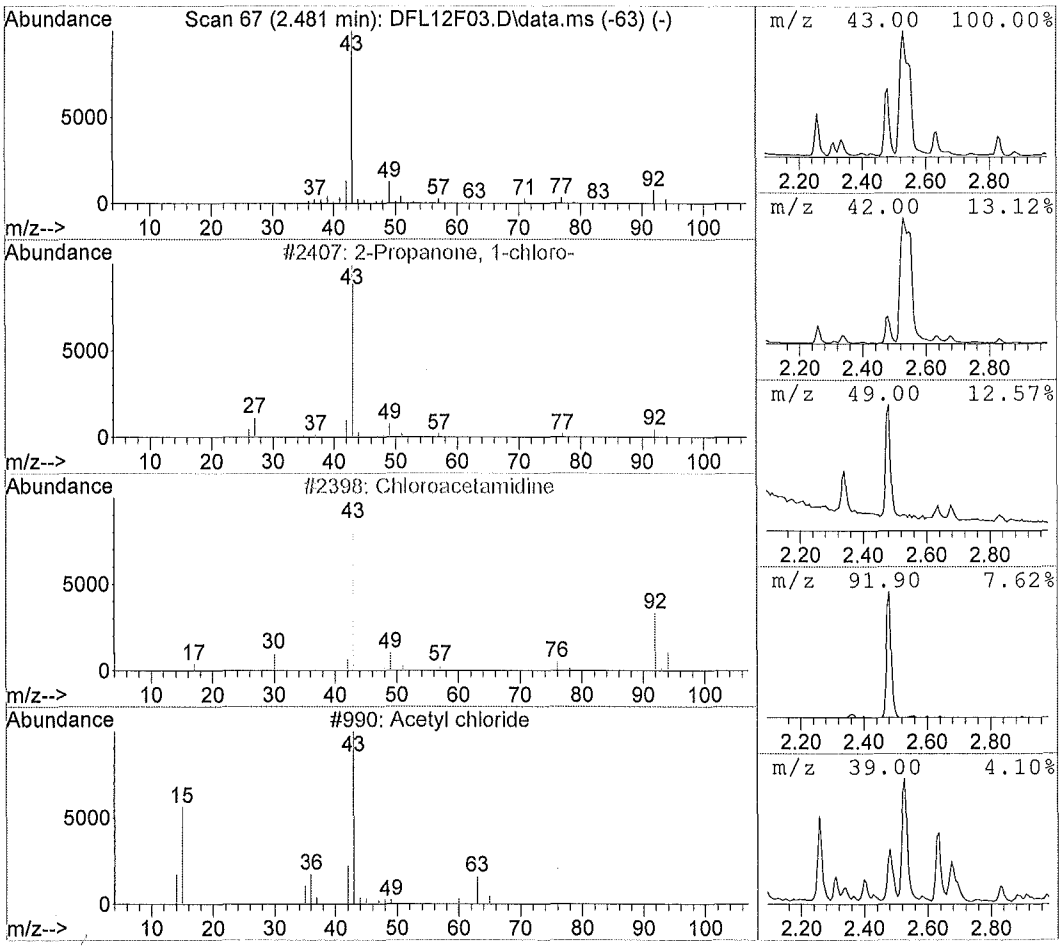
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.01 ug/ml	477155	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Acetyl chloride	990	000075-36-5	17.00
4	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
5	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00



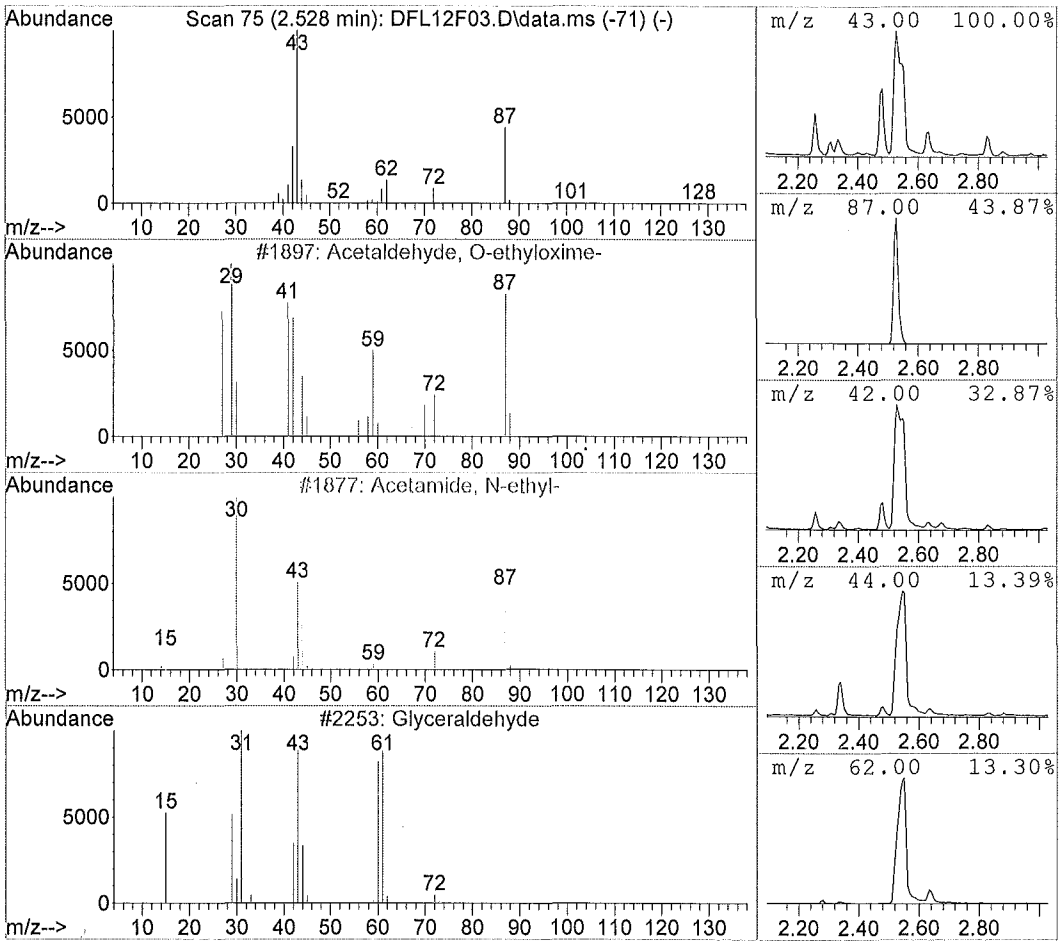
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.53	6.81 ug/ml	1620765	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	32.00
2	Acetamide, N-ethyl-	1877	000625-50-3	9.00
3	Glyceraldehyde	2253	000056-82-6	9.00
4	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	9.00
5	dl-Glyceraldehyde dimer	45907	026793-98-6	9.00



Library Search Compound Report

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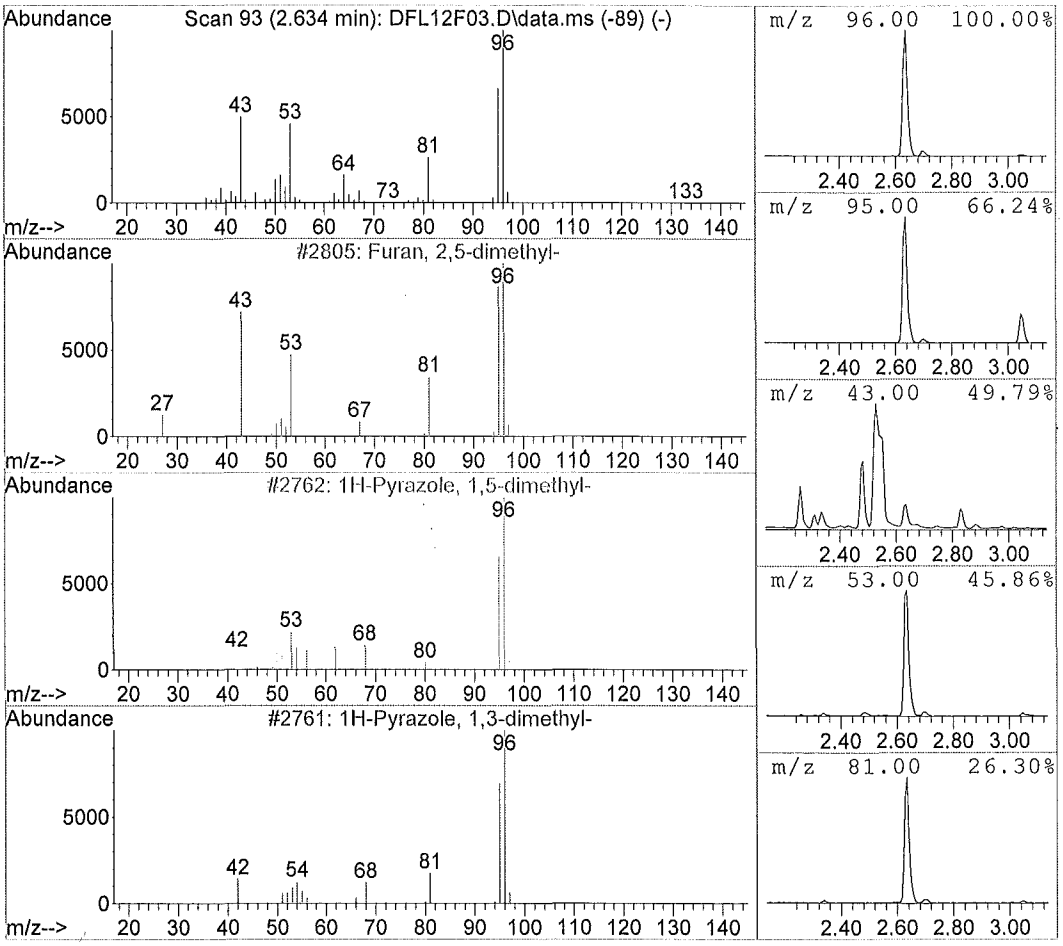
Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On    : 05/27/2015 15:00                             Operator: DJC
Sample    : 1514052003  F9K73                            Inst    : 5975-D
Misc      : . SOIL SOM                                   Injection volume : 1uL
MS Integration Params: rteint.p

Method    : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title     : EPA/CLP SOM01
Library   : C:\Database\NIST11.L
```

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.63	2.93 ug/ml	698259	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	90.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	32.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	27.00
4	3,5-Dimethylpyrazole	2747	000067-51-6	22.00
5	2-Cyclopenten-1-one, 3-methyl-	2821	002758-18-1	22.00



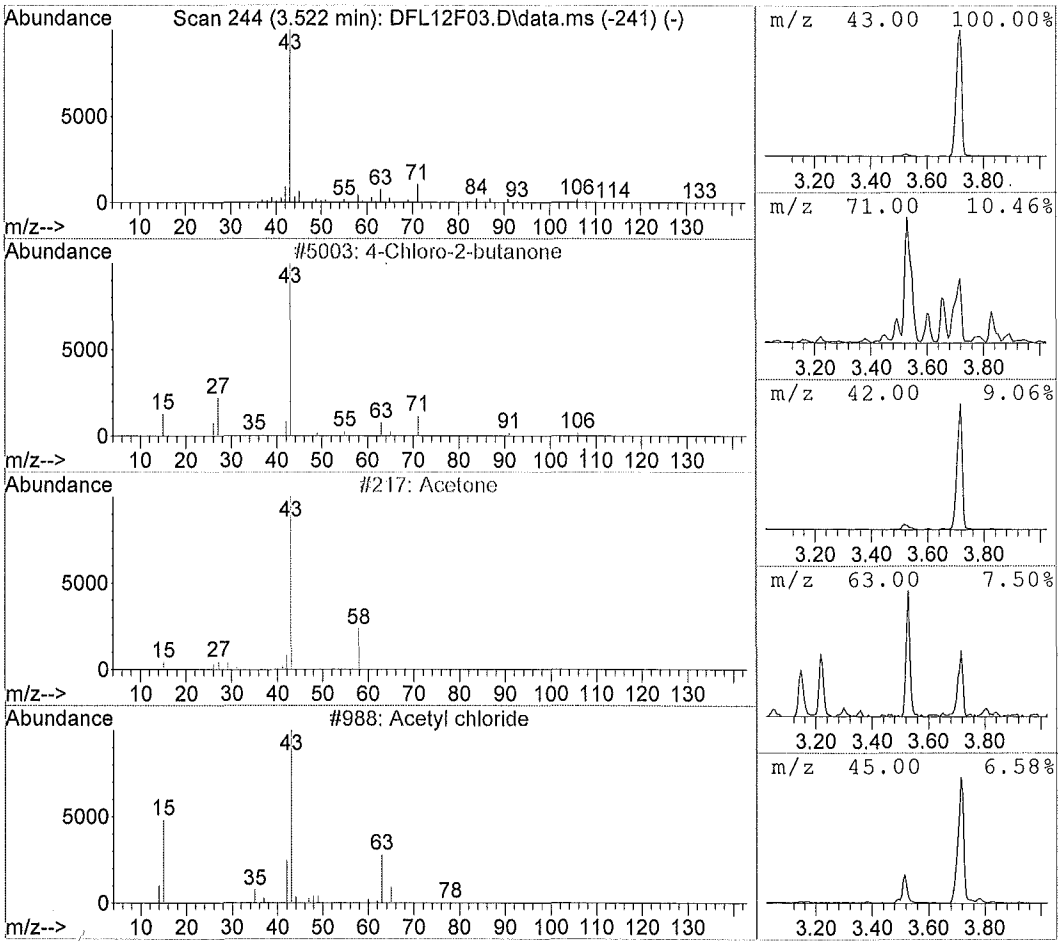
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.35 ug/ml	559114	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	64.00
2	Acetone	217	000067-64-1	23.00
3	Acetyl chloride	988	000075-36-5	9.00
4	Ethanol, 2-chloro-, acetate	9743	000542-58-5	9.00
5	Propanoic acid, 2-chloro-, pentyl e	44438	086711-71-9	9.00



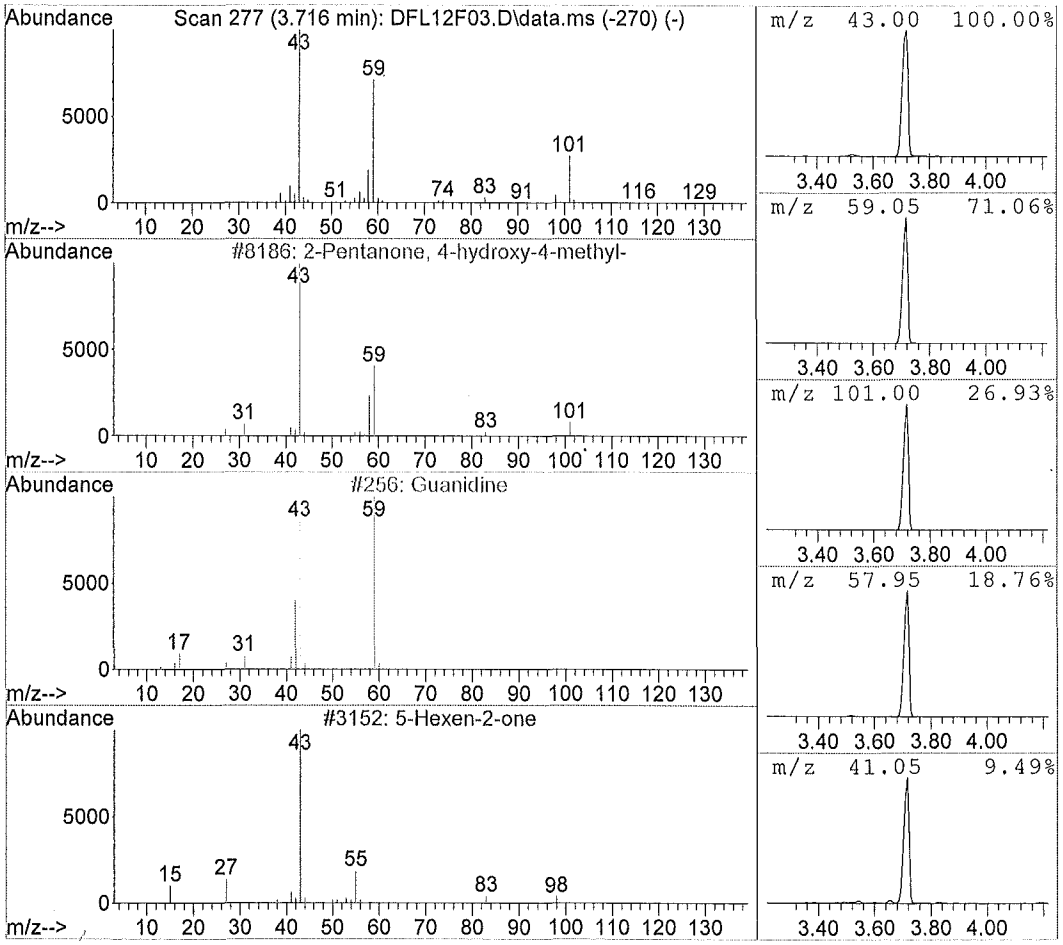
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	123.60 ug/ml	29414593	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	43.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	Butane, 1-ethoxy-	4425	000628-81-9	9.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00



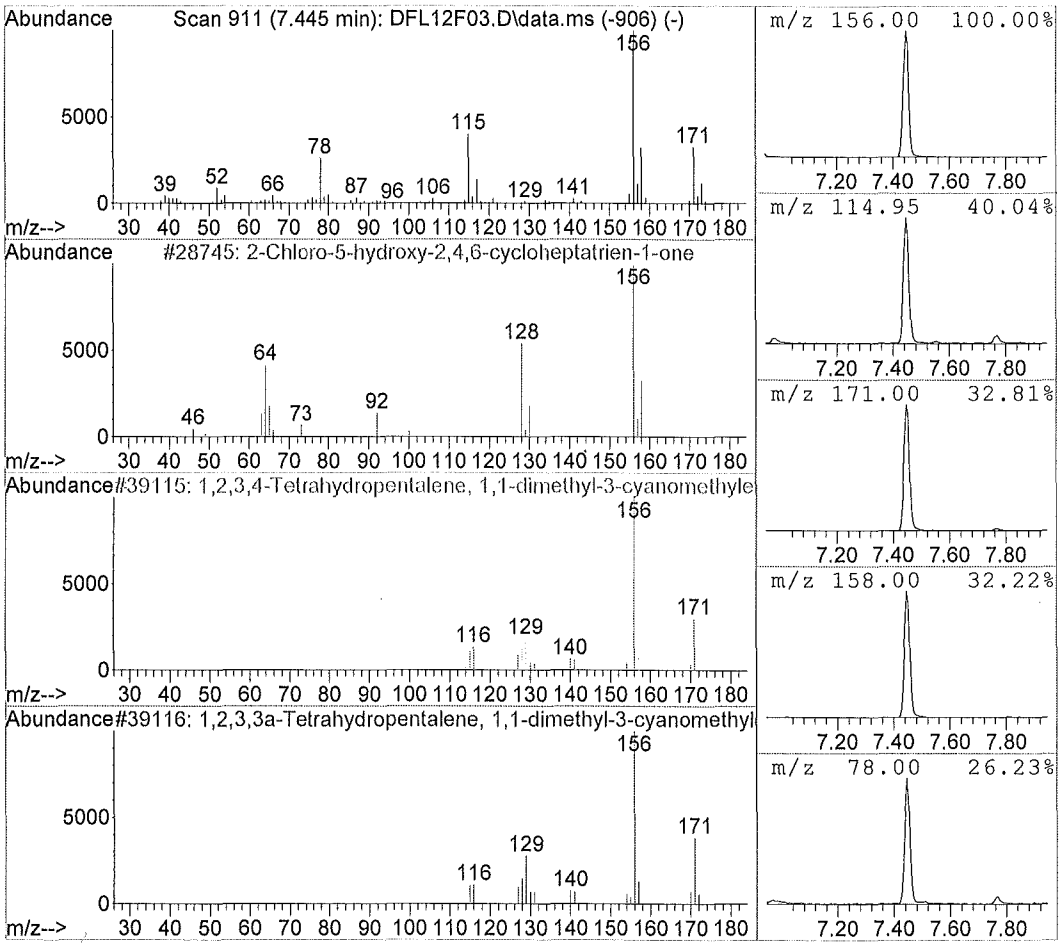
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.45	2.14 ug/ml	607215	Naphthalene-d8	5676280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	43.00
3	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00
4	Bicyclo[3.2.0]hept-2-ene, 4-isoprop	39117	1000217-15-6	32.00
5	6-Isopropylquinoline	39076	000135-79-5	32.00



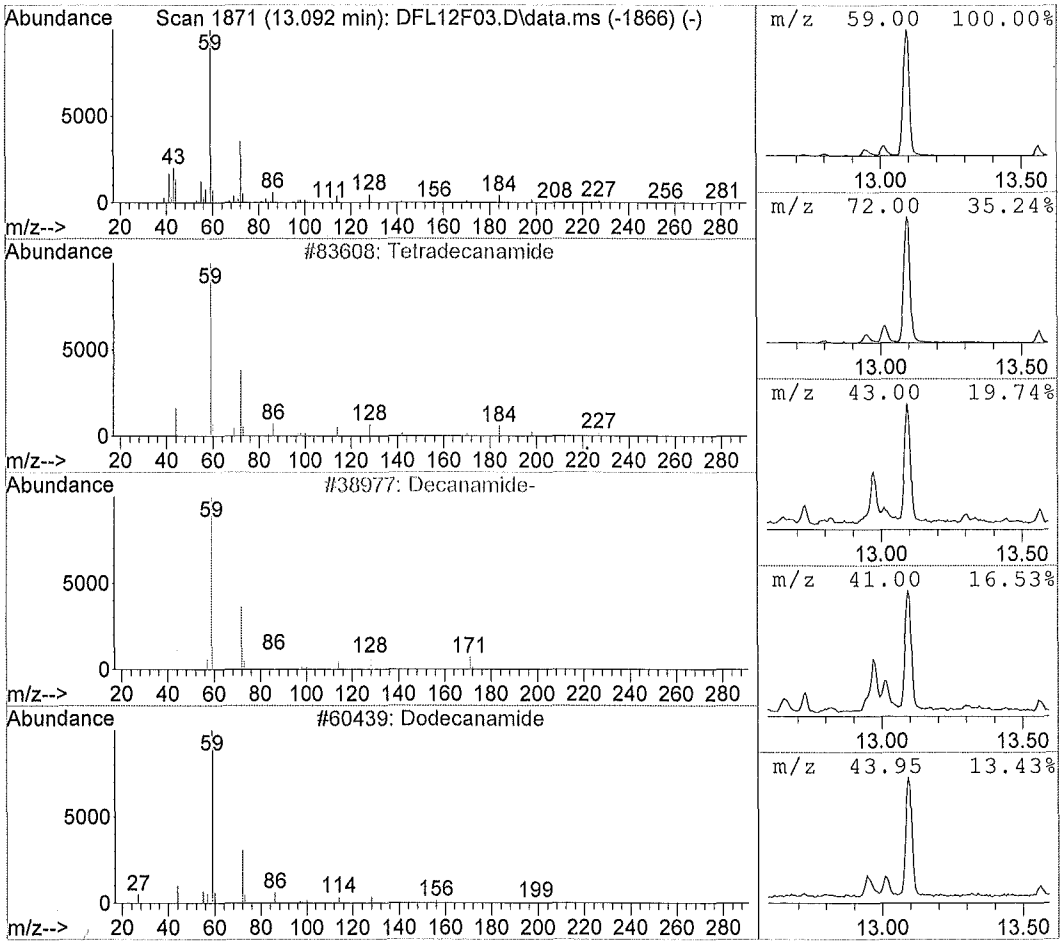
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.09	2.05 ug/ml	721213	Phenanthrene-d10	7041176

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Hexadecanamide	106565	000629-54-9	83.00
5	Nonanamide	29478	001120-07-6	78.00



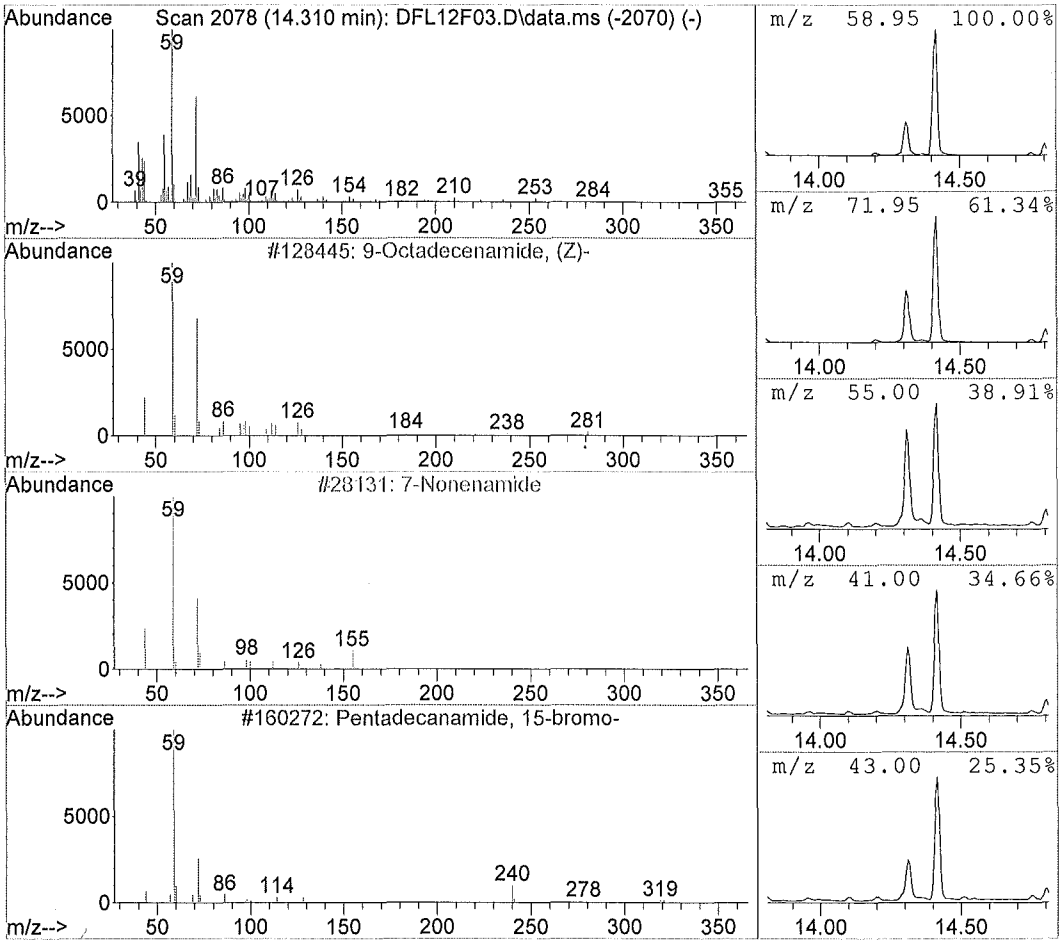
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	3.24 ug/ml	1360033	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Octanamide	20317	000629-01-6	59.00



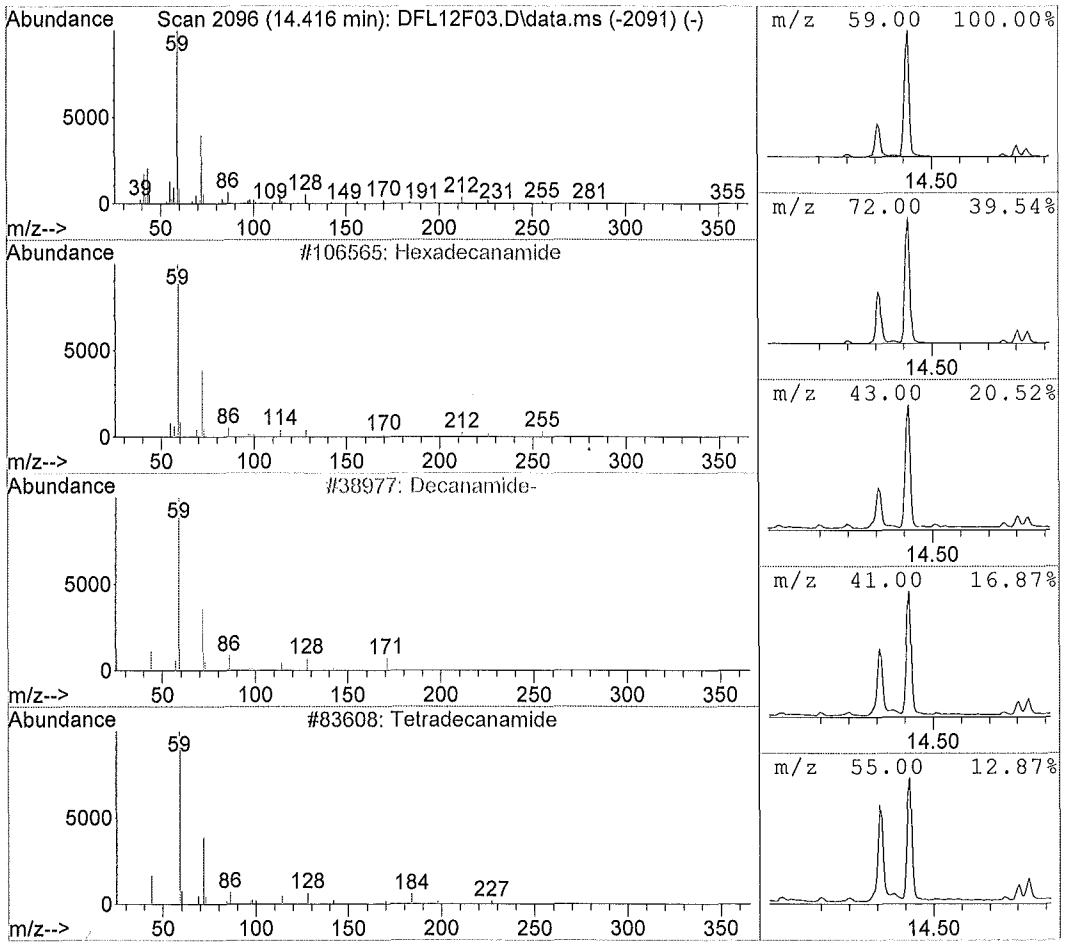
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	6.22 ug/ml	2610720	Chrysene-d12	8393413

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



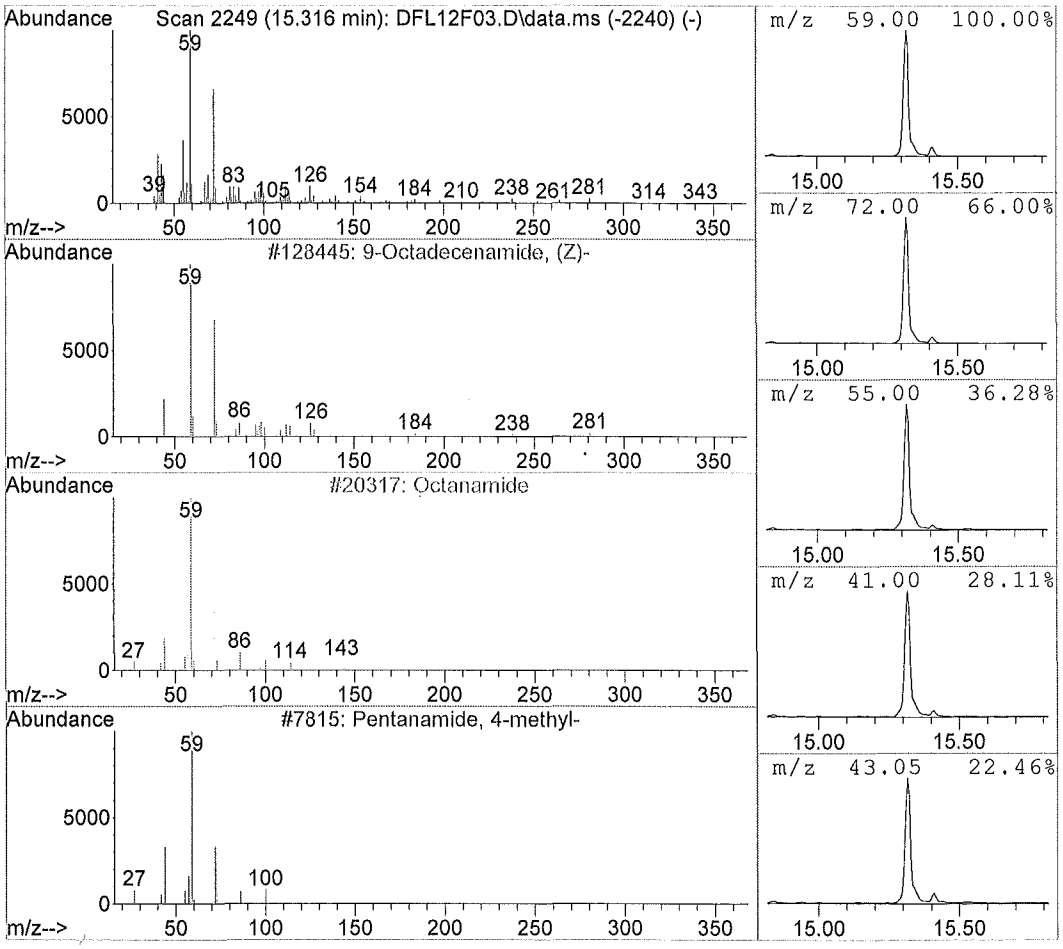
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	58.36 ug/ml	24493557	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	53.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
4	Tetradecanamide	83609	000638-58-4	50.00
5	Dodecanamide	60439	001120-16-7	42.00



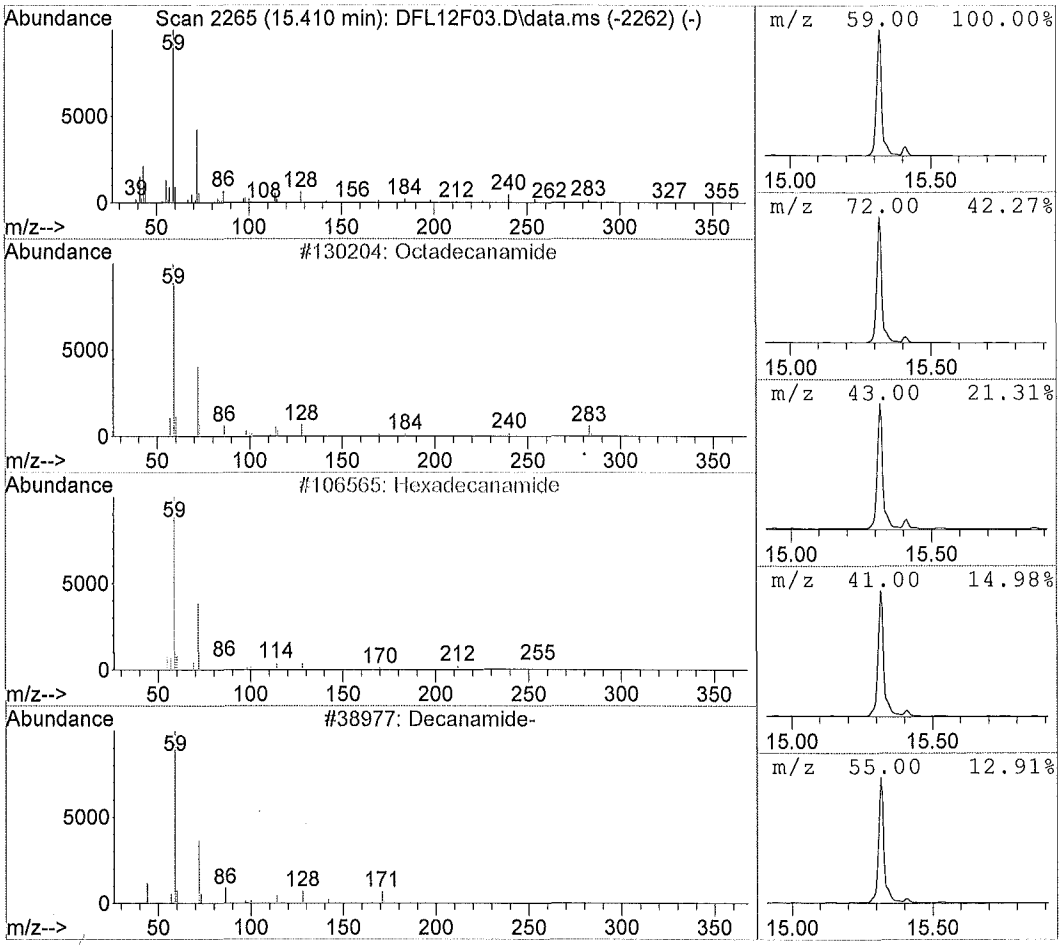
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.38 ug/ml	997494	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130204	000124-26-5	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Decanamide-	38977	002319-29-1	86.00
4	Tetradecanamide	83608	000638-58-4	78.00
5	Dodecanamide	60439	001120-16-7	78.00



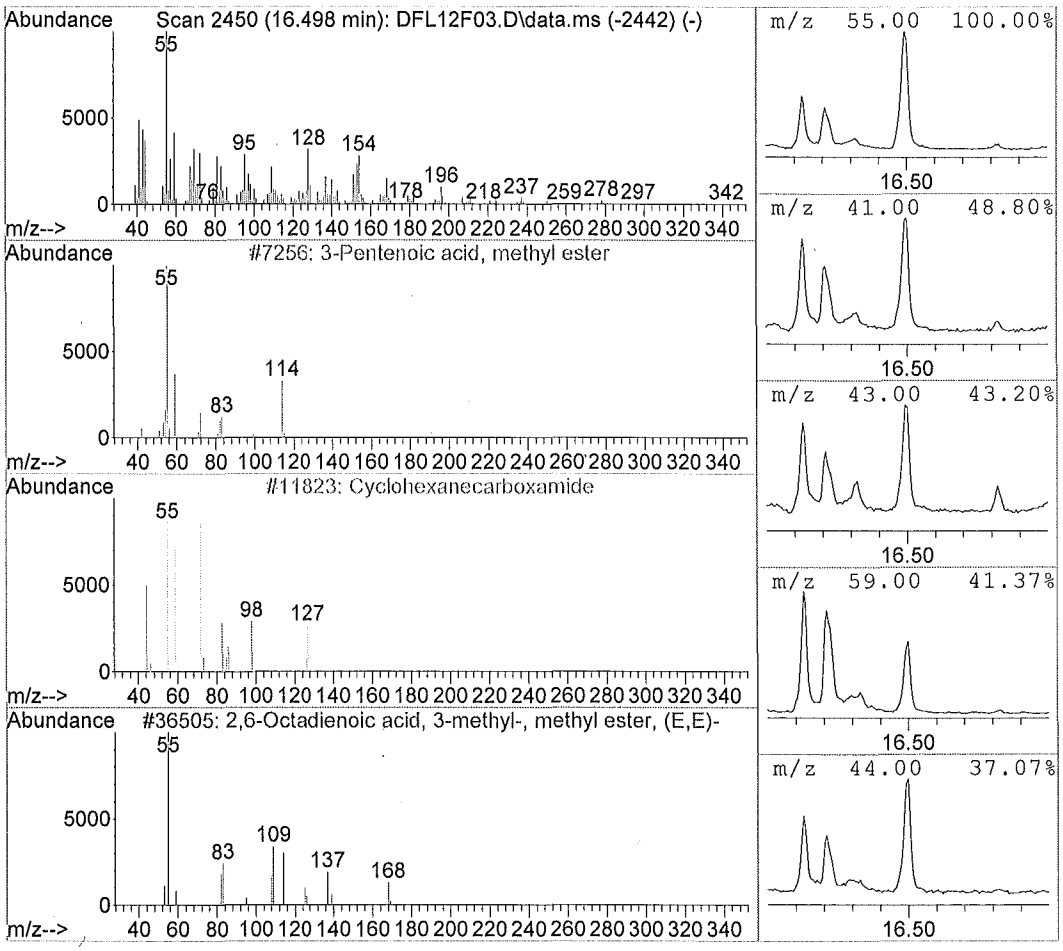
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.51 ug/ml	1474730	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	Cyclohexanecarboxamide	11823	001122-56-1	14.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
4	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	9.00



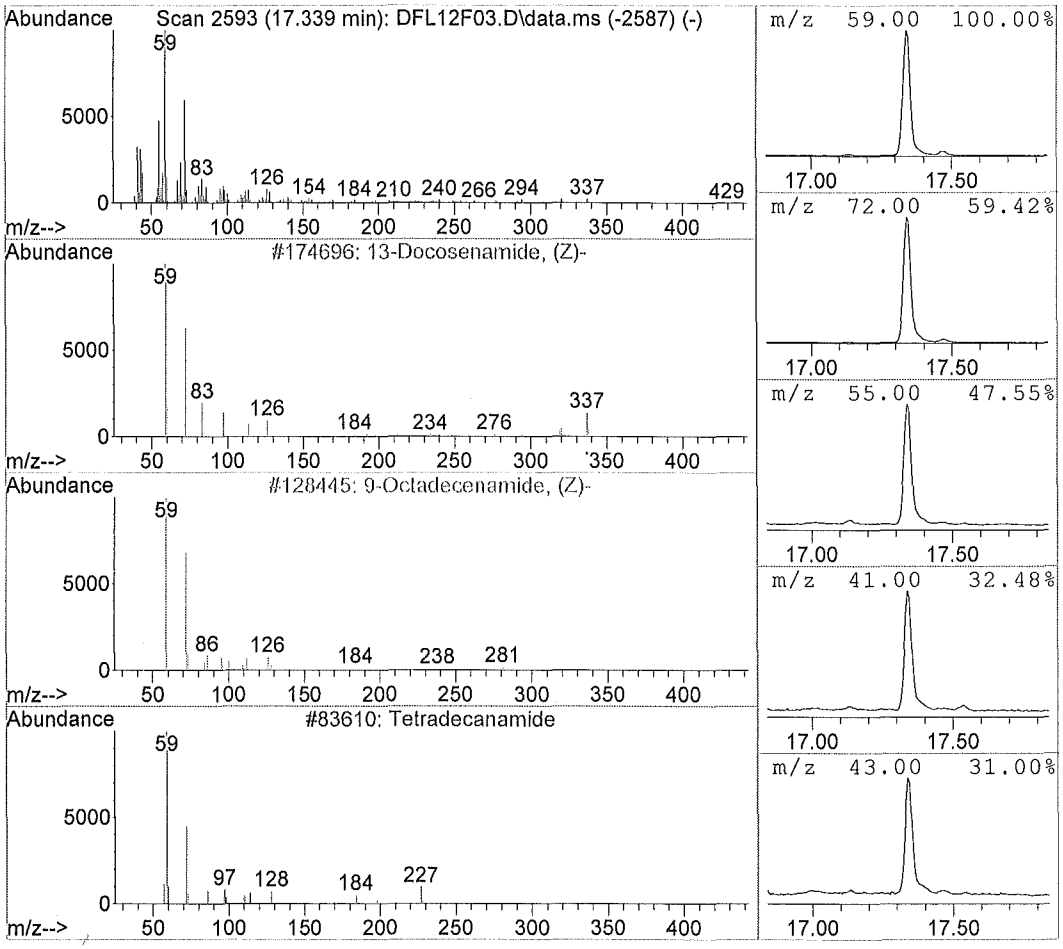
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	6.50 ug/ml	2592821	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	94.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Octadecanamide	130204	000124-26-5	59.00
5	7-Nonenamide	28131	090949-53-4	50.00



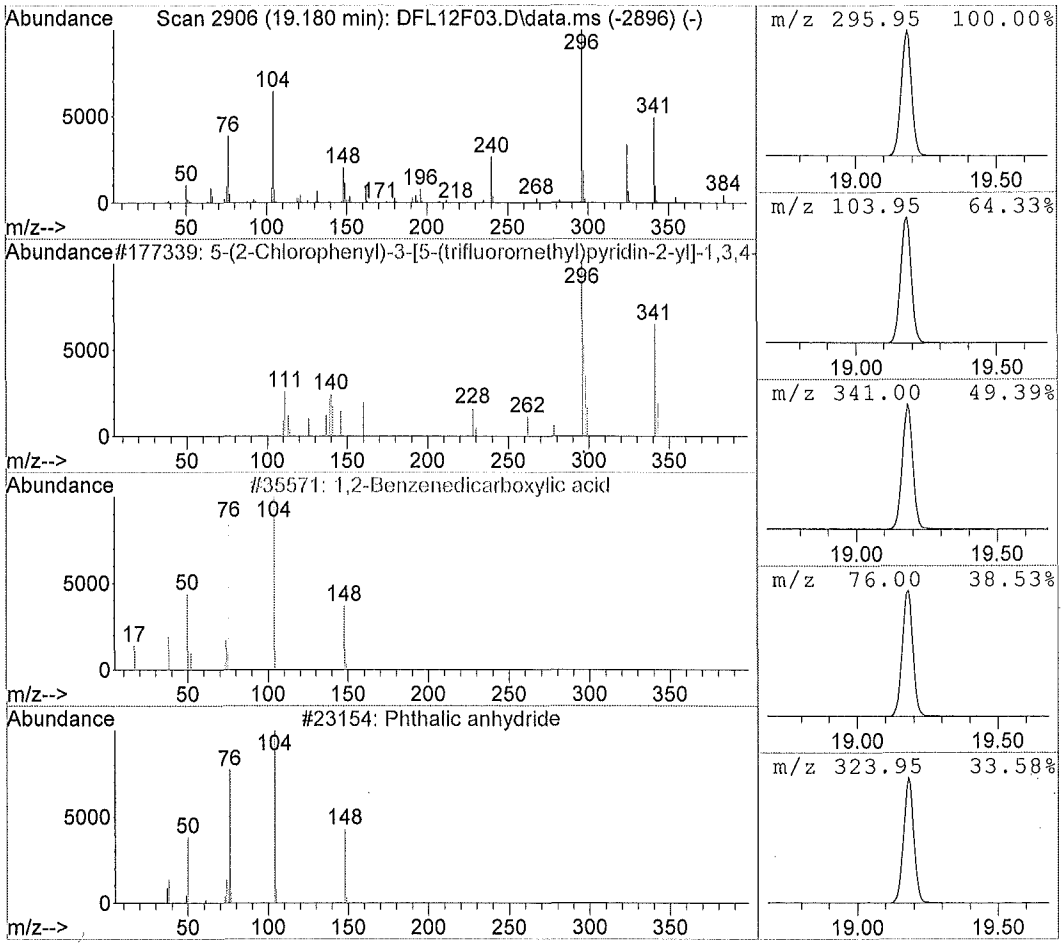
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	6.76 ug/ml	2694929	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00
2	1,2-Benzenedicarboxylic acid	35571	000088-99-3	12.00
3	Phthalic anhydride	23154	000085-44-9	12.00
4	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	12.00
5	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	10.00



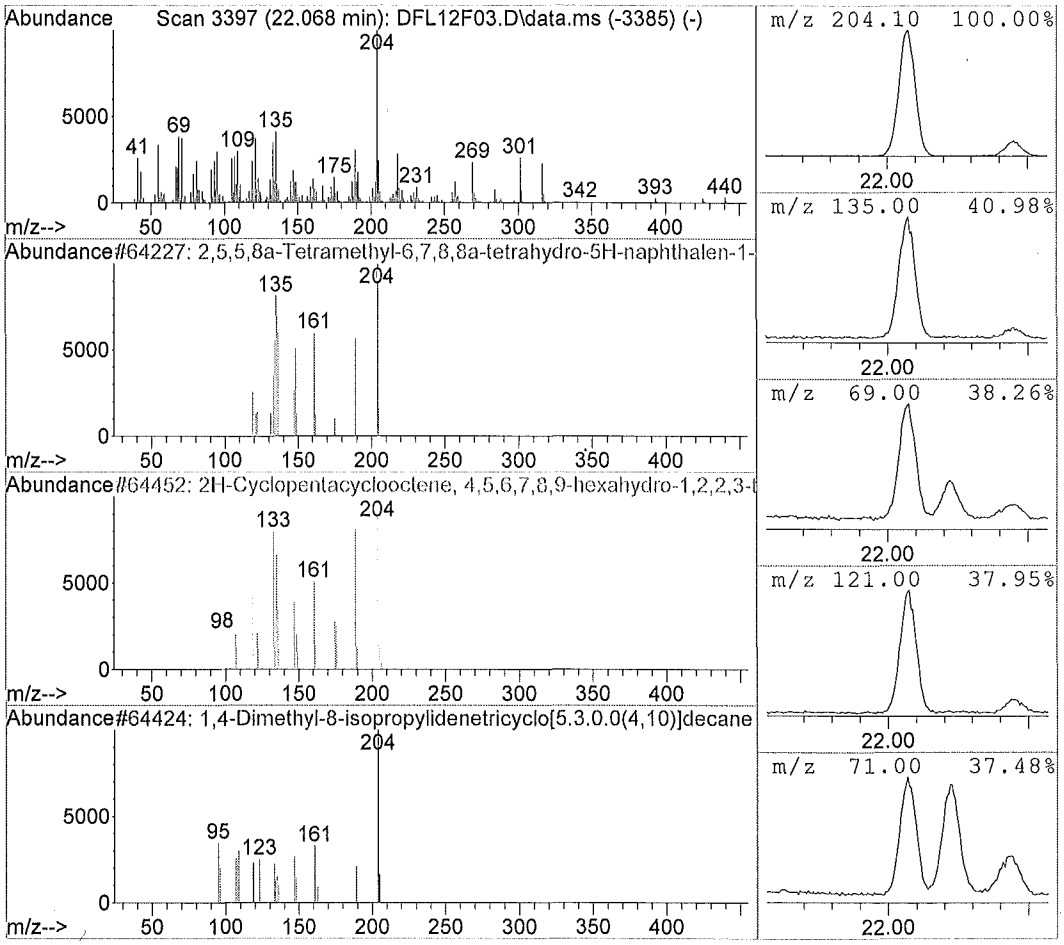
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	7.97 ug/ml	3177539	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	58.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	45.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	43.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	38.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	38.00



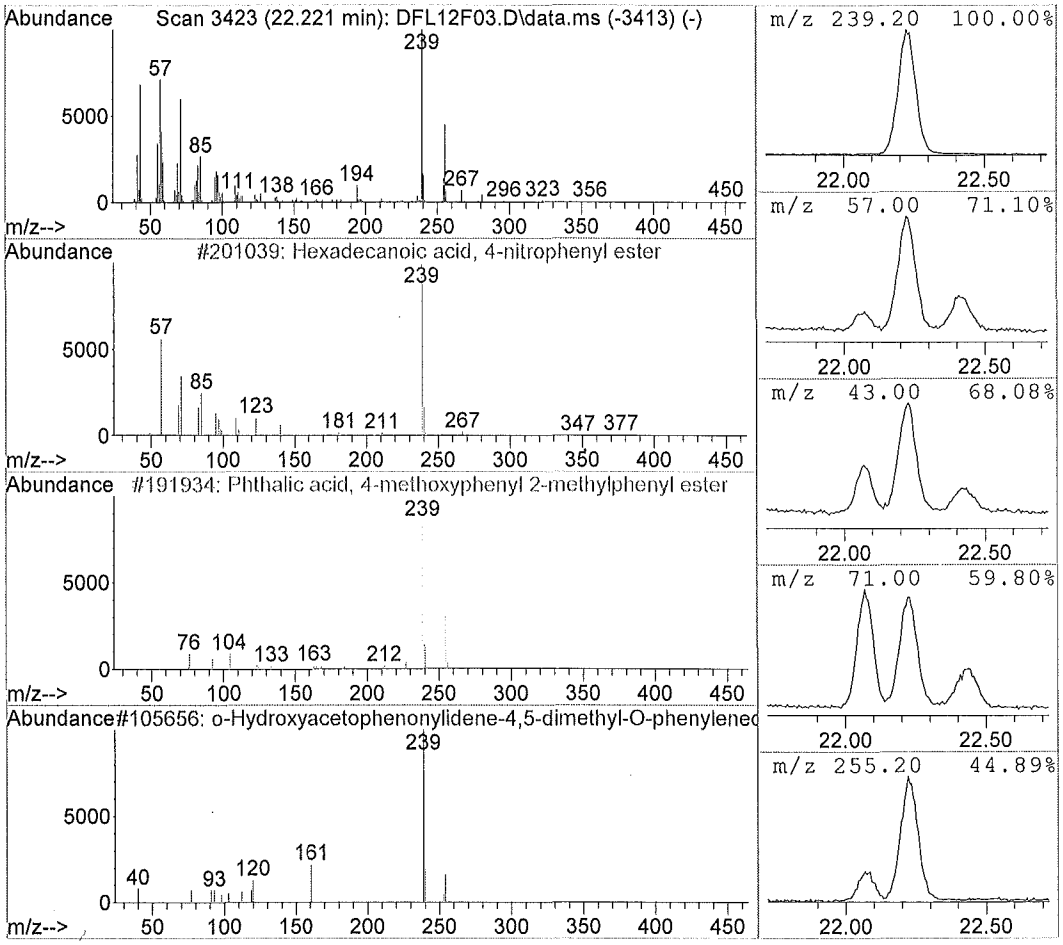
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	2.74 ug/ml	1093959	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	38.00
2	Phthalic acid, 4-methoxyphenyl 2-me	191934	1000315-59-5	35.00
3	o-Hydroxyacetophenonylidene-4,5-dim	105656	103133-80-8	22.00
4	Heptamethyl-3-phenyl-1,4-cyclohexad	105907	122531-52-6	16.00
5	Pyridine, 4-(5-phenyl-1,3,4-thiadia	93097	004291-07-0	14.00



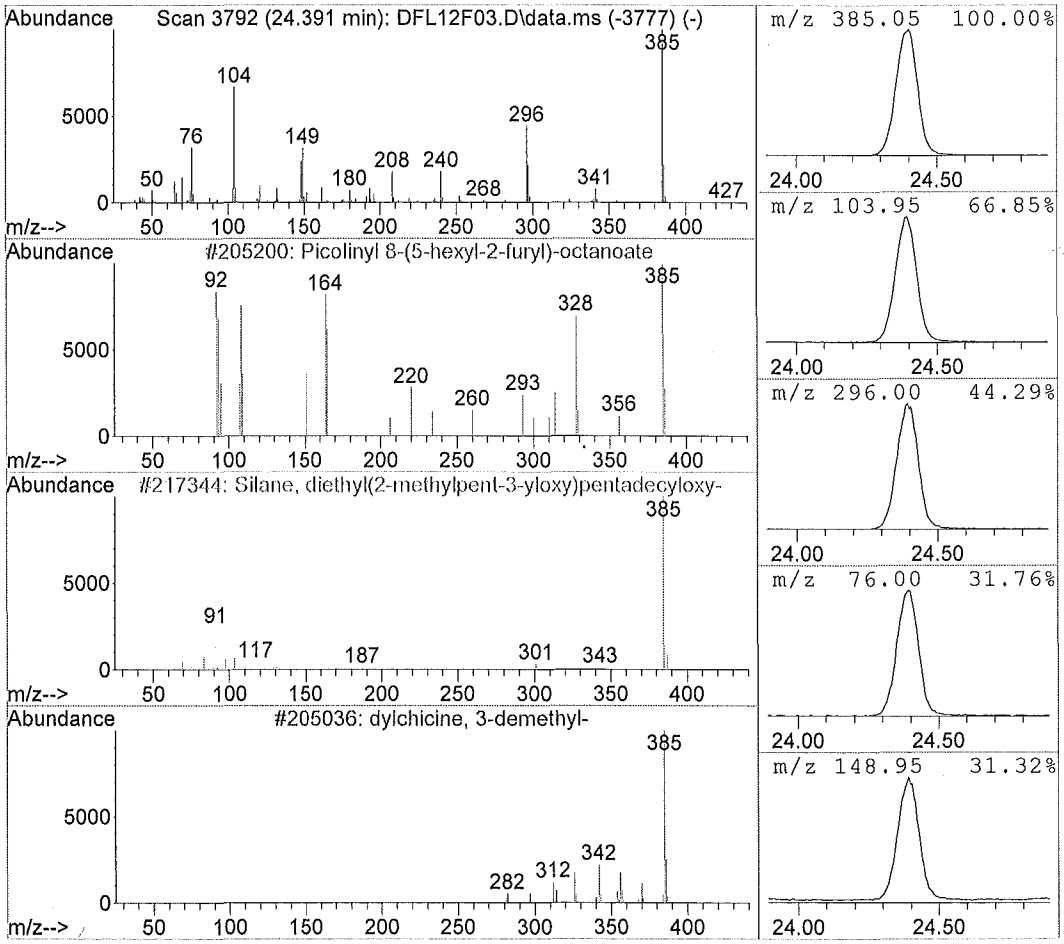
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.39	8.19 ug/ml	3265895	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	30.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
3	dylchicine, 3-demethyl-	205036	007336-34-7	12.00
4	Silane, diethyl(2-hexyloxy)pentadec	217329	1000363-51-0	10.00
5	Silane, dimethylnonyloxytridecyloxy	212262	1000356-05-2	10.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM27F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.2 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.

F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM27F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.2 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	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM27F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.2 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-	3.70	4800	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.31	1300	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

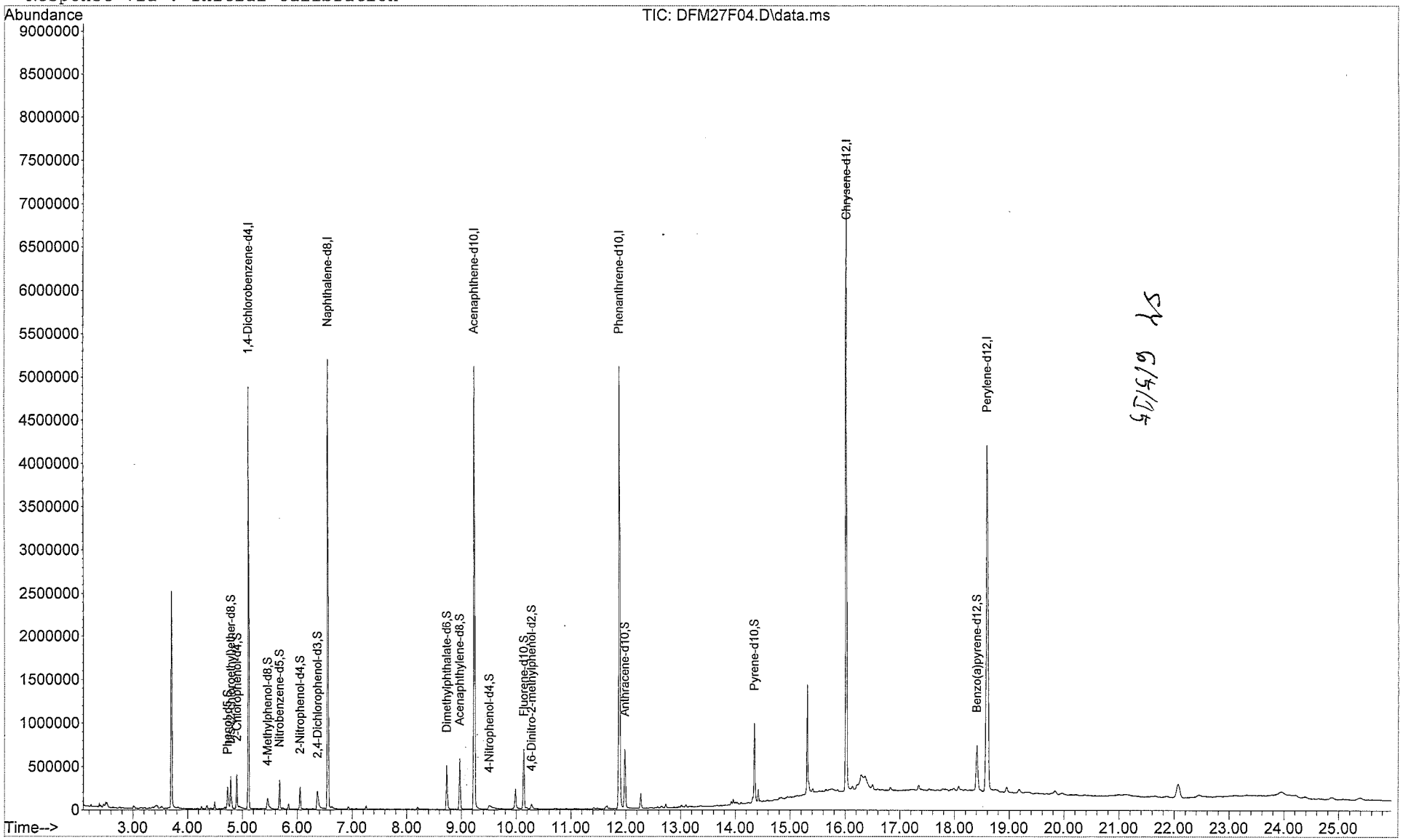
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM27F04.D Vial: 25
Acq On : 05/28/2015 15:25 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 15:52:00 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM27F04.D Vial: 25
Acq On : 05/28/2015 15:25 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 15:52:00 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	835063	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2798911	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1761573	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3136912	20.00 ug/ml
73) Chrysene-d12	16.02	240	3810780	20.00 ug/ml
81) Perylene-d12	18.60	264	3628861	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	120260	2.314ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	92263	2.426ug/mL
7) 2-Chlorophenol-d4	4.90	132	133144	2.570ug/ml
13) 4-Methylphenol-d8	5.46	113	57586	1.478ug/mL
17) Nitrobenzene-d5	5.67	128	57668	2.516ug/ml
21) 2-Nitrophenol-d4	6.05	143	65512	2.410ug/mL
25) 2,4-Dichlorophenol-d3	6.37	165	109754	2.498ug/mL
28) 4-Chloroaniline-d4	6.63	131	12490	0.378ug/mL
42) Dimethylphthalate-d6	8.73	166	329572	3.034ug/mL
45) Acenaphthylene-d8	8.97	160	402216	2.812ug/mL
50) 4-Nitrophenol-d4	9.52	143	34870	1.933ug/mL
57) Fluorene-d10	10.14	176	289468	3.016ug/mL
61) 4,6-Dinitro-2-methylphenol	10.29	200	18248	0.921ug/mL
69) Anthracene-d10	11.98	188	482000	2.999ug/mL
75) Pyrene-d10	14.34	212	484623	3.020ug/mL
86) Benzo(a)pyrene-d12	18.41	264	461060	2.776ug/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)\28MAY15\DFM27F04.D Vial: 25
Acq On : 05/28/2015 15:25 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 15:52:00 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

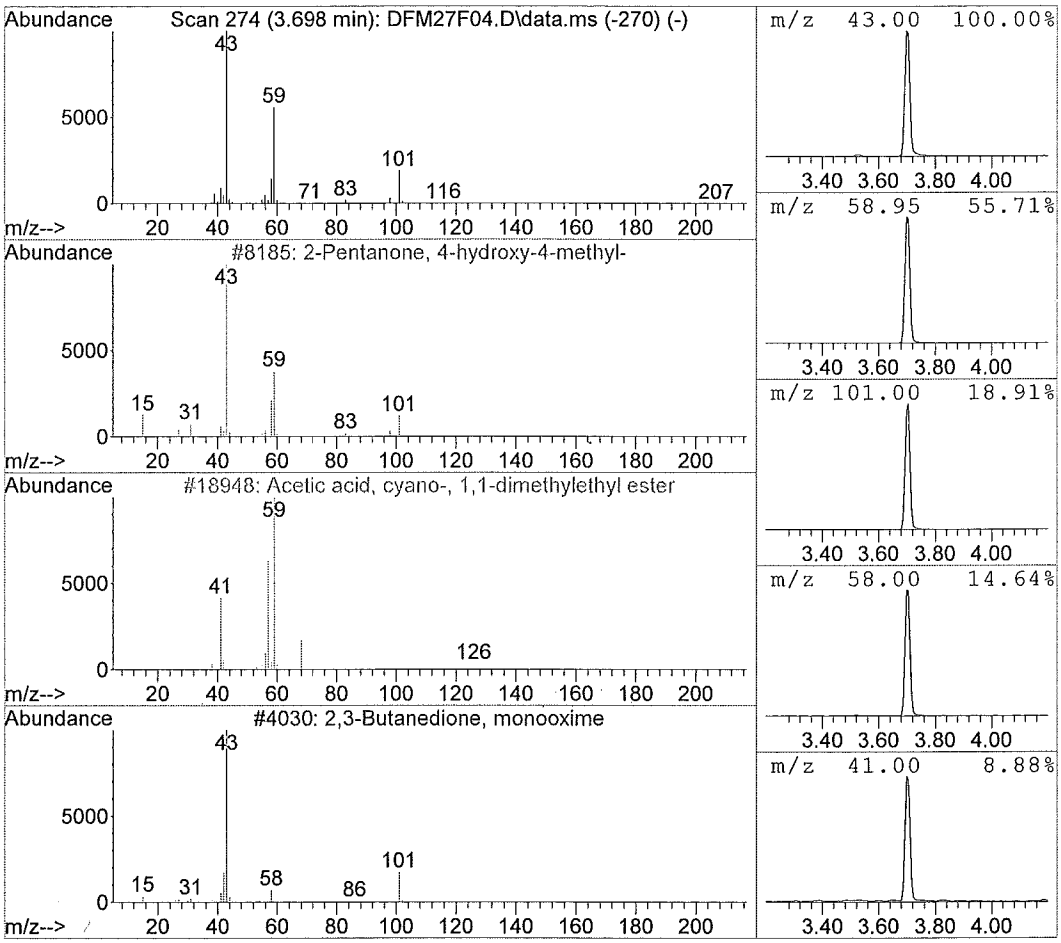
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM27F04.D Vial: 25
Acq On : 05/28/2015 15:25 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	12.27 ug/ml	3060135	1,4-Dichlorobenzene-d4	4987834

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	1-Propen-2-ol, acetate	3686	000108-22-5	9.00



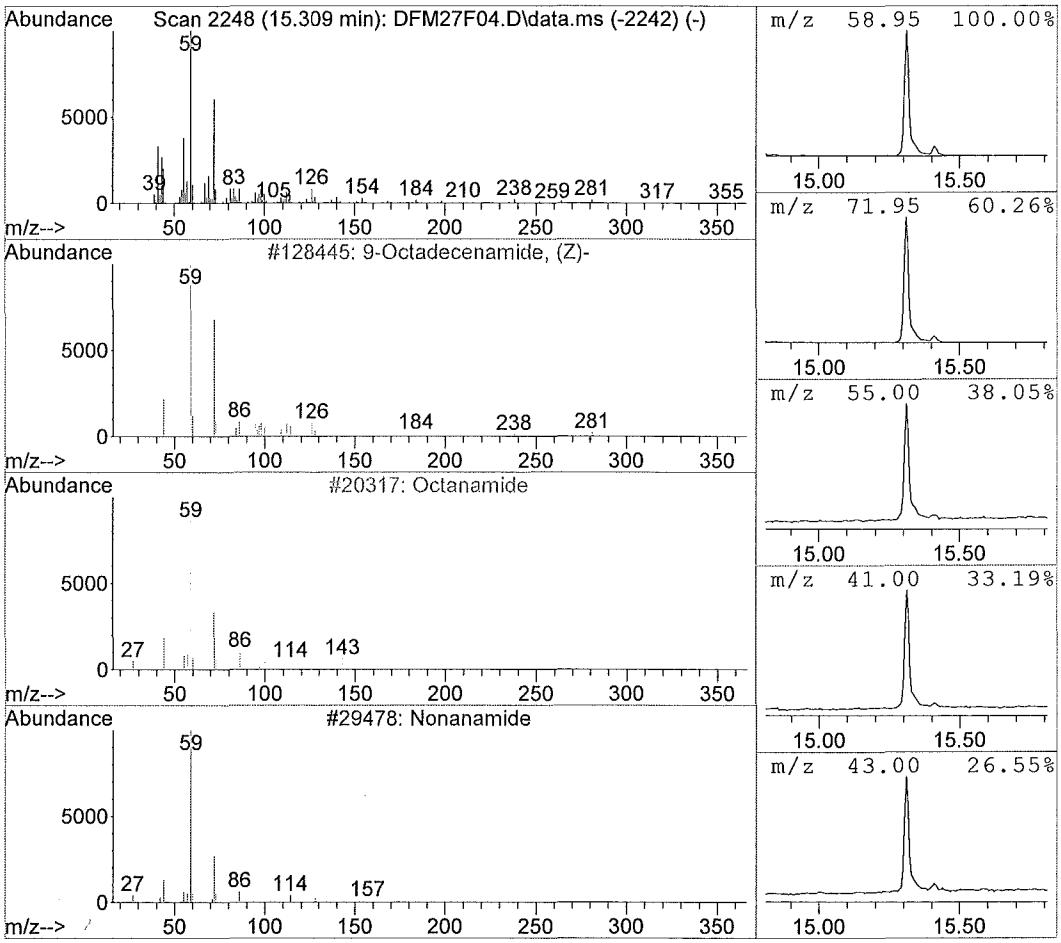
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM27F04.D Vial: 25
Acq On : 05/28/2015 15:25 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	3.37 ug/ml	1668904	Chrysene-d12	9905159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	64.00
3	Nonanamide	29478	001120-07-6	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Tetradecanamide	83609	000638-58-4	50.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL13F05

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL13F05

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL13F05

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.26	99.	J
02		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.53	580	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4300	JB
04		Unknown 3-Hexene-2,5-dione	4.49	110	J
05		Unknown 9-Octadecenamide, (Z)-	14.31	86.	JB
06	629-54-9	Hexadecanamide	14.42	170	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
08		Unknown Cyclohexanecarboxamide	16.50	110	J
09	112-84-5	13-Docosenamide, (Z)-	17.34	400	JN
10		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	440	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		

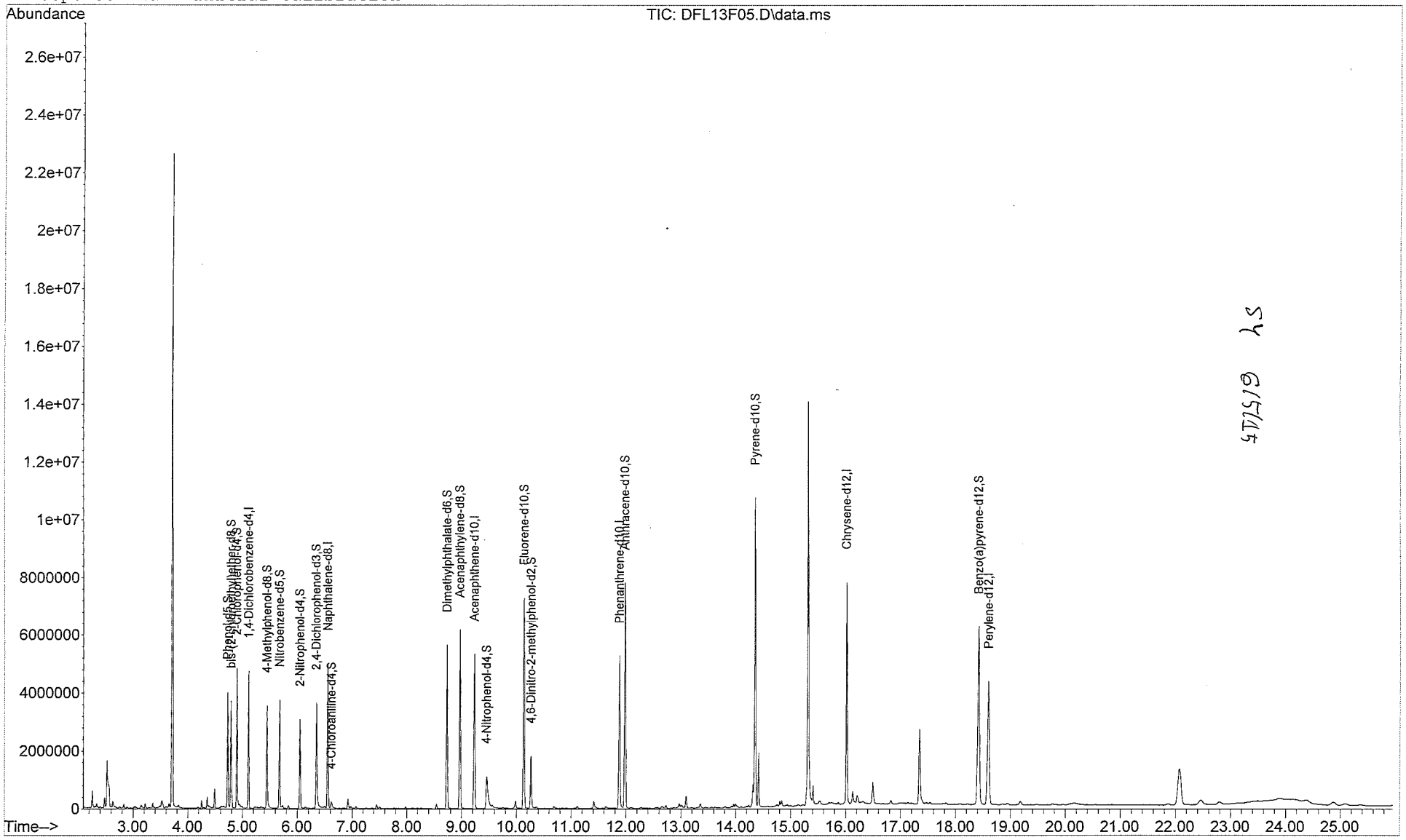
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:16:48 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



6/5/15 YS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:48 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	841038	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2887588	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1791807	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3191014	20.00 ug/ml
73) Chrysene-d12	16.02	240	3873949	20.00 ug/ml
81) Perylene-d12	18.60	264	3751001	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1471880	28.120ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	911323	23.794ug/mL
7) 2-Chlorophenol-d4	4.89	132	1390397	26.649ug/ml
13) 4-Methylphenol-d8	5.45	113	901758	22.983ug/mL
17) Nitrobenzene-d5	5.67	128	613508	25.940ug/ml
21) 2-Nitrophenol-d4	6.05	143	741110	26.424ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1209861	26.694ug/mL
28) 4-Chloroaniline-d4	6.62	131	121957	3.582ug/mL
42) Dimethylphthalate-d6	8.73	166	3578525	32.392ug/mL
45) Acenaphthylene-d8	8.97	160	4061909	27.924ug/mL
50) 4-Nitrophenol-d4	9.46	143	564311	30.755ug/mL
57) Fluorene-d10	10.14	176	3006588	30.799ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	495366	24.582ug/mL
69) Anthracene-d10	11.98	188	5146863	31.483ug/mL
75) Pyrene-d10	14.35	212	5321958	32.622ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5259995	30.642ug/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)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:48 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

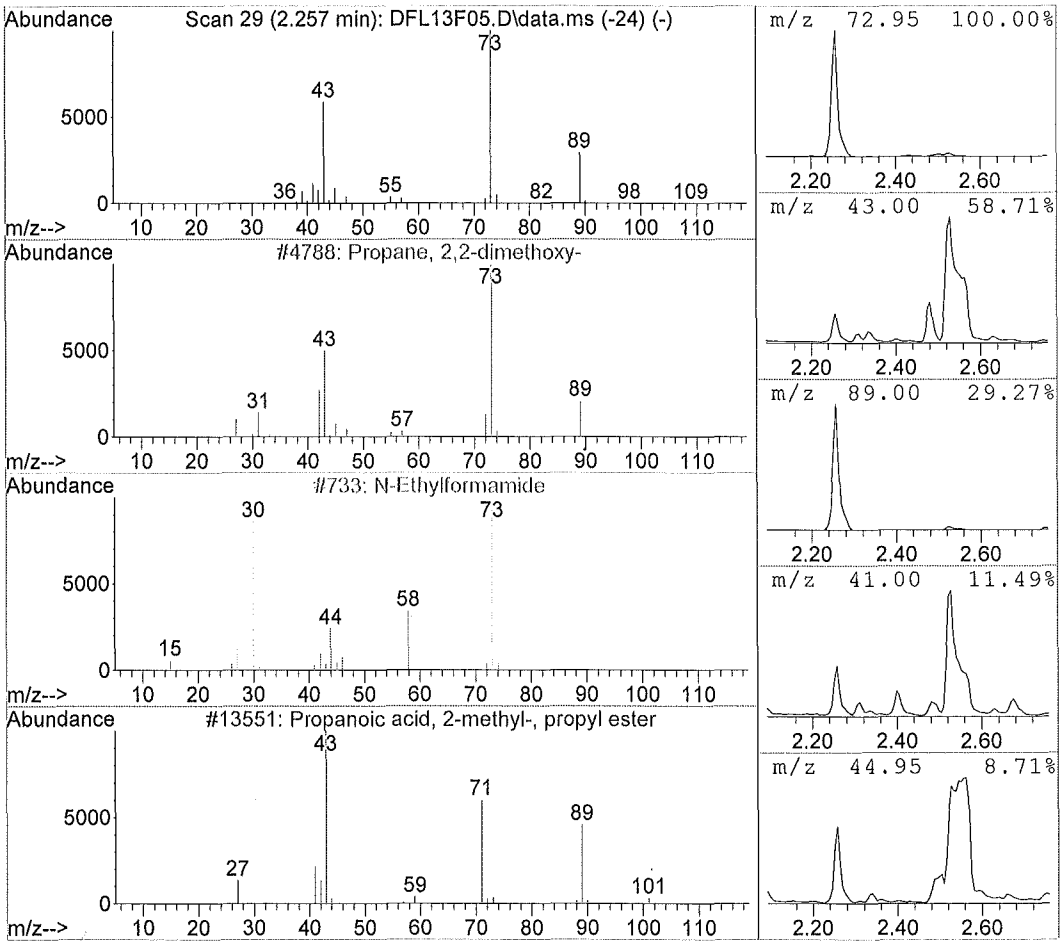
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.26	2.41 ug/ml	601646	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	56.00
2	N-Ethylformamide	733	000627-45-2	9.00
3	Propanoic acid, 2-methyl-, propyl e	13551	000644-49-5	9.00
4	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00
5	Oxirane-2-carboxylic acid, ethyl es	8052	1000192-50-3	9.00



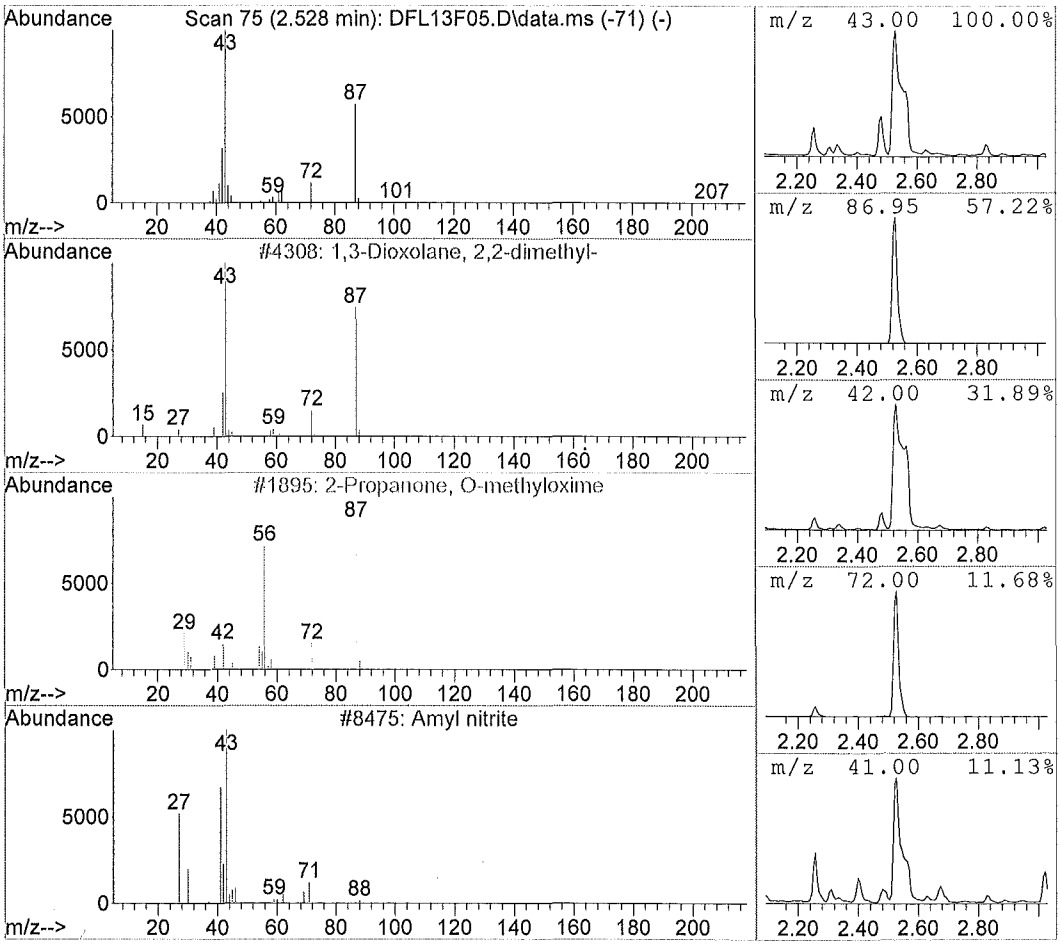
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.53	14.14 ug/ml	3532004	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	45.00
2	2-Propanone, O-methyloxime	1895	003376-35-0	32.00
3	Amyl nitrite	8475	000463-04-7	23.00
4	dl-Glyceraldehyde dimer	45907	026793-98-6	23.00
5	N,N-Dimethylacetamide	1886	000127-19-5	9.00



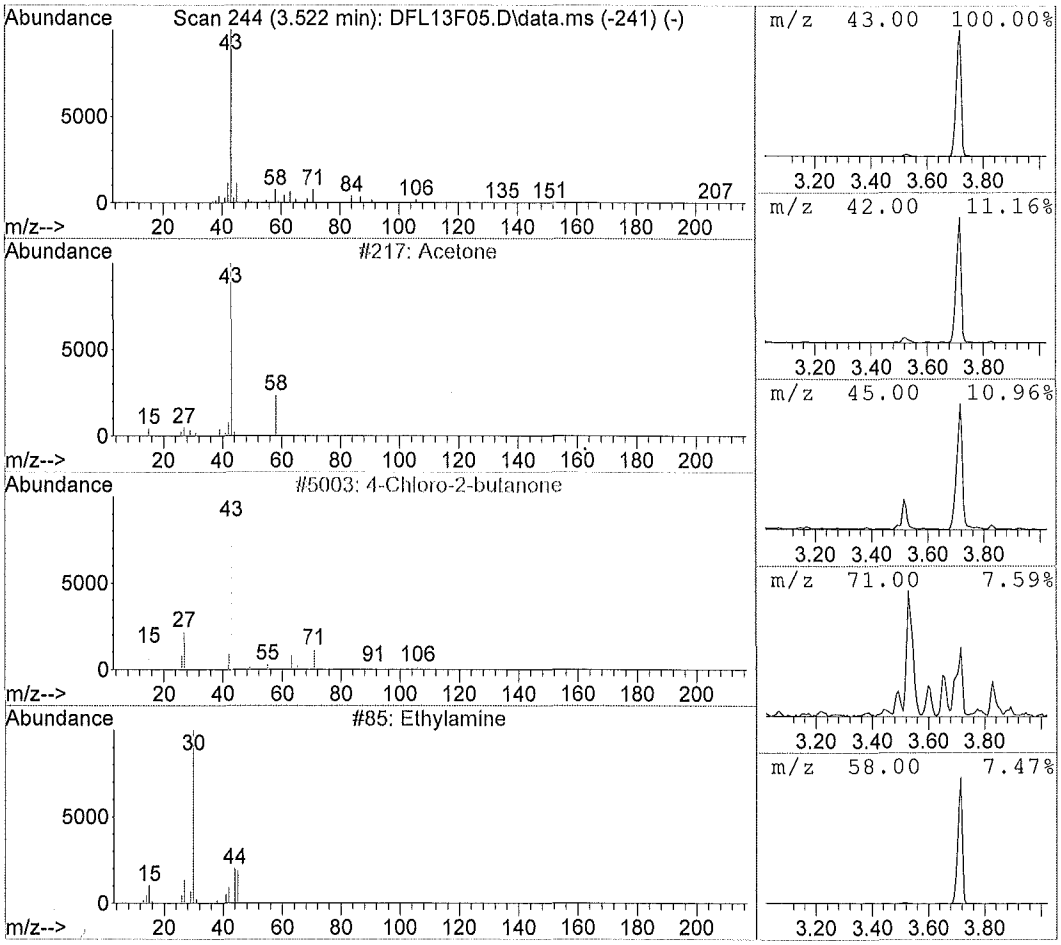
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.03 ug/ml	507005	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetone VOA	217	000067-64-1	35.00
2	4-Chloro-2-butanone	5003	006322-49-2	27.00
3	Ethylamine	85	000075-04-7	9.00
4	Methyl glyoxal	628	000078-98-8	9.00
5	CH3C(O)CH2CH2OH	2022	000590-90-9	9.00



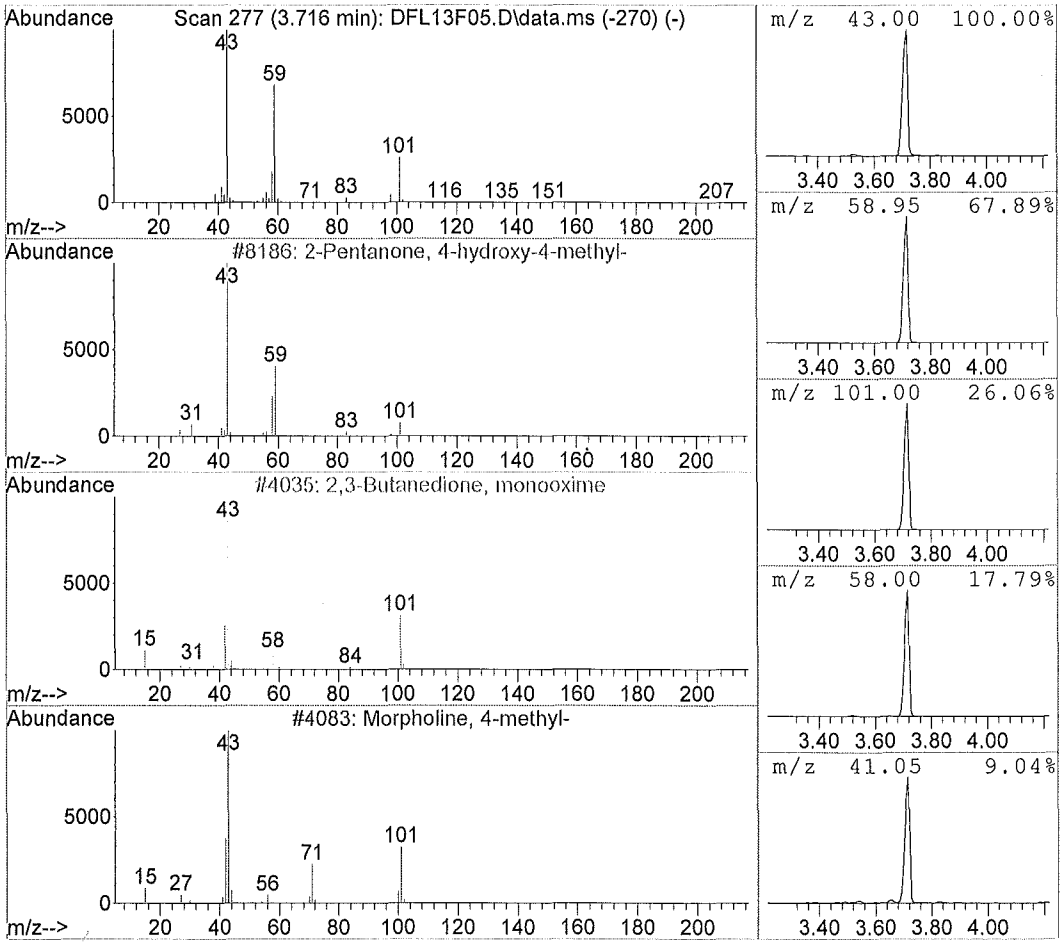
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	104.15 ug/ml	26020743	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	2,3-Butanedione, monooxime	4035	000057-71-6	17.00
3	Morpholine, 4-methyl-	4083	000109-02-4	9.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00
5	Acetone	213	000067-64-1	9.00



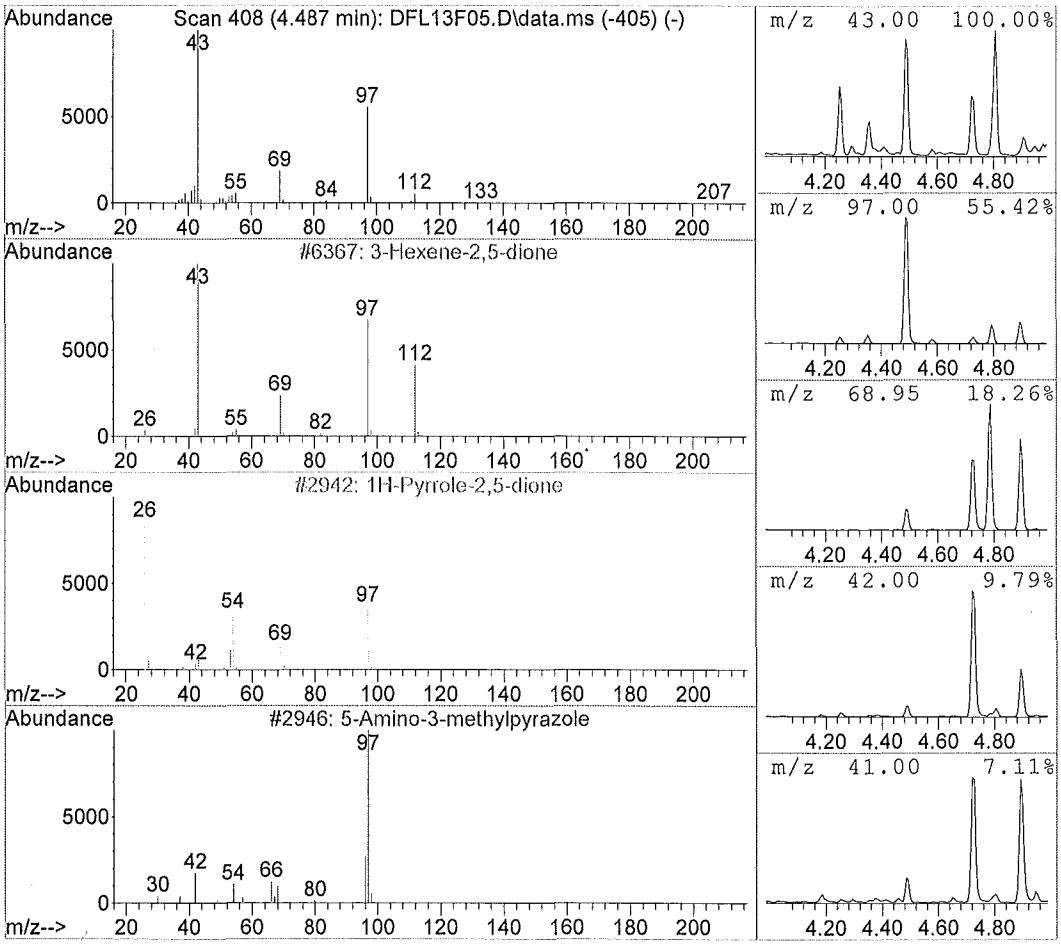
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.67 ug/ml	665990	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	39.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
3	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
5	5-Hexen-2-one	3152	000109-49-9	10.00



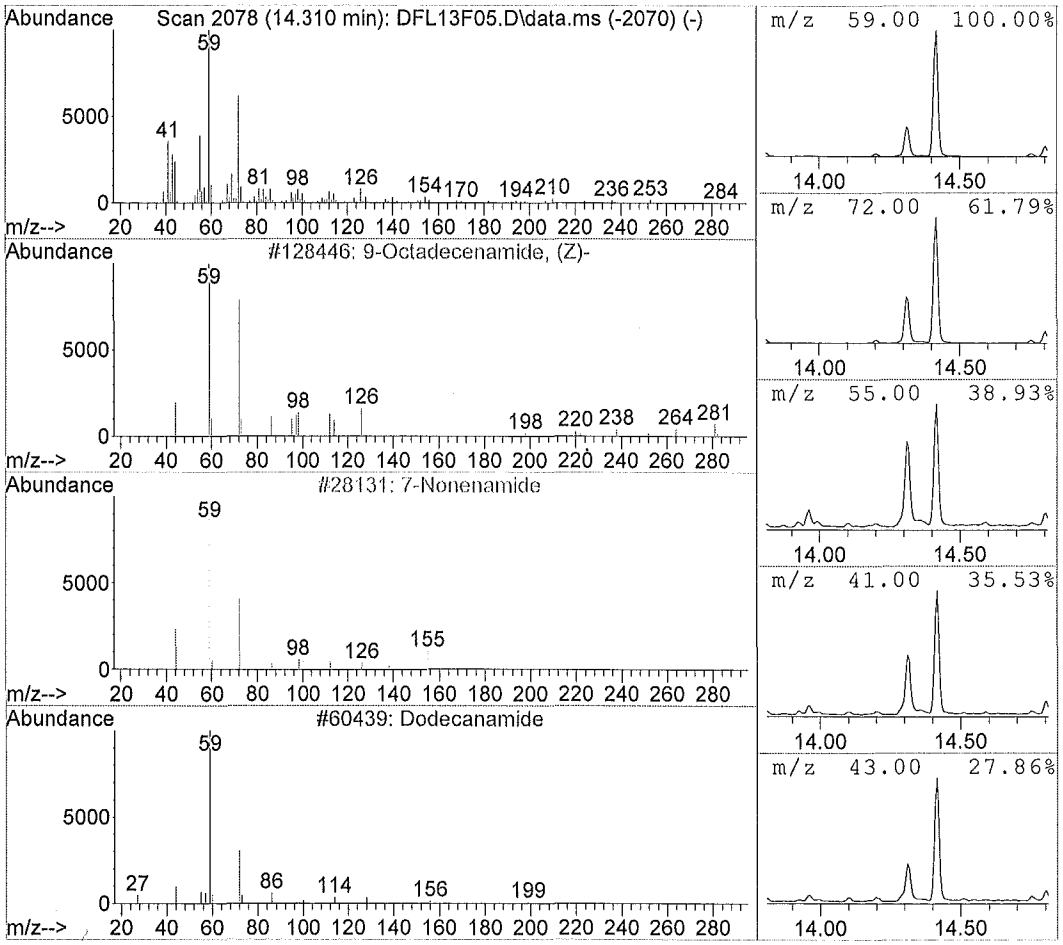
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.09 ug/ml	1046920	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Nonanamide	29478	001120-07-6	59.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	56.00



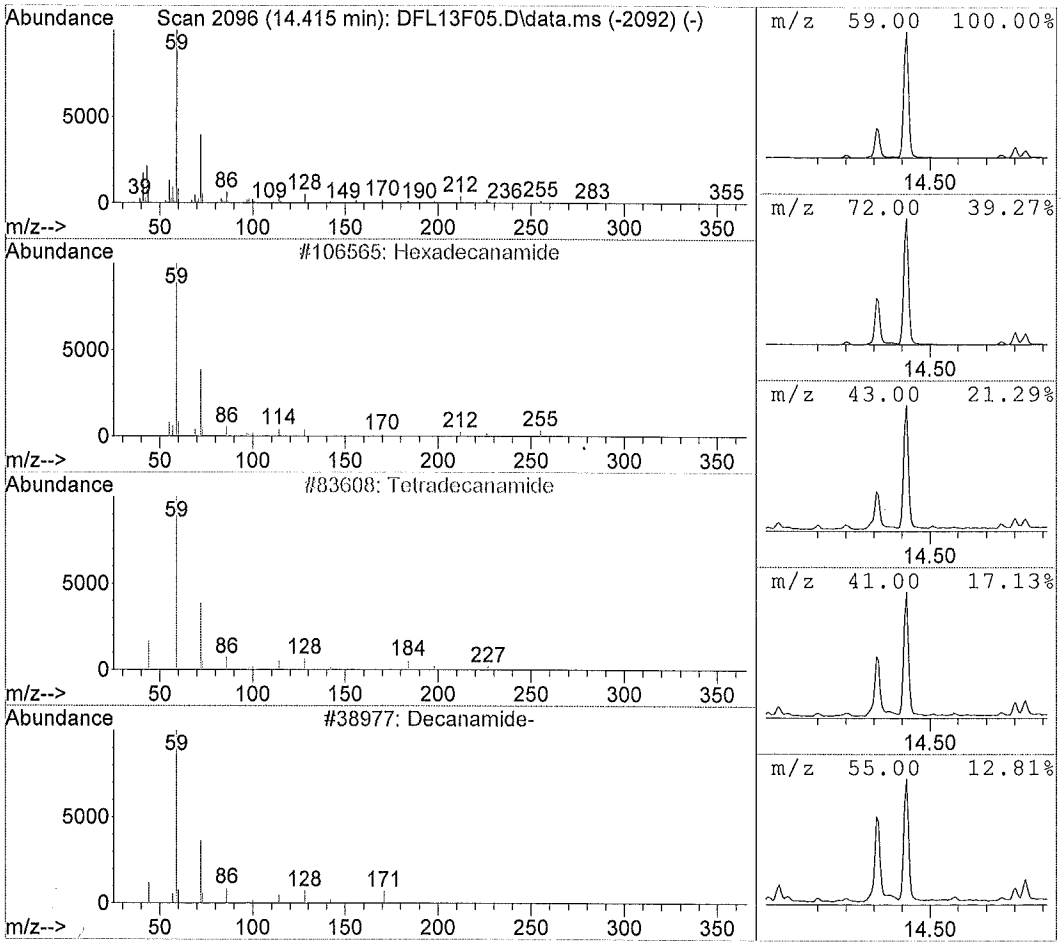
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.26 ug/ml	2130275	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	87.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Nonanamide	29478	001120-07-6	64.00



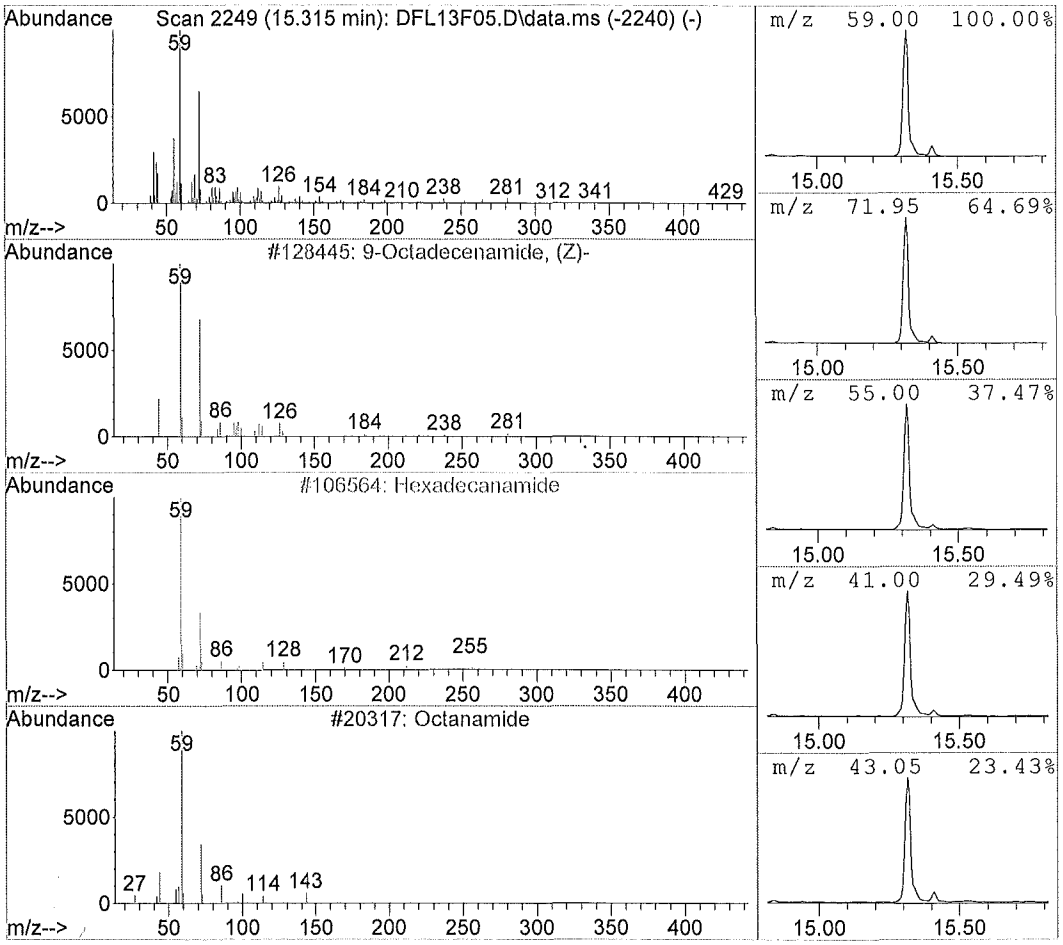
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	38.24 ug/ml	19124236	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Octanamide	20317	000629-01-6	53.00
4	6,8-Dichlorooctanamide	70436	003579-00-8	43.00
5	Dodecanamide	60439	001120-16-7	42.00



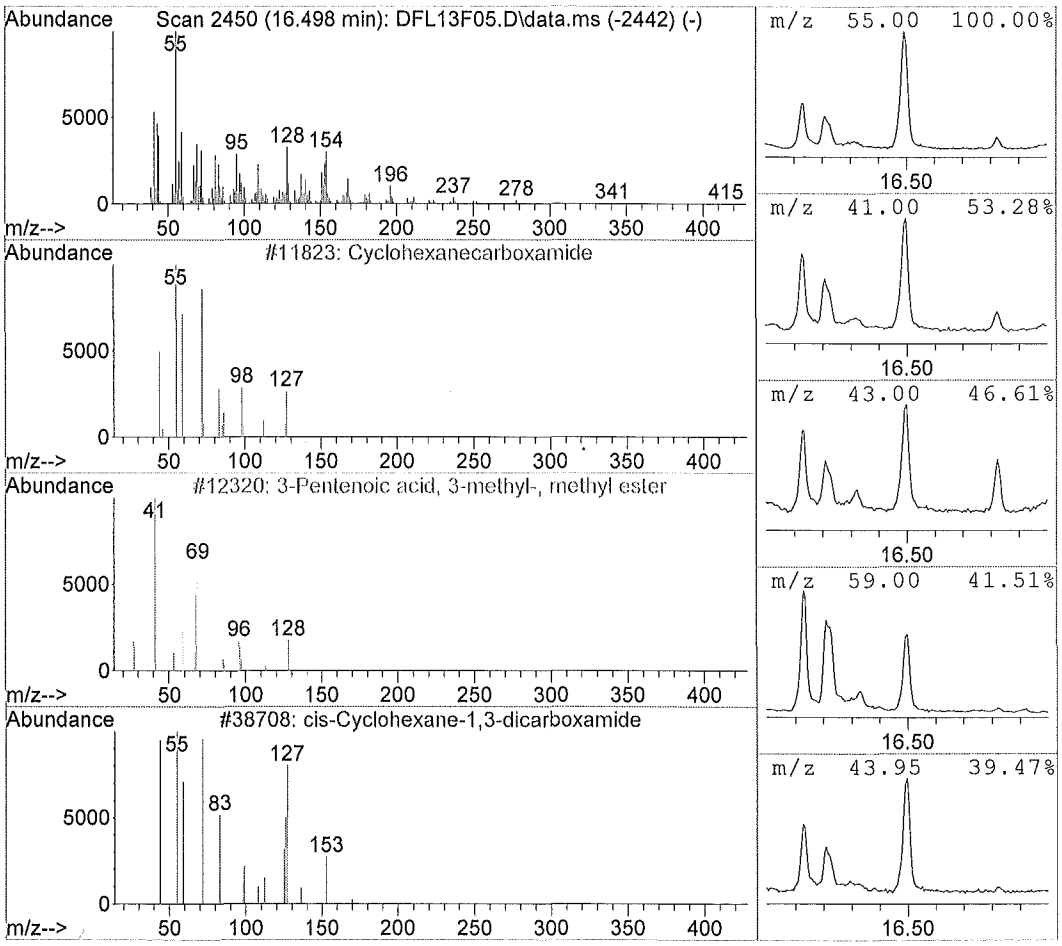
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	2.71 ug/ml	1357553	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, 3-methyl-, methyl	12320	002258-58-4	14.00
3	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	12.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00
5	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00



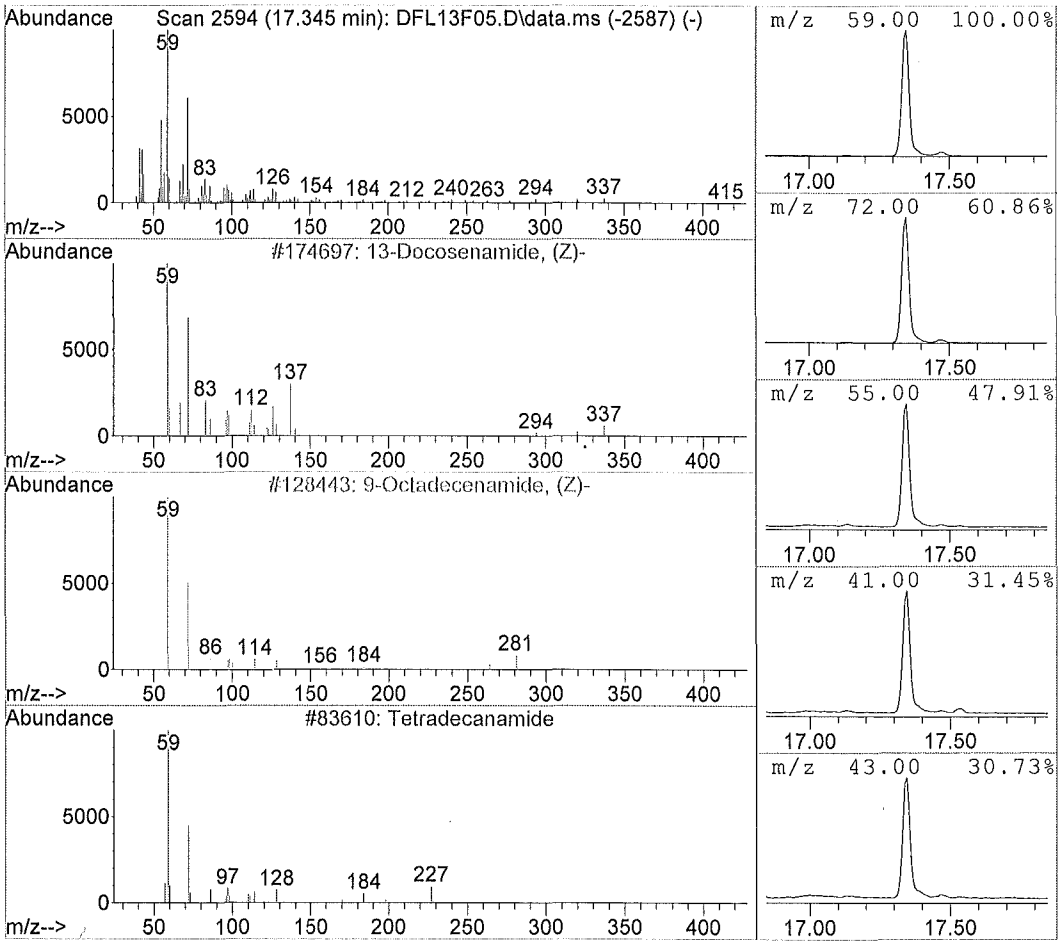
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	9.80 ug/ml	4744913	Perylene-d12	9682401

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
5	Octanamide	20317	000629-01-6	59.00



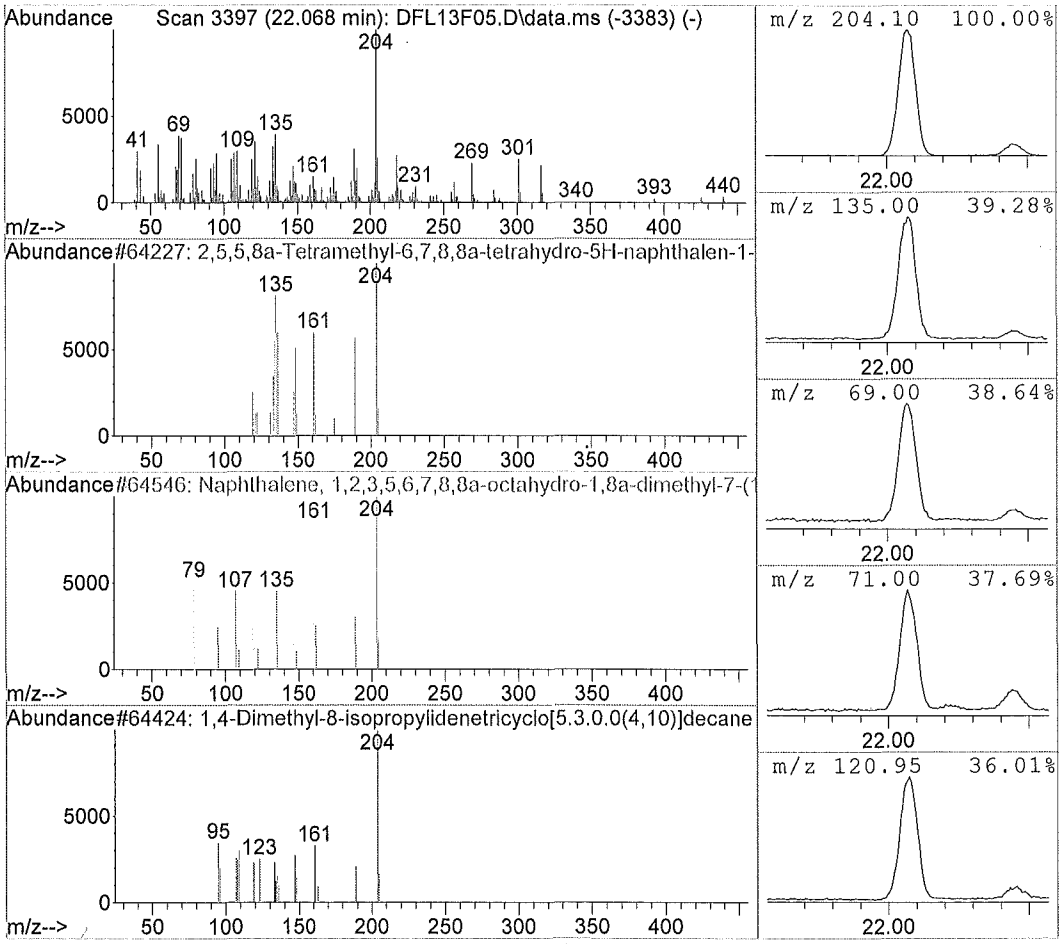
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	10.79 ug/ml	5221578	Perylene-d12	9682401

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	47.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	46.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	35.00



00124

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL14F01

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

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL14F01

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

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL14F01

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

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.55	280	J
02		Unknown 4-Chloro-2-butanone	3.52	79.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	3900	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.49	82.	J
05		Unknown 9-Octadecenamide, (Z)-	14.31	91.	JB
06	629-54-9	Hexadecanamide	14.42	210	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
08	629-54-9	Hexadecanamide	15.41	77.	JN
09		Unknown Cyclohexanecarboxamide	16.50	130	J
10	301-02-0	9-Octadecenamide, (Z)-	17.34	320	JN
11		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	22.07	76.	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		

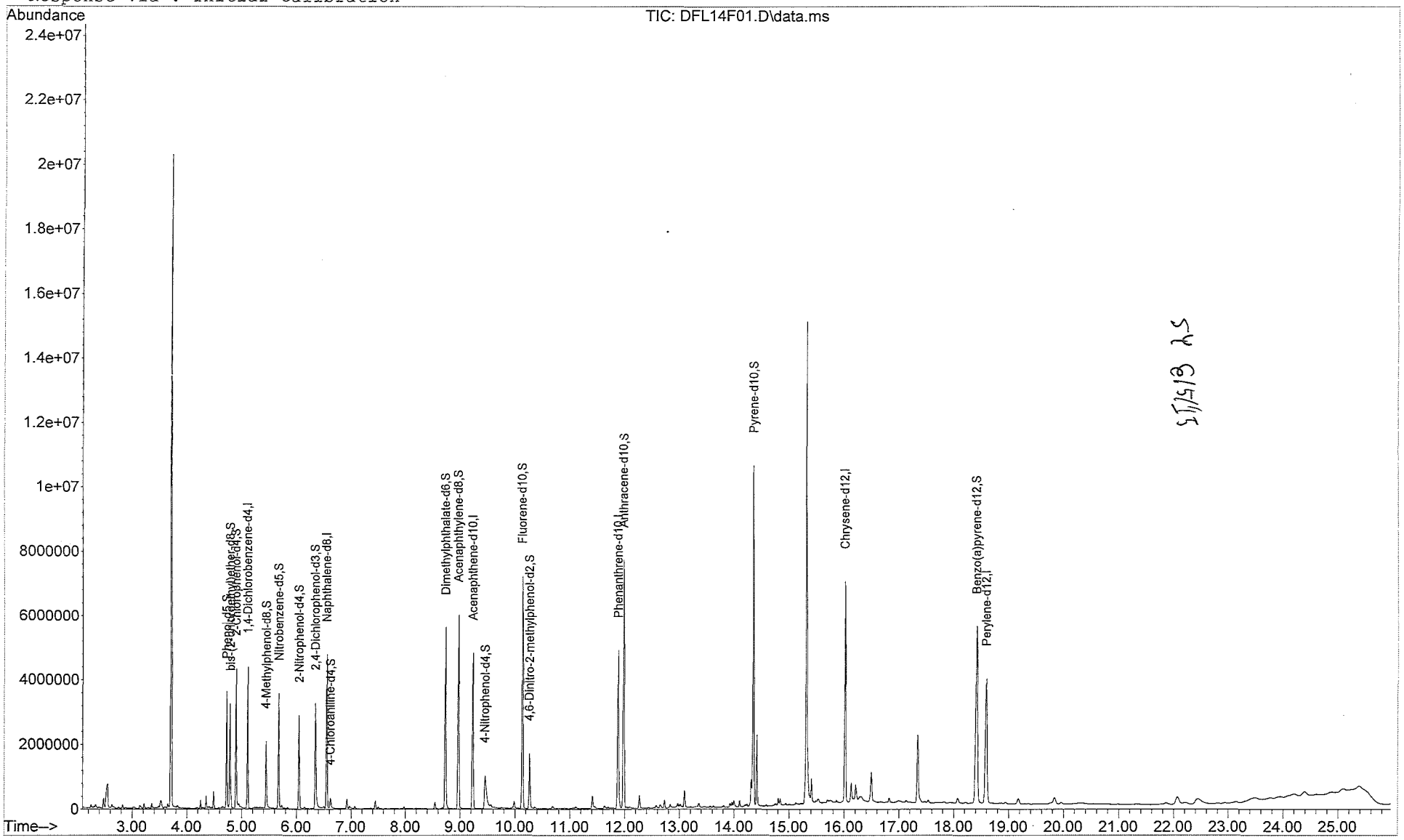
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:17:12 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5/27/15 LS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:12 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	781530	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2646503	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1664972	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2976695	20.00 ug/ml
73) Chrysene-d12	16.02	240	3576597	20.00 ug/ml
81) Perylene-d12	18.59	264	3415453	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1301185	26.751ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	839562	23.589ug/mL
7) 2-Chlorophenol-d4	4.89	132	1214359	25.047ug/ml
13) 4-Methylphenol-d8	5.45	113	548844	15.053ug/mL
17) Nitrobenzene-d5	5.67	128	570644	26.326ug/ml
21) 2-Nitrophenol-d4	6.05	143	682084	26.535ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1072311	25.814ug/mL
28) 4-Chloroaniline-d4	6.62	131	170773	5.472ug/mL
42) Dimethylphthalate-d6	8.73	166	3568599	34.763ug/mL
45) Acenaphthylene-d8	8.97	160	3965703	29.339ug/mL
50) 4-Nitrophenol-d4	9.46	143	546505	32.054ug/mL
57) Fluorene-d10	10.13	176	2964073	32.677ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	448719	23.870ug/mL
69) Anthracene-d10	11.98	188	5064997	33.213ug/mL
75) Pyrene-d10	14.35	212	5227160	34.705ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5019277	32.112ug/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)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:12 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

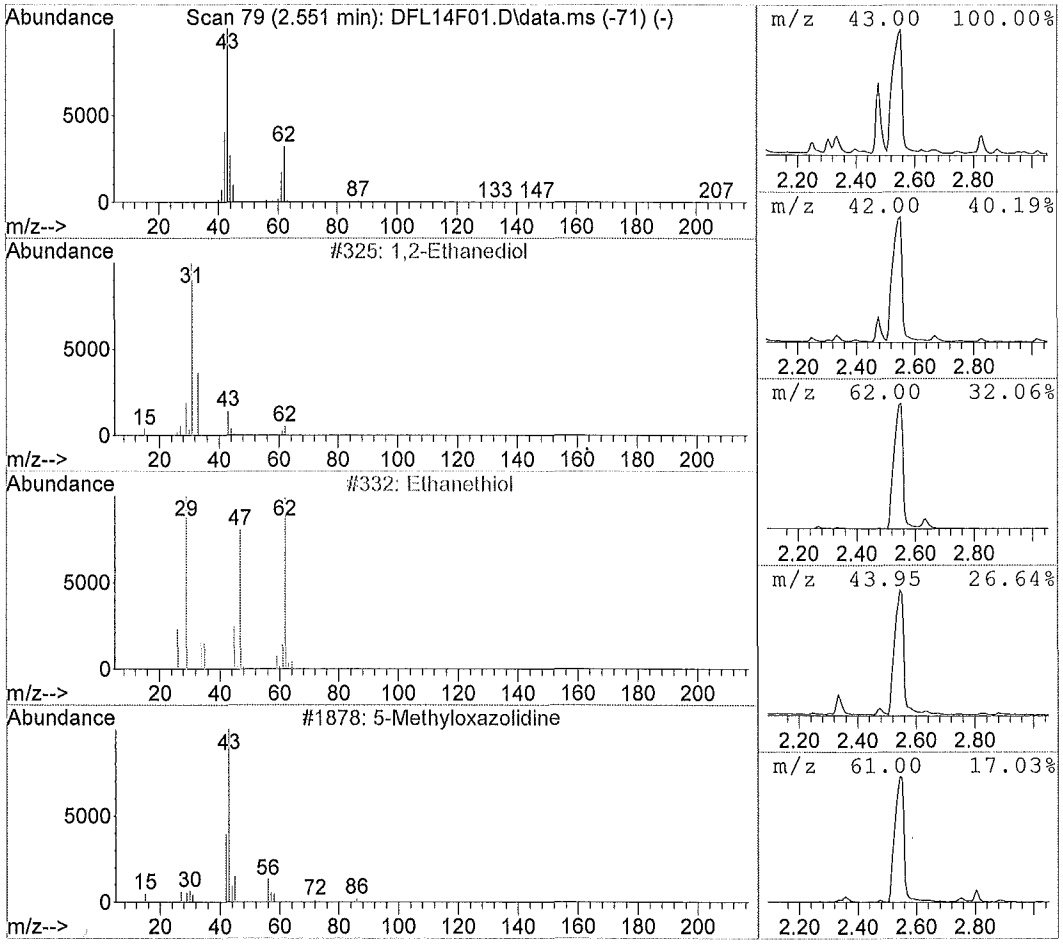
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.55	7.49 ug/ml	1727351	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Ethanethiol	332	000075-08-1	5.00
3	5-Methyloxazolidine	1878	058328-22-6	5.00
4	Ethanimidic acid, ethyl ester	1898	001000-84-6	5.00
5	Peroxide, dimethyl	330	000690-02-8	4.00



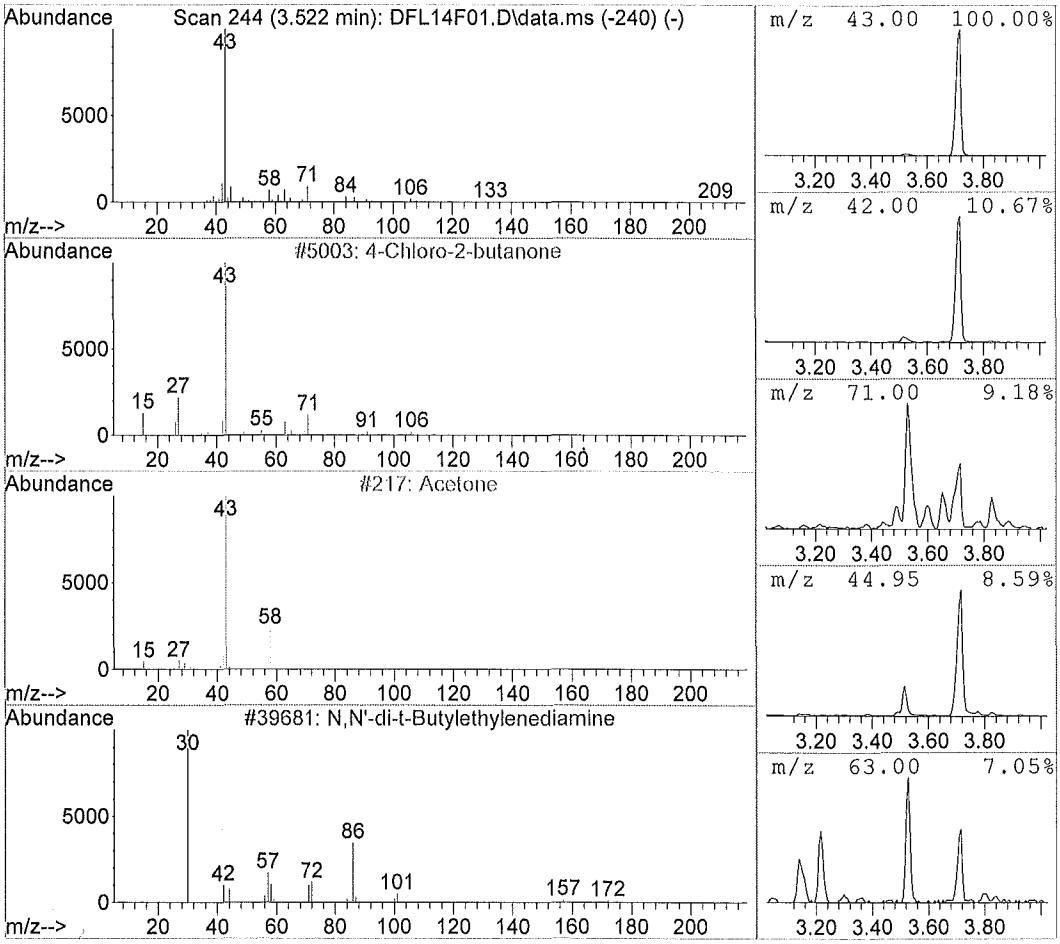
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.12 ug/ml	488167	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	47.00
2	Acetone	217	000067-64-1	35.00
3	N,N'-di-t-Butylethylenediamine	39681	004062-60-6	9.00
4	2-Pentanone, 4-hydroxy-	4267	004161-60-8	9.00
5	Acetamide, N-methyl-	739	000079-16-3	9.00



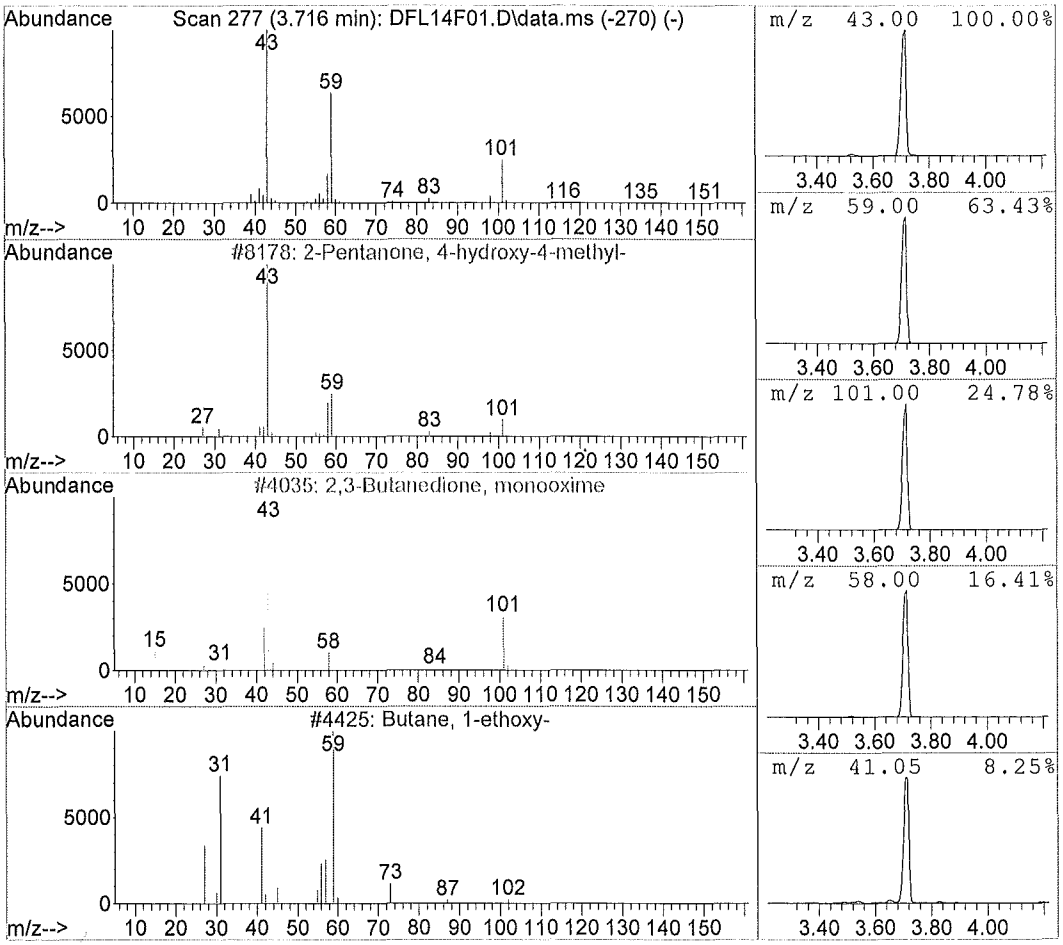
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	105.32 ug/ml	24300929	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	59.00
2	2,3-Butanedione, monooxime	4035	000057-71-6	25.00
3	Butane, 1-ethoxy-	4425	000628-81-9	9.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00
5	Guanidine	258	000113-00-8	9.00



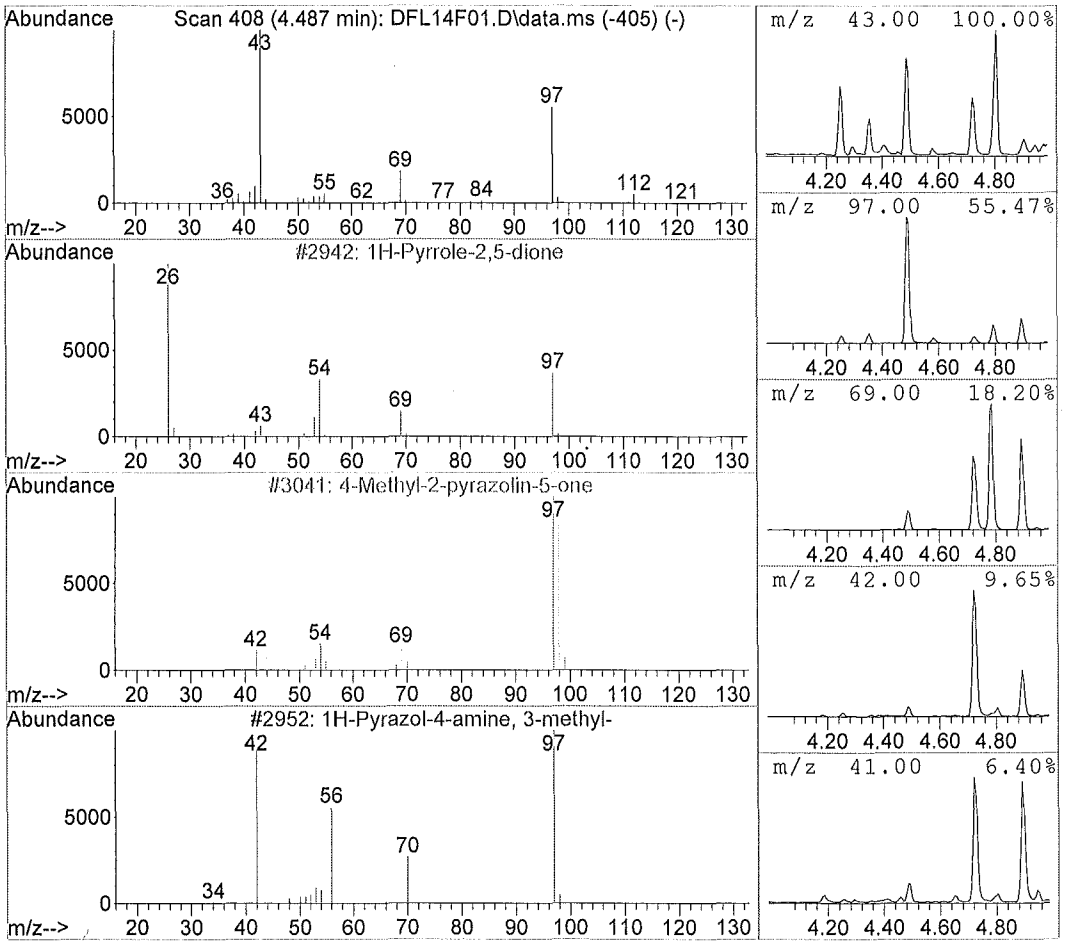
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.21 ug/ml	509529	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
3	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00
4	5-Hexen-2-one	3152	000109-49-9	10.00
5	1H-Pyrazole, 4,5-dihydro-3,4,5-trim	6320	022591-95-3	9.00



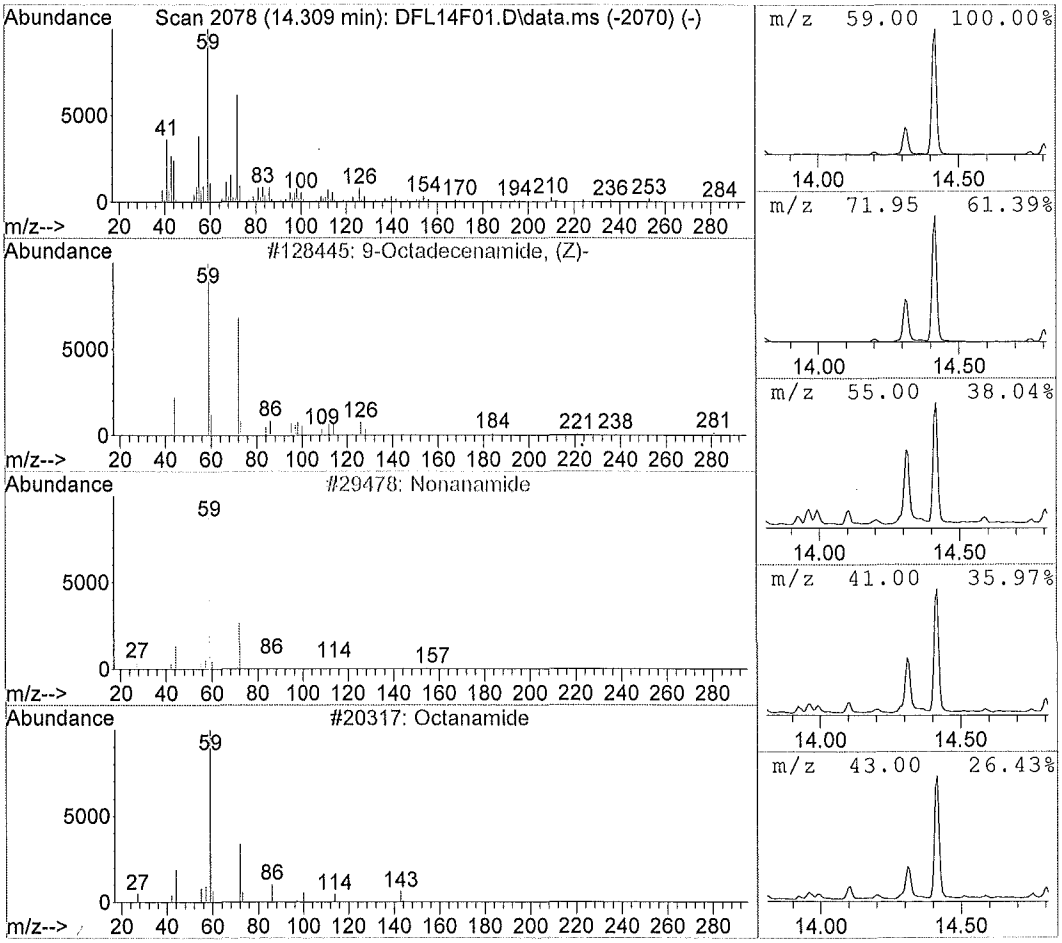
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.45 ug/ml	1124349	Chrysene-d12	9179833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	Nonanamide	29478	001120-07-6	59.00
3	Octanamide	20317	000629-01-6	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	7-Nonenamide	28131	090949-53-4	59.00



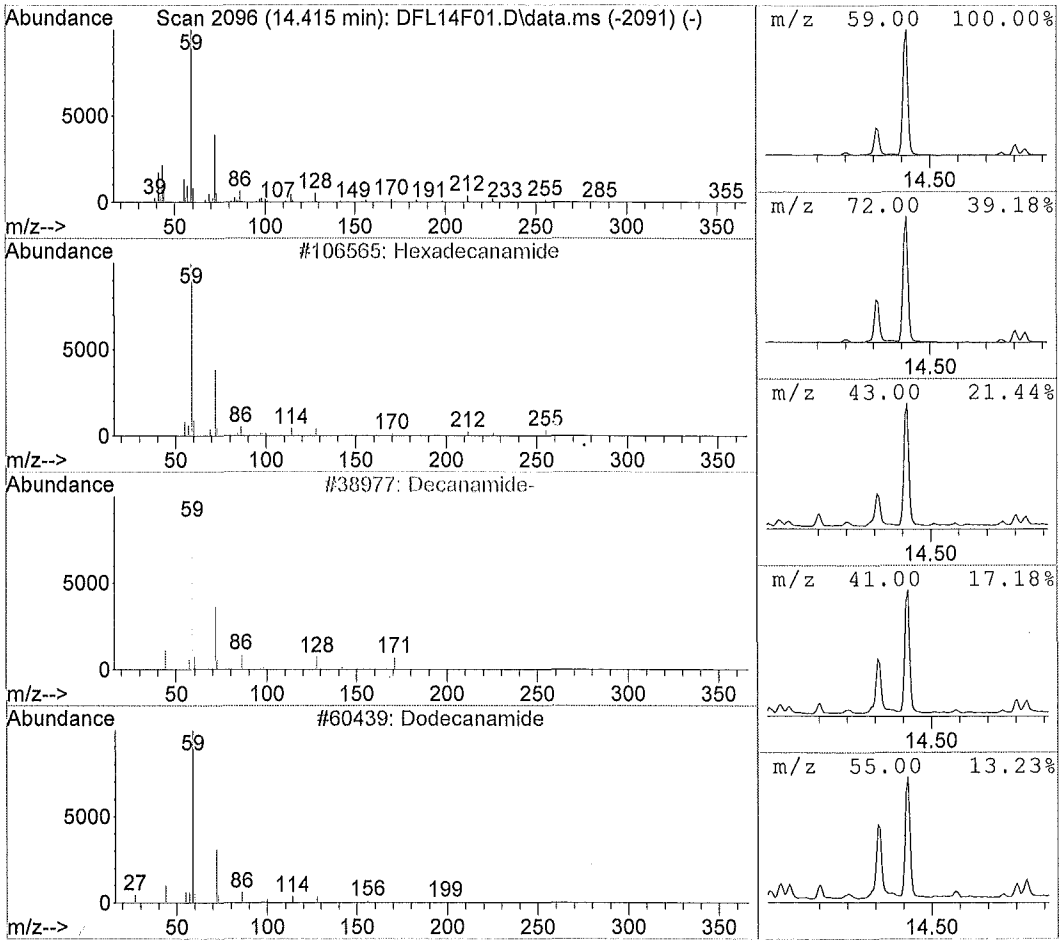
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.55 ug/ml	2546182	Chrysene-d12	9179833

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	Dodecanamide	60439	001120-16-7	86.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



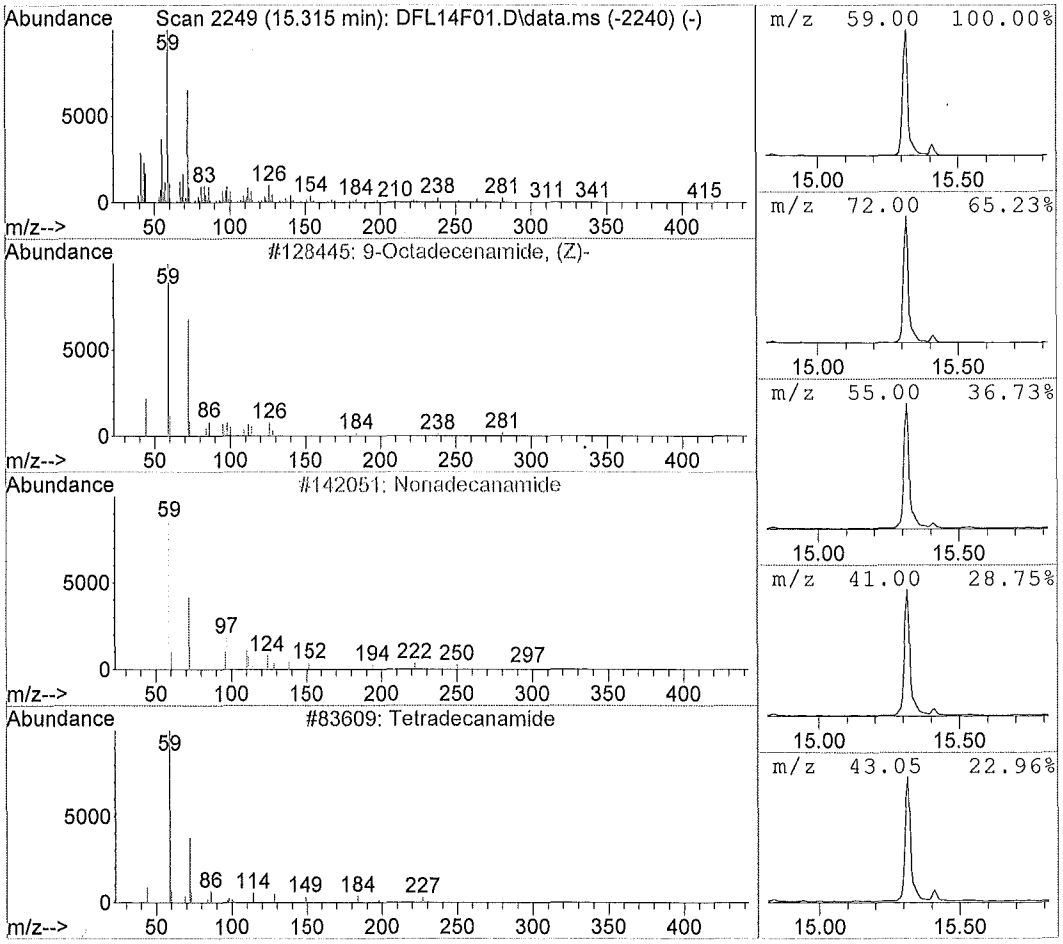
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	42.86 ug/ml	19672095	Chrysene-d12	9179833

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	Tetradecanamide	83609	000638-58-4	64.00
4	Octanamide	20317	000629-01-6	53.00
5	Hexadecanamide	106564	000629-54-9	50.00



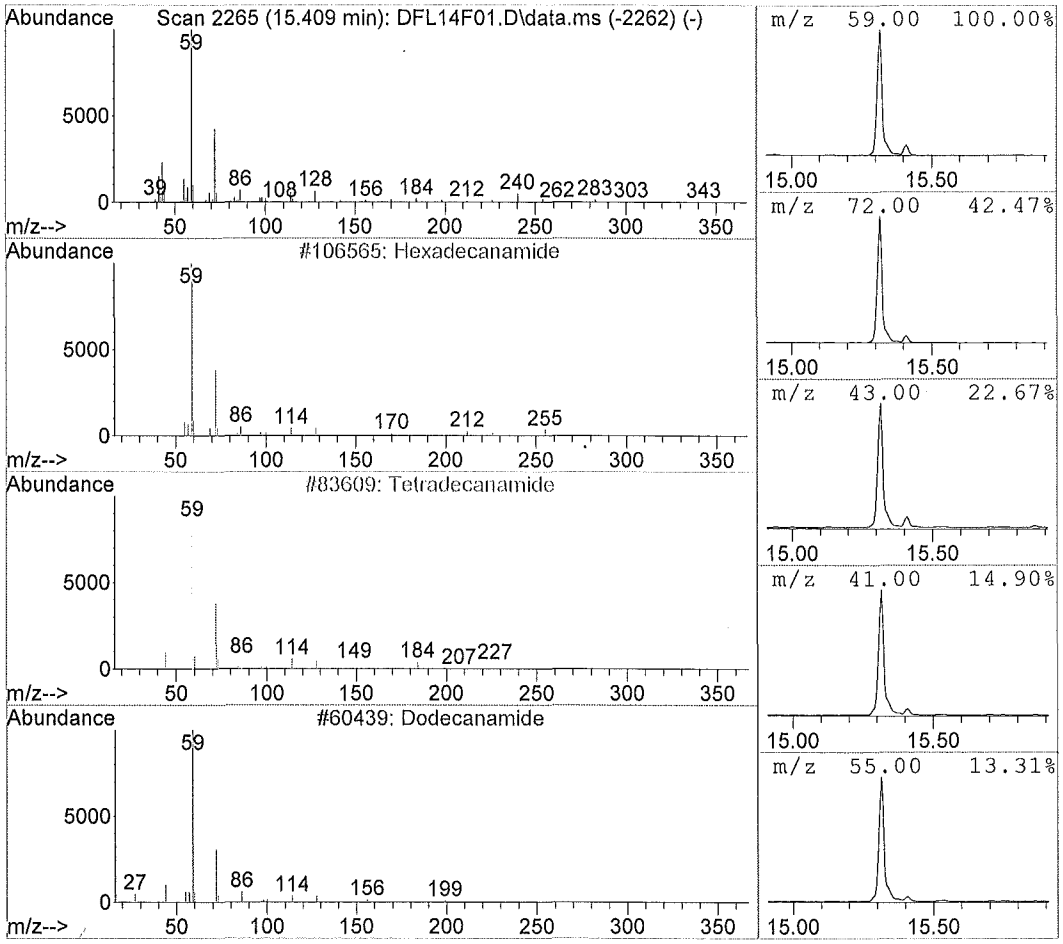
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.06 ug/ml	943487	Chrysene-d12	9179833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	78.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Nonadecanamide	142051	058185-32-3	64.00



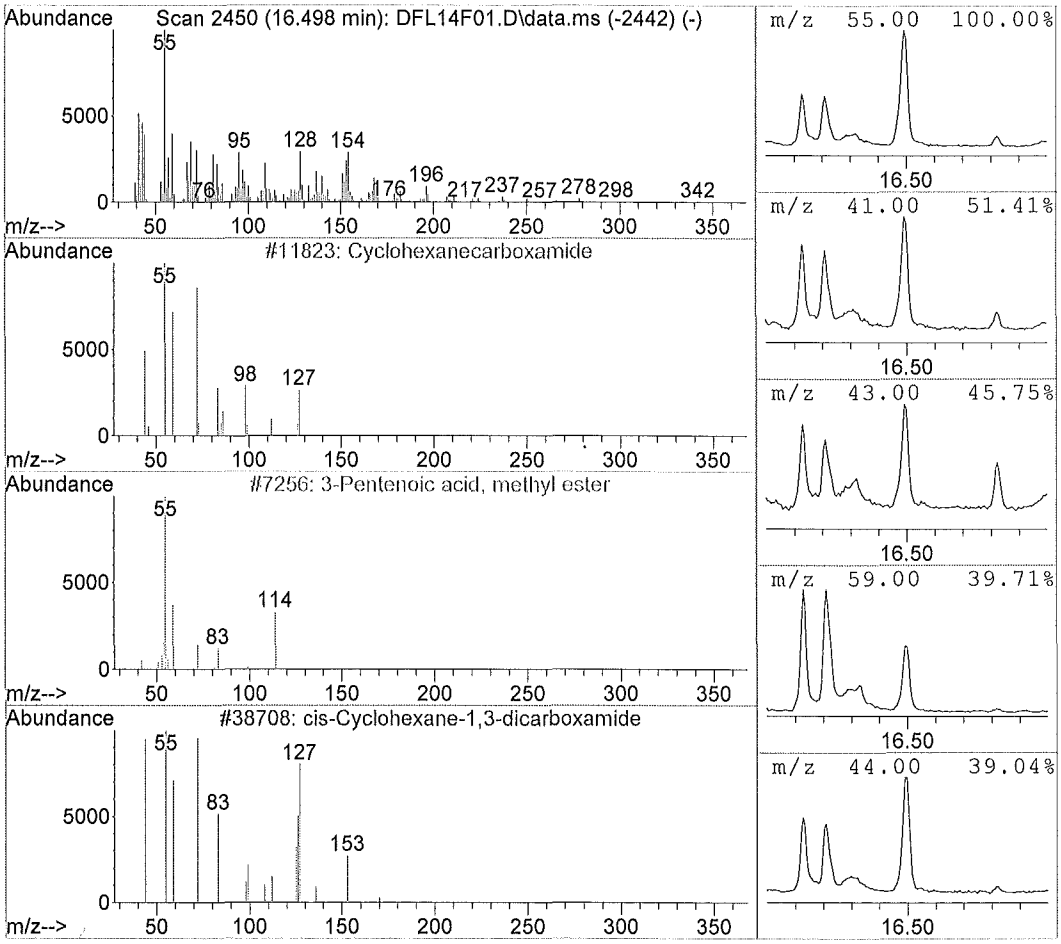
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.46 ug/ml	1589564	Chrysene-d12	9179833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00
3	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	10.00
4	1-Decanol, 5,9-dimethyl-	50339	091482-38-1	10.00
5	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00



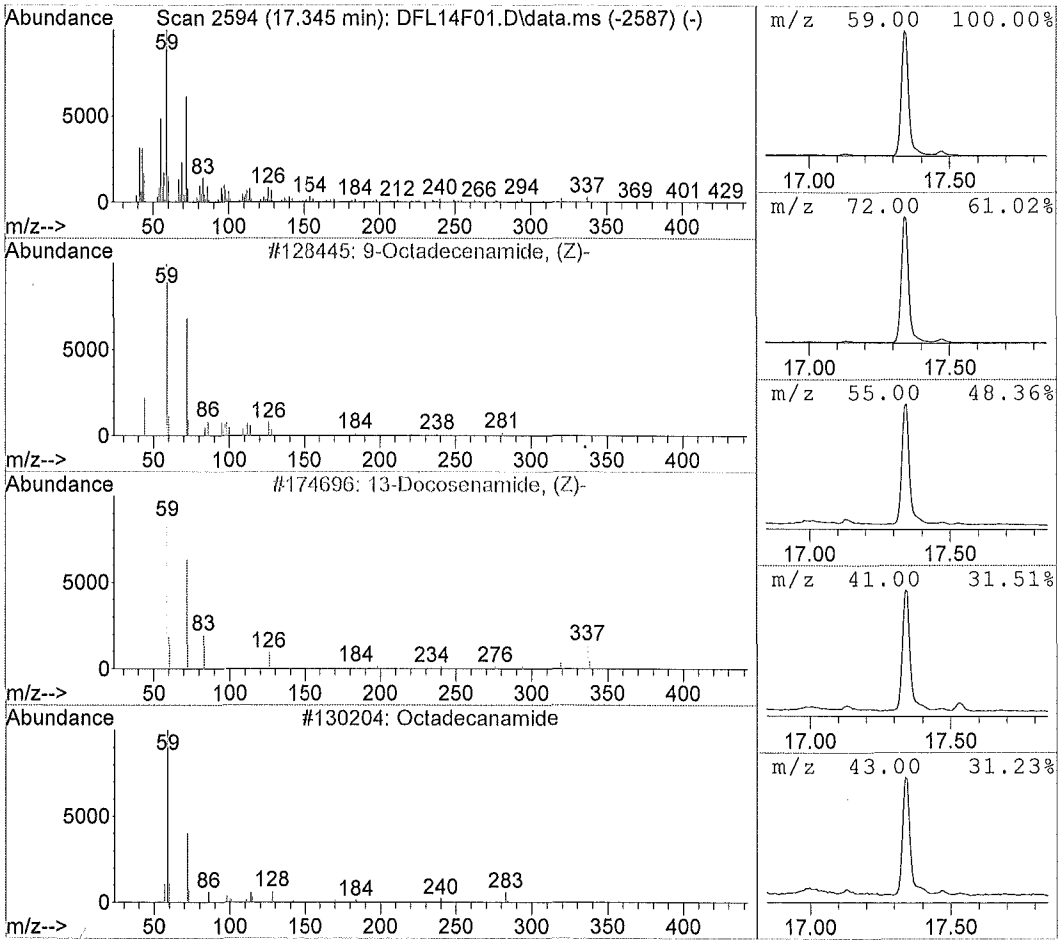
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	8.62 ug/ml	3804909	Perylene-d12	8830059

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	78.00
3	Octadecanamide	130204	000124-26-5	59.00
4	Octanamide	20317	000629-01-6	59.00
5	N-Chloroacetyl-dl-erythro-O-methylt	68766	1000214-48-1	43.00



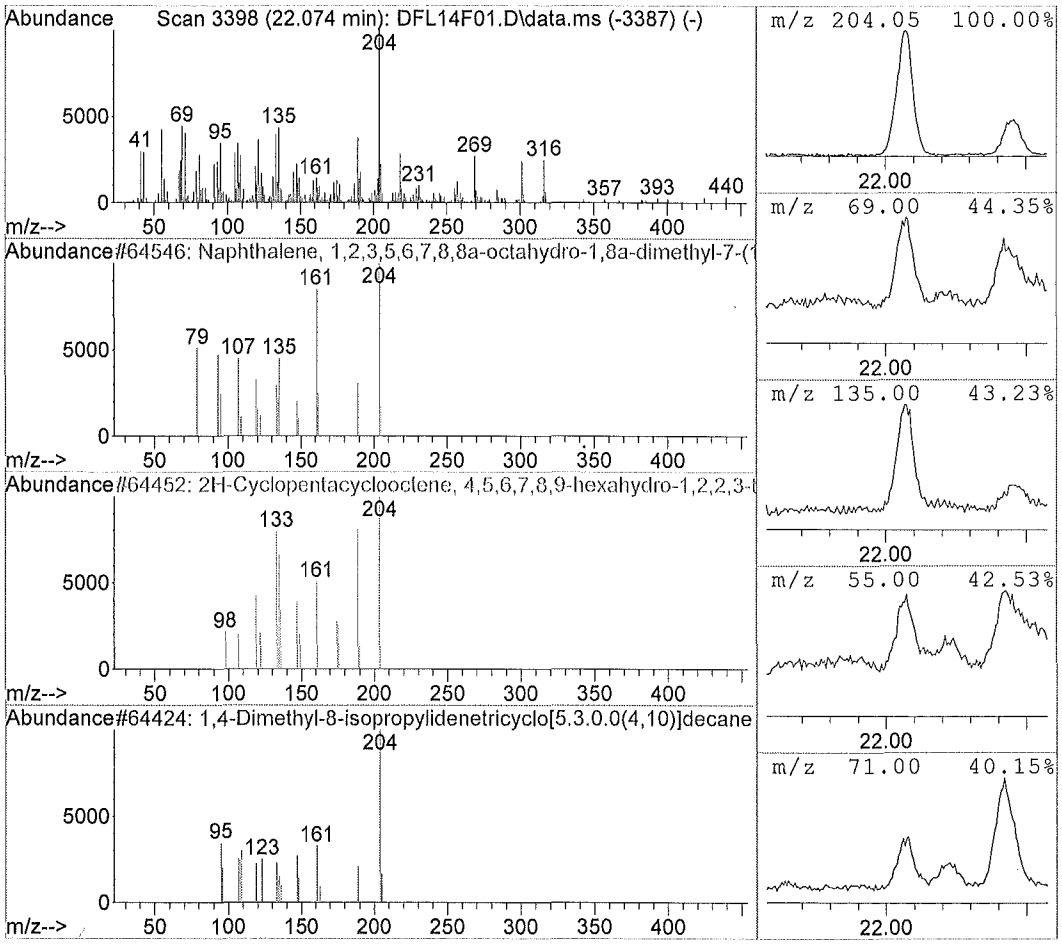
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	2.05 ug/ml	904553	Perylene-d12	8830059

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	83.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	58.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	53.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM18F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.5 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.

F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM18F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.5 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.

F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM18F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.70	4900	JB
02		Unknown Butanoic acid, 2-butoxy-1-methyl-2-oxoet	9.99	1700	J
03	301-02-0	9-Octadecenamide, (Z)-	15.31	1300	JNB
04	1058-61-3	Stigmast-4-en-3-one	25.39	1700	JN
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

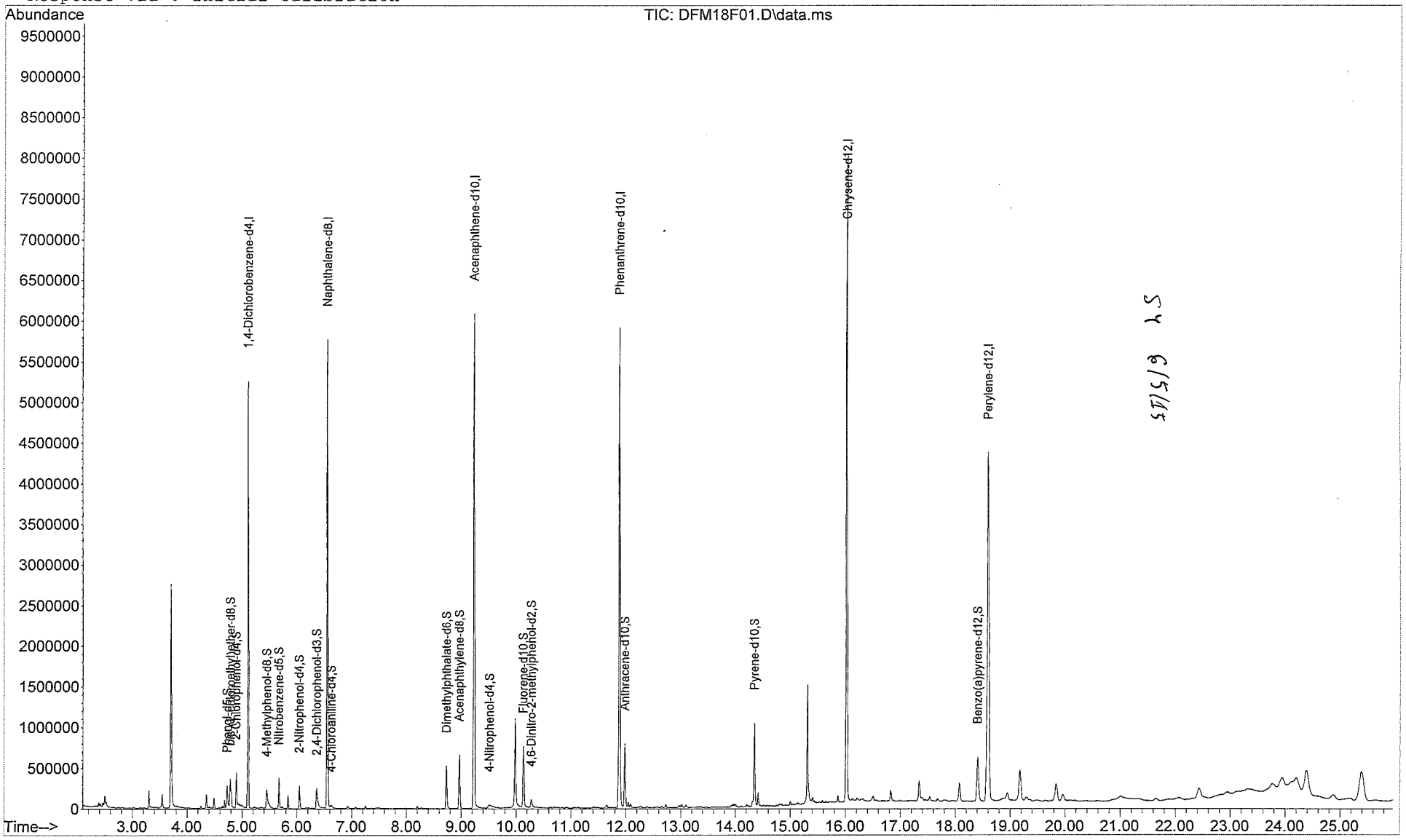
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 10:45:06 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



SY 6/5/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 10:45:06 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	963833	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3280136	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	2057801	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3626589	20.00 ug/ml
73) Chrysene-d12	16.02	240	4209039	20.00 ug/ml
81) Perylene-d12	18.60	264	3853662	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	140605	2.344ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	91980	2.096ug/mL
7) 2-Chlorophenol-d4	4.89	132	140937	2.357ug/ml
13) 4-Methylphenol-d8	5.45	113	108314	2.409ug/mL
17) Nitrobenzene-d5	5.67	128	62295	2.319ug/ml
21) 2-Nitrophenol-d4	6.05	143	68676	2.156ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	123276	2.394ug/mL
28) 4-Chloroaniline-d4	6.63	131	20968	0.542ug/mL
42) Dimethylphthalate-d6	8.73	166	357052	2.814ug/mL
45) Acenaphthylene-d8	8.97	160	437189	2.617ug/mL
50) 4-Nitrophenol-d4	9.51	143	36239	1.720ug/mL
57) Fluorene-d10	10.13	176	317710	2.834ug/mL
61) 4,6-Dinitro-2-methylphenol	10.28	200	32265	1.409ug/mL
69) Anthracene-d10	11.98	188	532120	2.864ug/mL
75) Pyrene-d10	14.34	212	525131	2.963ug/mL
86) Benzo(a)pyrene-d12	18.41	264	480989	2.727ug/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)

00146

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 10:45:06 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

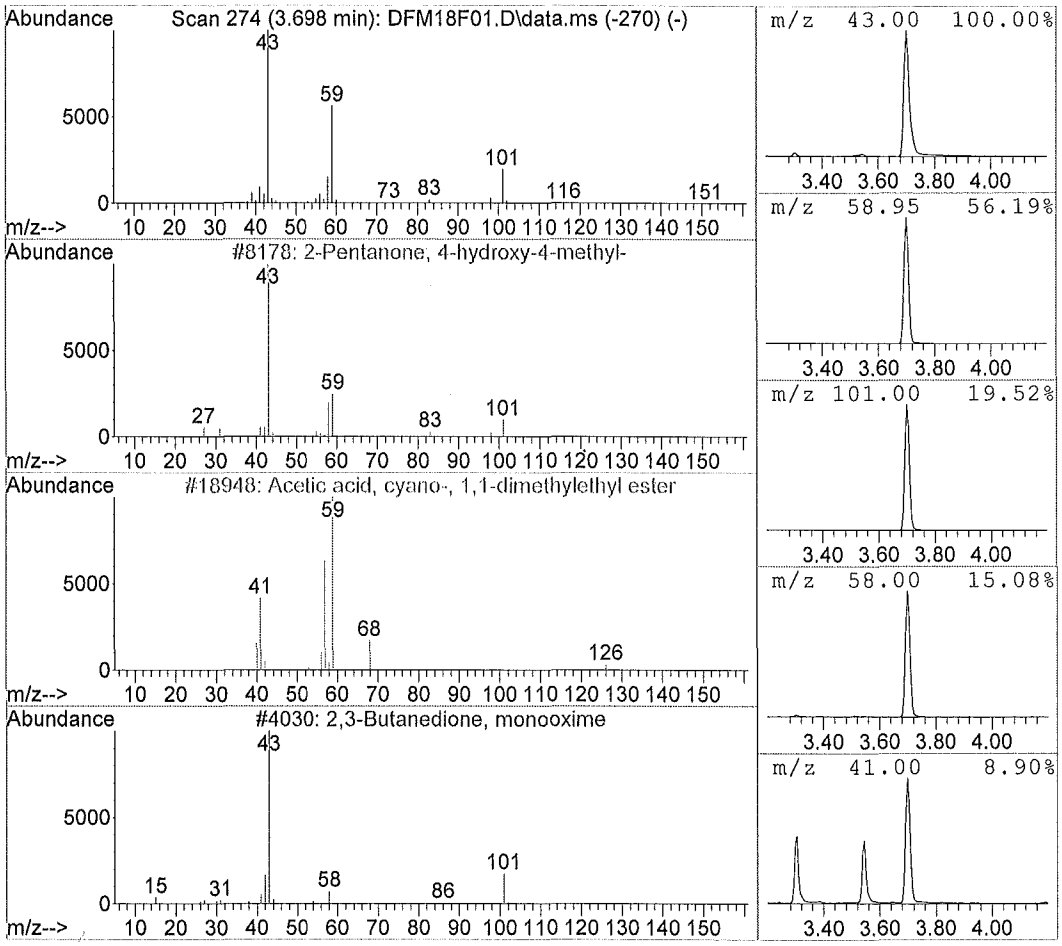
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	12.15 ug/ml	3497565	1,4-Dichlorobenzene-d4	5757628

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	Acetic acid, 1,1-dimethylethyl este	8202	000540-88-5	9.00



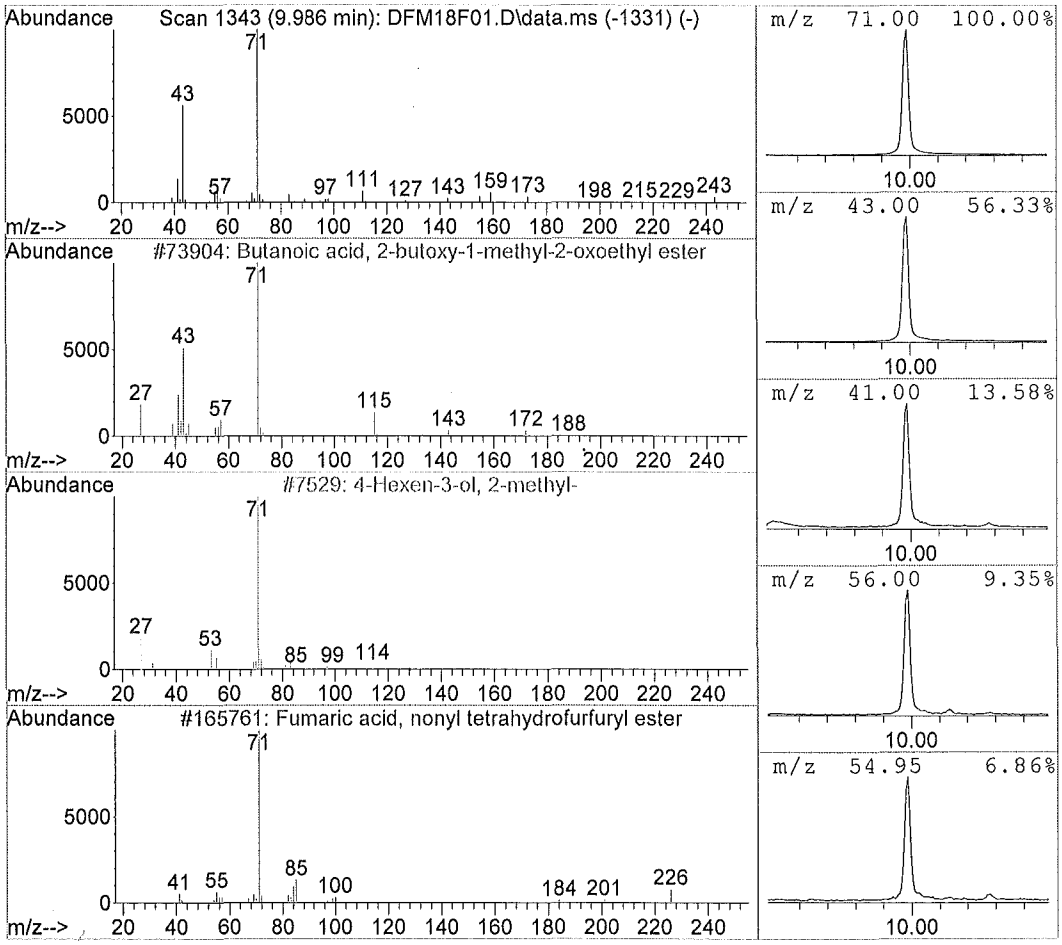
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	4.16 ug/ml	1739821	Acenaphthene-d10	8365211

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	50.00
2	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00
3	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	42.00
4	Propanoic acid, 2-methyl-, 1,2,3-pr	146092	014295-64-8	42.00
5	Sulfurous acid, nonyl 2-pentyl este	125658	1000309-15-8	39.00



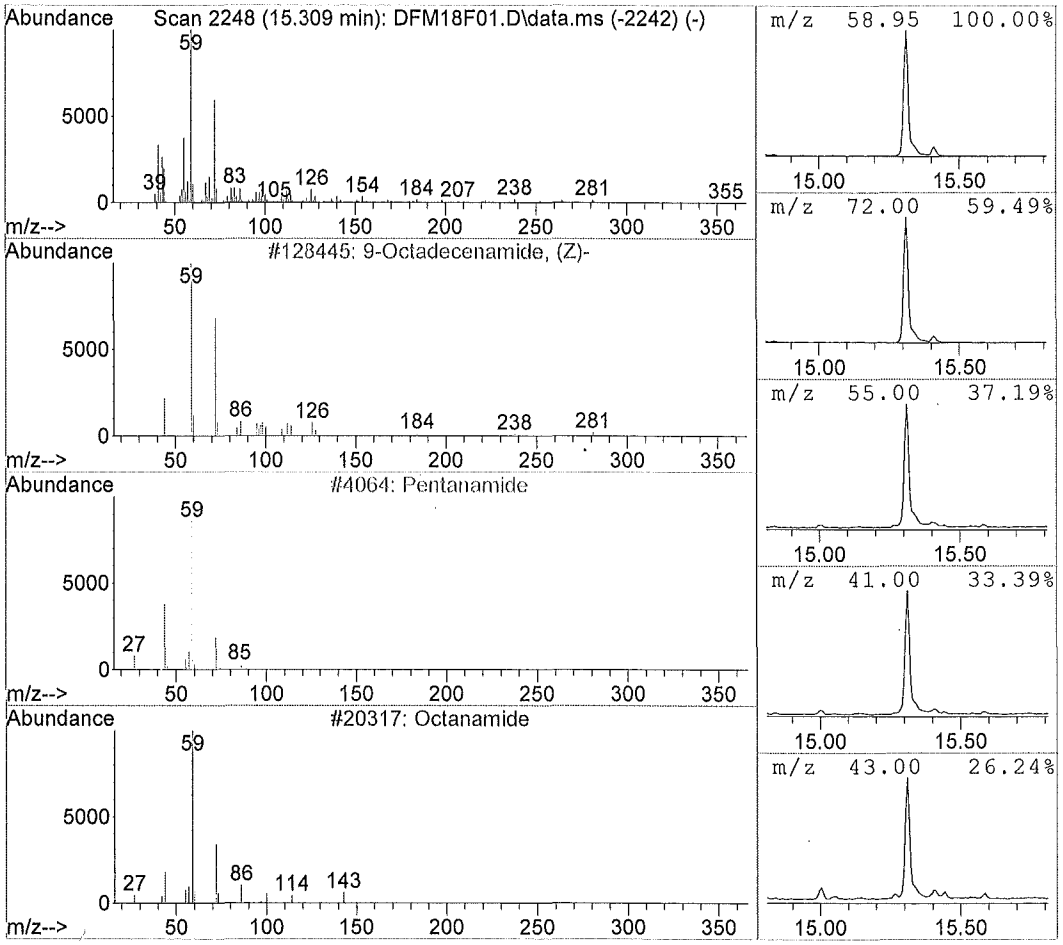
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	3.17 ug/ml	1730707	Chrysene-d12	10902672

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentanamide	4064	000626-97-1	72.00
3	Octanamide	20317	000629-01-6	64.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00



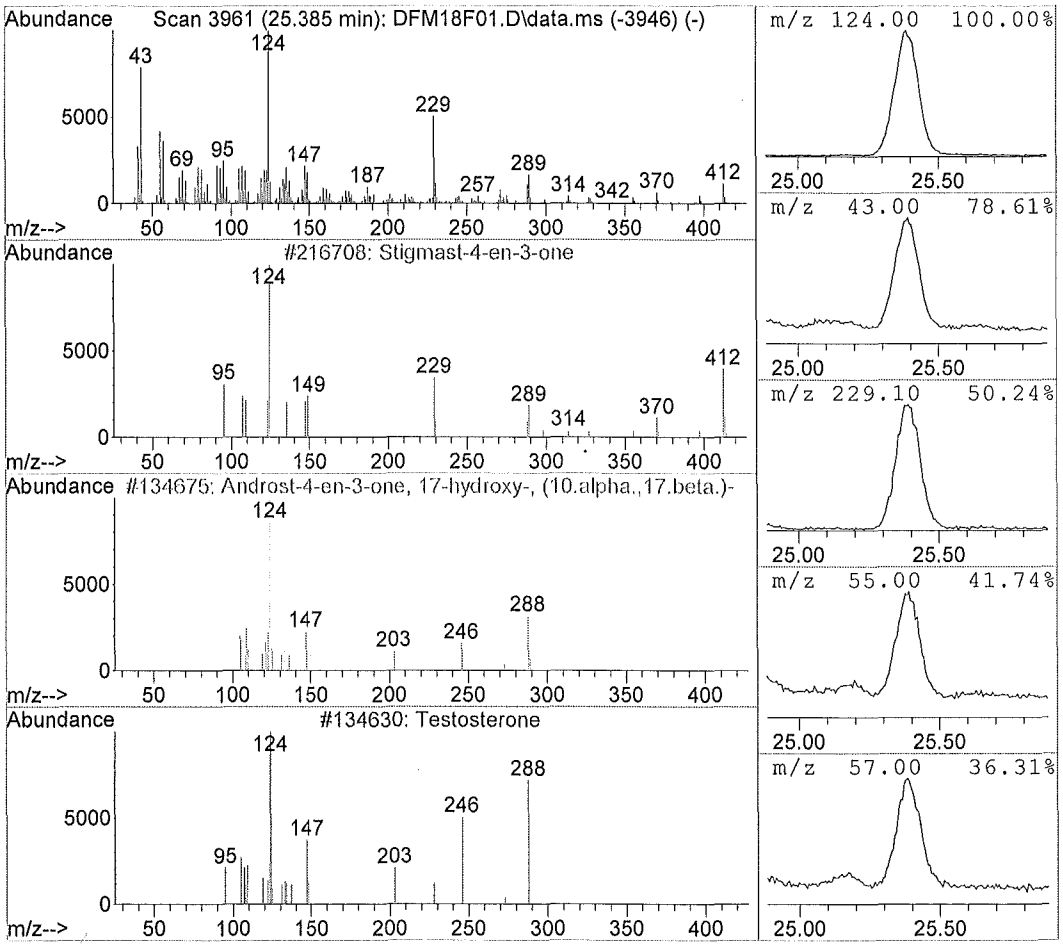
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM18F01.D Vial: 16
Acq On : 05/28/2015 10:18 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
25.39	4.10 ug/ml	2087952	Perylene-d12	10174109

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	96.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	70.00
3	Testosterone	134630	000058-22-0	58.00
4	1,3-Benzenediol, 5-pentadecyl-	161553	003158-56-3	35.00
5	Hyoscyamine	135271	000101-31-5	30.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL06F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL06F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	21.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL06F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.6 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-	2.48	81.	JB
02		Unknown 1,2-Ethanediol	2.56	360	J
03		Unknown 4-Chloro-2-butanone	3.52	81.	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4900	JB
05		Unknown 3-Hexene-2,5-dione	4.49	94.	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	120	JB
07	57-10-3	n-Hexadecanoic acid	12.97	87.	JN
08	301-02-0	9-Octadecenamide, (Z)-	14.31	110	JNB
09	629-54-9	Hexadecanamide	14.42	180	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.32	1400	JNB
11	629-54-9	Hexadecanamide	15.41	78.	JN
12		Unknown Cyclohexanecarboxamide	16.50	110	J
13	301-02-0	9-Octadecenamide, (Z)-	17.35	1000	JN
14		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.20	2200	J
15		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	22.07	140	J
16		Unknown 16-Hentriacontanone	22.23	310	J
17		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.47	2900	J
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

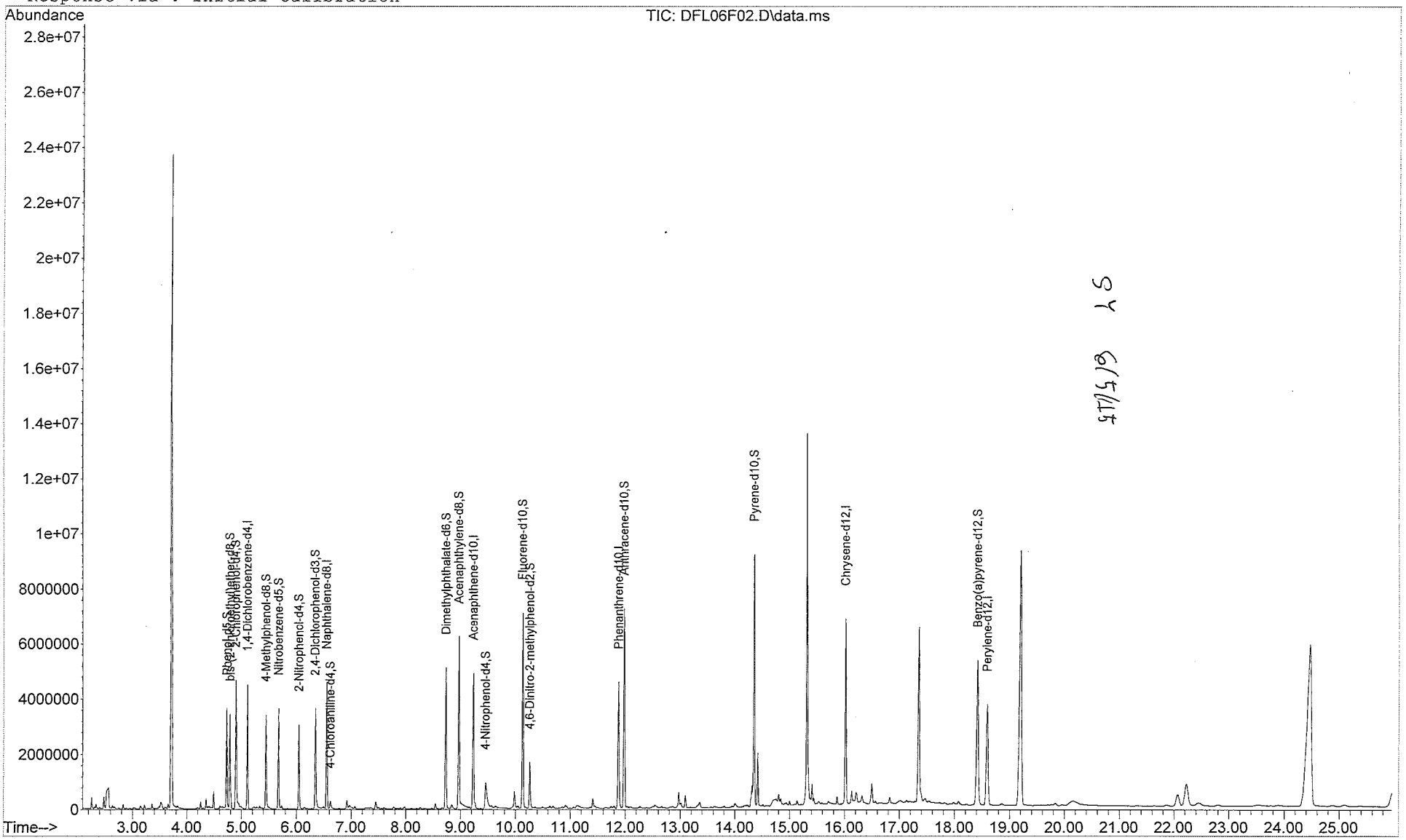
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 10:56:32 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5/27/15 LS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:56:32 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	812837	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2715448	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1672690	20.00 ug/ml
59) Phenanthrene-d10	11.87	188	2895480	20.00 ug/ml
73) Chrysene-d12	16.02	240	3392654	20.00 ug/ml
81) Perylene-d12	18.59	264	3222814	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1385309	27.384ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	883154	23.858ug/mL
7) 2-Chlorophenol-d4	4.89	132	1352617	26.824ug/ml
13) 4-Methylphenol-d8	5.45	113	890006	23.470ug/mL
17) Nitrobenzene-d5	5.67	128	602396	27.085ug/ml
21) 2-Nitrophenol-d4	6.05	143	711764	26.986ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1138433	26.710ug/mL
28) 4-Chloroaniline-d4	6.62	131	144577	4.515ug/mL
42) Dimethylphthalate-d6	8.73	166	3263558	31.645ug/mL
45) Acenaphthylene-d8	8.97	160	4009350	29.525ug/mL
50) 4-Nitrophenol-d4	9.46	143	473949	27.670ug/mL
57) Fluorene-d10	10.13	176	2816917	30.911ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	448015	24.502ug/mL
69) Anthracene-d10	11.98	188	4592271	30.958ug/mL
75) Pyrene-d10	14.34	212	4632347	32.423ug/mL
86) Benzo(a)pyrene-d12	18.42	264	4521844	30.659ug/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)

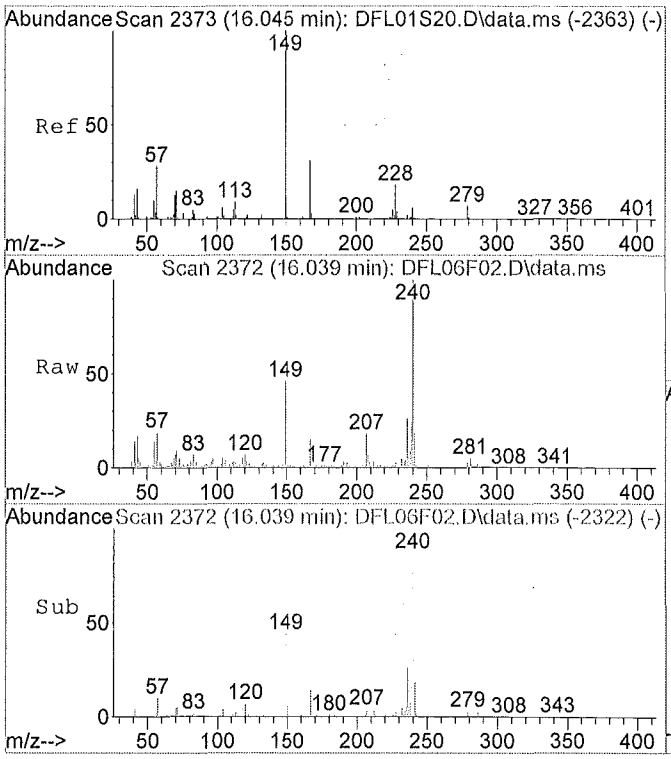
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:56:32 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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	16.04	149	64450	0.551ug/ml	92
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	

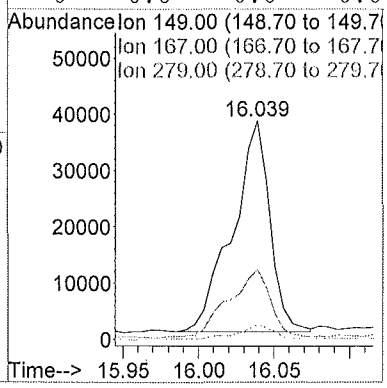
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.55 ug/ml
RT: 16.04 min Scan# 2372
Delta R.T. -0.01 min
Lab File: DFL06F02.D
Acq: 05/27/2015 11:39

Tgt Ion:149 Resp: 64450

Ion	Ratio	Lower	Upper
149	100		
167	36.3	22.0	40.8
279	6.4	5.0	9.2
0	0.0	0.0	0.0



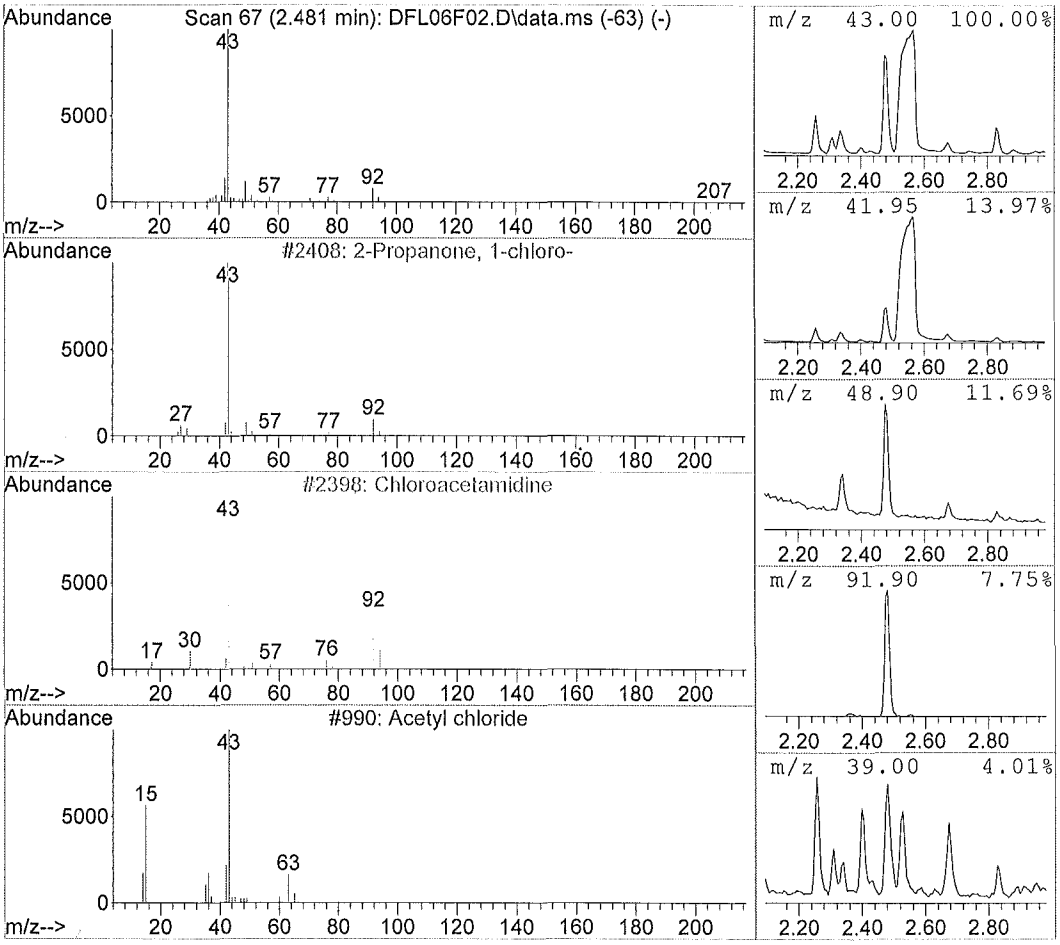
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.17 ug/ml	520536	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2408	000078-95-5	78.00
2	Chloroacetamidine	2398	020846-52-0	72.00
3	Acetyl chloride	990	000075-36-5	17.00
4	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
5	Ethyl Chloride	352	000075-00-3	9.00



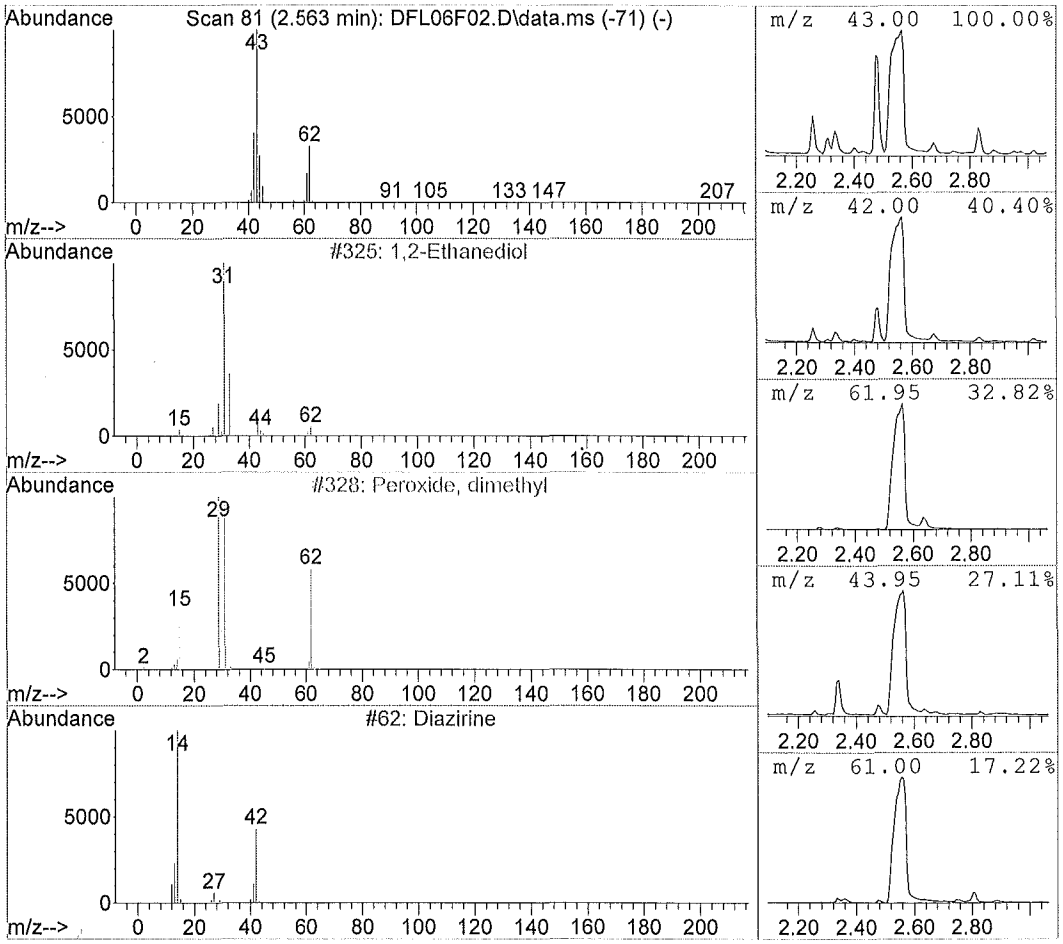
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.56	9.69 ug/ml	2321356	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	45.00
2	Peroxide, dimethyl	328	000690-02-8	4.00
3	Diazirine	62	1000305-84-1	3.00
4	Urea	299	000057-13-6	2.00
5	Cyclobutylamine	610	002516-34-9	2.00



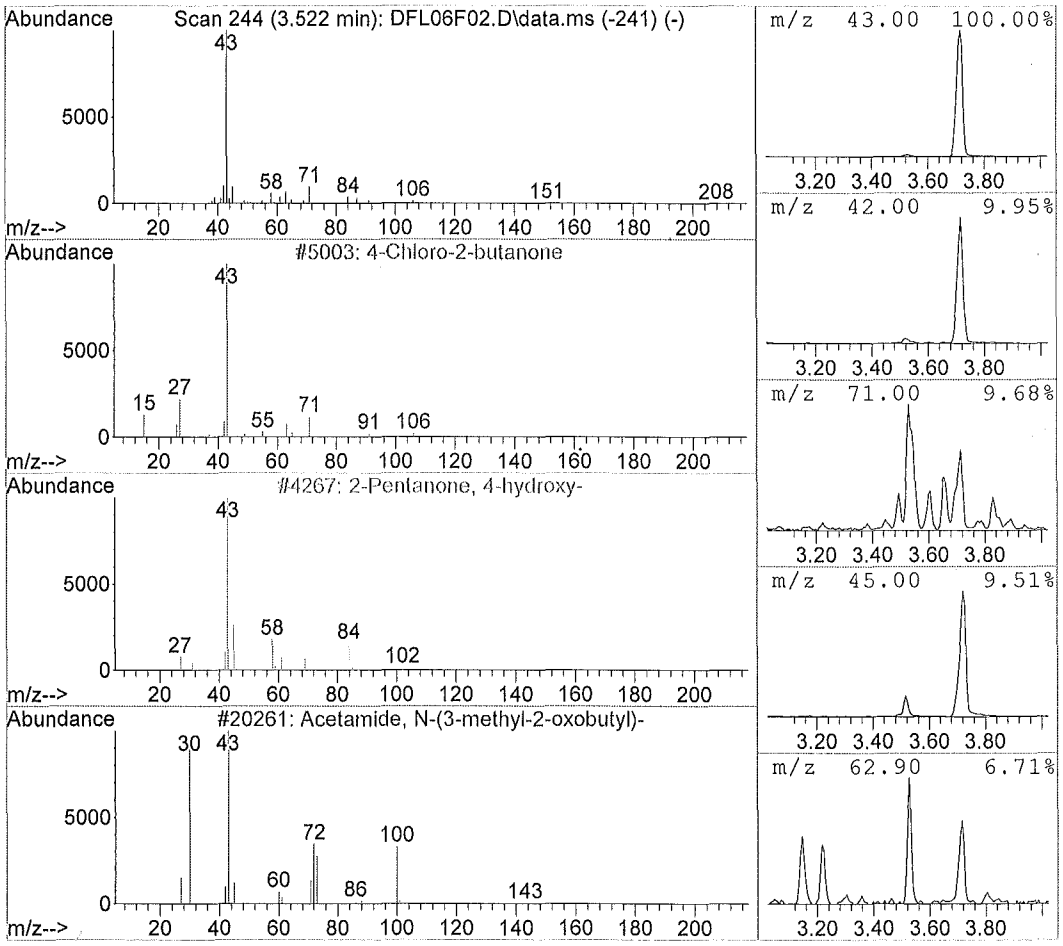
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.15 ug/ml	515327	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	23.00
2	2-Pentanone, 4-hydroxy-	4267	004161-60-8	9.00
3	Acetamide, N-(3-methyl-2-oxobutyl)-	20261	082479-25-2	9.00
4	Acetone	217	000067-64-1	9.00
5	CH3C(O)CH2CH2OH	2021	000590-90-9	9.00



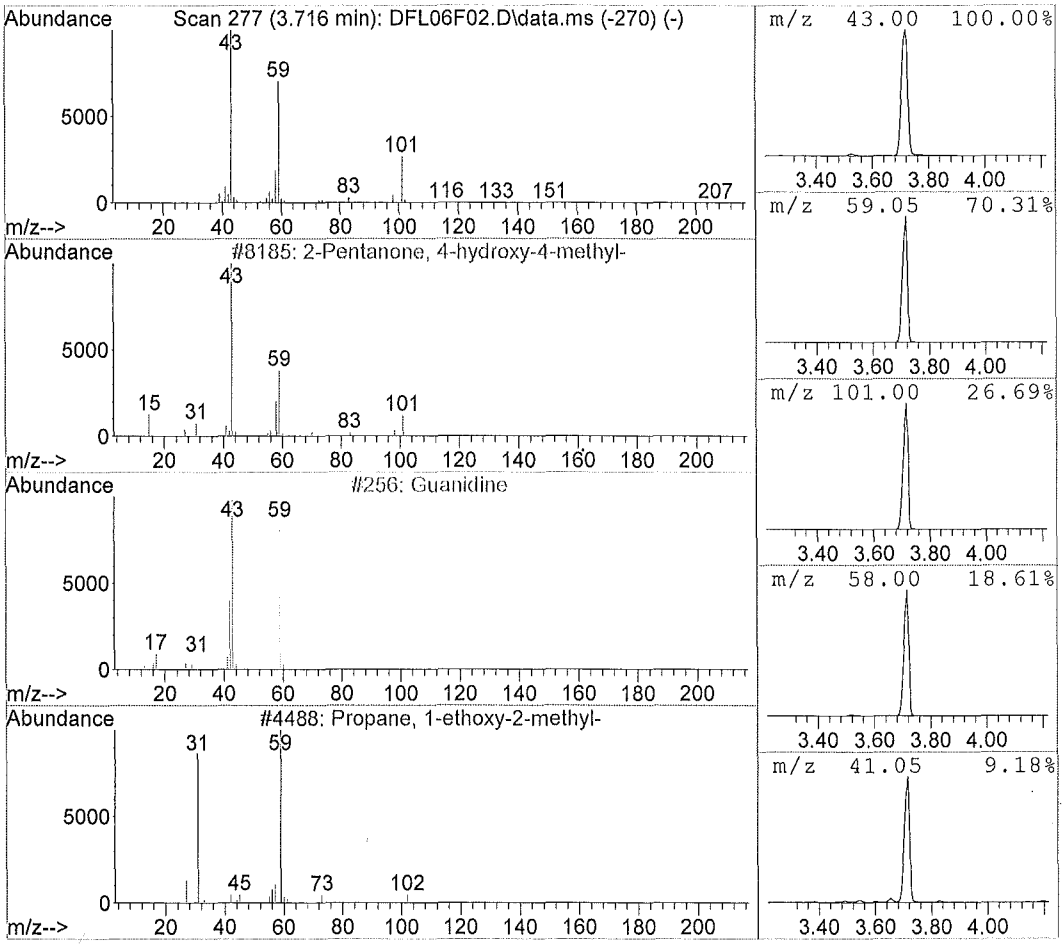
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	130.31 ug/ml	31201984	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	25.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	23.00
5	Formamide, N,N-diethyl-	4092	000617-84-5	9.00



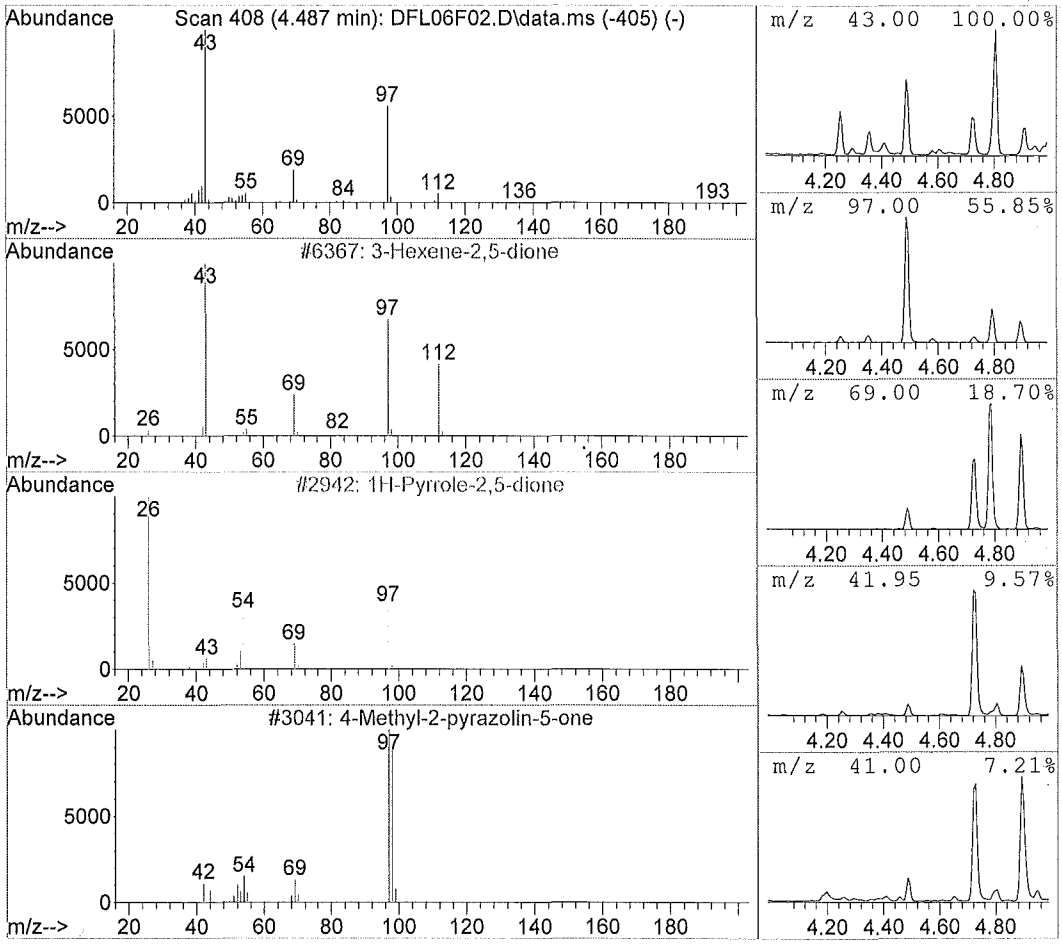
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.53 ug/ml	604853	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	64.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	1H-Pyrazole, 4,5-dihydro-3,4,5-trim	6320	022591-95-3	9.00
5	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00



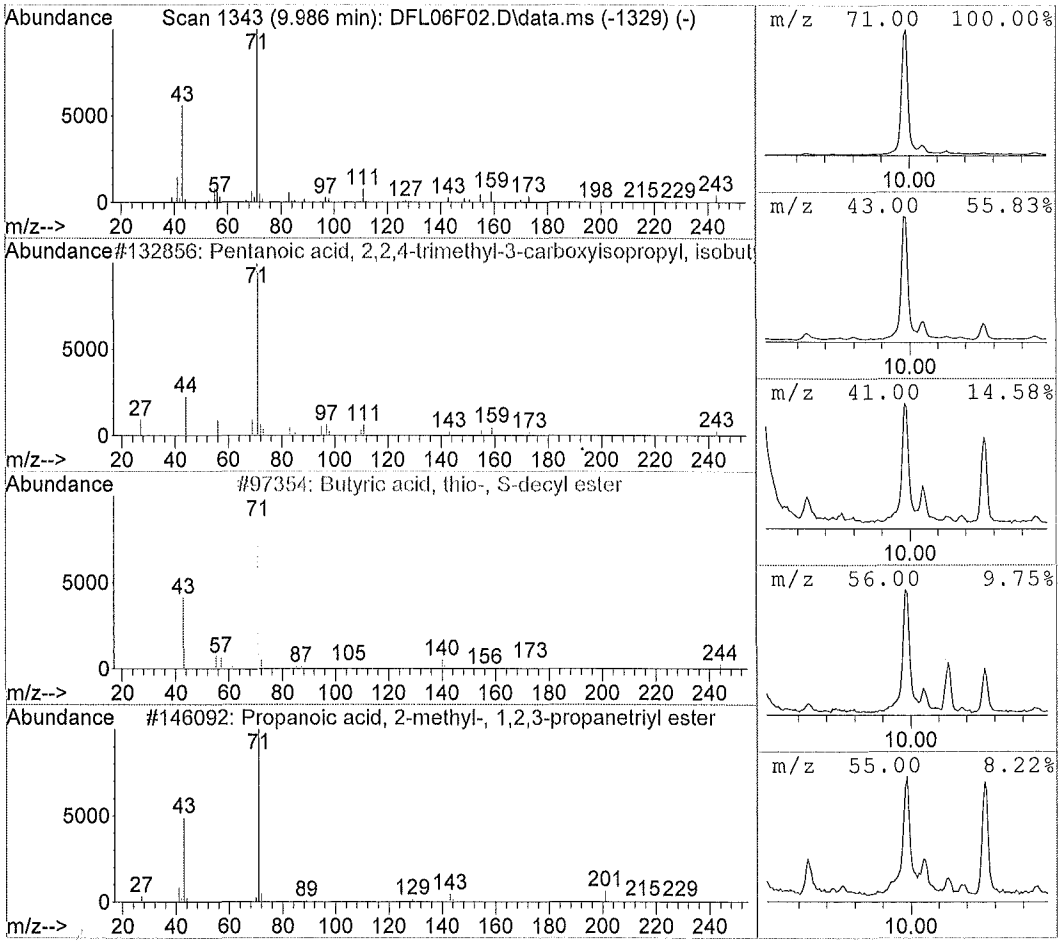
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	3.30 ug/ml	1120300	Acenaphthene-d10	6783238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	56.00
2	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	53.00
3	Propanoic acid, 2-methyl-, 1,2,3-pr	146092	014295-64-8	42.00
4	Valeric acid, 2-tetrahydrofurylmeth	49885	005451-86-5	42.00
5	Ethylene glycol di-n-butyrate	62244	000105-72-6	42.00



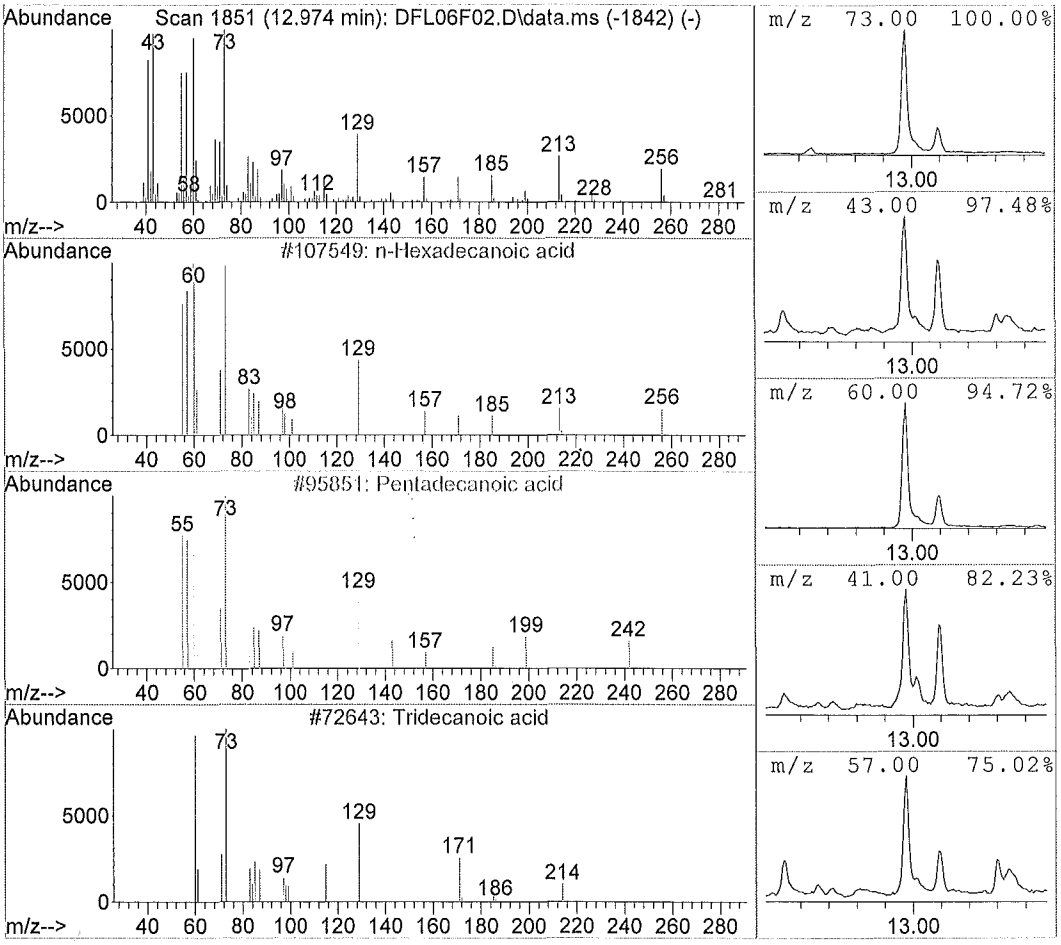
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.97	2.32 ug/ml	834693	Phenanthrene-d10	7206732

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95851	001002-84-2	89.00
3	Tridecanoic acid	72643	000638-53-9	76.00
4	Tetradecanoic acid	84452	000544-63-8	74.00
5	n-Decanoic acid	39469	000334-48-5	53.00



Library Search Compound Report

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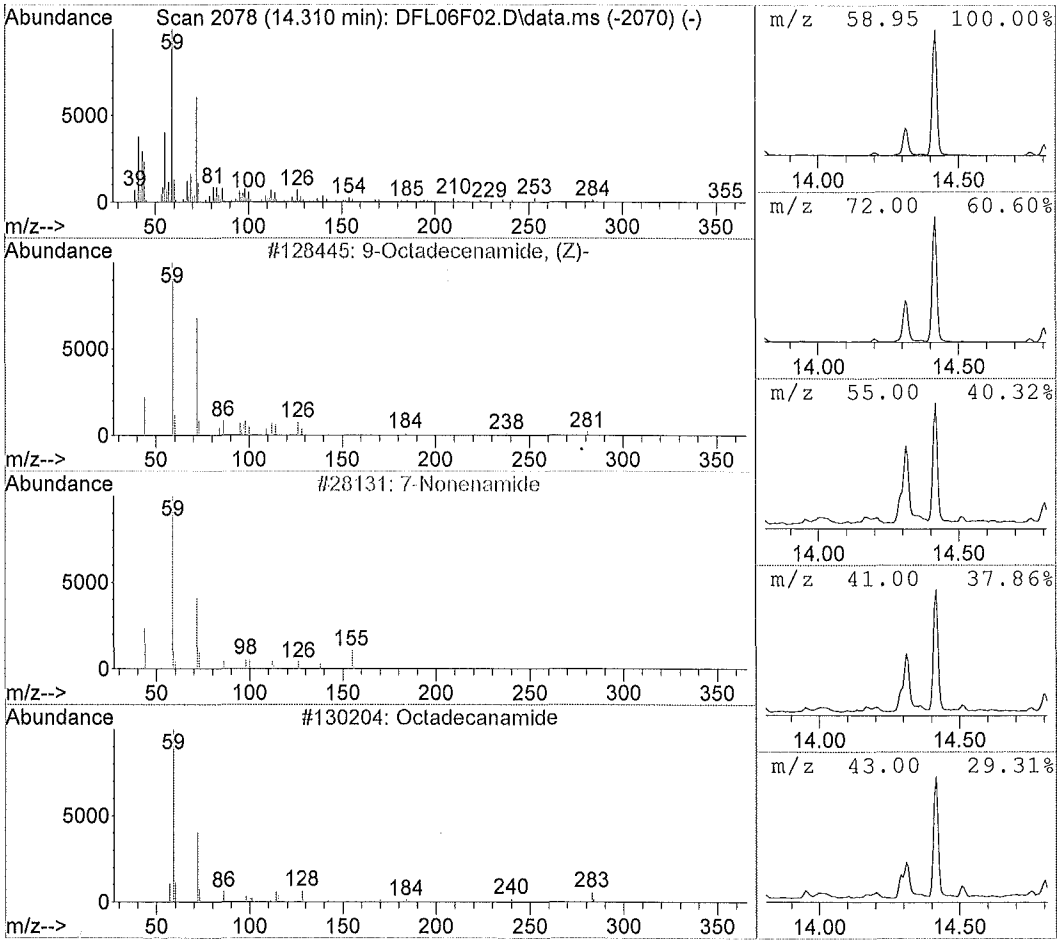
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.88 ug/ml	1289924	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	80.00
3	Octadecanamide	130204	000124-26-5	74.00
4	Pentanamide	4064	000626-97-1	72.00
5	4-Cyclohexylbutyramide	37471	004441-62-7	59.00



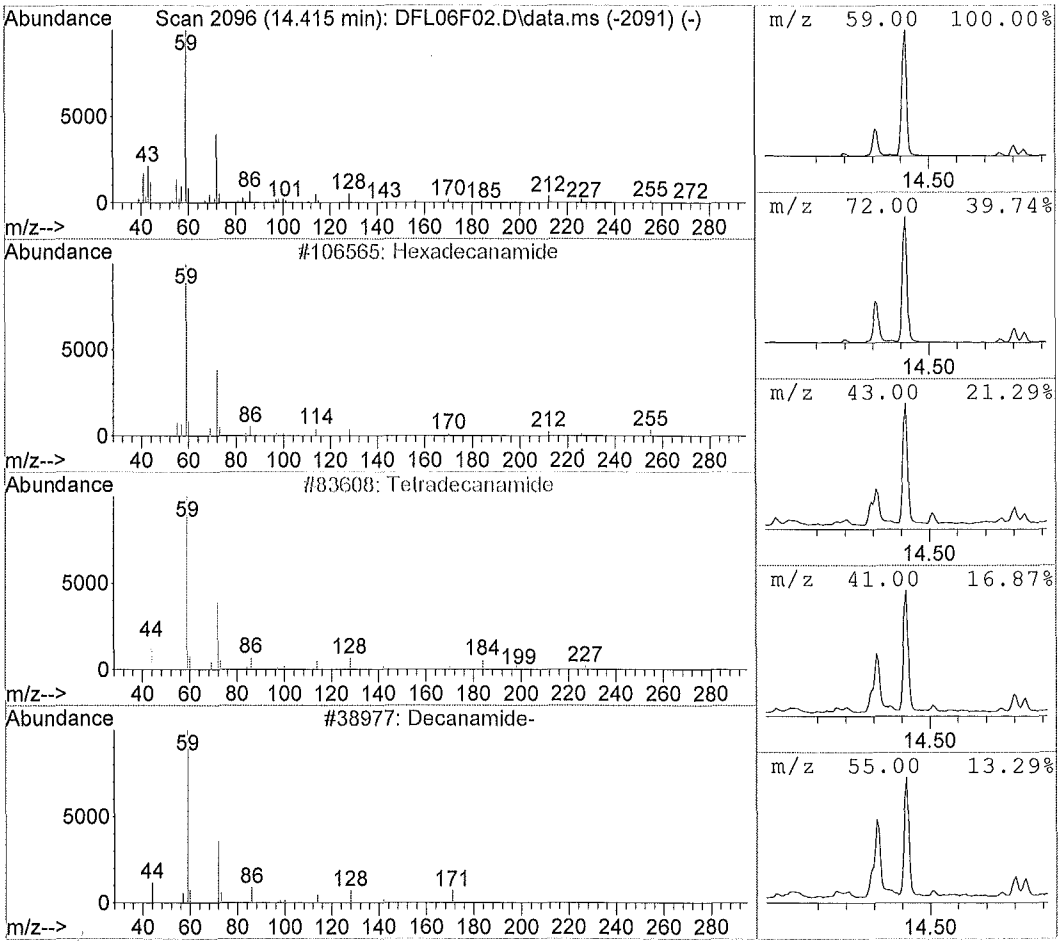
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.92 ug/ml	2205464	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	87.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



00167

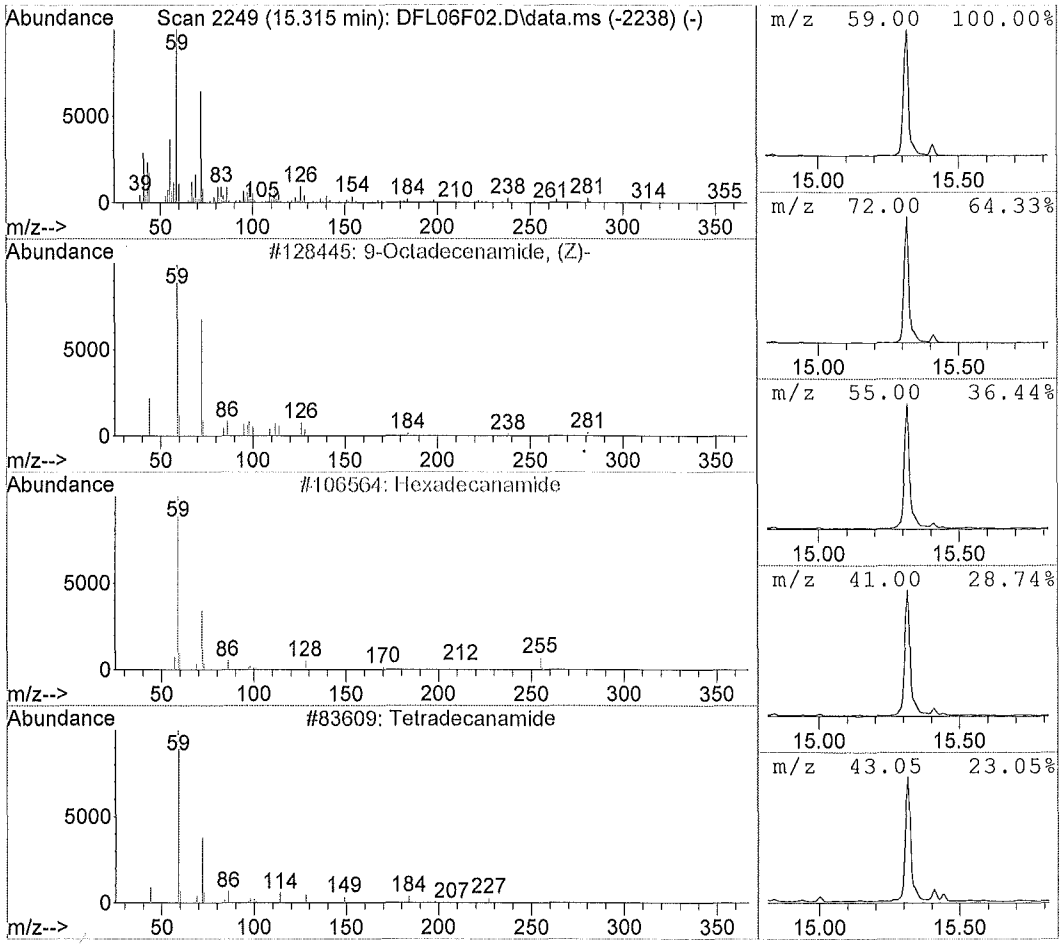
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	38.66 ug/ml	17319721	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Tetradecanamide	83609	000638-58-4	64.00
4	Nonadecanamide	142051	058185-32-3	56.00
5	Octanamide	20317	000629-01-6	53.00



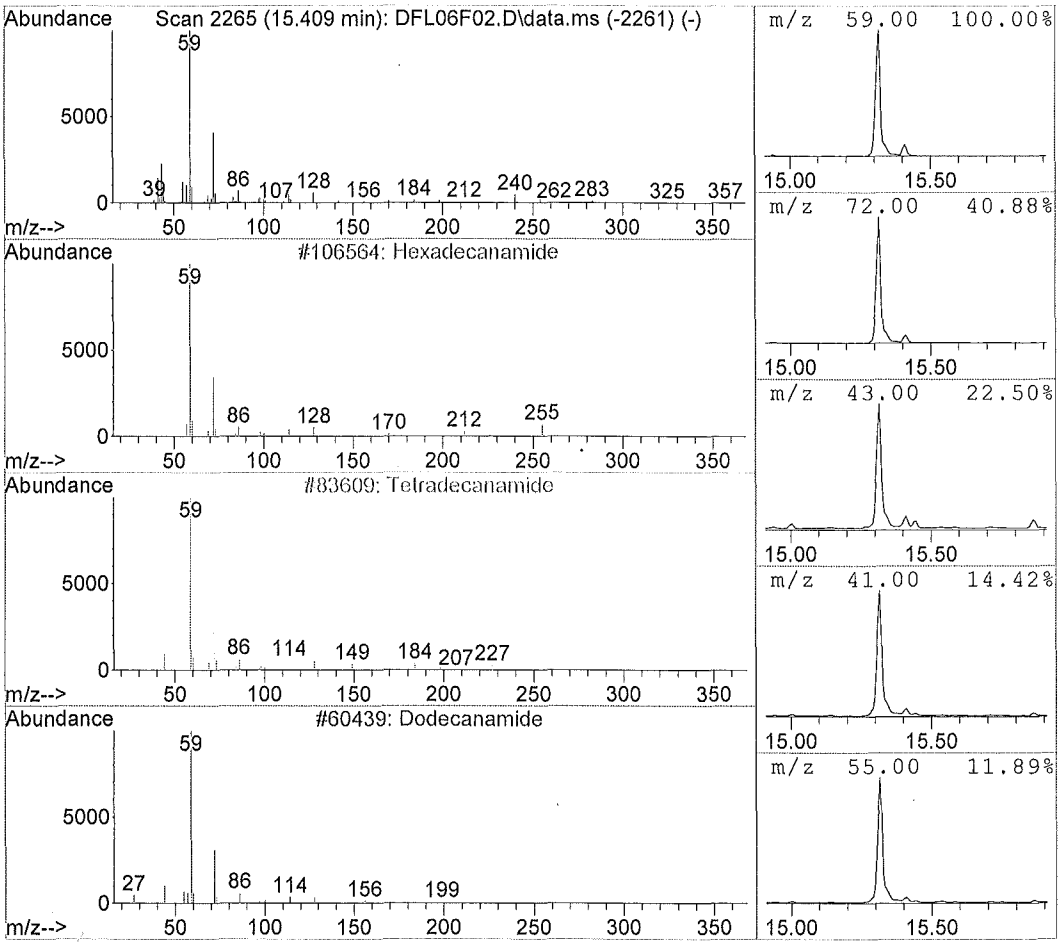
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.08 ug/ml	930728	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	Octanamide	20317	000629-01-6	72.00



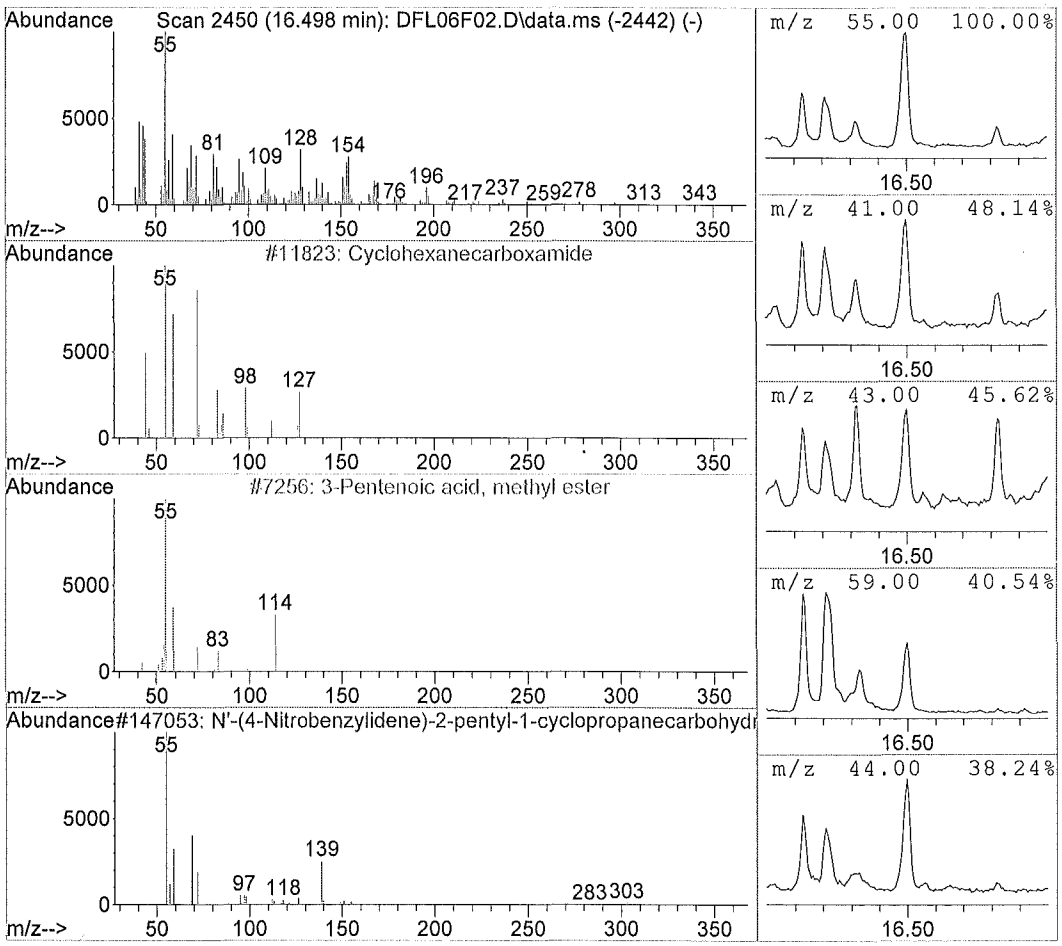
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	2.98 ug/ml	1335893	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00
3	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
4	Oleylamine	116614	000112-90-3	9.00
5	2(1H)-Naphthalenone, octahydro-, tr	25231	016021-08-2	9.00



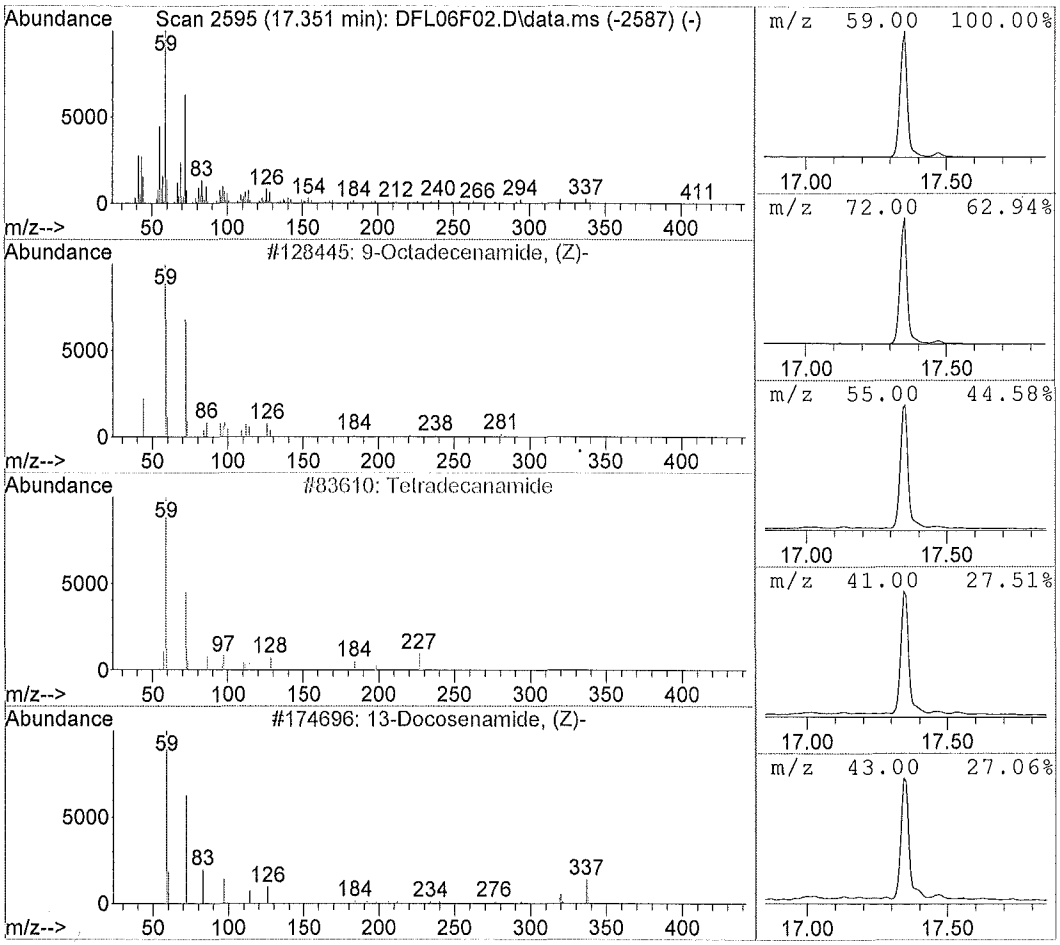
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.35	27.74 ug/ml	11602065	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
2	Tetradecanamide	83610	000638-58-4	86.00
3	13-Docosenamide, (Z)-	174696	000112-84-5	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
5	Dodecanamide	60440	001120-16-7	59.00



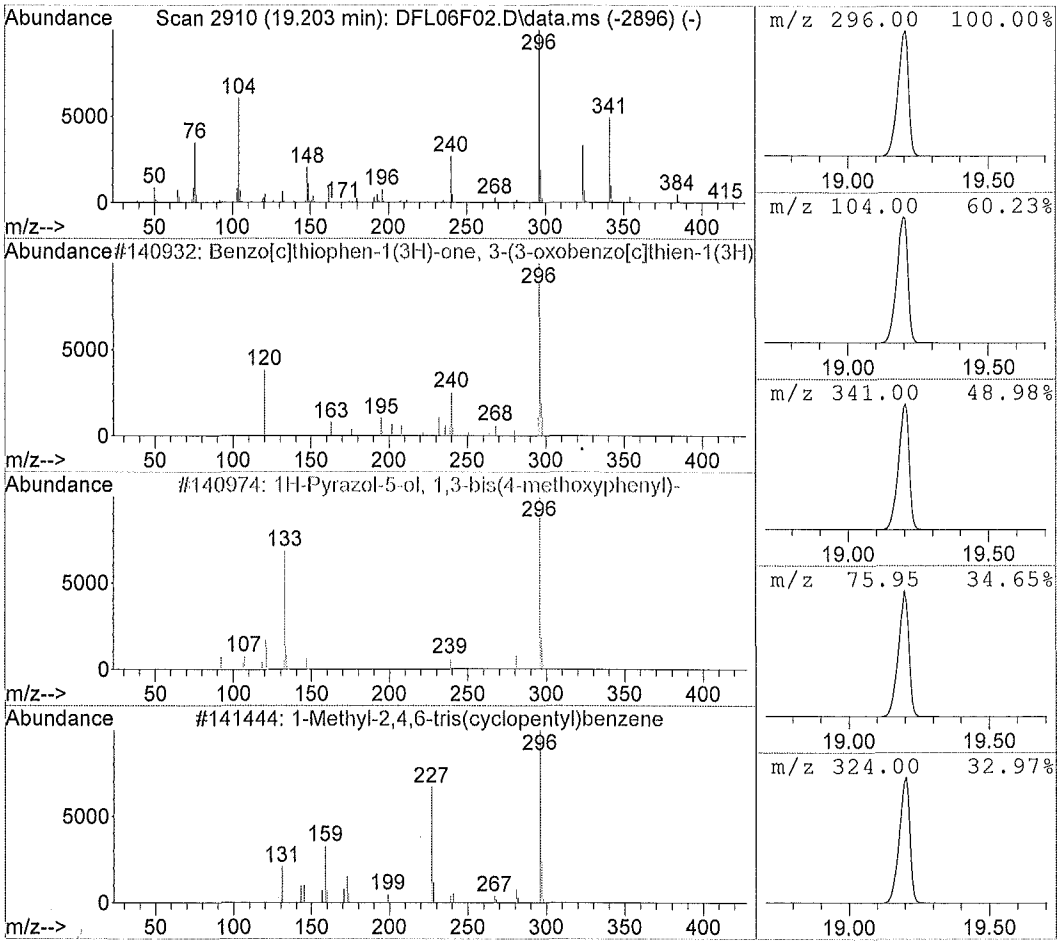
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.20	58.57 ug/ml	24494007	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	1H-Pyrazol-5-ol, 1,3-bis(4-methoxyp	140974	1000337-80-1	22.00
3	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
4	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00
5	3-Methoxy-D-homoestra-1,3,5(10),8-t	141373	002000-72-8	17.00



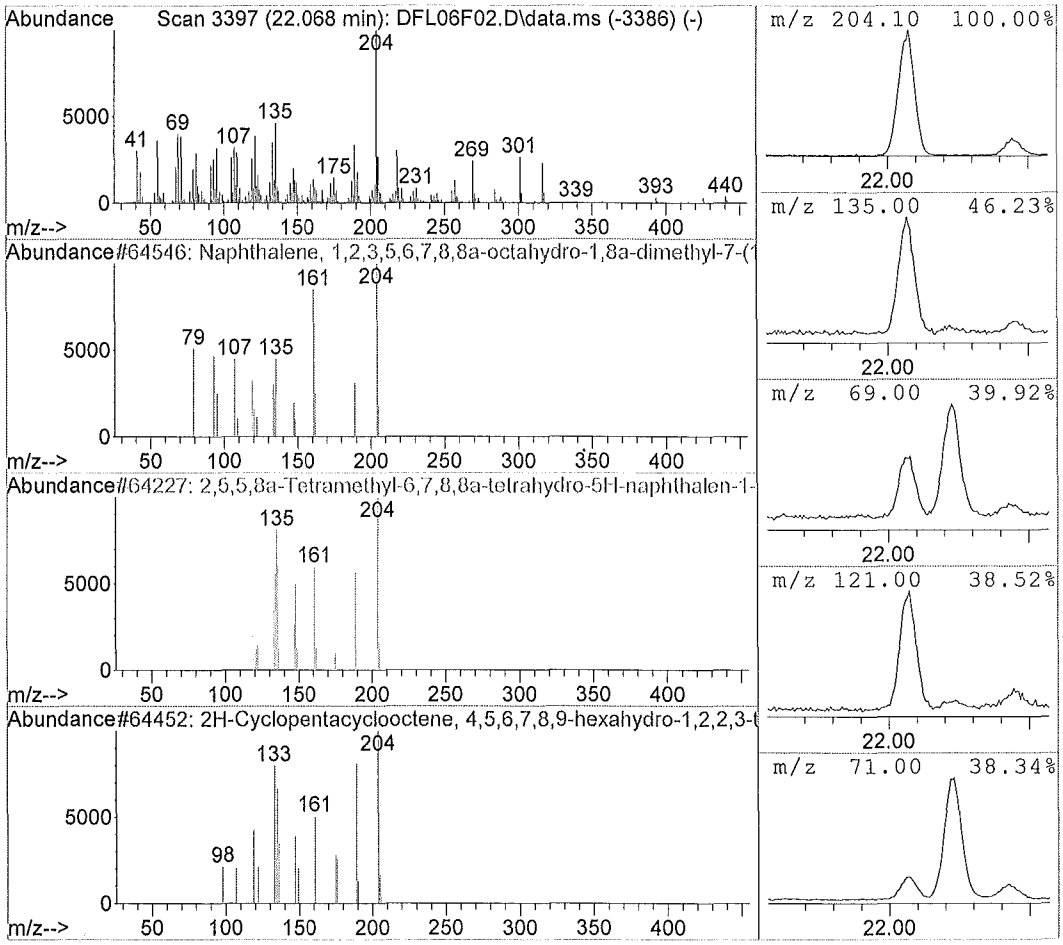
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	3.64 ug/ml	1521216	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	50.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	45.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	43.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00



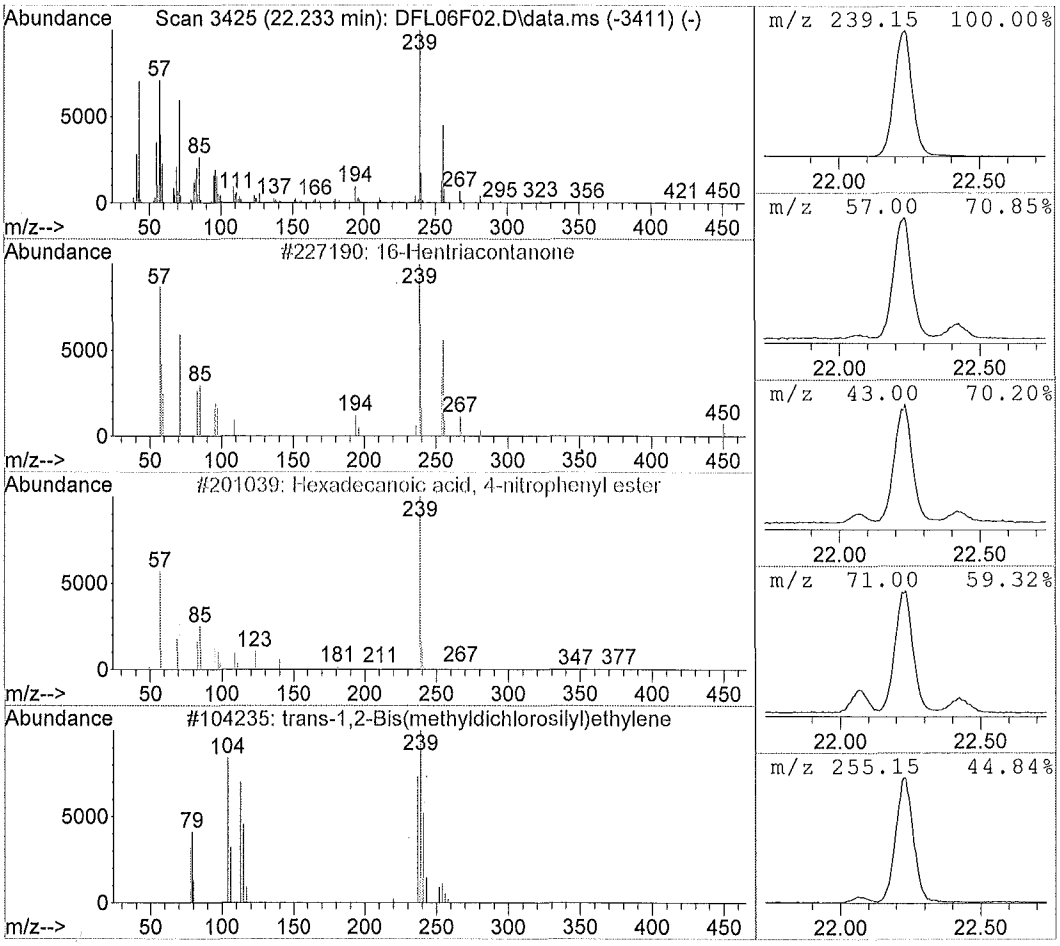
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.23	8.18 ug/ml	3421793	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	16-Hentriacontanone	227190	000502-73-8	43.00
2	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	38.00
3	trans-1,2-Bis(methyldichlorosilyl)e	104235	065899-10-7	30.00
4	Phthalic acid, 4-methoxyphenyl 3-me	191935	1000315-68-0	25.00
5	o-Hydroxyacetophenonylidene-4,5-dim	105656	103133-80-8	22.00



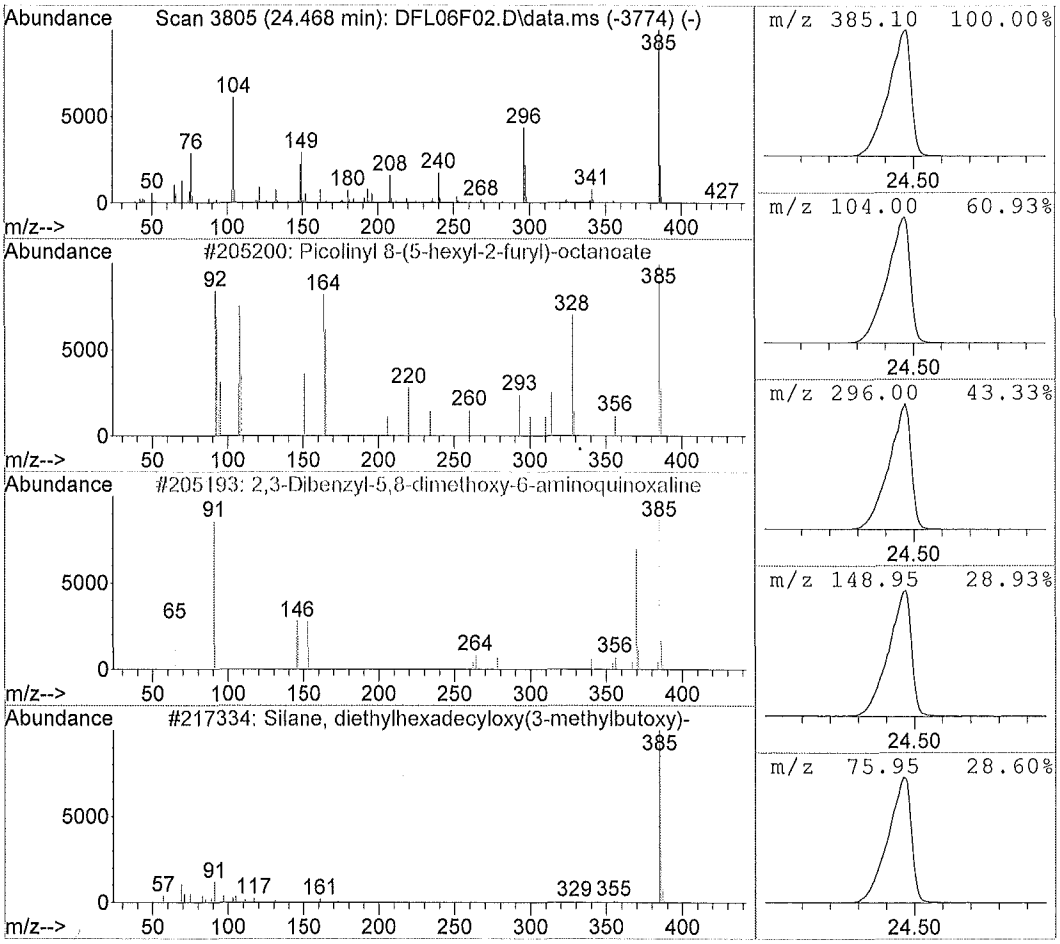
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.47	78.67 ug/ml	32902505	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	38.00
2	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	12.00
3	Silane, diethylhexadecyloxy(3-methy	217334	1000363-00-5	10.00
4	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	10.00
5	Phthalic anhydride	23152	000085-44-9	10.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL07F03

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	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.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL07F03

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL07F03

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	78-95-5	2-Propanone, 1-chloro-	2.48	92.	JNB
02		Unknown 1,2-Ethanediol	2.58	430	J
03		Unknown 4-Chloro-2-butanone	3.53	99.	JB
04		Unknown Guanidine	3.72	5500	J
05		Unknown 1H-Pyrrole-2,5-dione	4.49	130	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	93.	JB
07	301-02-0	9-Octadecenamide, (Z)-	14.31	88.	JNB
08	629-54-9	Hexadecanamide	14.42	170	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.32	1400	JNB
10		Unknown 3-Pentenoic acid, methyl ester	16.49	100	J
11	301-02-0	9-Octadecenamide, (Z)-	17.34	250	JN
12		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.18	430	J
13		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	22.07	310	J
14		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.40	770	J
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

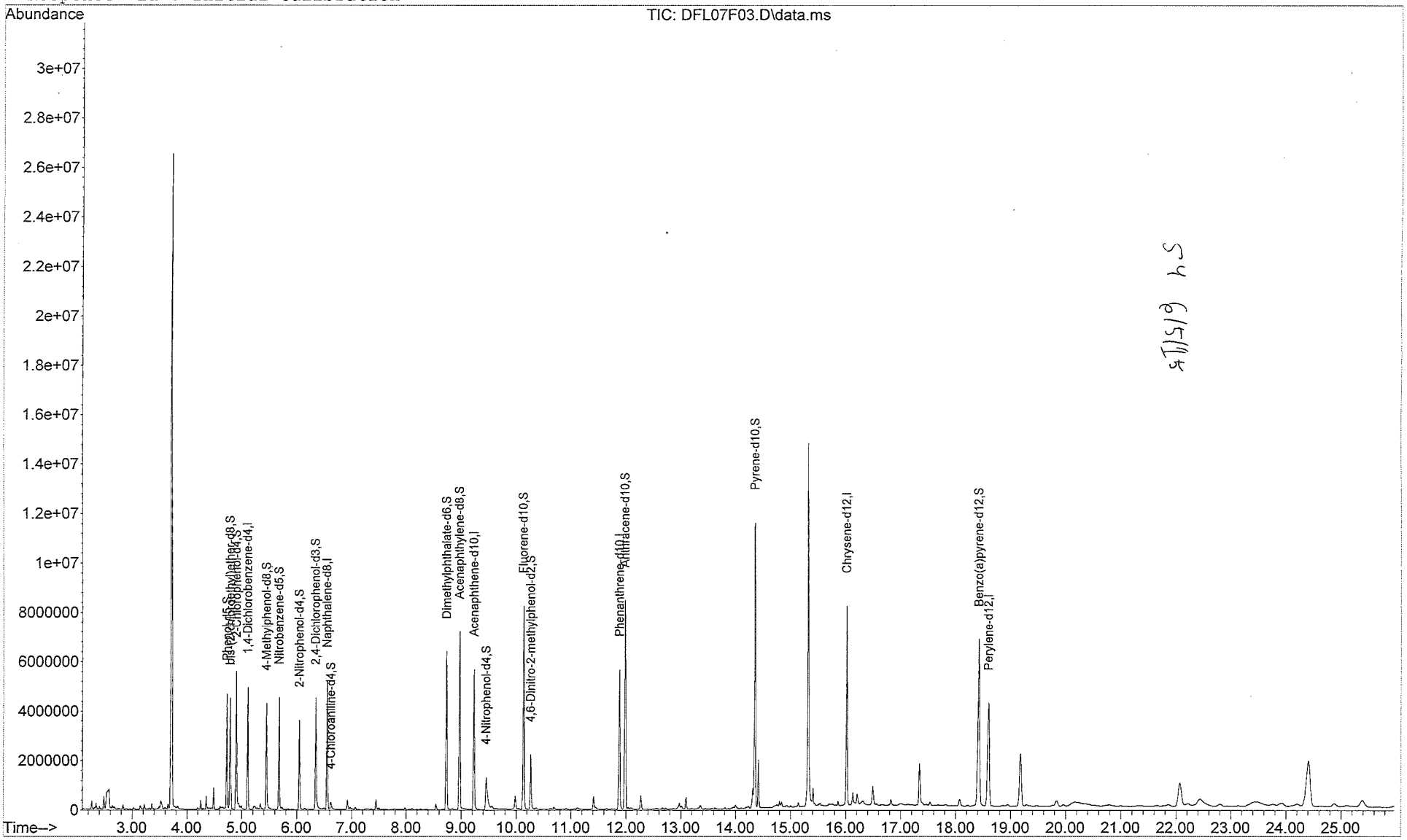
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 10:57:28 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:57:28 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	885236	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3016252	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1915541	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3407383	20.00 ug/ml
73) Chrysene-d12	16.02	240	3981531	20.00 ug/ml
81) Perylene-d12	18.59	264	3788029	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1661442	30.156ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1100122	27.289ug/mL
7) 2-Chlorophenol-d4	4.90	132	1627523	29.636ug/ml
13) 4-Methylphenol-d8	5.45	113	1084363	26.257ug/mL
17) Nitrobenzene-d5	5.67	128	735439	29.769ug/ml
21) 2-Nitrophenol-d4	6.05	143	856969	29.251ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1372327	28.987ug/mL
28) 4-Chloroaniline-d4	6.62	131	179100	5.035ug/mL
42) Dimethylphthalate-d6	8.73	166	4011854	33.969ug/mL
45) Acenaphthylene-d8	8.97	160	4761325	30.617ug/mL
50) 4-Nitrophenol-d4	9.46	143	627005	31.965ug/mL
57) Fluorene-d10	10.13	176	3415430	32.727ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	577968	26.860ug/mL
69) Anthracene-d10	11.98	188	5693269	32.614ug/mL
75) Pyrene-d10	14.34	212	5856152	34.926ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5735895	33.088ug/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)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:57:28 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

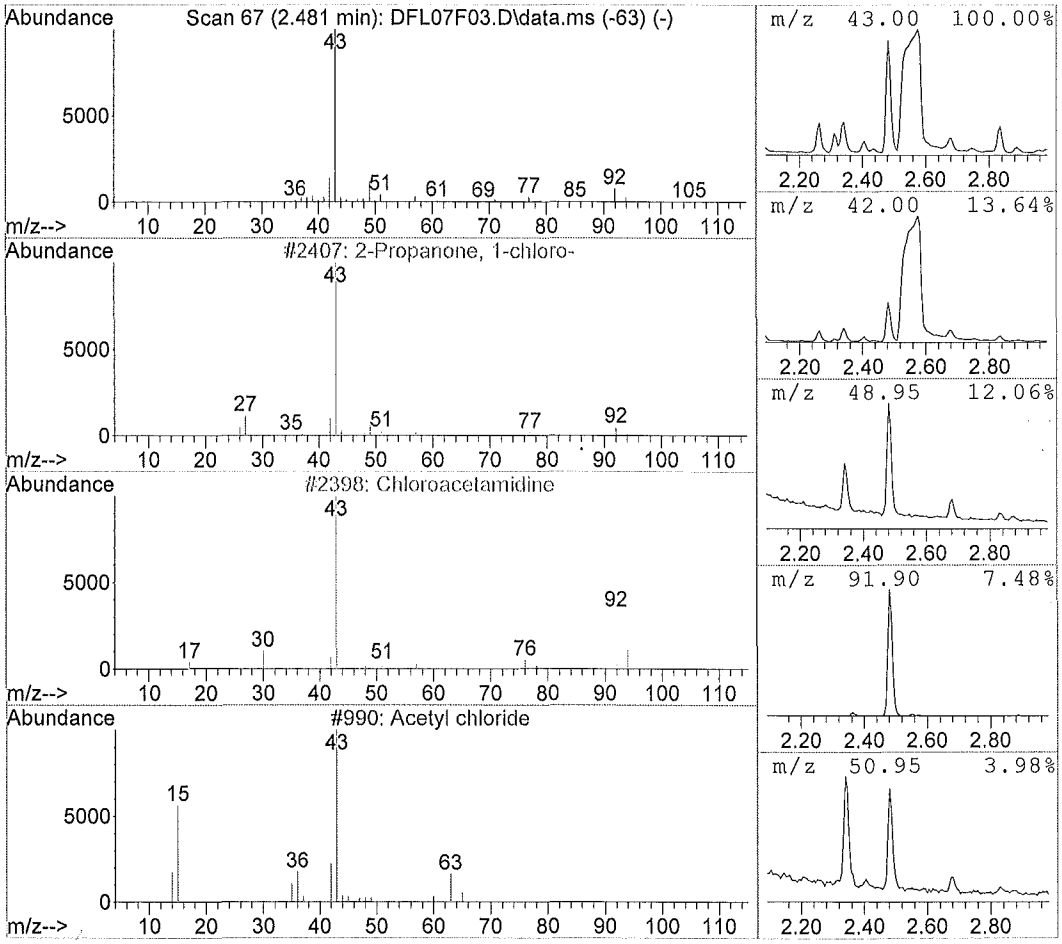
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.33 ug/ml	609026	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Acetyl chloride	990	000075-36-5	9.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00
5	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00



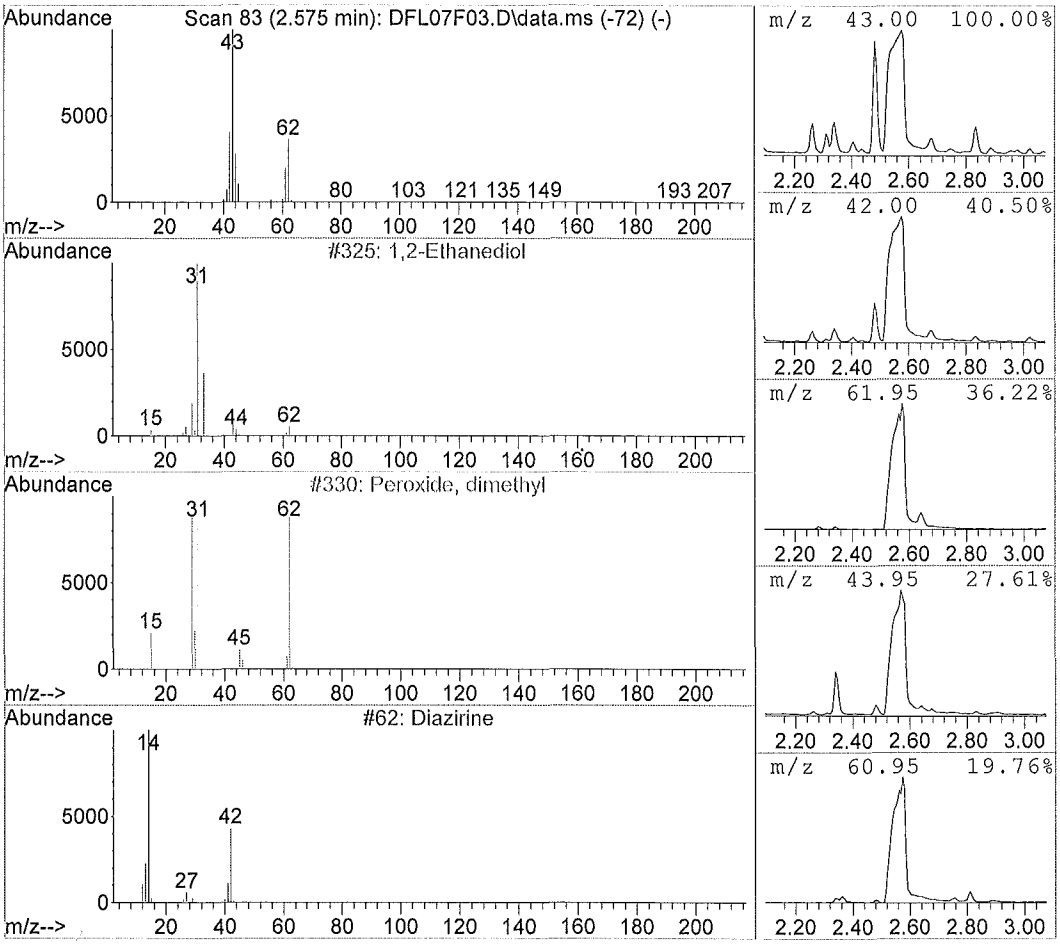
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.58	10.97 ug/ml	2868408	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	45.00
2	Peroxide, dimethyl	330	000690-02-8	4.00
3	Diazirine	62	1000305-84-1	3.00
4	Monoethanolamine	306	000141-43-5	3.00
5	Cyclobutylamine	610	002516-34-9	2.00



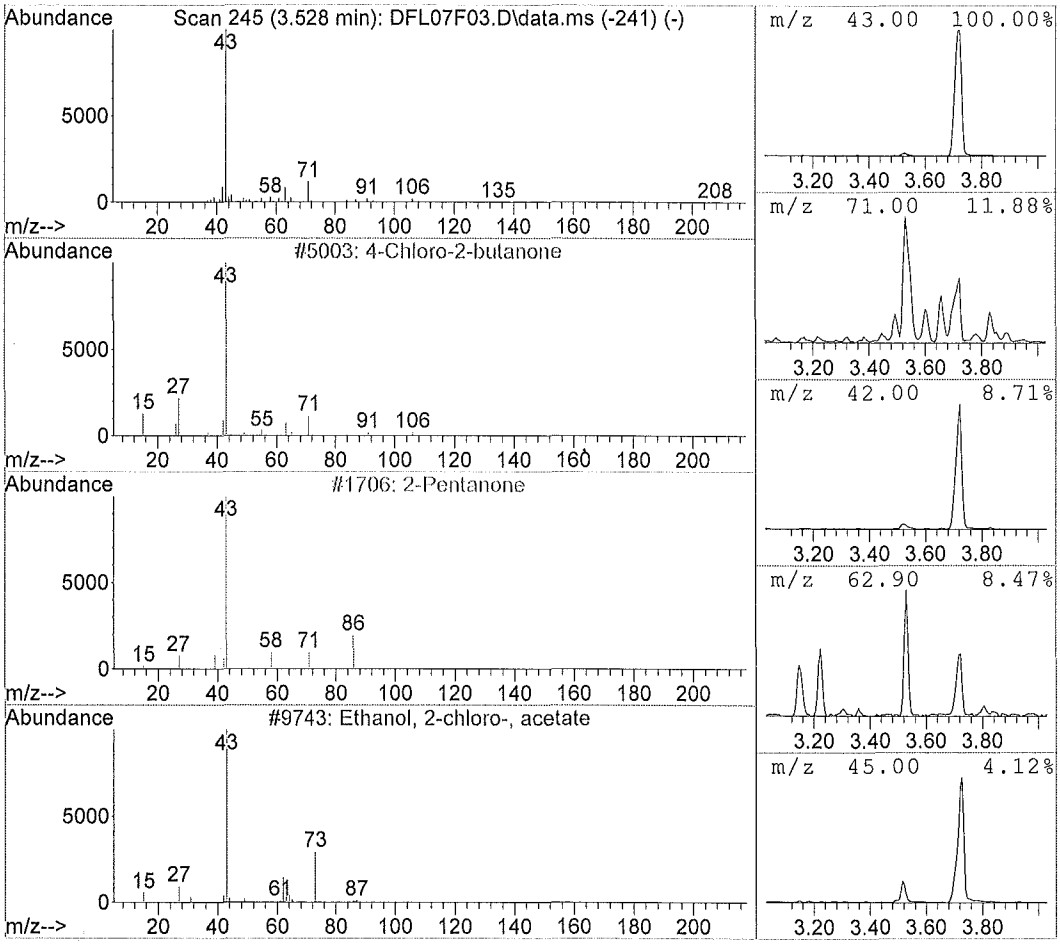
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.49 ug/ml	652384	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	49.00
2	2-Pentanone	1706	000107-87-9	33.00
3	Ethanol, 2-chloro-, acetate	9743	000542-58-5	33.00
4	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	33.00
5	2,3-Butanedione	1658	000431-03-8	17.00



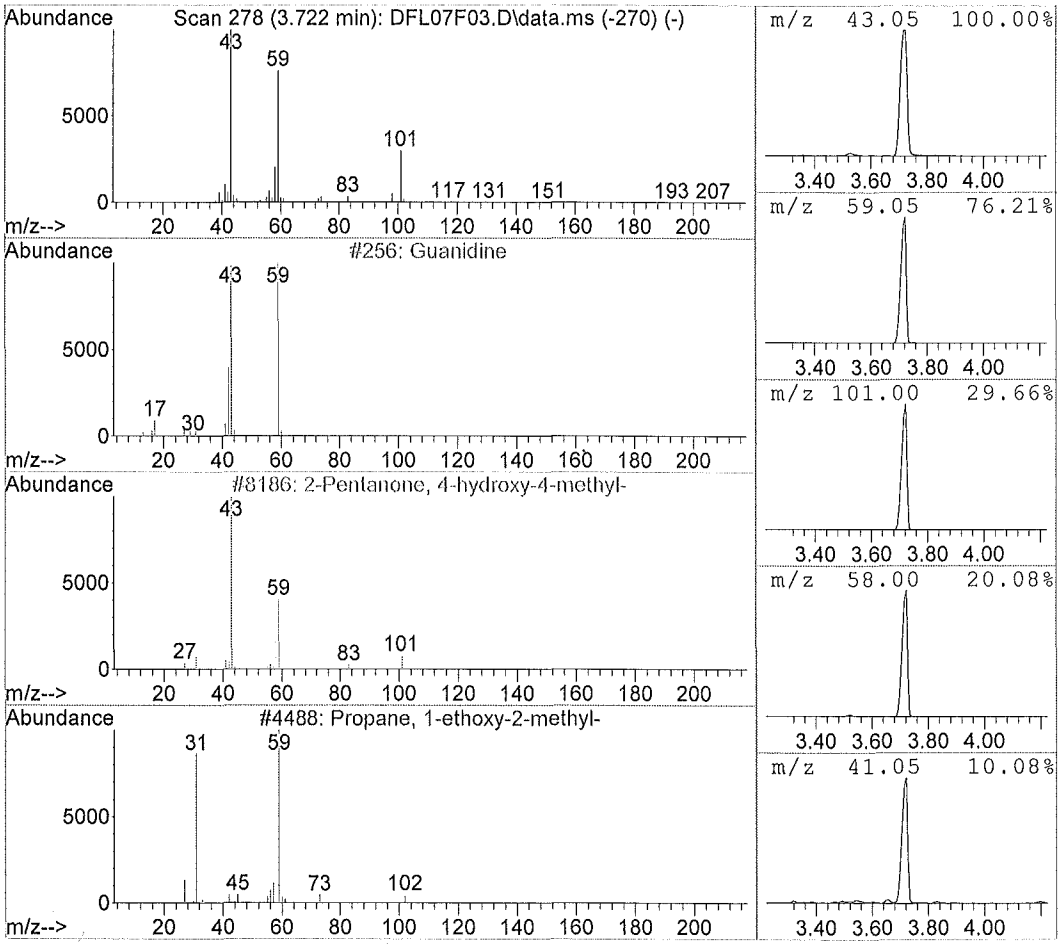
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	139.91 ug/ml	36588803	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	50.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	43.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00



00185

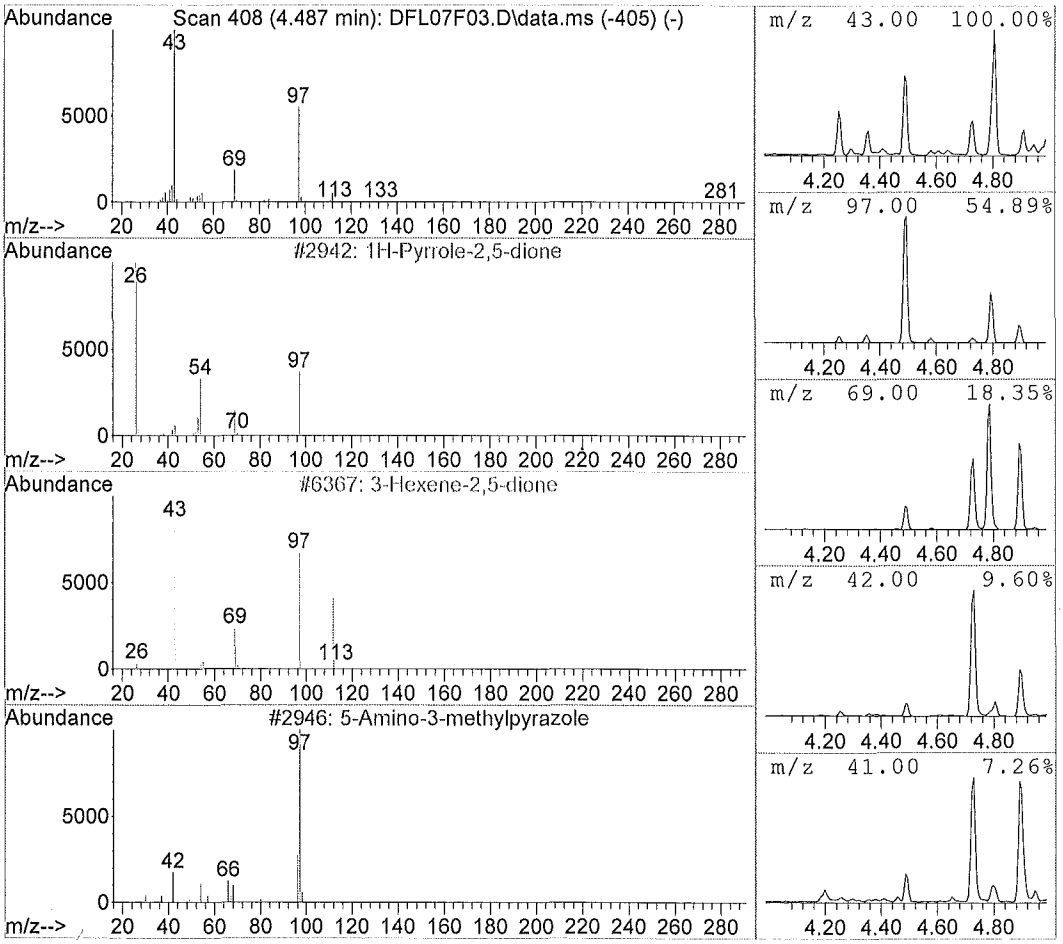
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	3.26 ug/ml	852397	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	3-Hexene-2,5-dione	6367	004436-75-3	50.00
3	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
4	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
5	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00



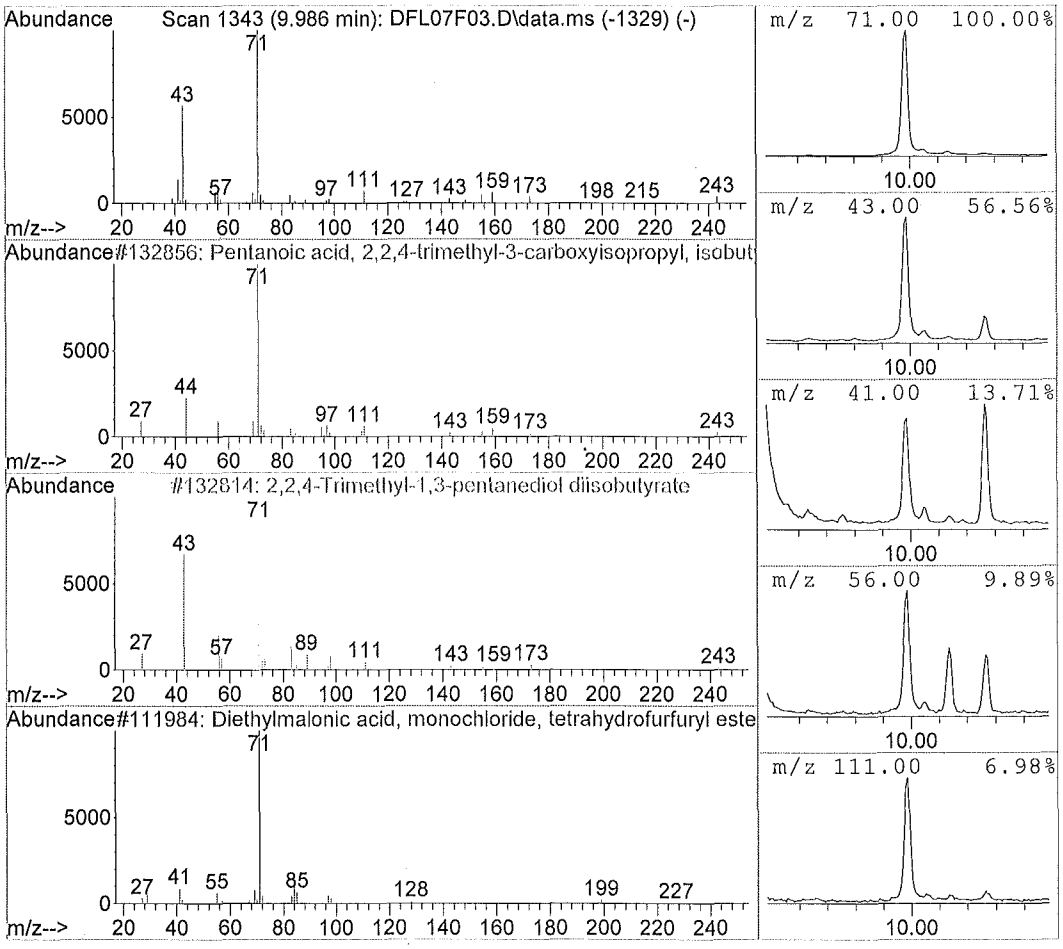
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.36 ug/ml	912587	Acenaphthene-d10	7737619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	64.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	50.00
3	Diethylmalonic acid, monochloride,	111984	1000370-65-0	50.00
4	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
5	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	42.00



00187

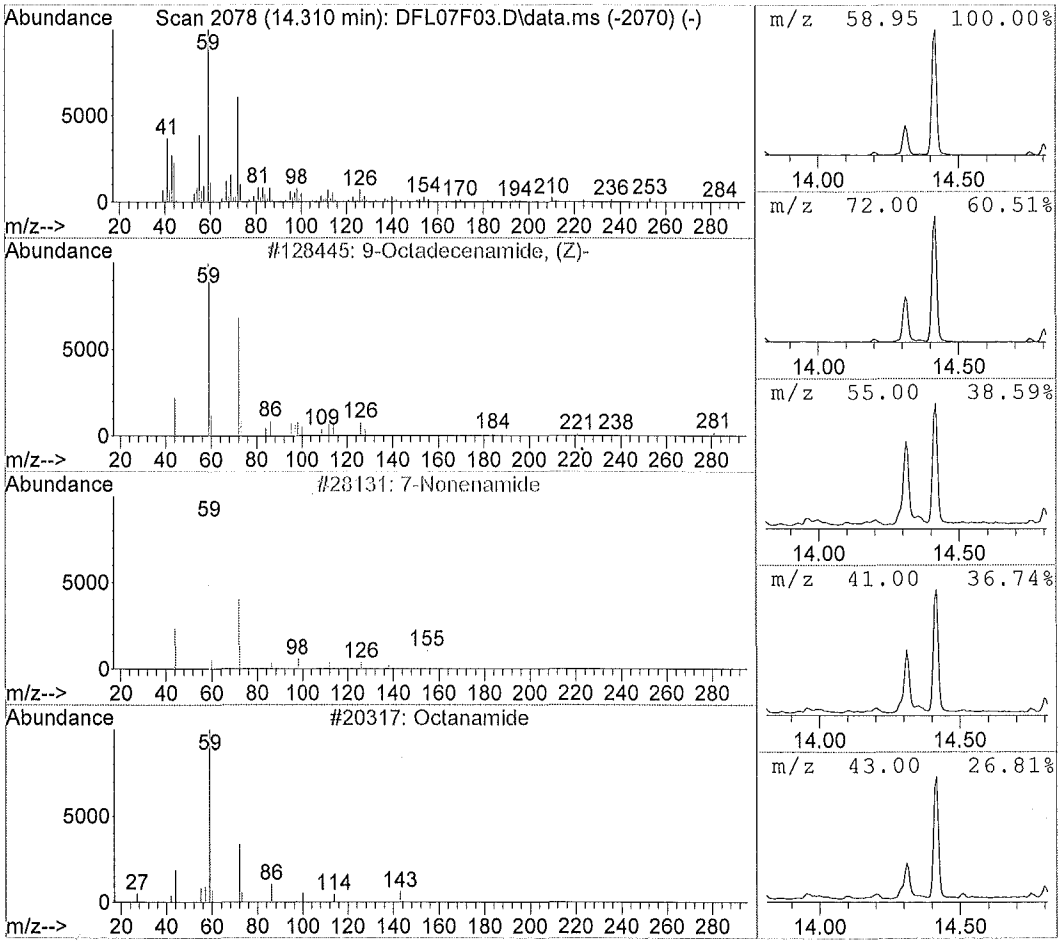
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.24 ug/ml	1158926	Chrysene-d12	10366766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Octanamide	20317	000629-01-6	56.00
4	Octadecanamide	130204	000124-26-5	53.00
5	4-Cyclohexylbutyramide	37471	004441-62-7	50.00



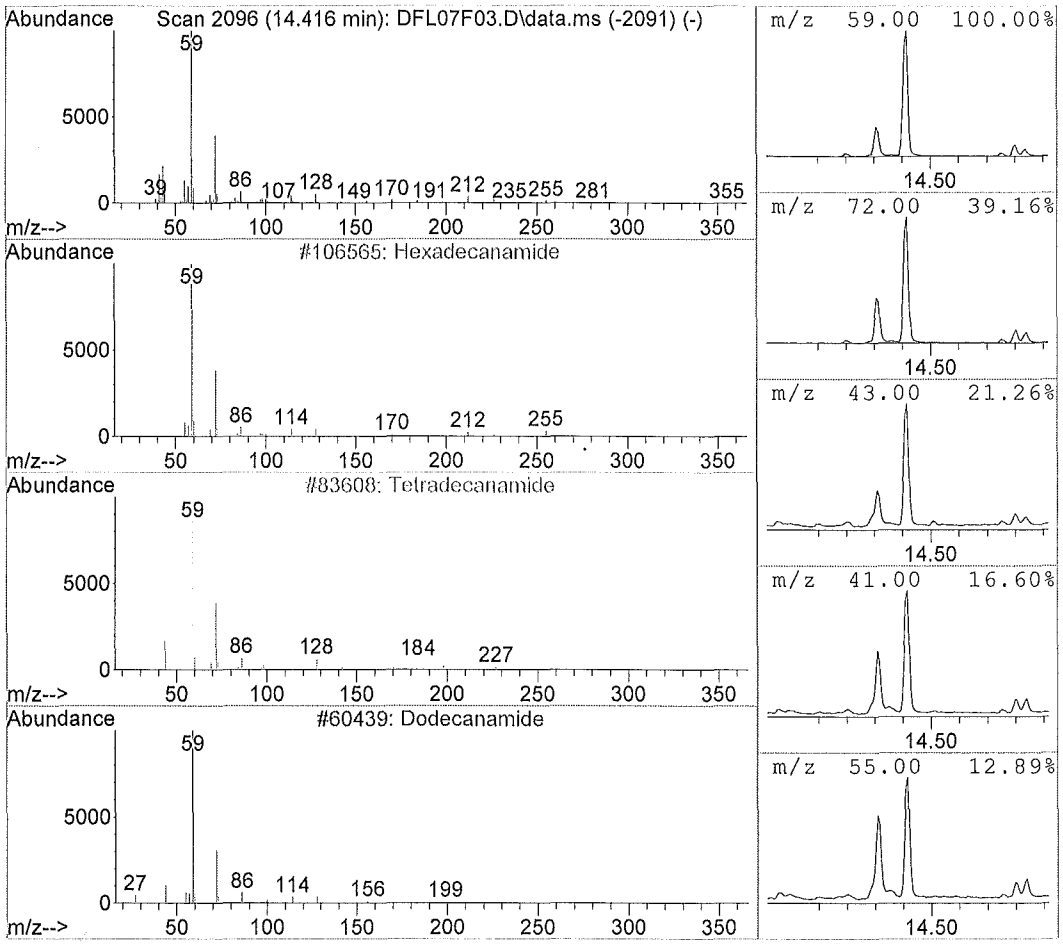
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.40 ug/ml	2282073	Chrysene-d12	10366766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	76.00
5	Nonanamide	29478	001120-07-6	59.00



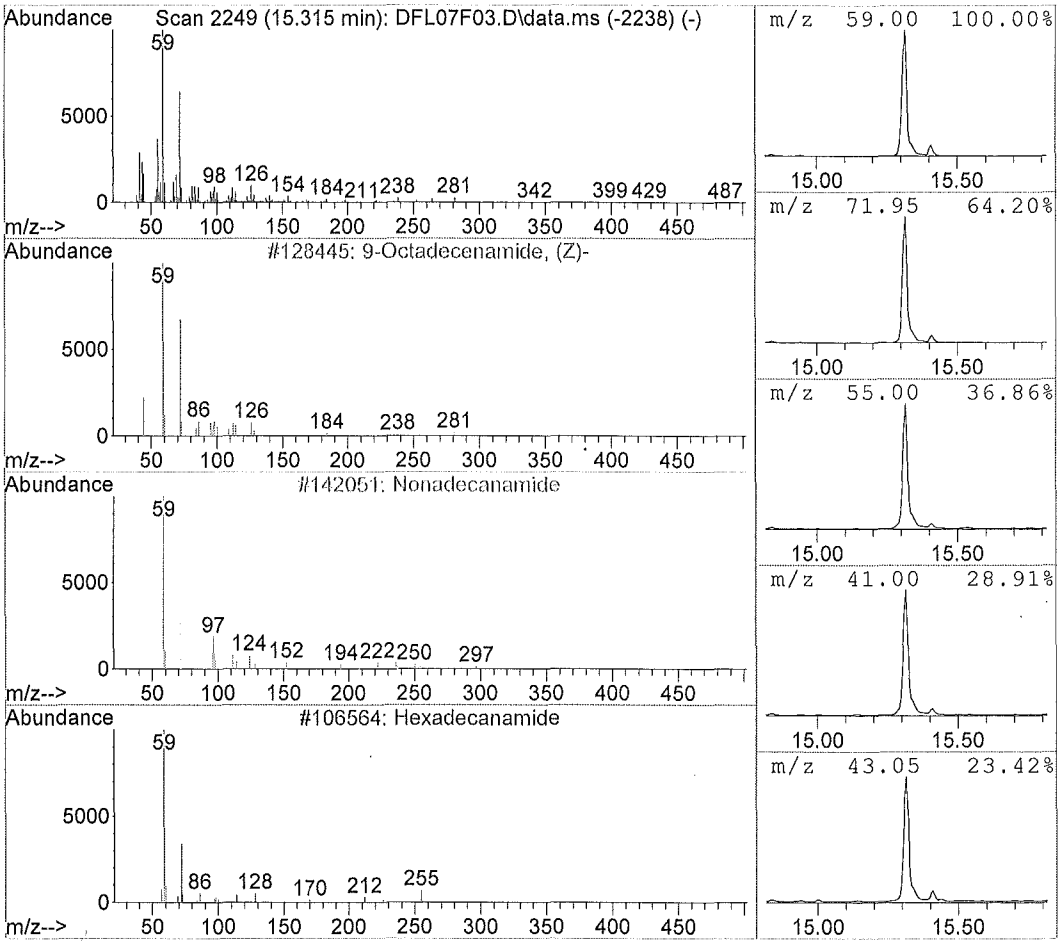
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	36.31 ug/ml	18822923	Chrysene-d12	10366766

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	106564	000629-54-9	72.00
4	Octanamide	20317	000629-01-6	53.00
5	Octanehydrazide, N2-(2-thenylidene)	103682	339302-09-9	38.00



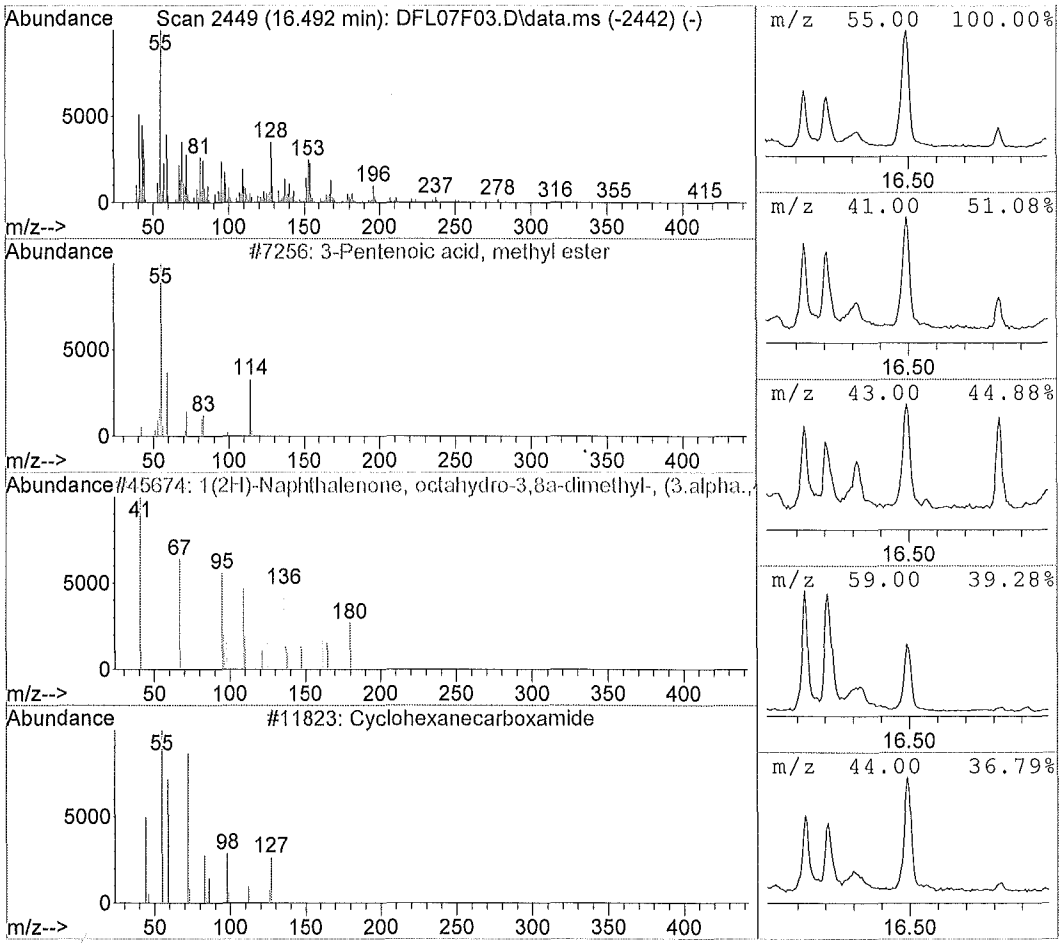
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.49	2.65 ug/ml	1372556	Chrysene-d12	10366766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	1(2H)-Naphthalenone, octahydro-3,8a	45674	000941-20-8	15.00
3	Cyclohexanecarboxamide	11823	001122-56-1	14.00
4	2-Hexenedioic acid, 2-methoxy-, dim	63039	056114-71-7	10.00
5	trans-1,4-Bis(acetamidomethyl)cyclo	82506	070924-84-4	10.00

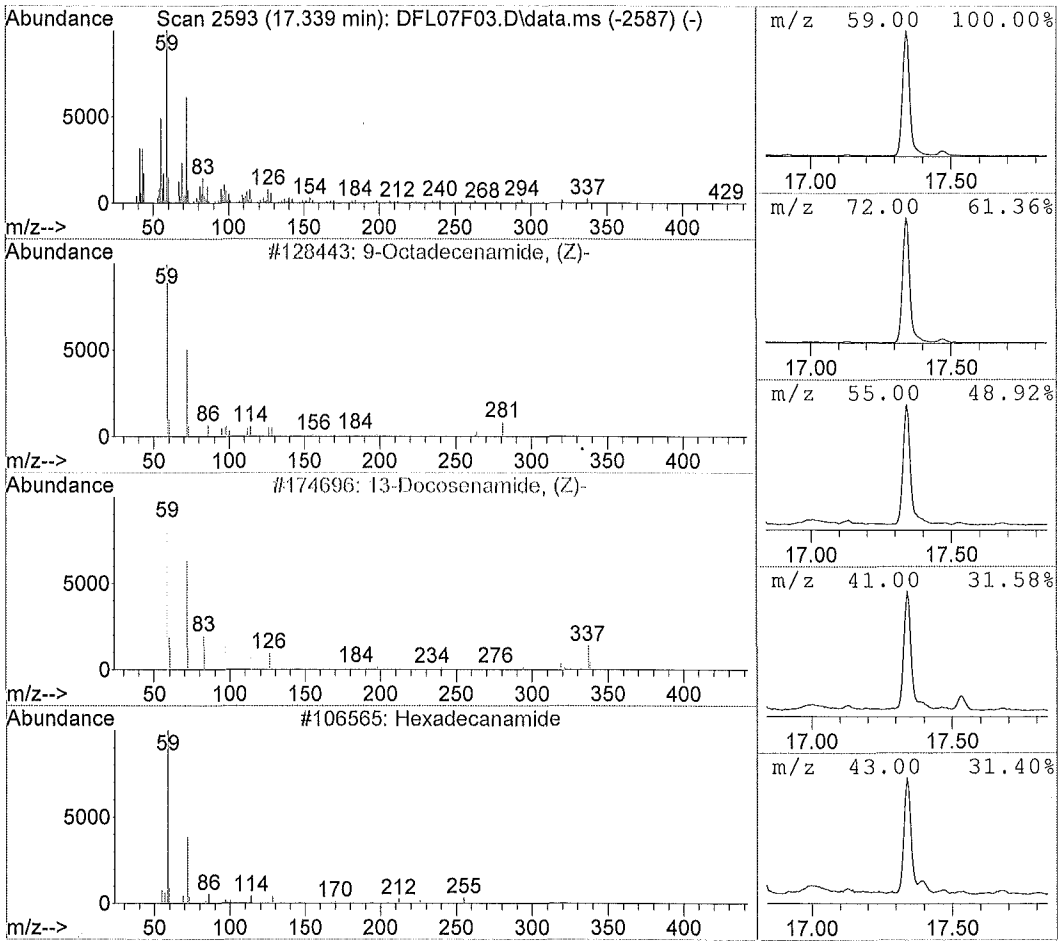


Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	6.25 ug/ml	3054340	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	91.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	90.00
3	Hexadecanamide	106565	000629-54-9	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	Tetradecanamide	83610	000638-58-4	64.00



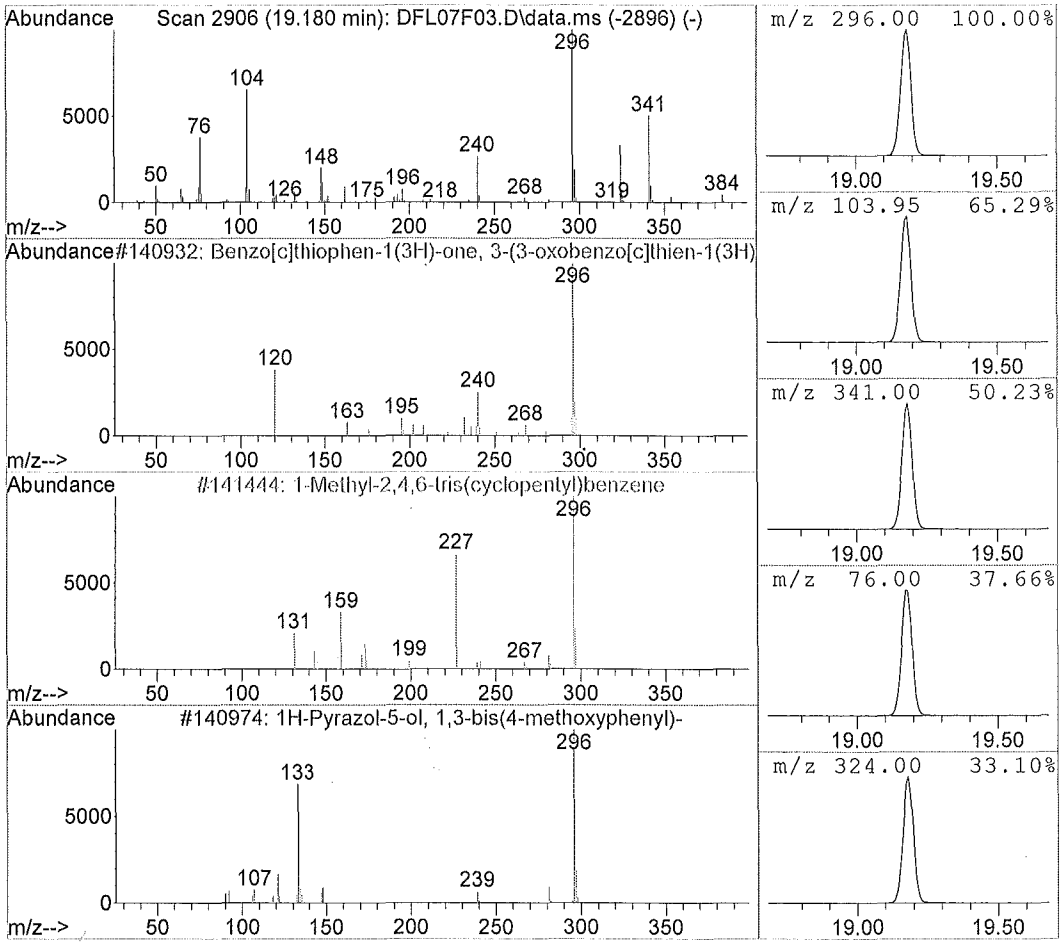
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	11.01 ug/ml	5376393	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
3	1H-Pyrazol-5-ol, 1,3-bis(4-methoxyp	140974	1000337-80-1	22.00
4	Bithiophthalide	140931	032819-84-4	16.00
5	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	16.00



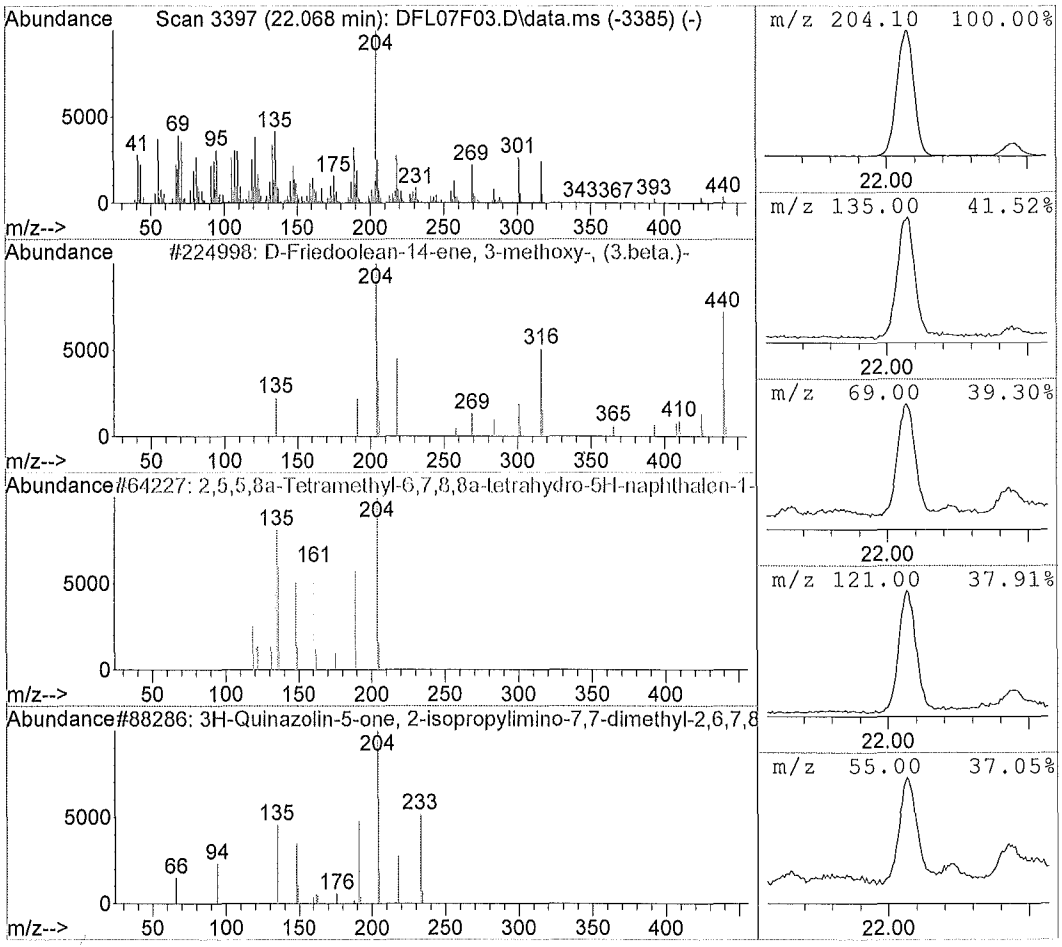
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	7.79 ug/ml	3803742	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	64.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	43.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	38.00
5	Mannose, 6-deoxy-2,3,4,5-tetrakis-O	227366	019127-15-2	35.00



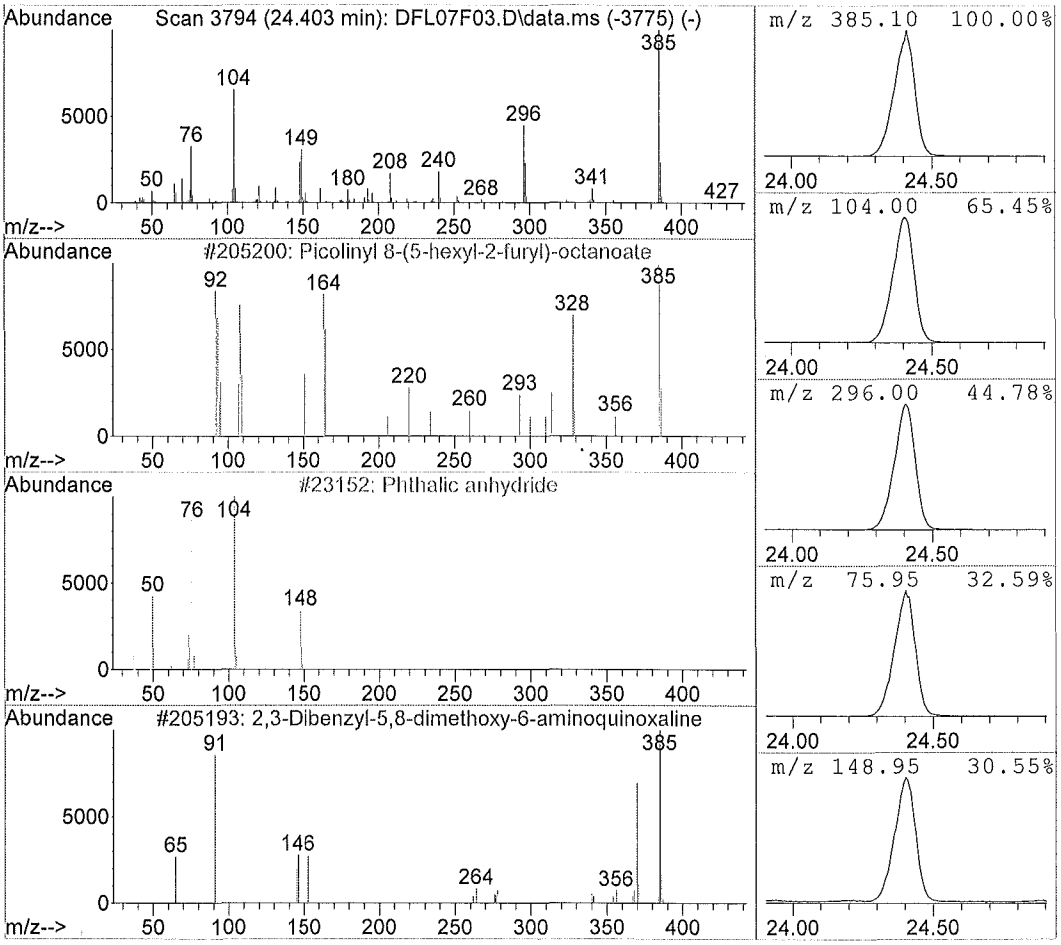
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.40	19.49 ug/ml	9519345	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	38.00
2	Phthalic anhydride	23152	000085-44-9	14.00
3	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	10.00
4	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	10.00
5	Silane, diethyl(2-hexyloxy)pentadec	217329	1000363-51-0	10.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM19F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.2 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.

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM19F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.2 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	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM19F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.2 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-	3.70	5500	JB
02		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	1400	JB
03	301-02-0	9-Octadecenamide, (Z)-	15.31	1700	JNB
04		Unknown 5-(2-Chlorophenyl)-3-[5-(trifluoromethyl	19.17	1400	J
05		Unknown 2,6-Bis(4-nitro-phenylthio)pyridine	24.39	1800	J
06	1058-61-3	Stigmast-4-en-3-one	25.40	910	JN
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

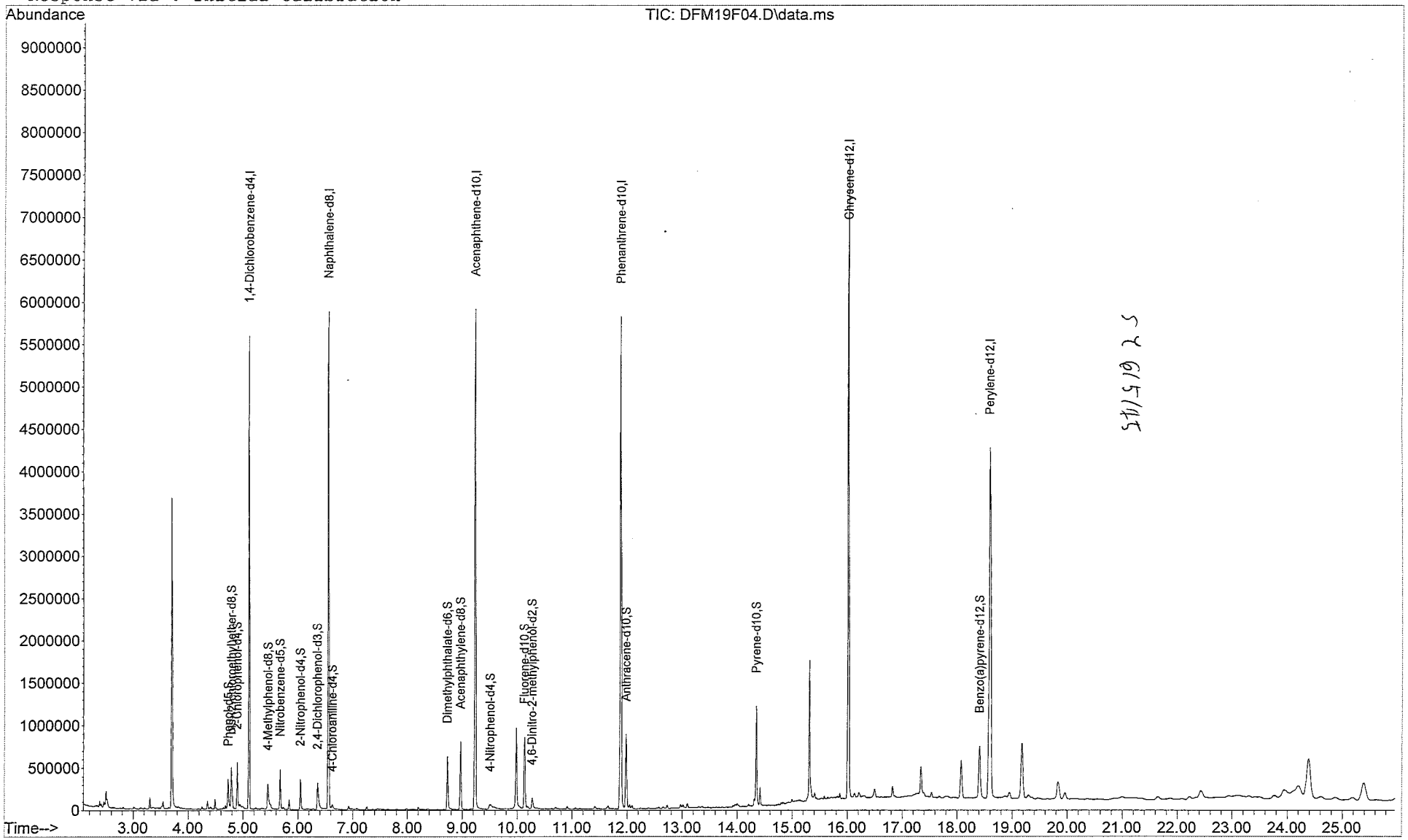
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:19:26 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 11:19:26 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	994866	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3336866	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	2057091	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3544396	20.00 ug/ml
73) Chrysene-d12	16.02	240	3954328	20.00 ug/ml
81) Perylene-d12	18.59	264	3694442	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	176913	2.857ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	119794	2.644ug/mL
7) 2-Chlorophenol-d4	4.89	132	176741	2.864ug/ml
13) 4-Methylphenol-d8	5.45	113	131250	2.828ug/mL
17) Nitrobenzene-d5	5.67	128	78691	2.879ug/ml
21) 2-Nitrophenol-d4	6.05	143	89043	2.747ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	148748	2.840ug/mL
28) 4-Chloroaniline-d4	6.63	131	28086	0.714ug/mL
42) Dimethylphthalate-d6	8.73	166	422643	3.332ug/mL
45) Acenaphthylene-d8	8.97	160	525120	3.144ug/mL
50) 4-Nitrophenol-d4	9.50	143	50289	2.387ug/mL
57) Fluorene-d10	10.13	176	365944	3.265ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	39799	1.778ug/mL
69) Anthracene-d10	11.98	188	597152	3.289ug/mL
75) Pyrene-d10	14.34	212	582471	3.498ug/mL
86) Benzo(a)pyrene-d12	18.41	264	540253	3.195ug/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)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 11:19:26 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

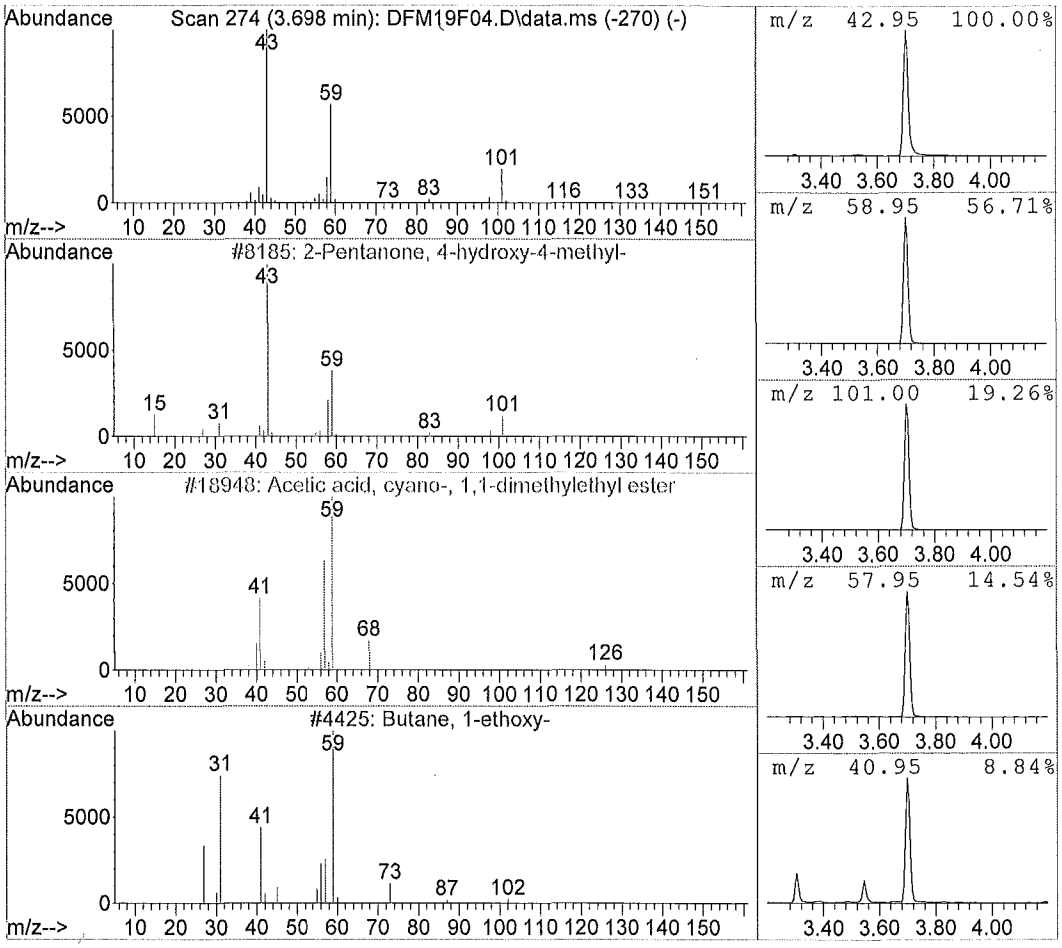
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	14.05 ug/ml	4208395	1,4-Dichlorobenzene-d4	5989053

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	38.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	Butane, 1-ethoxy-	4425	000628-81-9	9.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00



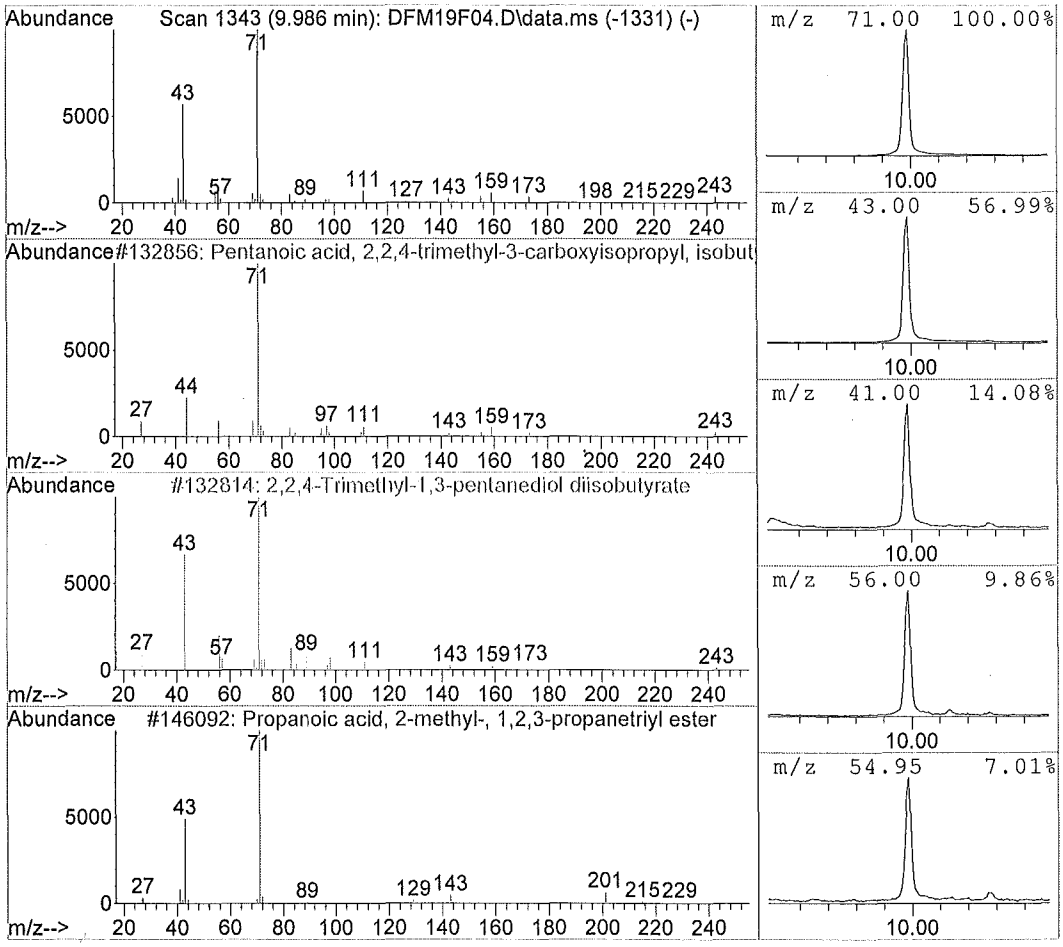
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	3.55 ug/ml	1478393	Acenaphthene-d10	8321199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	64.00
3	Propanoic acid, 2-methyl-, 1,2,3-pr	146092	014295-64-8	53.00
4	Diethylmalonic acid, monochloride,	111984	1000370-65-0	42.00
5	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	42.00



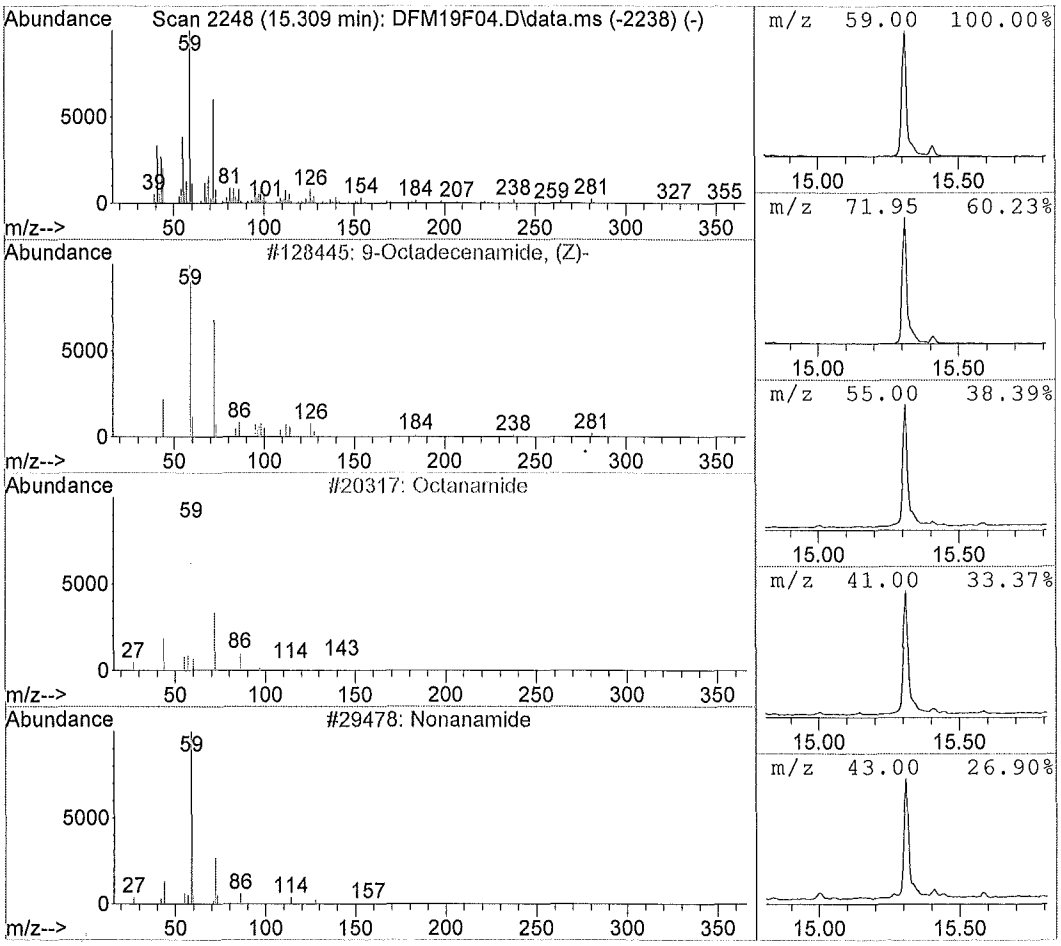
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	4.21 ug/ml	2174208	Chrysene-d12	10333070

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	56.00
3	Nonanamide	29478	001120-07-6	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00



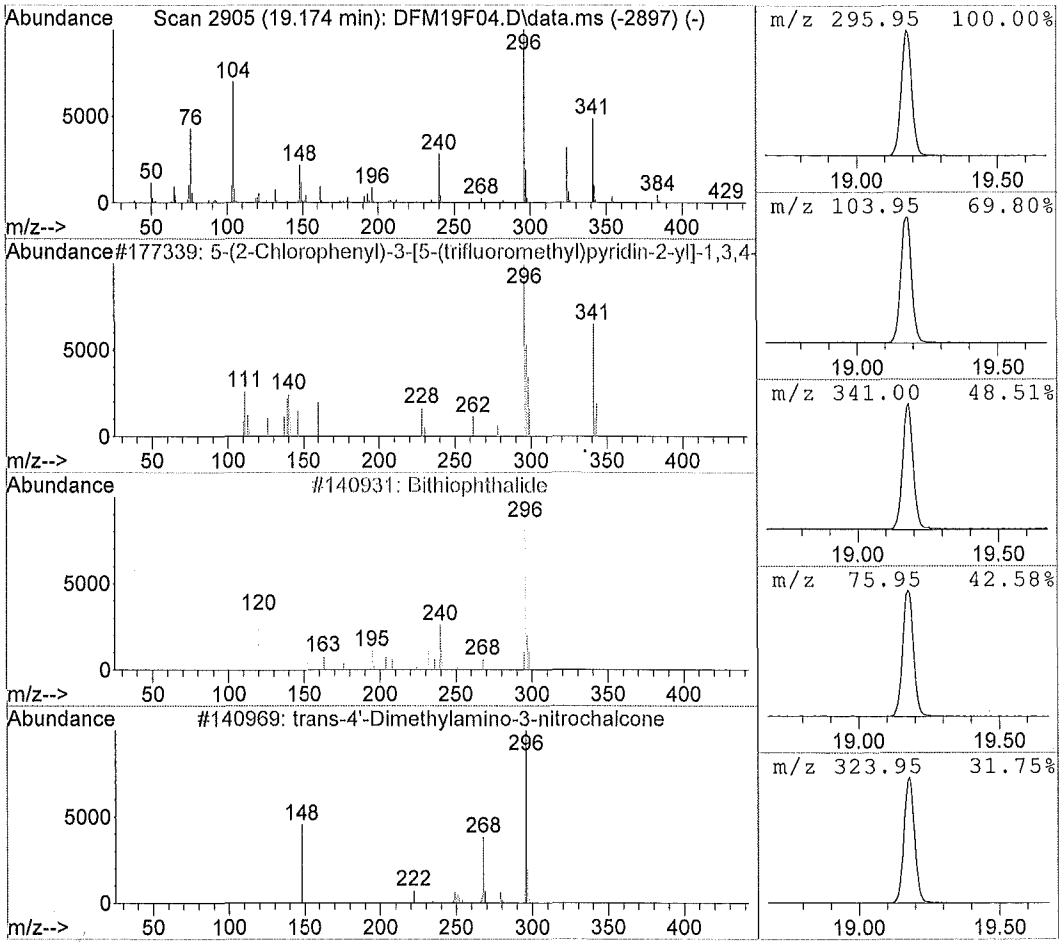
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.17	3.45 ug/ml	1674960	Perylene-d12	9723256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00
2	Bithiophthalide	140931	032819-84-4	16.00
3	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	16.00
4	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	14.00
5	Phthalic anhydride	23152	000085-44-9	14.00



Library Search Compound Report

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Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On    : 05/28/2015 10:53                             Operator: DJC
Sample    : 1513978004  F9KX0  (10)                      Inst    : 5975-D
Misc      : . SOIL SOM                                   Injection volume : 1uL
MS Integration Params: rteint.p

Method    : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title     : EPA/CLP SOM01
Library   : C:\Database\NIST11.L
```
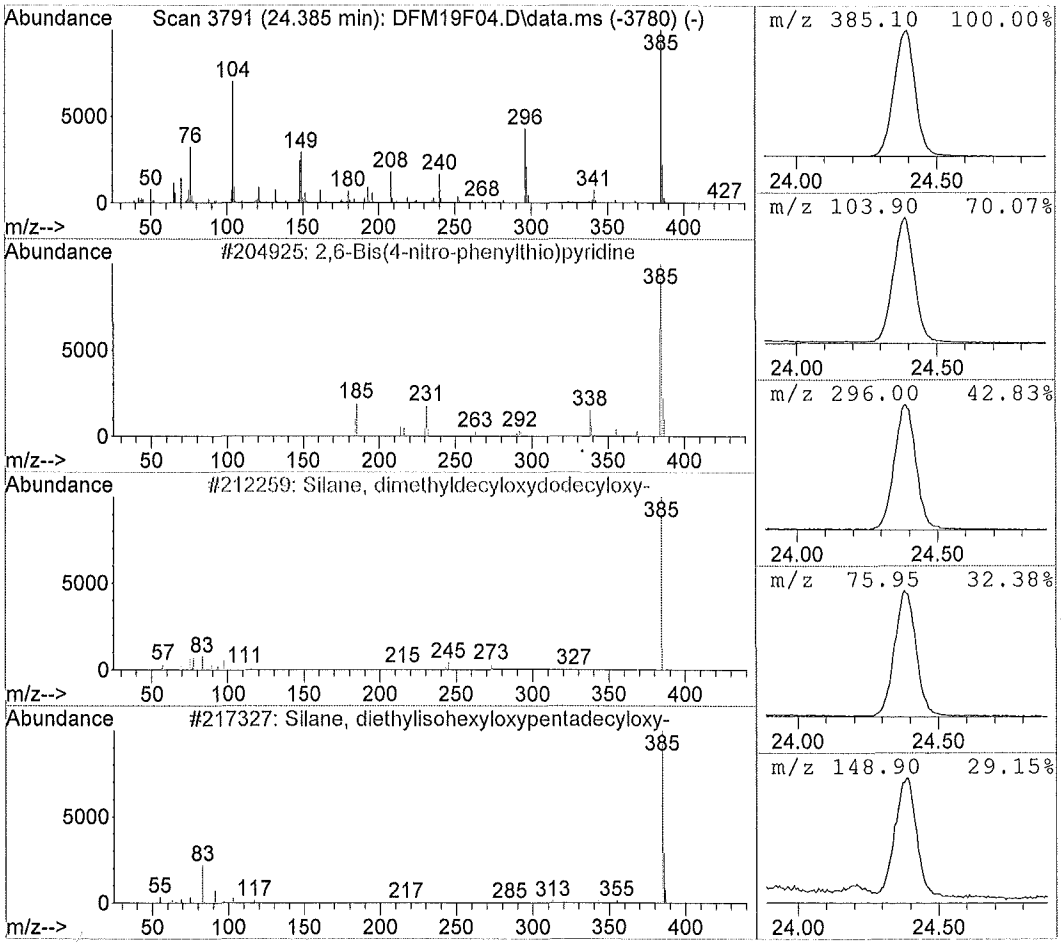

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.39	4.70 ug/ml	2285129	Perylene-d12	9723256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	25.00
2	Silane, dimethyldecyloxydodecyloxy-	212259	1000346-92-7	12.00
3	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	12.00
4	Silane, diethyl(2-methylpentyloxy)p	217342	1000363-12-4	10.00
5	Silane, diethyl(3-methylpentyloxy)p	217341	1000363-49-3	10.00



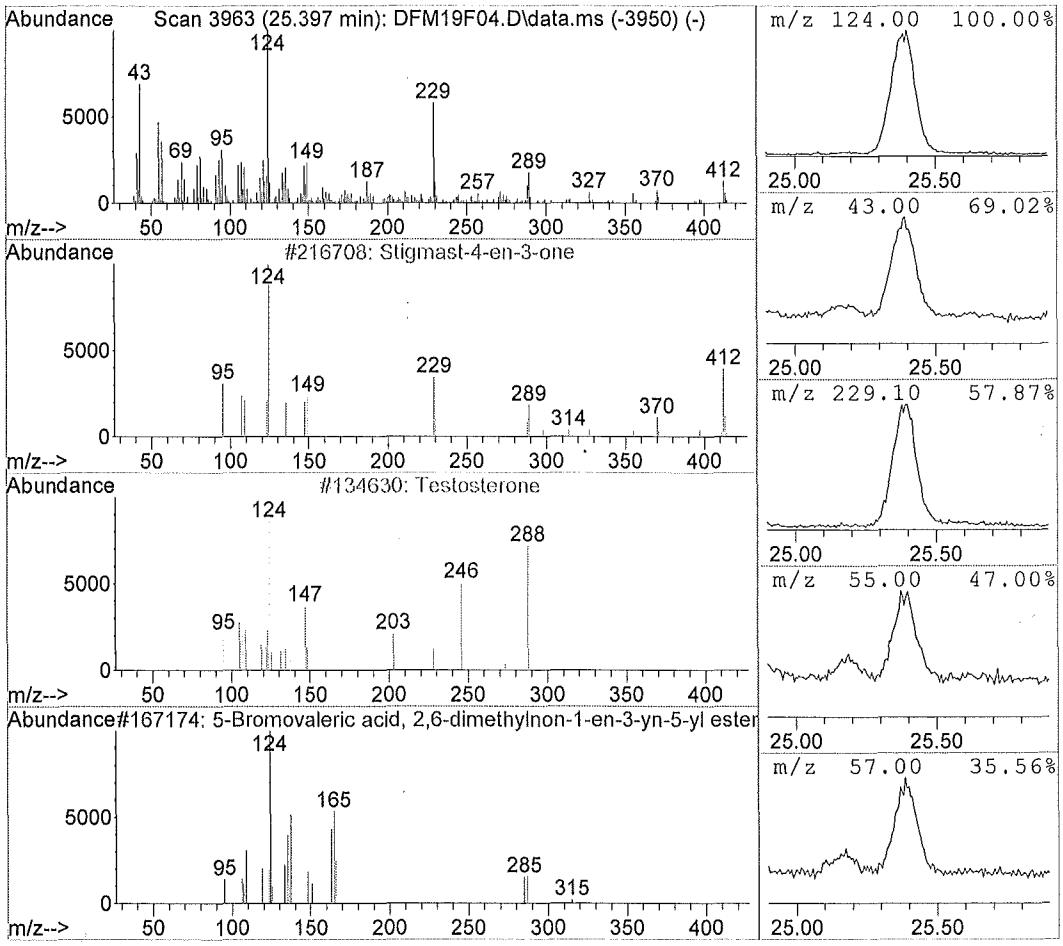
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM19F04.D Vial: 17
Acq On : 05/28/2015 10:53 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
25.40	2.31 ug/ml	1124951	Perylene-d12	9723256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	94.00
2	Testosterone	134630	000058-22-0	47.00
3	5-Bromovaleric acid, 2,6-dimethylno	167174	1000292-56-9	30.00
4	2-Chloro-4-fluorobenzylamide	30626	1000343-00-9	25.00
5	Isonicotinic acid, decyl ester	113185	1000299-88-5	25.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM20F05

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	1900	U

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

EPA SAMPLE NO.

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM20F05

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine[1]	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	1900	U
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	1900	U
129-00-0	Pyrene	1900	U
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	1900	U
218-01-9	Chrysene	1900	U
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	1900	U
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM20F05

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.6 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-	3.70	5100	JB
02		Unknown 2,2,4-Trimethyl-1,3-pentanediol diisobut	9.99	1000	J
03	301-02-0	9-Octadecenamide, (Z)-	15.31	940	JNB
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

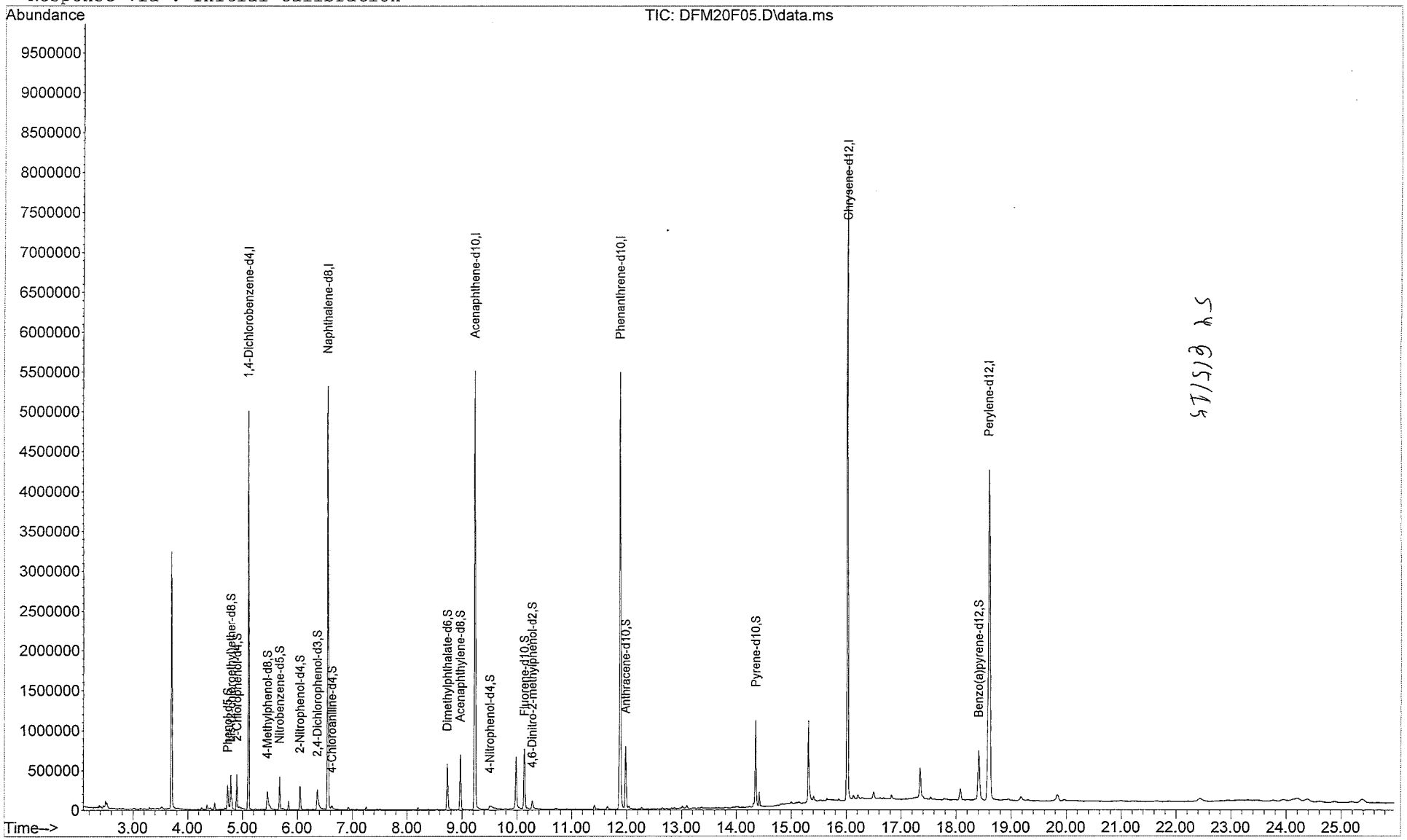
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM20F05.D Vial: 18
Acq On : 05/28/2015 11:28 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:54:17 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM20F05.D Vial: 18
Acq On : 05/28/2015 11:28 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 11:54:17 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	896157	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3040752	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1871665	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3343776	20.00 ug/ml
73) Chrysene-d12	16.02	240	4069563	20.00 ug/ml
81) Perylene-d12	18.59	264	3871924	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	149764	2.685ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	107276	2.629ug/mL
7) 2-Chlorophenol-d4	4.90	132	151530	2.726ug/ml
13) 4-Methylphenol-d8	5.45	113	107993	2.583ug/mL
17) Nitrobenzene-d5	5.67	128	68076	2.733ug/ml
21) 2-Nitrophenol-d4	6.05	143	76670	2.596ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	129797	2.720ug/mL
28) 4-Chloroaniline-d4	6.63	131	22450	0.626ug/mL
42) Dimethylphthalate-d6	8.73	166	373718	3.239ug/mL
45) Acenaphthylene-d8	8.97	160	470930	3.099ug/mL
50) 4-Nitrophenol-d4	9.51	143	43325	2.260ug/mL
57) Fluorene-d10	10.14	176	327367	3.210ug/mL
61) 4,6-Dinitro-2-methylphenol	10.28	200	34615	1.639ug/mL
69) Anthracene-d10	11.98	188	565299	3.300ug/mL
75) Pyrene-d10	14.34	212	560208	3.269ug/mL
86) Benzo(a)pyrene-d12	18.41	264	544832	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 : C:\msdchem\1\data\F9...6)\28MAY15\DFM20F05.D Vial: 18
Acq On : 05/28/2015 11:28 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 11:54:17 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

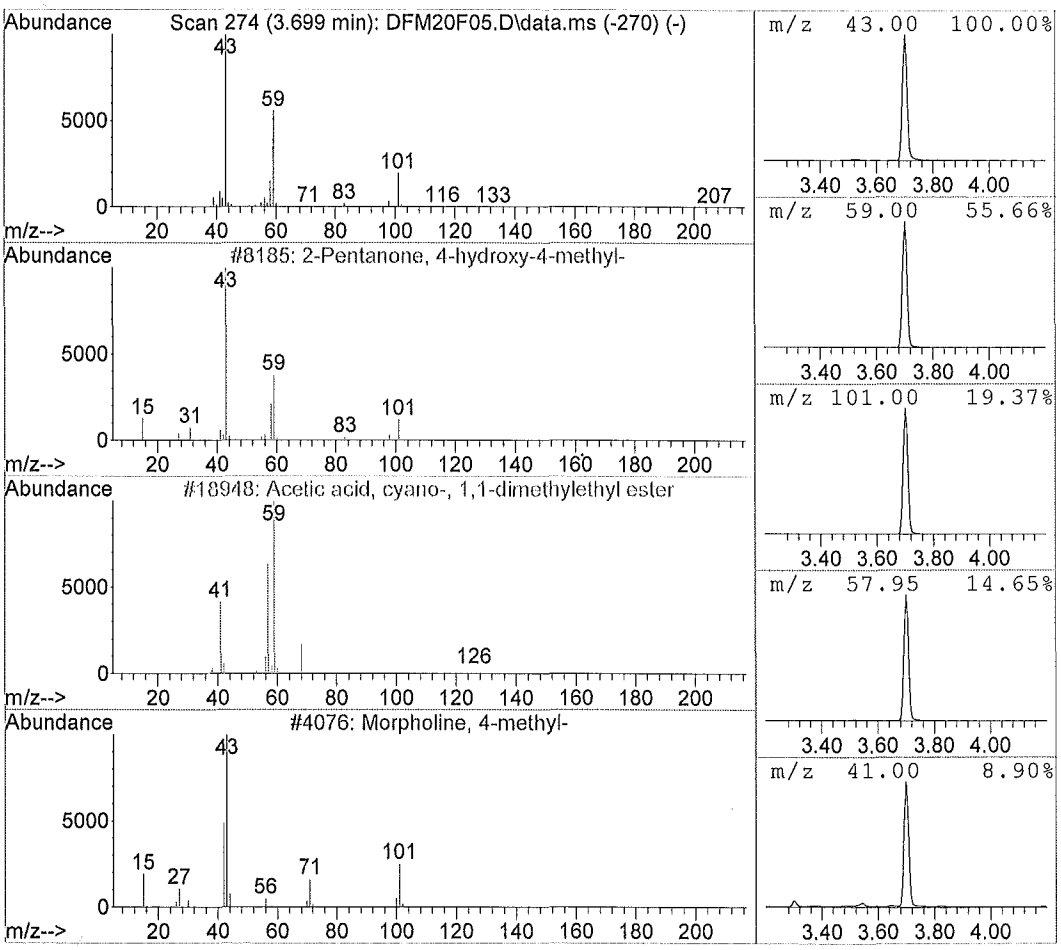
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM20F05.D Vial: 18
Acq On : 05/28/2015 11:28 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	13.64 ug/ml	3658129	1,4-Dichlorobenzene-d4	5363875

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	40.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	Morpholine, 4-methyl-	4076	000109-02-4	9.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Acetic acid, 1,1-dimethylethyl este	8202	000540-88-5	9.00



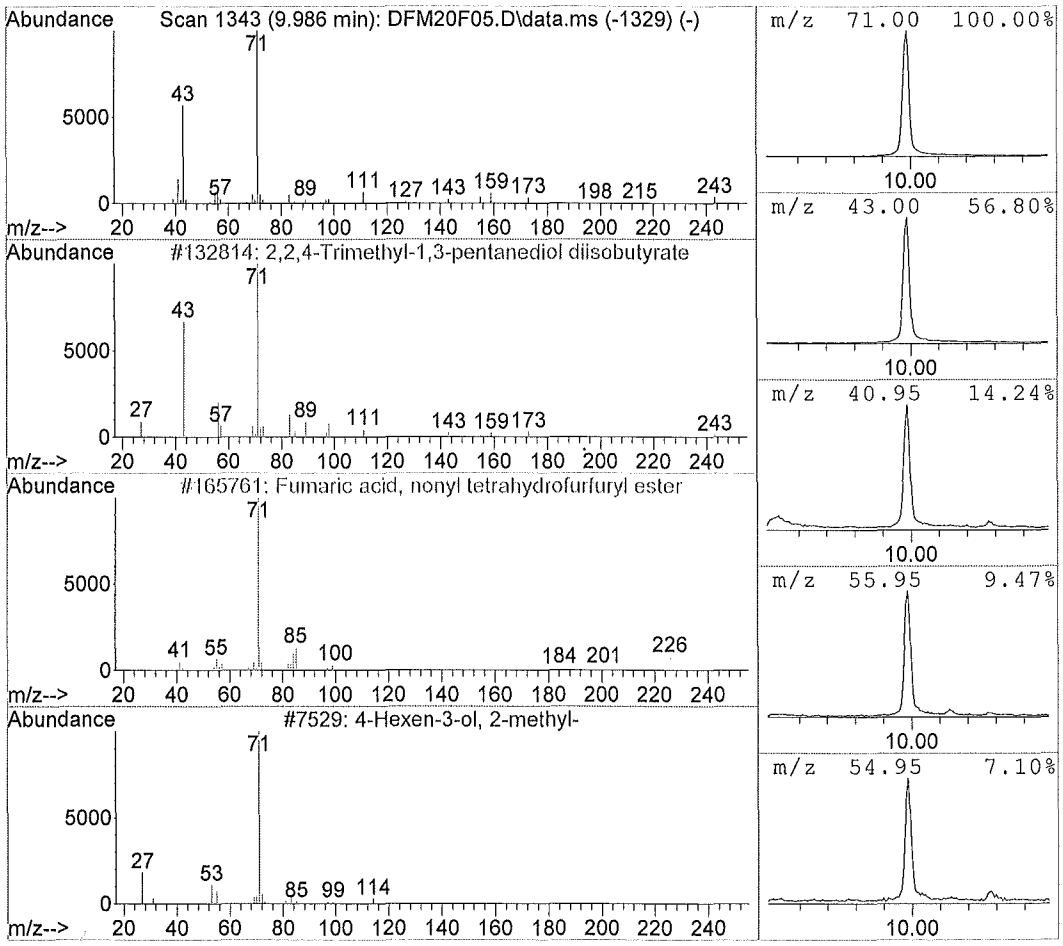
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM20F05.D Vial: 18
Acq On : 05/28/2015 11:28 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.80 ug/ml	1060698	Acenaphthene-d10	7578267

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	50.00
2	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	42.00
3	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00
4	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	42.00
5	Boronic acid, ethyl-, bis(2,2-dimet	72545	067753-47-3	39.00



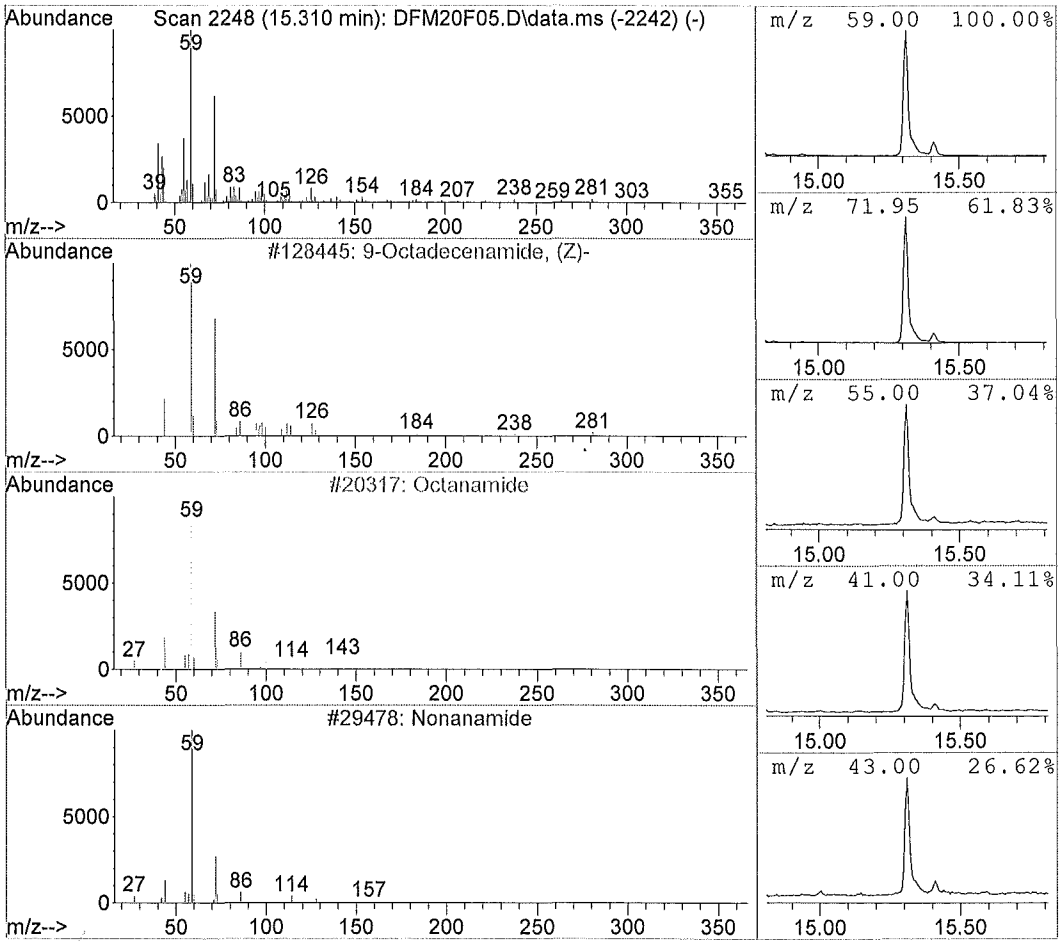
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM20F05.D Vial: 18
Acq On : 05/28/2015 11:28 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	2.53 ug/ml	1340389	Chrysene-d12	10591230

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	64.00
3	Nonanamide	29478	001120-07-6	53.00
4	Hexanamide	7793	000628-02-4	53.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F02

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F02

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F02

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.54	150	J
02		Unknown 4-Chloro-2-butanone	3.53	88.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4400	JB
04		Unknown 3-Hexene-2,5-dione	4.49	87.	J
05	638-58-4	Tetradecanamide	13.10	77.	JN
06		Unknown 9-Octadecenamide, (Z)-	14.31	130	JB
07	629-54-9	Hexadecanamide	14.42	230	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.32	2200	JNB
09	638-58-4	Tetradecanamide	15.41	86.	JN
10	301-02-0	9-Octadecenamide, (Z)-	16.13	82.	JNB
11		Unknown Cyclohexanecarboxamide	16.50	120	J
12	112-84-5	13-Docosenamide, (Z)-	17.34	390	JN
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

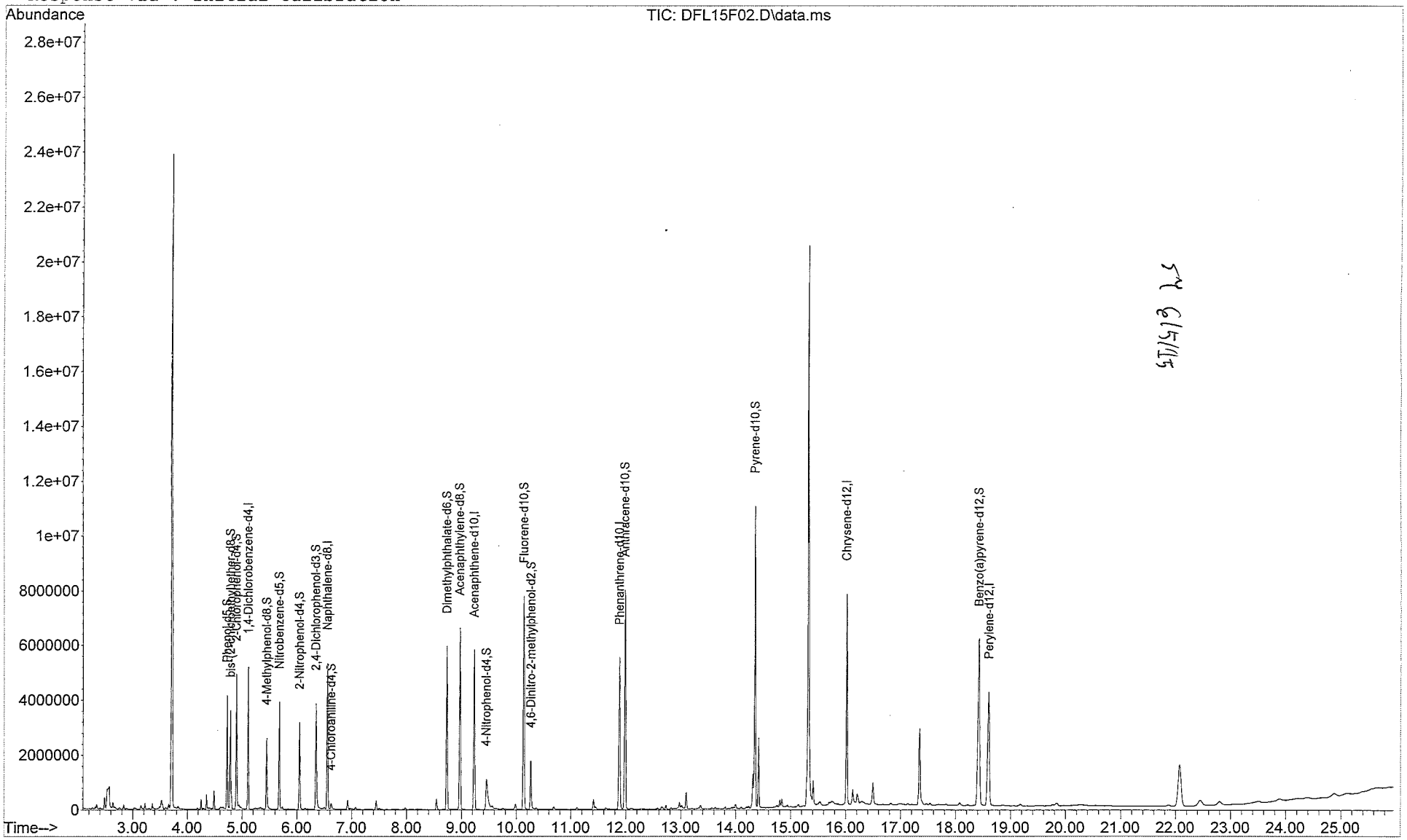
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:17:32 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:32 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	930807	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3178290	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1960304	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3351084	20.00 ug/ml
73) Chrysene-d12	16.02	240	3904194	20.00 ug/ml
81) Perylene-d12	18.60	264	3773589	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1536385	26.521ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	908042	21.422ug/mL
7) 2-Chlorophenol-d4	4.89	132	1413161	24.473ug/ml
13) 4-Methylphenol-d8	5.45	113	689595	15.881ug/mL
17) Nitrobenzene-d5	5.67	128	633958	24.353ug/ml
21) 2-Nitrophenol-d4	6.05	143	759189	24.593ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1238756	24.832ug/mL
28) 4-Chloroaniline-d4	6.62	131	114733	3.061ug/mL
42) Dimethylphthalate-d6	8.73	166	3737459	30.923ug/mL
45) Acenaphthylene-d8	8.97	160	4399105	27.642ug/mL
50) 4-Nitrophenol-d4	9.46	143	571933	28.491ug/mL
57) Fluorene-d10	10.14	176	3186219	29.834ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	485805	22.956ug/mL
69) Anthracene-d10	11.98	188	5387839	31.383ug/mL
75) Pyrene-d10	14.35	212	5399560	32.841ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5487116	31.774ug/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)

000221

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:32 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

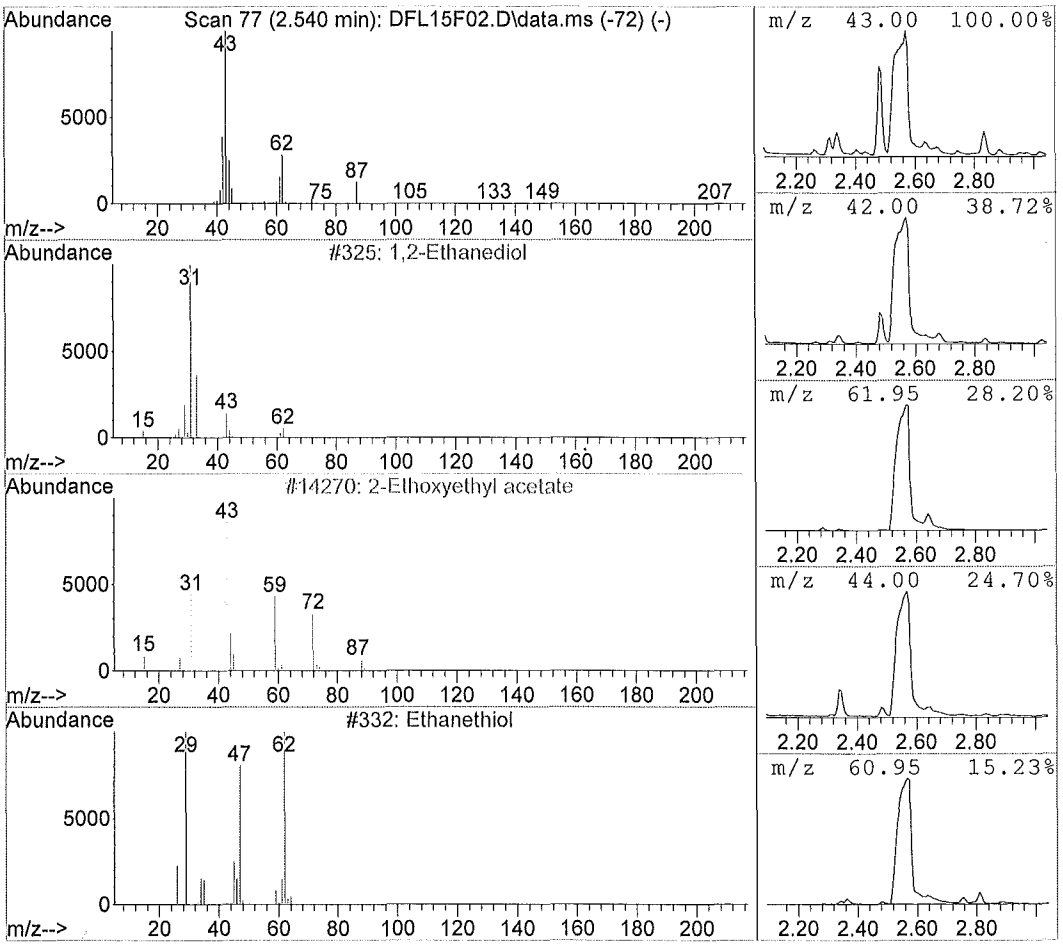
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.54	3.94 ug/ml	1081016	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	2-Ethoxyethyl acetate	14270	000111-15-9	9.00
3	Ethanethiol	332	000075-08-1	5.00
4	Peroxide, dimethyl	330	000690-02-8	4.00
5	Ethene, chloro-	323	000075-01-4	4.00



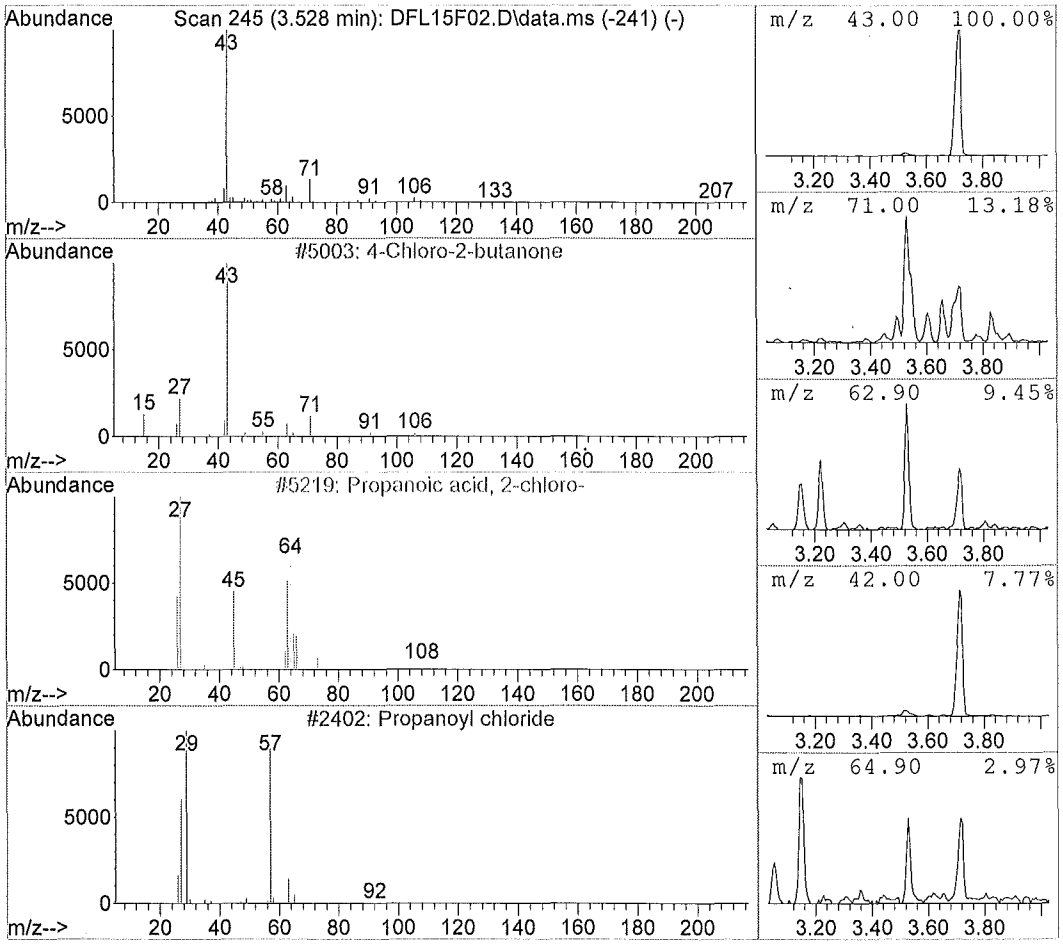
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.31 ug/ml	634396	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	72.00
2	Propanoic acid, 2-chloro-	5219	000598-78-7	9.00
3	Propanoyl chloride	2402	000079-03-8	9.00
4	Diacetyl sulphide	8654	003232-39-1	9.00
5	2-Hexanone, 3-methyl-	7499	002550-21-2	9.00



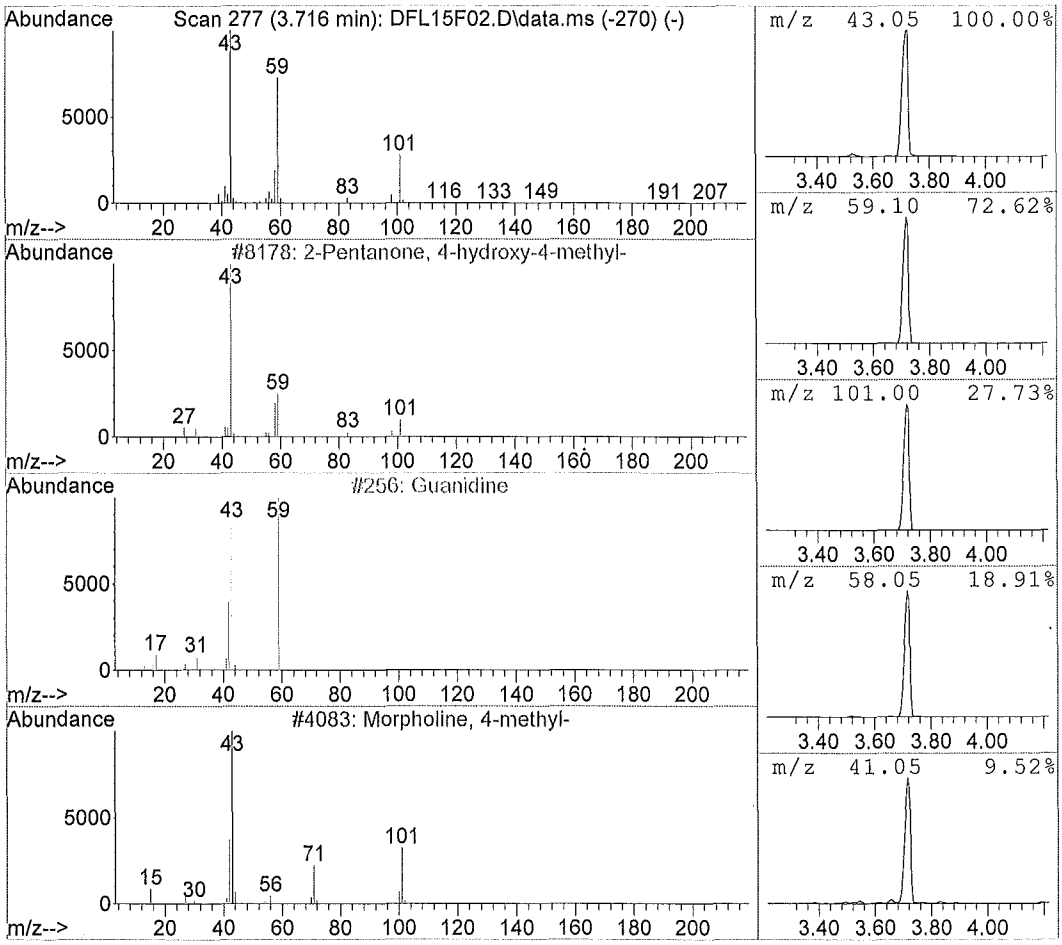
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	115.23 ug/ml	31644923	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	43.00
3	Morpholine, 4-methyl-	4083	000109-02-4	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



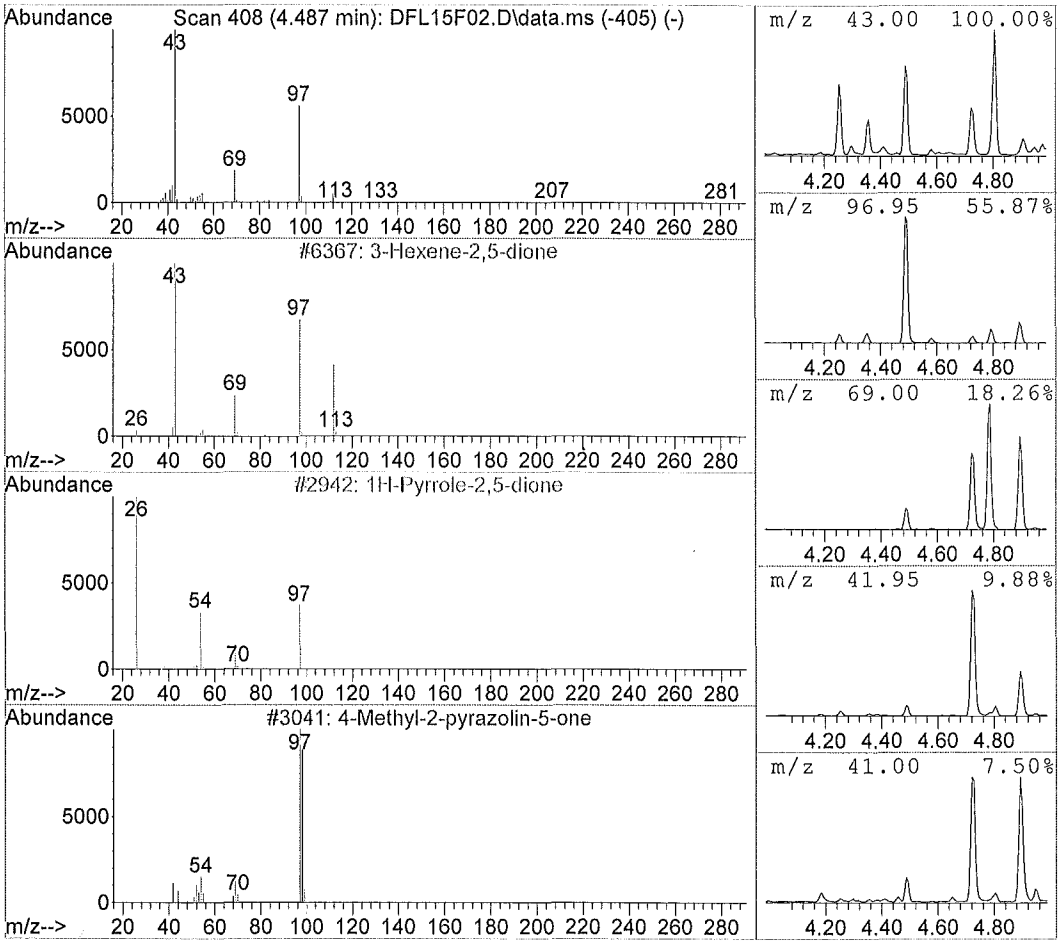
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.27 ug/ml	623894	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	45.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	5-Hexen-2-one	3152	000109-49-9	10.00
5	2-Cyclohexen-1-ol, 1-methyl-	6571	023758-27-2	9.00



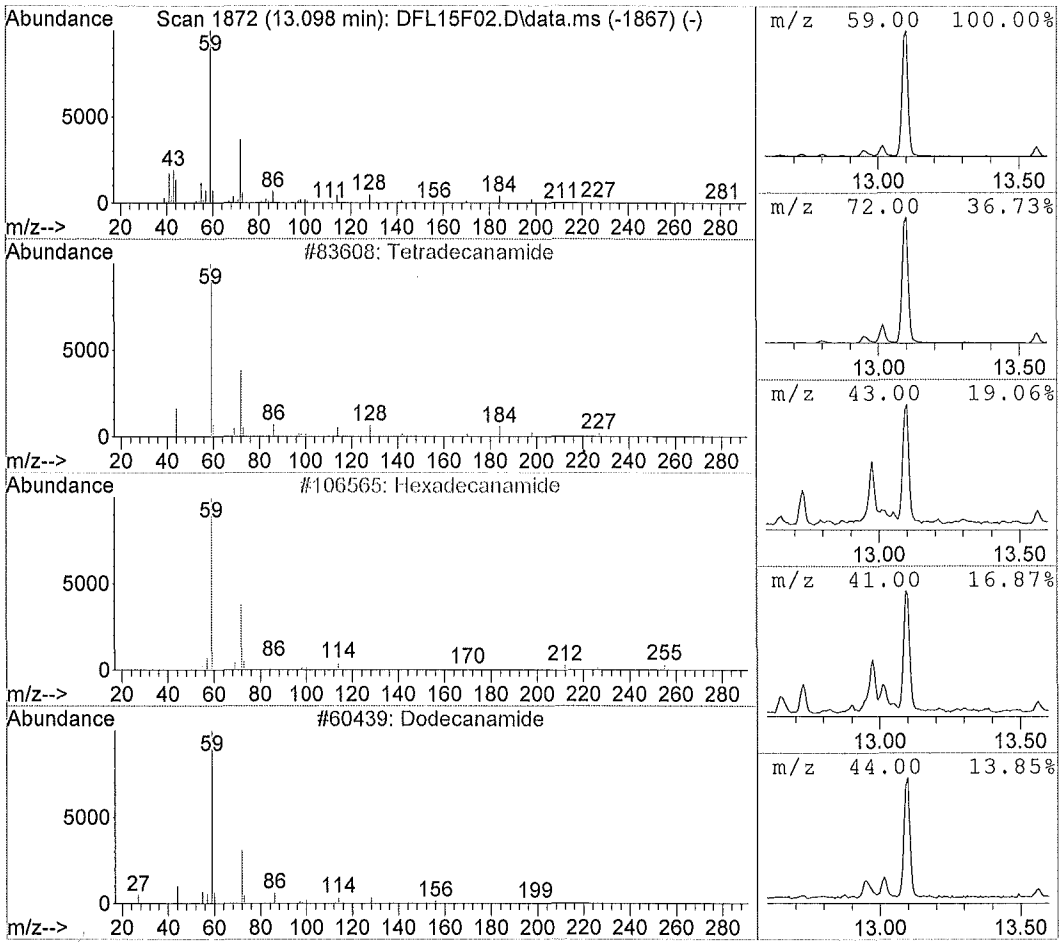
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.10	2.02 ug/ml	837362	Phenanthrene-d10	8277243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	96.00
2	Hexadecanamide	106565	000629-54-9	91.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	Nonanamide	29478	001120-07-6	78.00



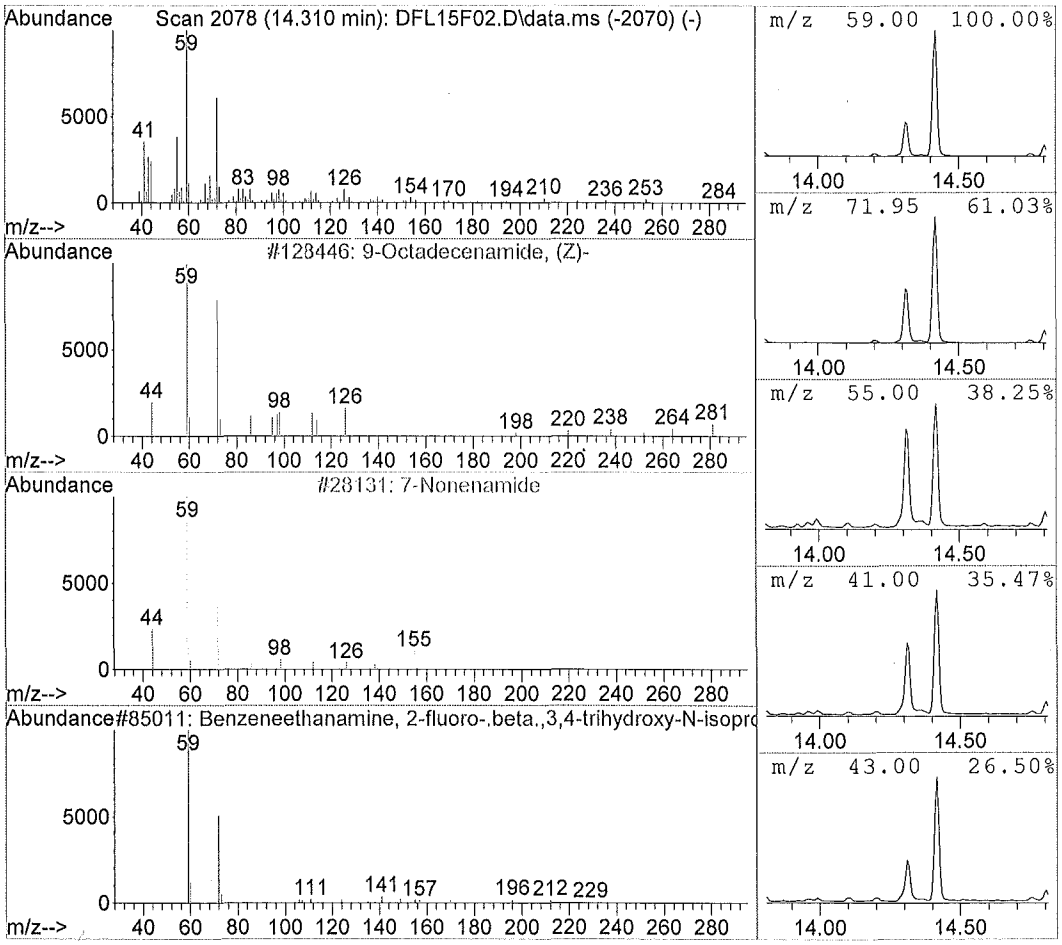
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	3.29 ug/ml	1647388	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
4	Hexanamide	7793	000628-02-4	59.00
5	Hexadecanamide	106565	000629-54-9	53.00



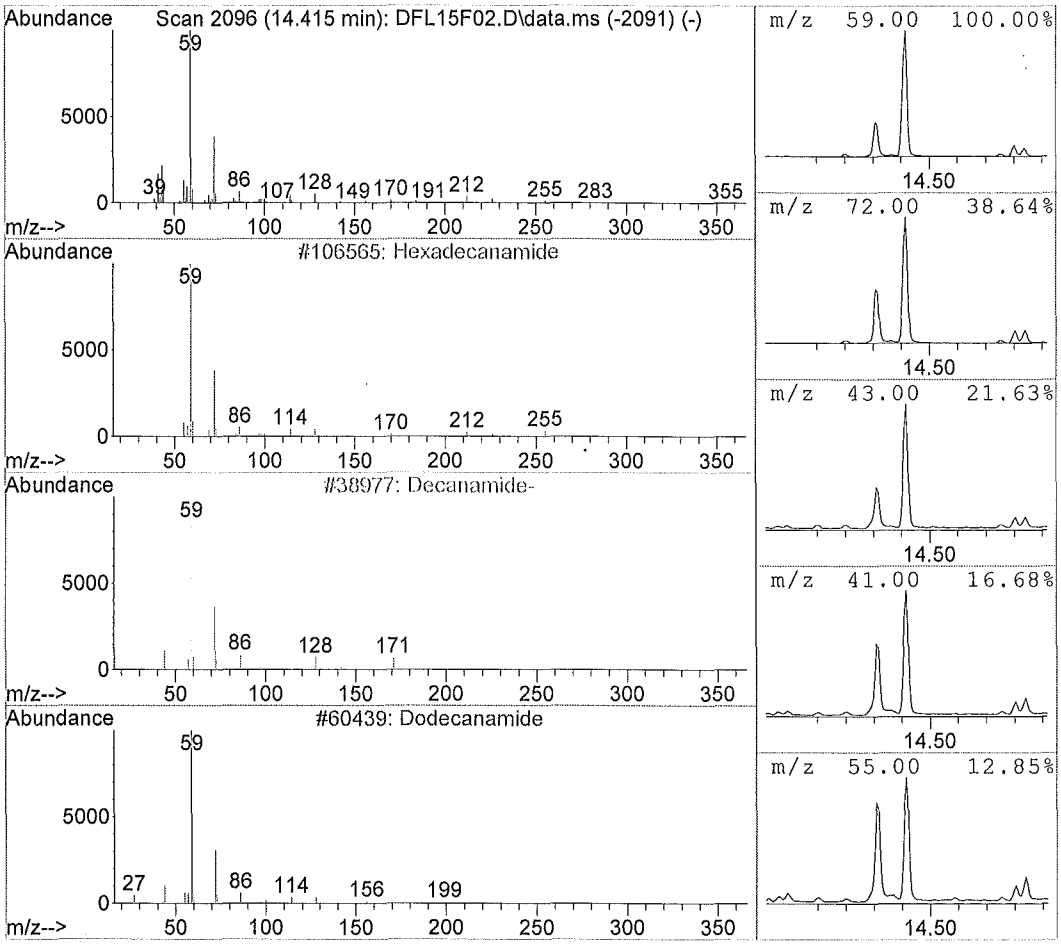
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.93 ug/ml	2964965	Chrysene-d12	10005947

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	Dodecanamide	60439	001120-16-7	90.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Octanamide	20317	000629-01-6	64.00



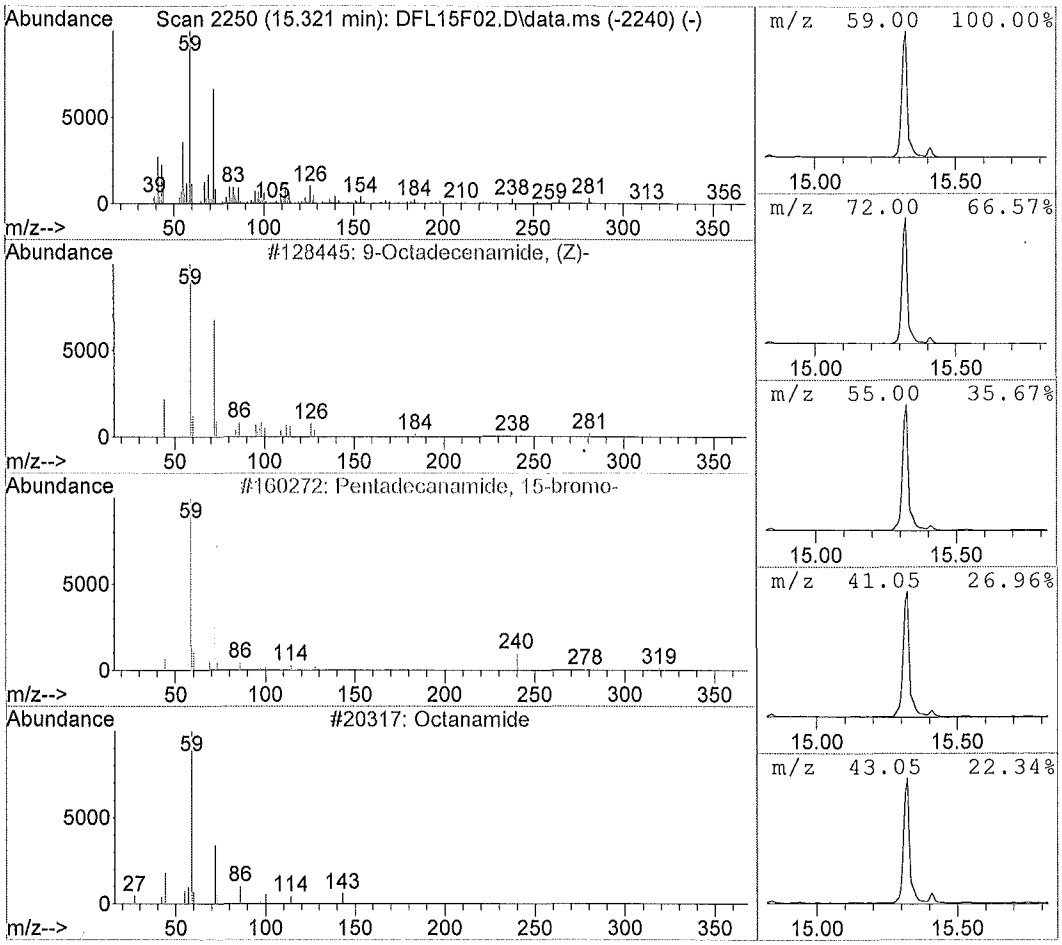
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	57.45 ug/ml	28739976	Chrysene-d12	10005947

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	64.00
3	Octanamide	20317	000629-01-6	53.00
4	Nonanamide	29478	001120-07-6	53.00
5	Dodecanamide	60440	001120-16-7	53.00



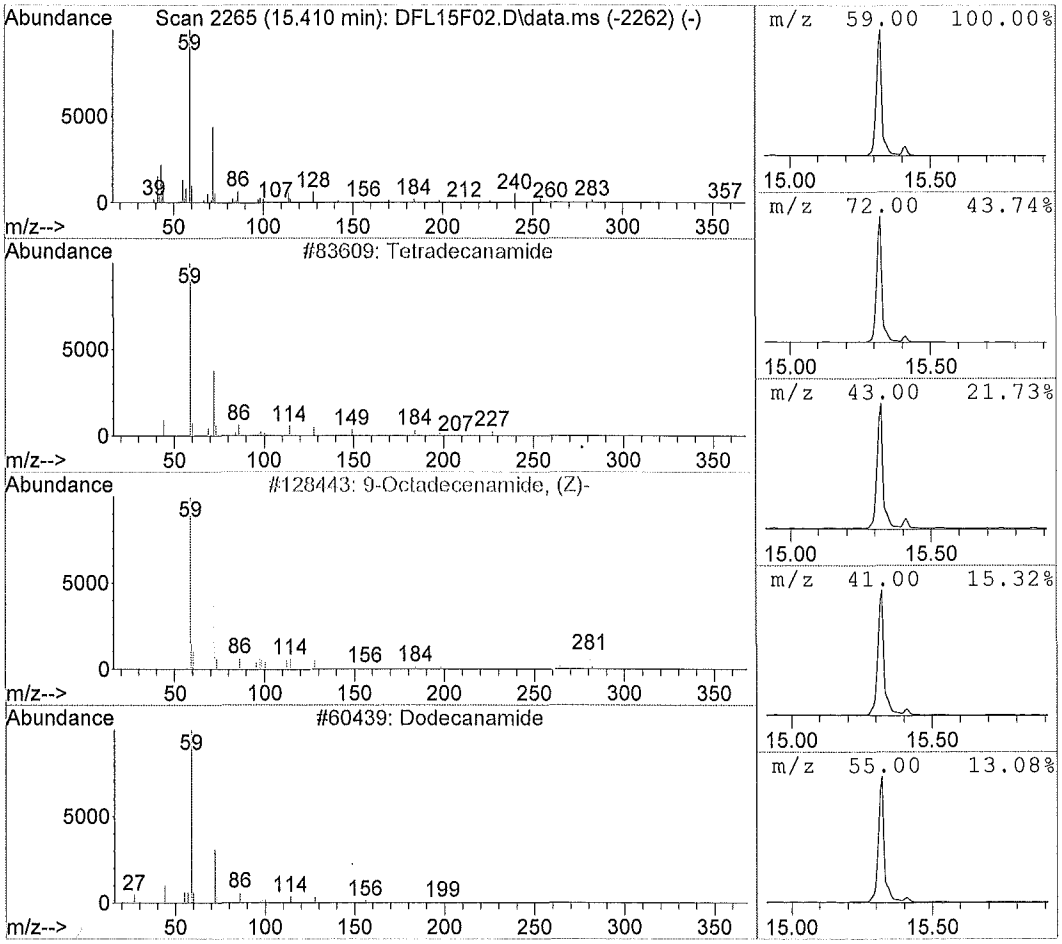
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.25 ug/ml	1125717	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	86.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Octadecanamide	130204	000124-26-5	74.00
5	Nonadecanamide	142051	058185-32-3	64.00



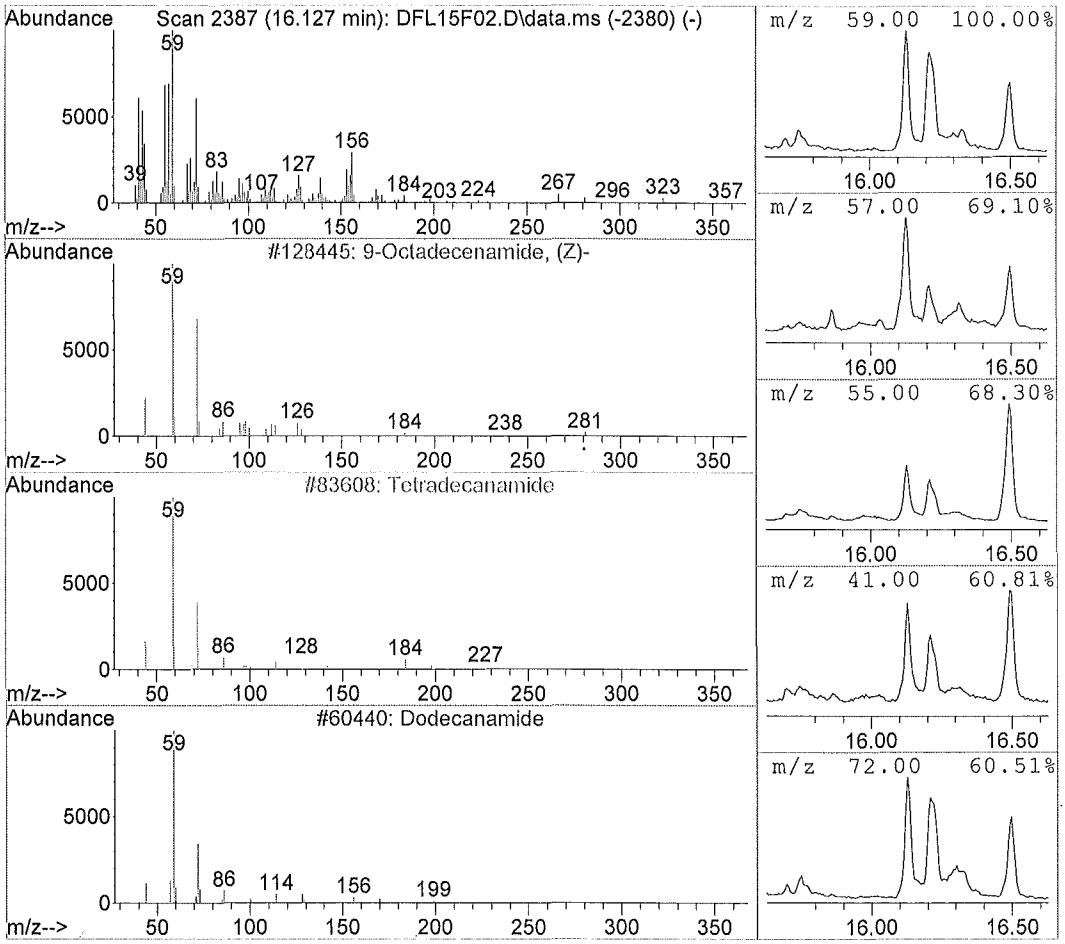
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.14 ug/ml	1072929	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Tetradecanamide	83608	000638-58-4	60.00
3	Dodecanamide	60440	001120-16-7	43.00
4	Cyclohexanecarboxamide	11823	001122-56-1	38.00
5	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	38.00



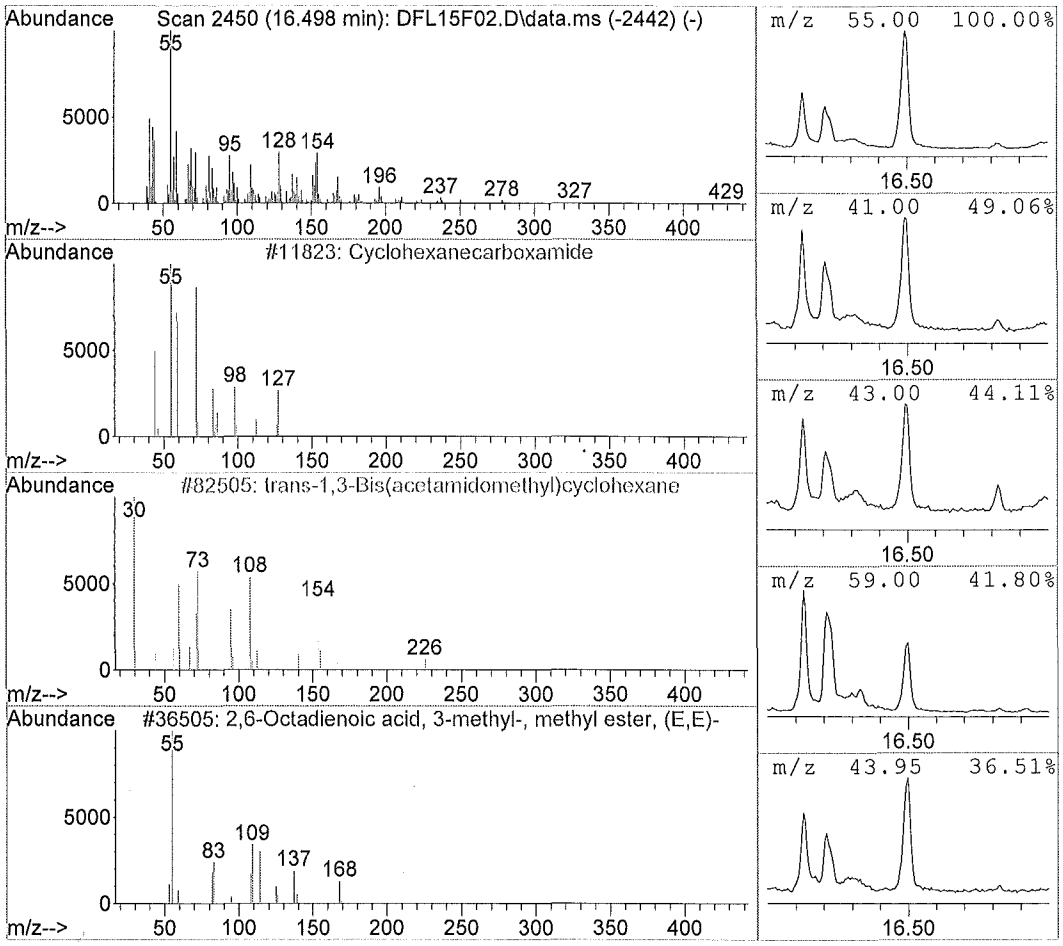
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.26 ug/ml	1632958	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	14.00
2	trans-1,3-Bis(acetamidomethyl)cyclo	82505	070924-82-2	12.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
4	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
5	1-Decalone (cis-trans)	25124	004832-16-0	9.00



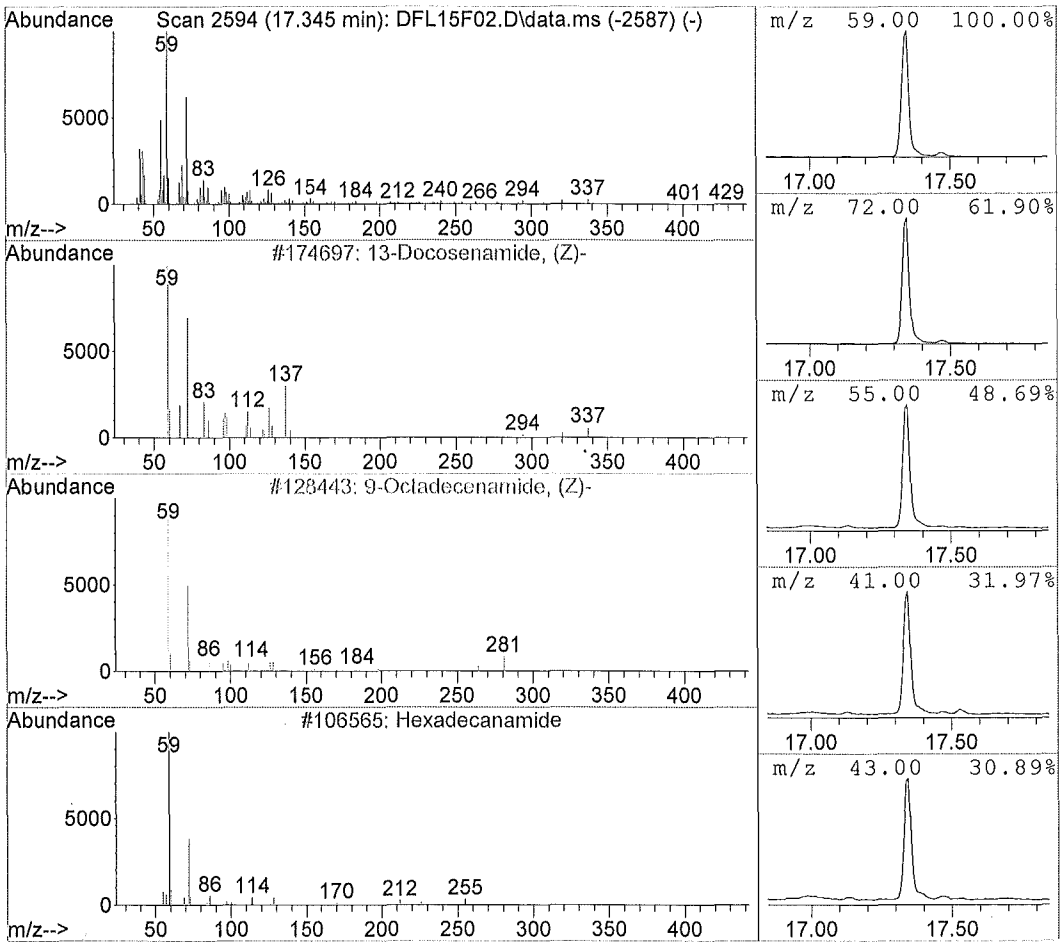
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	10.17 ug/ml	4931865	Perylene-d12	9698268

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Hexadecanamide	106565	000629-54-9	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	Tetradecanamide	83610	000638-58-4	64.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL08F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL08F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL08F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	78-95-5	2-Propanone, 1-chloro-	2.48	92.	JNB
02		Unknown 3-Pyrrolidinol	2.53	180	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	6400	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.49	100	J
05		Unknown Benzene, 1-chloro-4-methoxy-2-methyl-	7.45	80.	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	110	JB
07	301-02-0	9-Octadecenamide, (Z)-	14.31	110	JNB
08	629-54-9	Hexadecanamide	14.42	230	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.32	1900	JNB
10		Unknown Cyclohexanecarboxamide	16.50	130	J
11	112-84-5	13-Docosenamide, (Z)-	17.34	860	JN
12		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.20	1600	J
13		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	800	J
14	502-73-8	16-Hentriacontanone	22.22	90.	JN
15		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	22.45	120	J
16		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.45	2600	J
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

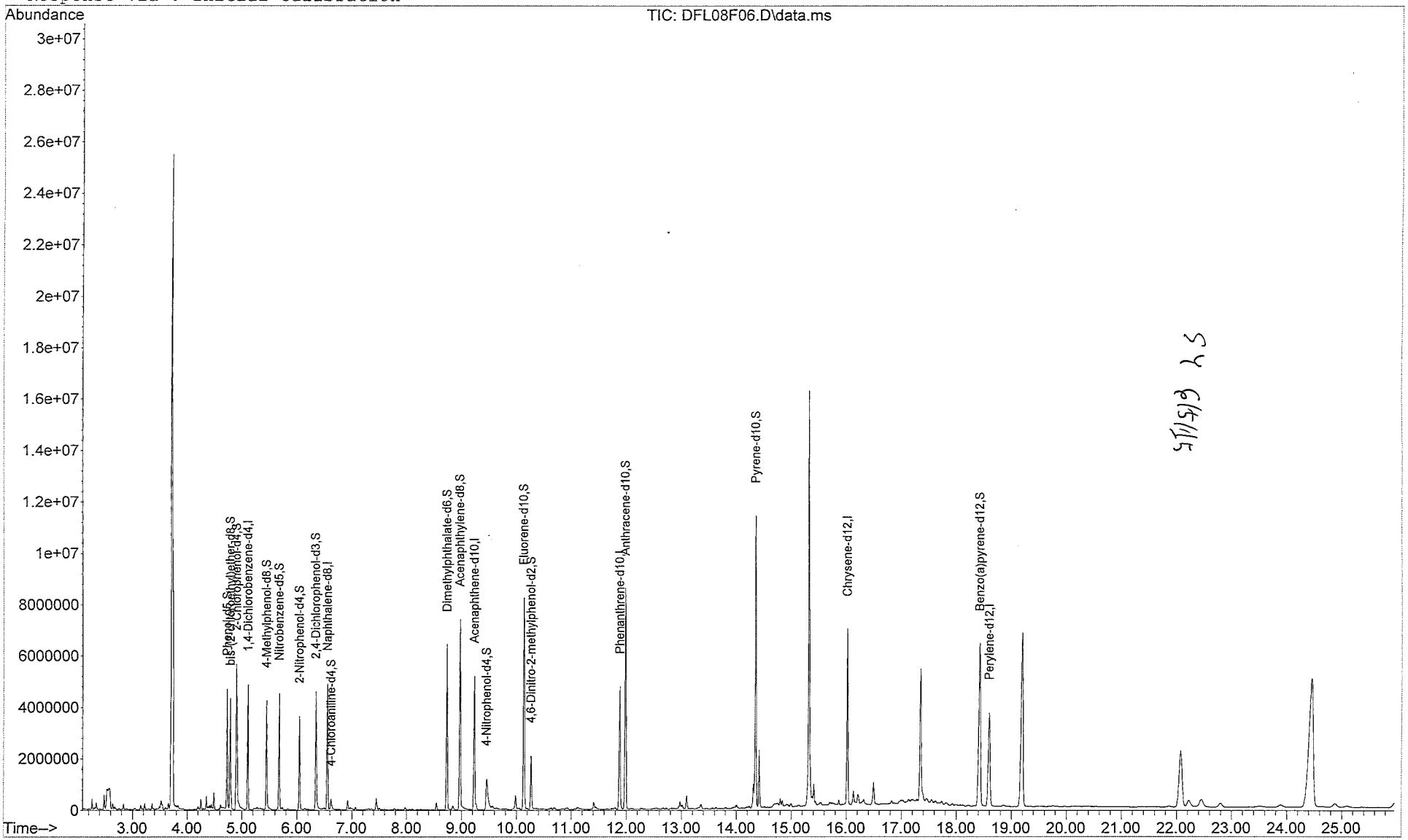
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:14:34 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5/27 6/15/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:34 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	870632	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2867072	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1743620	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2983965	20.00 ug/ml
73) Chrysene-d12	16.02	240	3459227	20.00 ug/ml
81) Perylene-d12	18.59	264	3282705	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1673956	30.893ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1082520	27.303ug/mL
7) 2-Chlorophenol-d4	4.90	132	1627684	30.136ug/ml
13) 4-Methylphenol-d8	5.45	113	1058659	26.065ug/mL
17) Nitrobenzene-d5	5.67	128	729813	31.079ug/ml
21) 2-Nitrophenol-d4	6.05	143	866158	31.103ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1380213	30.670ug/mL
28) 4-Chloroaniline-d4	6.62	131	224967	6.654ug/mL
42) Dimethylphthalate-d6	8.73	166	3992819	37.141ug/mL
45) Acenaphthylene-d8	8.97	160	4877789	34.459ug/mL
50) 4-Nitrophenol-d4	9.46	143	598162	33.501ug/mL
57) Fluorene-d10	10.14	176	3422134	36.025ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	558323	29.629ug/mL
69) Anthracene-d10	11.98	188	5621494	36.772ug/mL
75) Pyrene-d10	14.35	212	5657868	38.839ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5604903	37.309ug/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)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:34 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

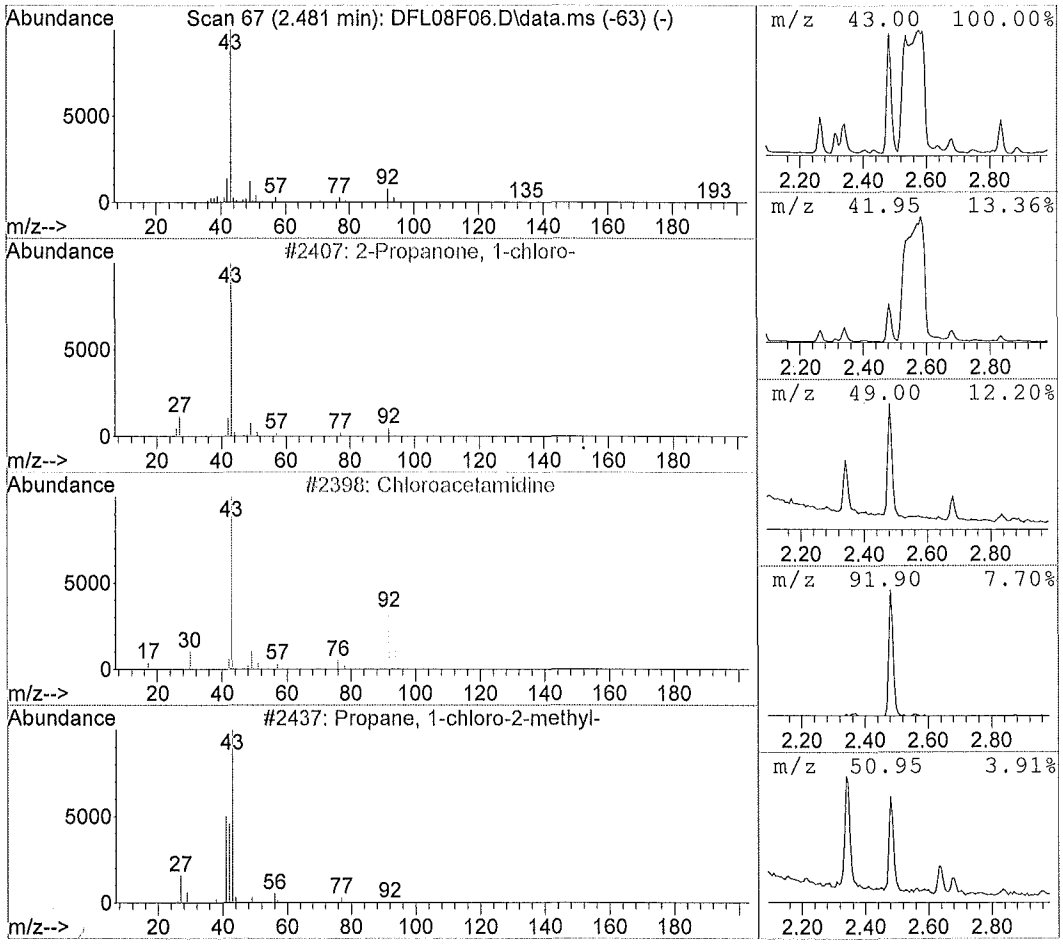
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.37 ug/ml	607945	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00
5	Acetyl chloride	990	000075-36-5	9.00



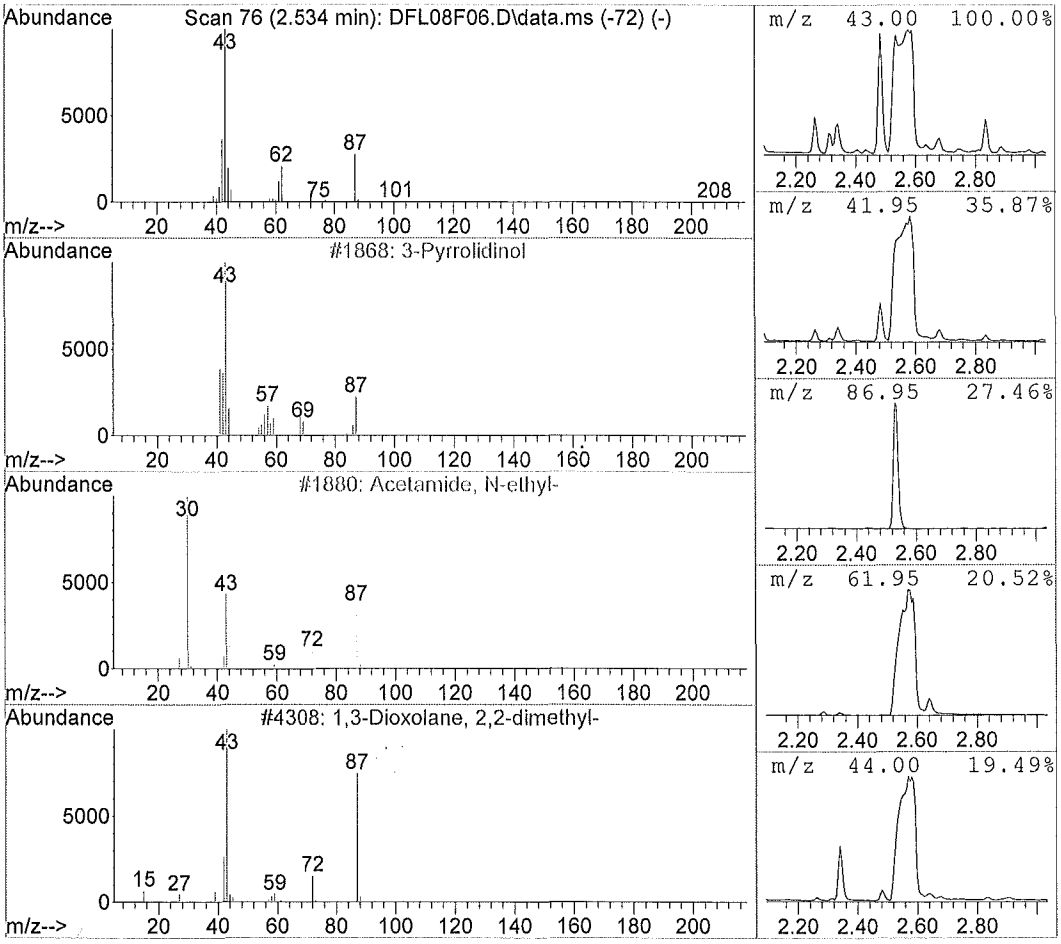
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.53	4.57 ug/ml	1172177	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	1868	040499-83-0	12.00
2	Acetamide, N-ethyl-	1880	000625-50-3	10.00
3	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
4	Glyceraldehyde	2253	000056-82-6	9.00
5	Ethanethiol	332	000075-08-1	7.00



Library Search Compound Report

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Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On    : 05/27/2015 12:46                          Operator: DJC
Sample    : 1513978006  F9KX5                         Inst    : 5975-D
Misc      : . SOIL SOM                                Injection volume : 1uL
MS Integration Params: rteint.p

Method    : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title     : EPA/CLP SOM01
Library   : C:\Database\NIST11.L
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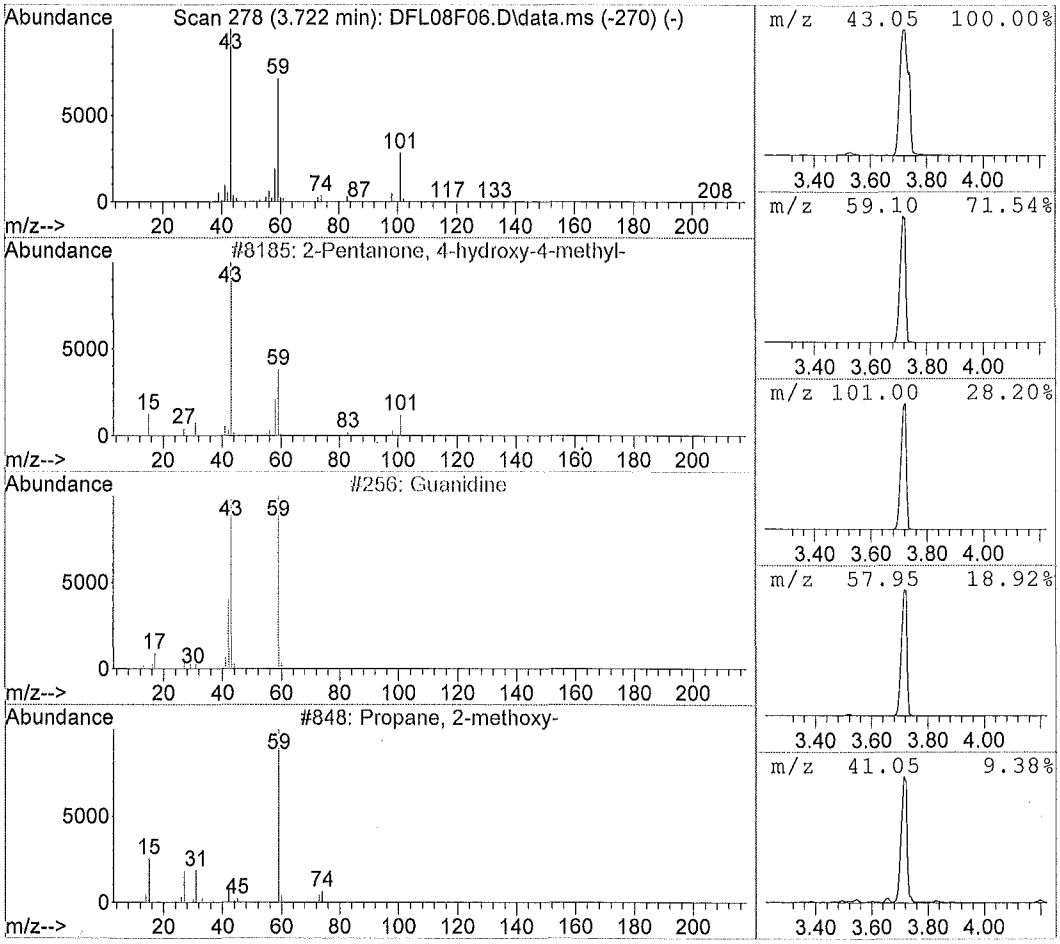
R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	164.77 ug/ml	42229210	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	47.00
2	Guanidine	256	000113-00-8	43.00
3	Propane, 2-methoxy-	848	000598-53-8	35.00
4	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	35.00
5	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	25.00



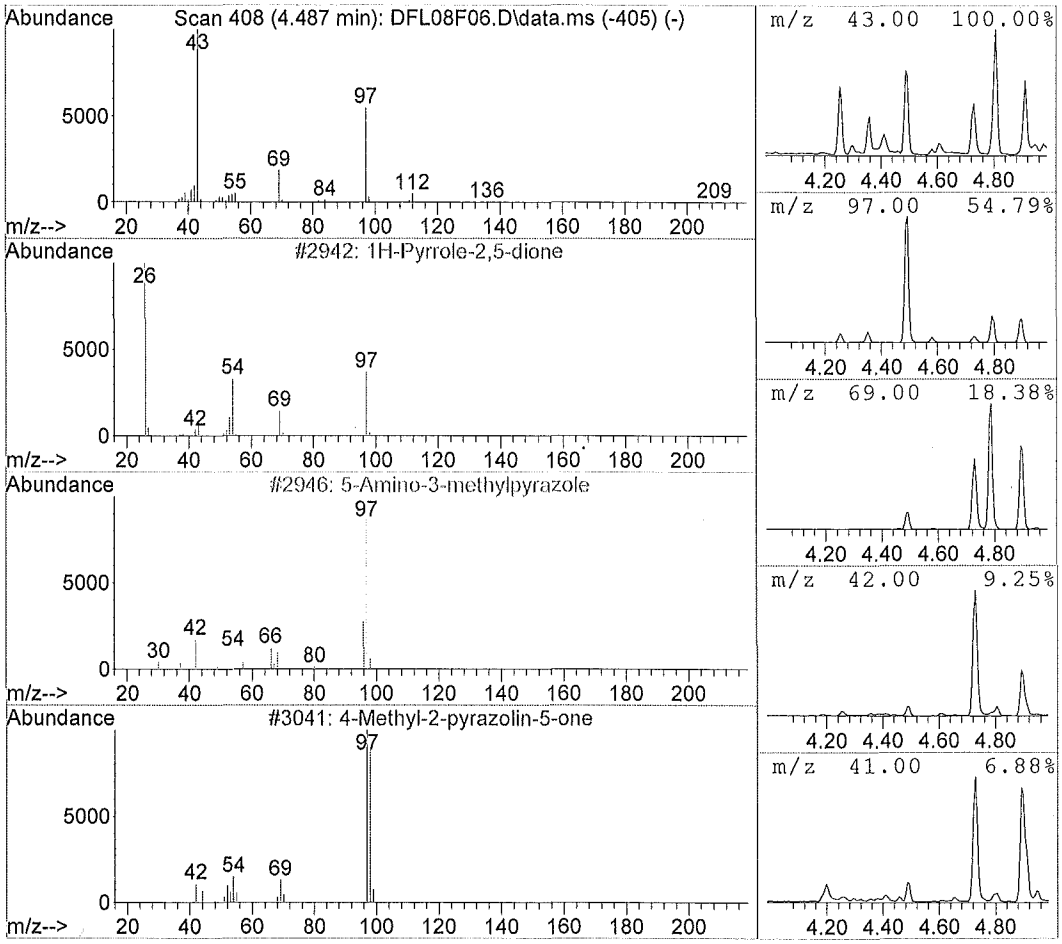
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.66 ug/ml	681474	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00



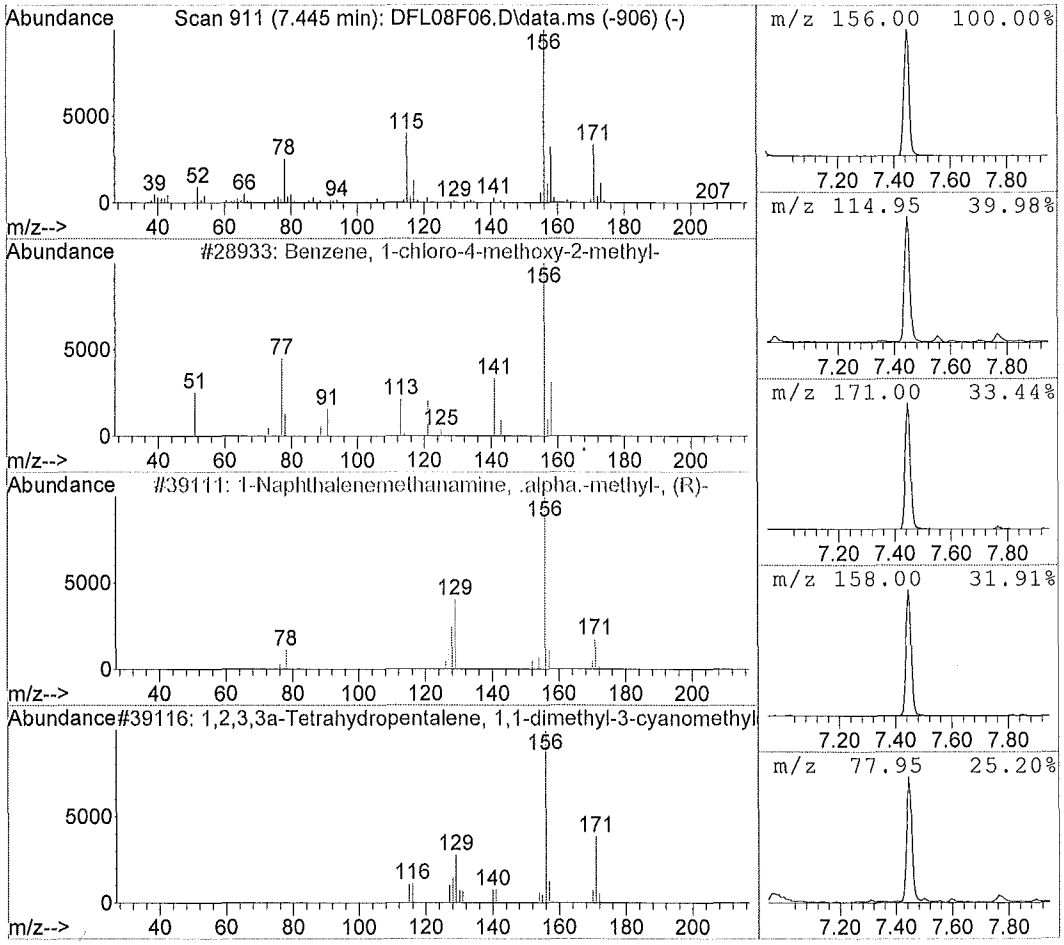
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.45	2.05 ug/ml	618142	Naphthalene-d8	6025041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-chloro-4-methoxy-2-methy	28933	013334-71-9	43.00
2	1-Naphthalenemethanamine, .alpha.-m	39111	003886-70-2	43.00
3	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	43.00
4	2,2'-Bipyridine	28390	000366-18-7	38.00
5	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	38.00



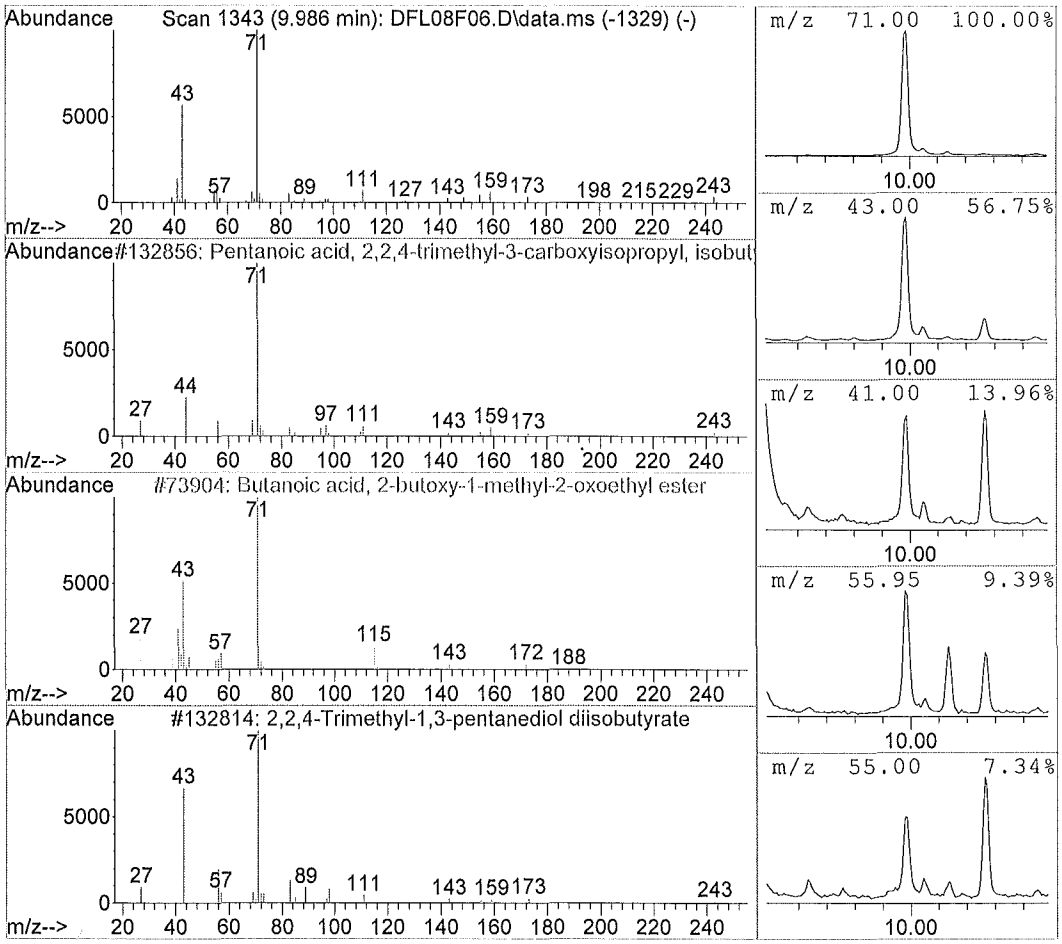
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.72 ug/ml	965288	Acenaphthene-d10	7096549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	59.00
3	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	50.00
4	Decane, 3,3,8-trimethyl-	48906	062338-16-3	45.00
5	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00



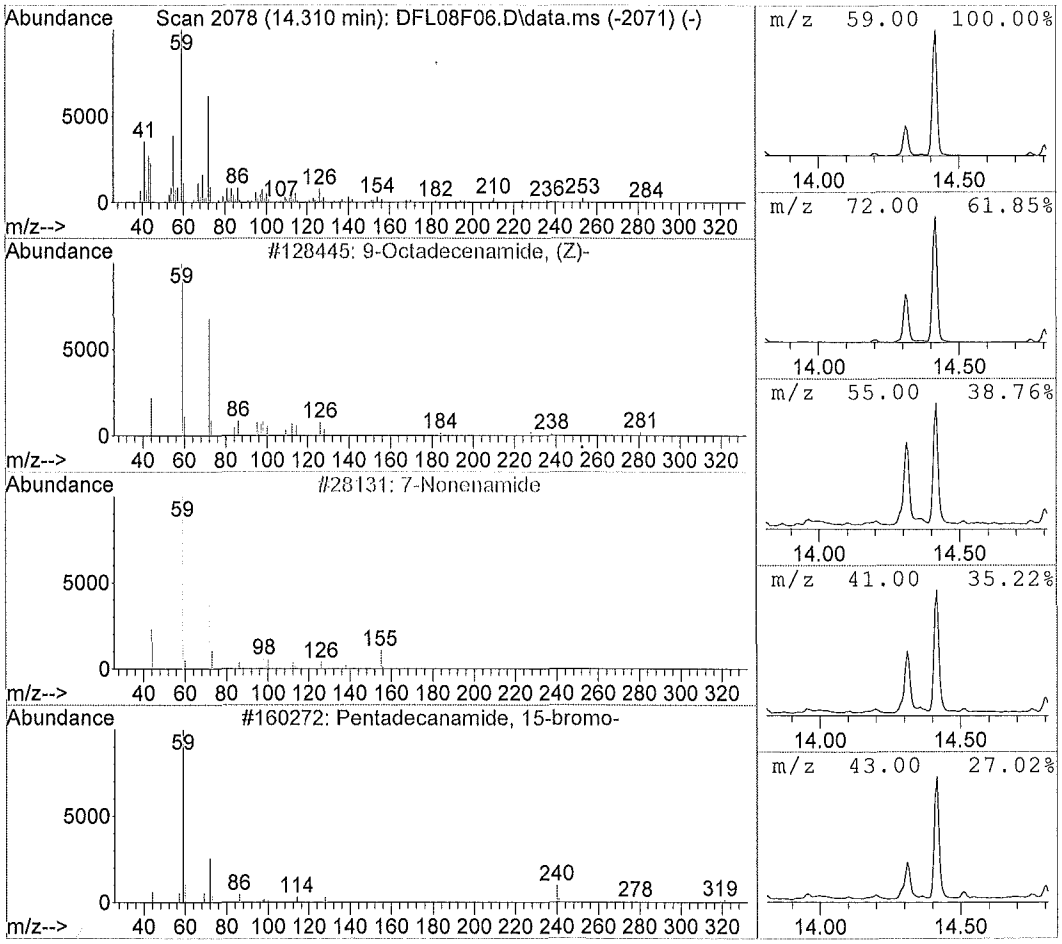
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.89 ug/ml	1301379	Chrysene-d12	8990537

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Octanamide	20317	000629-01-6	59.00
5	Dodecanamide	60439	001120-16-7	53.00



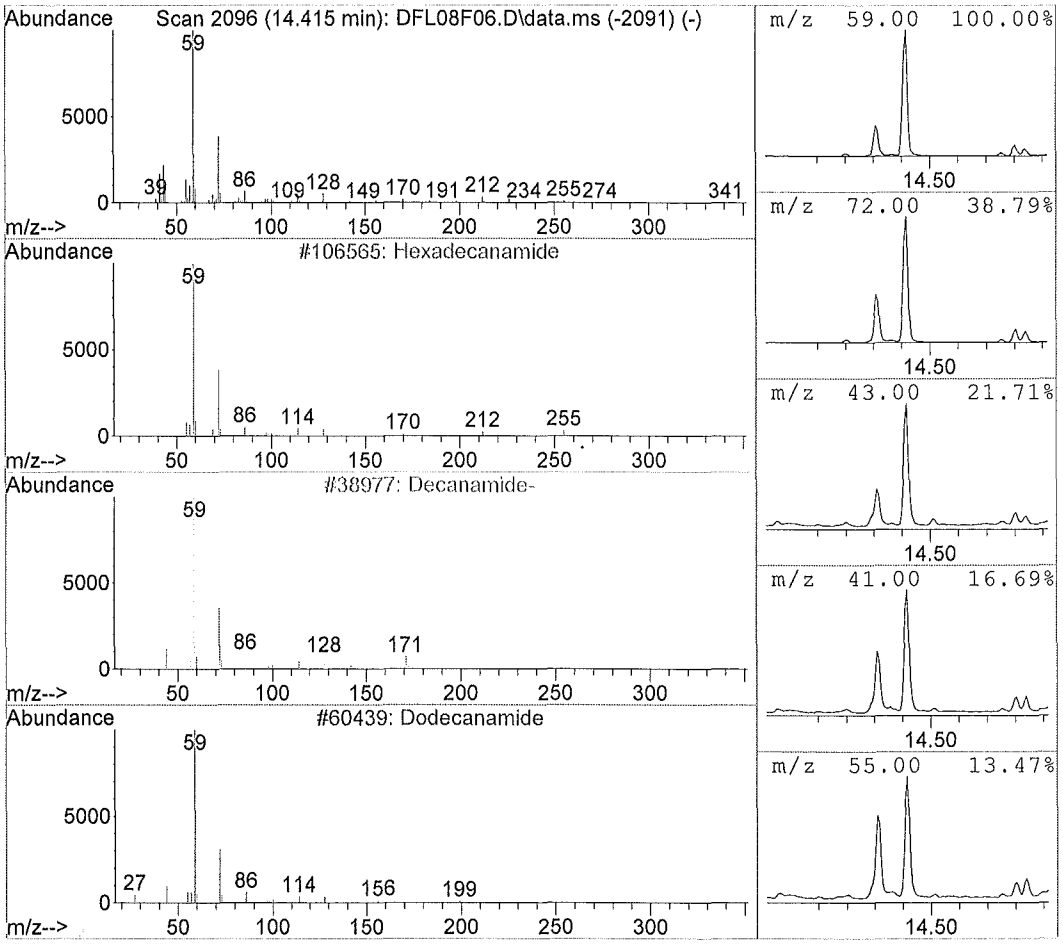
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.81 ug/ml	2612897	Chrysene-d12	8990537

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	Dodecanamide	60439	001120-16-7	86.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Nonanamide	29478	001120-07-6	59.00



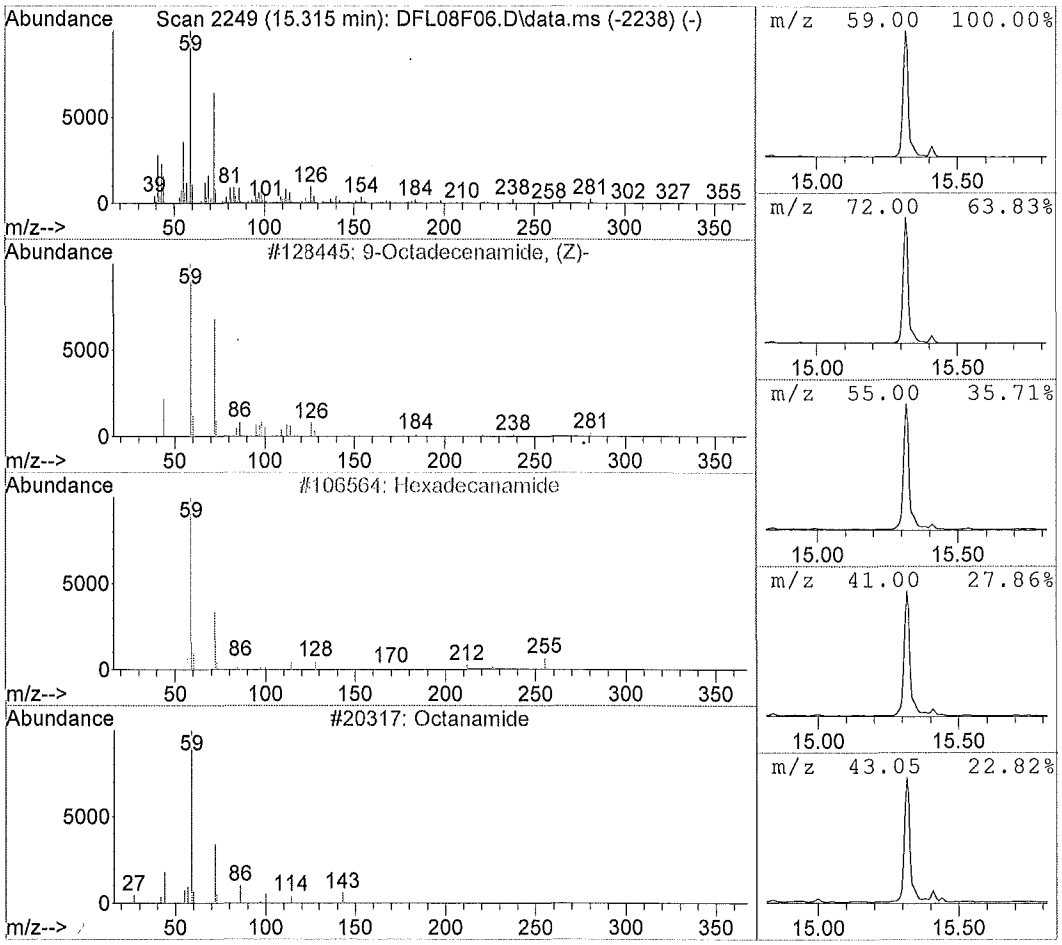
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	48.52 ug/ml	21811363	Chrysene-d12	8990537

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	64.00
3	Octanamide	20317	000629-01-6	53.00
4	Tetradecanamide	83609	000638-58-4	50.00
5	Dodecanamide	60440	001120-16-7	42.00



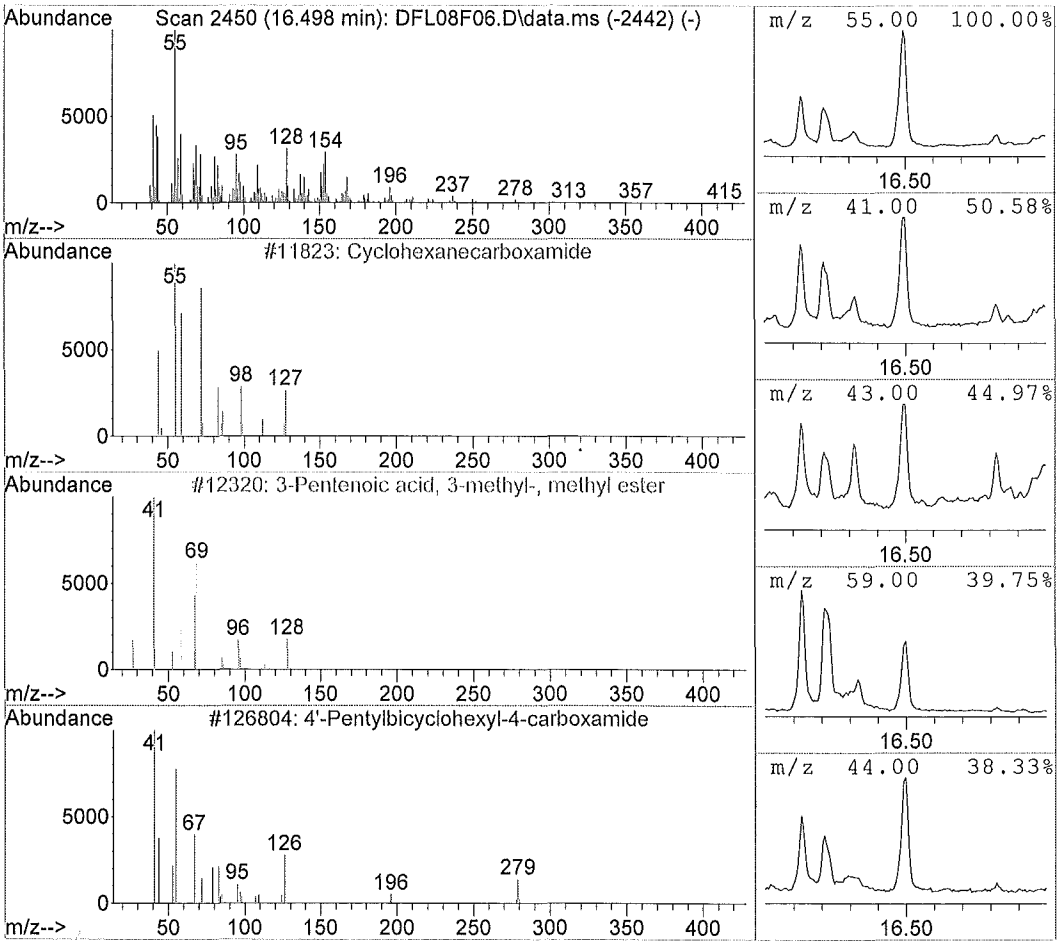
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.43 ug/ml	1543306	Chrysene-d12	8990537

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, 3-methyl-, methyl	12320	002258-58-4	14.00
3	4'-Pentylbicyclohexyl-4-carboxamide	126804	068077-63-4	12.00
4	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00



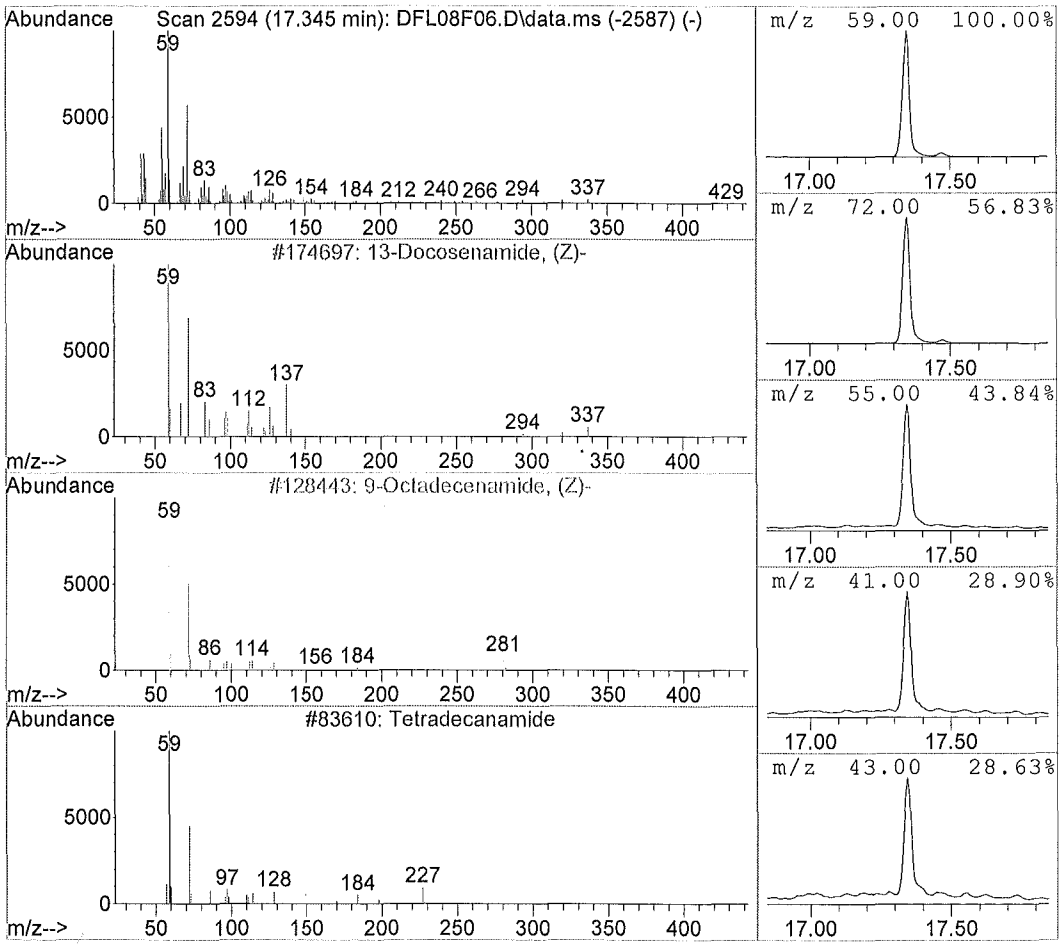
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	22.05 ug/ml	9304710	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	90.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	7-Nonenamide	28131	090949-53-4	59.00



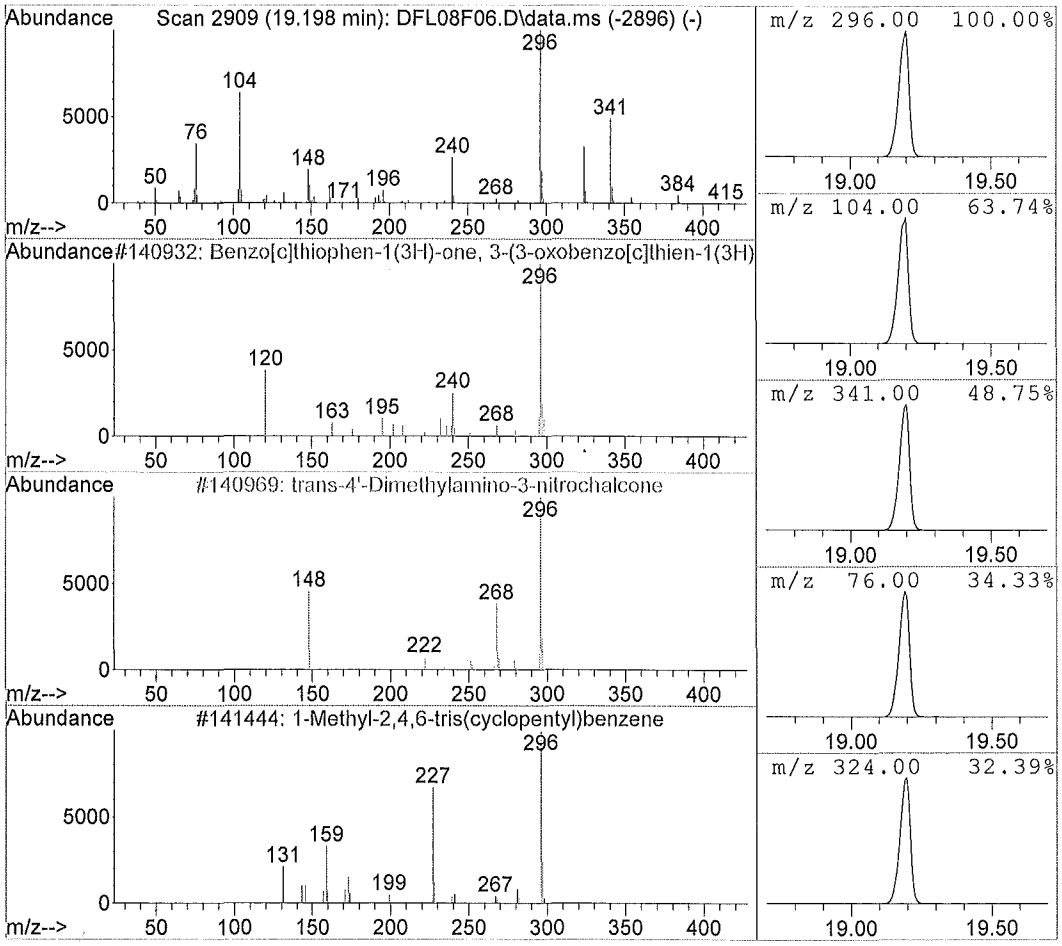
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.20	40.83 ug/ml	17230487	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	27.00
3	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
4	3-Methoxy-D-homoestra-1,3,5(10),8-t	141373	002000-72-8	17.00
5	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00



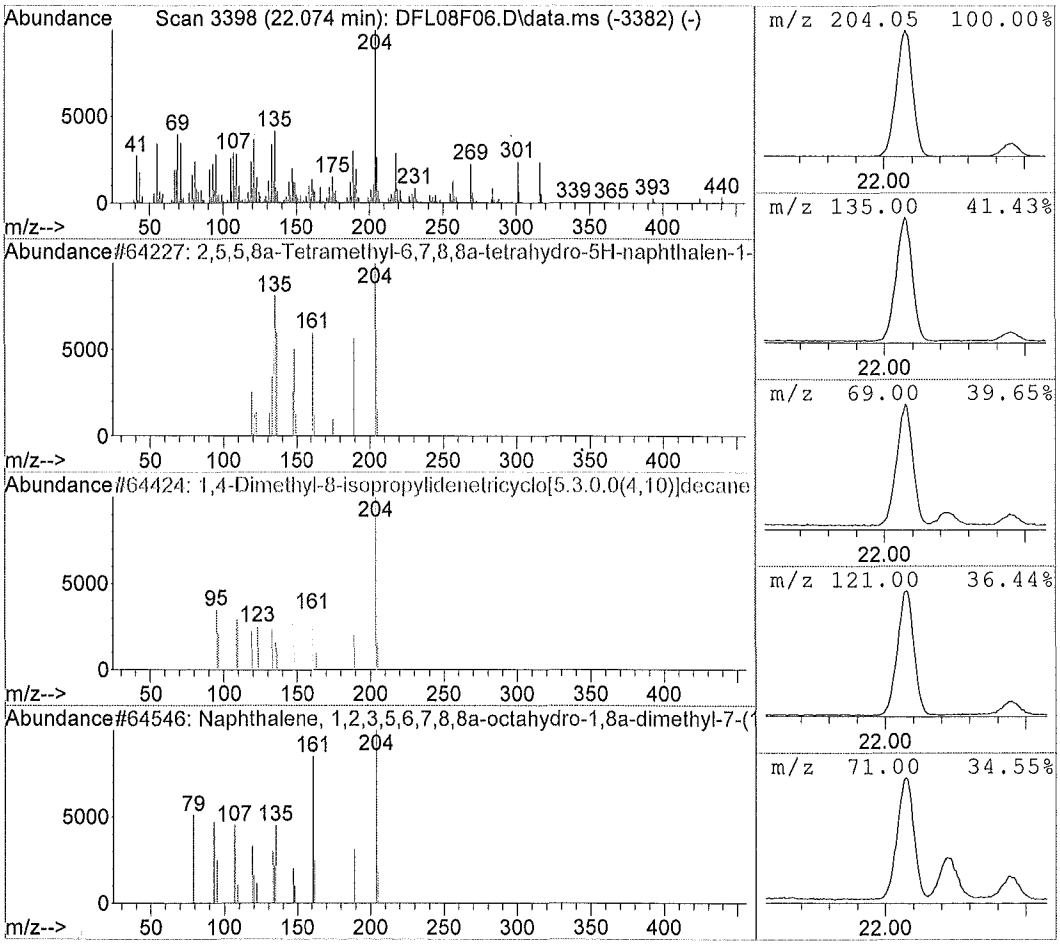
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	20.63 ug/ml	8707007	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	38.00
4	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	38.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	35.00



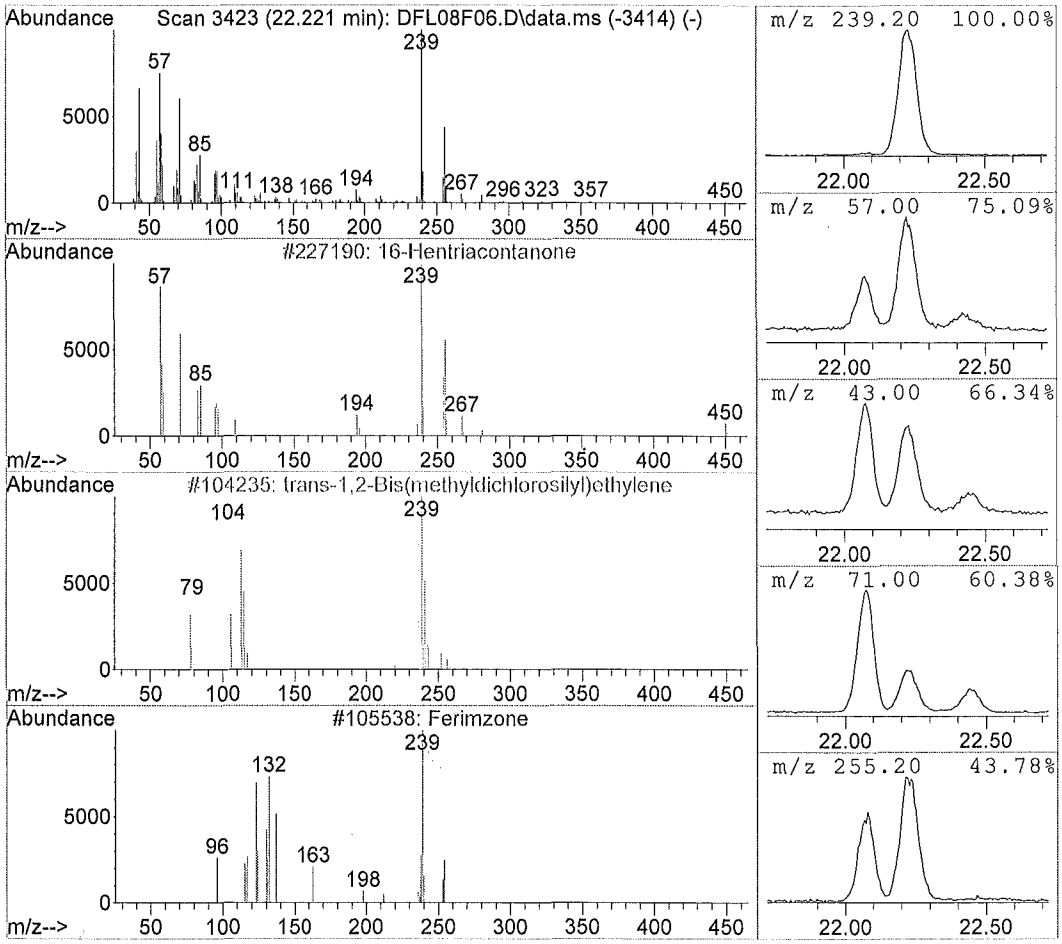
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	2.32 ug/ml	977186	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	16-Hentriacontanone	227190	000502-73-8	90.00
2	trans-1,2-Bis(methyldichlorosilyl)e	104235	065899-10-7	86.00
3	Ferimzone	105538	089269-64-7	30.00
4	Hexadecane	83024	000544-76-3	25.00
5	Palmitic acid vinyl ester	129350	000693-38-9	18.00



Library Search Compound Report

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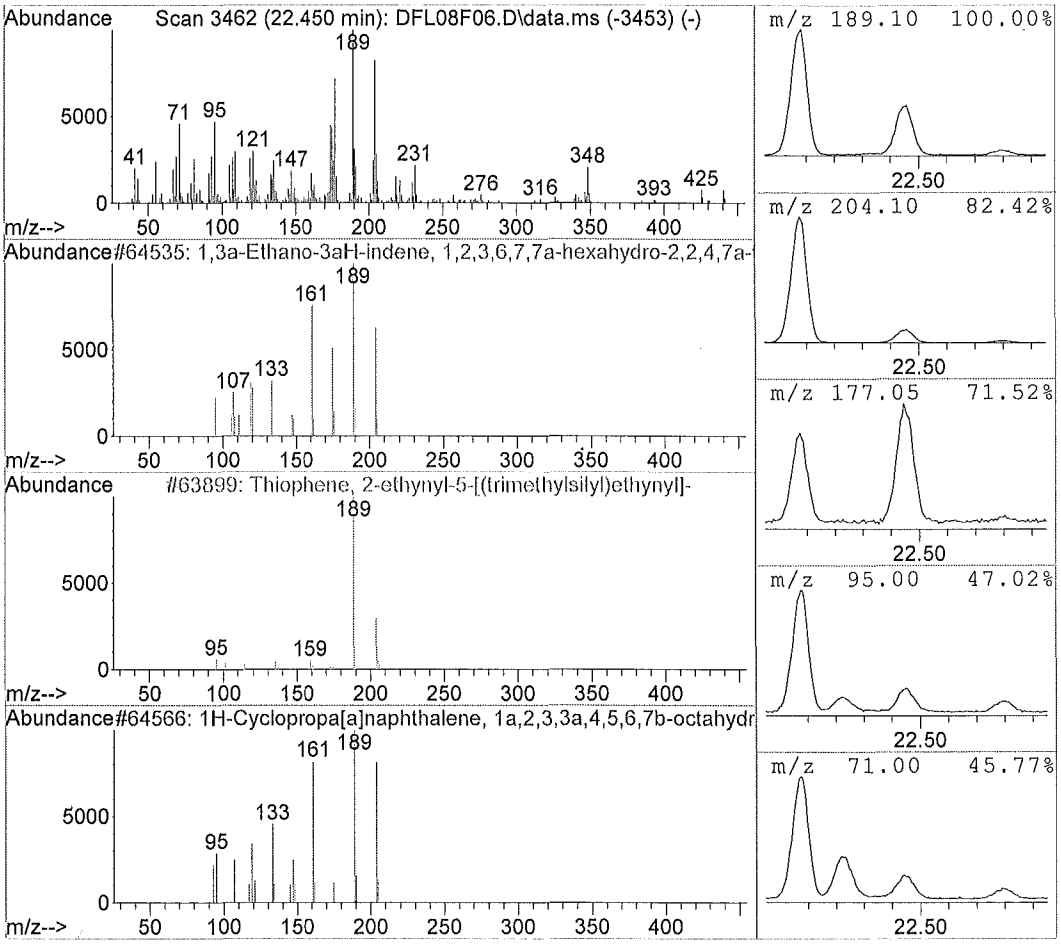
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.45	3.12 ug/ml	1318070	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	53.00
2	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	46.00
3	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	45.00
4	.delta.-Selinene	64314	028624-23-9	43.00
5	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	38.00



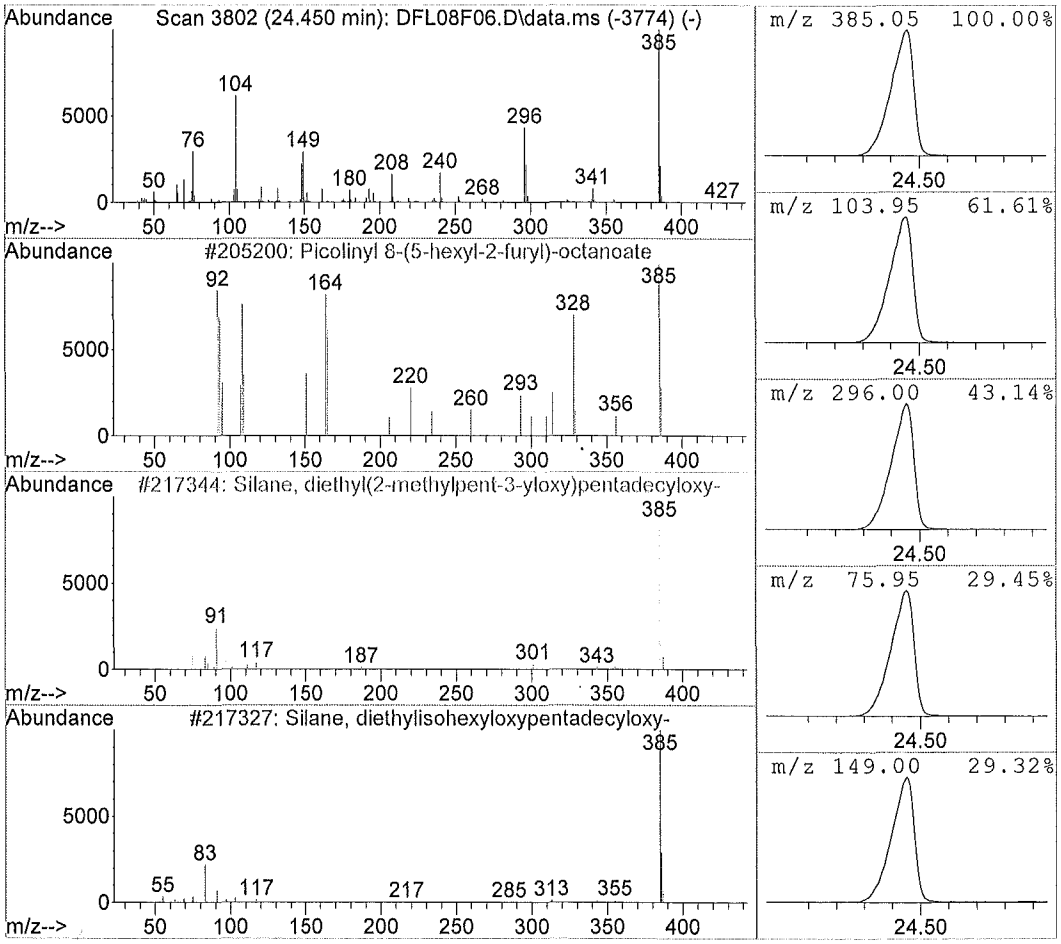
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.45	66.39 ug/ml	28019732	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	25.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	10.00
3	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	10.00
4	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	10.00
5	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	10.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM21F07

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	950	U
108-95-2	Phenol	950	U
111-44-4	Bis(2-chloroethyl)ether	950	U
95-57-8	2-Chlorophenol	950	U
95-48-7	2-Methylphenol	950	U
108-60-1	2,2'-Oxybis(1-chloropropane)	950	U
98-86-2	Acetophenone	950	U
106-44-5	4-Methylphenol	950	U
621-64-7	N-Nitroso-di-n-propylamine	950	U
67-72-1	Hexachloroethane	950	U
98-95-3	Nitrobenzene	950	U
78-59-1	Isophorone	950	U
88-75-5	2-Nitrophenol	950	U
105-67-9	2,4-Dimethylphenol	950	U
111-91-1	Bis(2-chloroethoxy)methane	950	U
120-83-2	2,4-Dichlorophenol	950	U
91-20-3	Naphthalene	950	U
106-47-8	4-Chloroaniline	950	U
87-68-3	Hexachlorobutadiene	950	U
105-60-2	Caprolactam	950	U
59-50-7	4-Chloro-3-methylphenol	950	U
91-57-6	2-Methylnaphthalene	950	U
77-47-4	Hexachlorocyclopentadiene	950	U
88-06-2	2,4,6-Trichlorophenol	950	U
95-95-4	2,4,5-Trichlorophenol	950	U
92-52-4	1,1'-Biphenyl	950	U
91-58-7	2-Chloronaphthalene	950	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	950	U
606-20-2	2,6-Dinitrotoluene	950	U
208-96-8	Acenaphthylene	950	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	950	U

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

EPA SAMPLE NO.

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM21F07

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	950	U
121-14-2	2,4-Dinitrotoluene	950	U
84-66-2	Diethylphthalate	950	U
86-73-7	Fluorene	950	U
7005-72-3	4-Chlorophenyl-phenylether	950	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	950	U
95-94-3	1,2,4,5-Tetrachlorobenzene	950	U
101-55-3	4-Bromophenyl-phenylether	950	U
118-74-1	Hexachlorobenzene	950	U
1912-24-9	Atrazine	950	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	950	U
120-12-7	Anthracene	950	U
86-74-8	Carbazole	950	U
84-74-2	Di-n-butylphthalate	950	U
206-44-0	Fluoranthene	950	U
129-00-0	Pyrene	950	U
85-68-7	Butylbenzylphthalate	950	U
91-94-1	3,3'-Dichlorobenzidine	950	U
56-55-3	Benzo(a)anthracene	950	U
218-01-9	Chrysene	950	U
117-81-7	Bis(2-ethylhexyl)phthalate	950	U
117-84-0	Di-n-octylphthalate	950	U
205-99-2	Benzo(b)fluoranthene	950	U
207-08-9	Benzo(k)fluoranthene	950	U
50-32-8	Benzo(a)pyrene	950	U
193-39-5	Indeno(1,2,3-cd)pyrene	950	U
53-70-3	Dibenzo(a,h)anthracene	950	U
191-24-2	Benzo(g,h,i)perylene	950	U
58-90-2	2,3,4,6-Tetrachlorophenol	950	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFM21F07

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.50	420	J
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.70	6000	JB
03		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	400	JB
04	301-02-0	9-Octadecenamide, (Z)-	15.31	1600	JNB
05		Unknown trans-4'-Dimethylamino-3-nitrochalcone	19.18	1900	J
06		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.40	3500	J
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

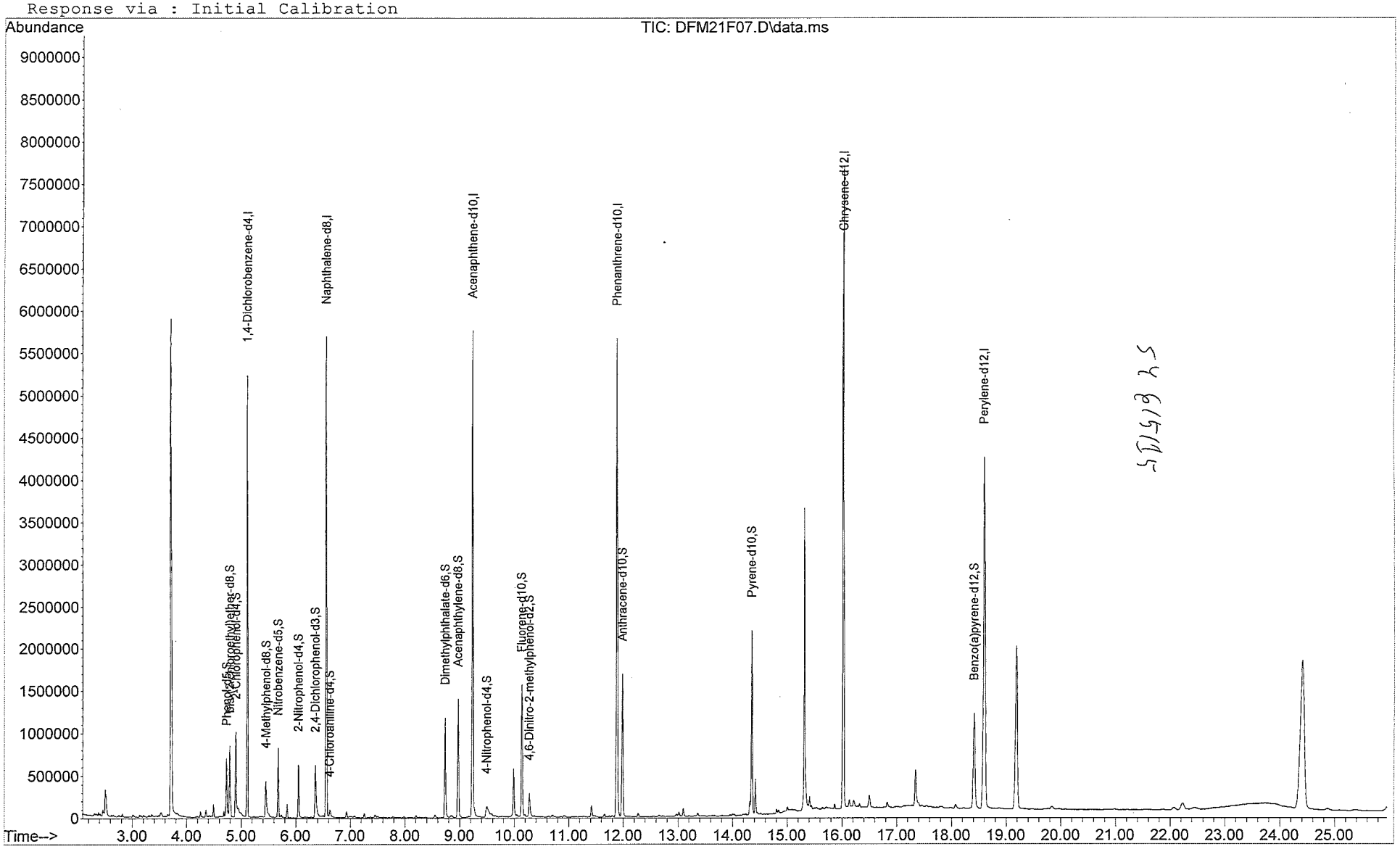
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 12:28:53 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
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Quant Time: May 28 12:28:53 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	906318	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3077466	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1944145	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3431879	20.00 ug/ml
73) Chrysene-d12	16.02	240	3942798	20.00 ug/ml
81) Perylene-d12	18.59	264	3675645	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	302346	5.360ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	205648	4.983ug/mL
7) 2-Chlorophenol-d4	4.89	132	289237	5.144ug/ml
13) 4-Methylphenol-d8	5.45	113	170808	4.040ug/mL
17) Nitrobenzene-d5	5.67	128	133159	5.283ug/ml
21) 2-Nitrophenol-d4	6.05	143	152087	5.088ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	253386	5.246ug/mL
28) 4-Chloroaniline-d4	6.63	131	44233	1.219ug/mL
42) Dimethylphthalate-d6	8.73	166	767207	6.400ug/mL
45) Acenaphthylene-d8	8.97	160	940272	5.957ug/mL
50) 4-Nitrophenol-d4	9.49	143	99364	4.991ug/mL
57) Fluorene-d10	10.14	176	669520	6.321ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	83651	3.860ug/mL
69) Anthracene-d10	11.98	188	1096115	6.234ug/mL
75) Pyrene-d10	14.35	212	1098466	6.616ug/mL
86) Benzo(a)pyrene-d12	18.41	264	996009	5.921ug/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)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 12:28:53 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

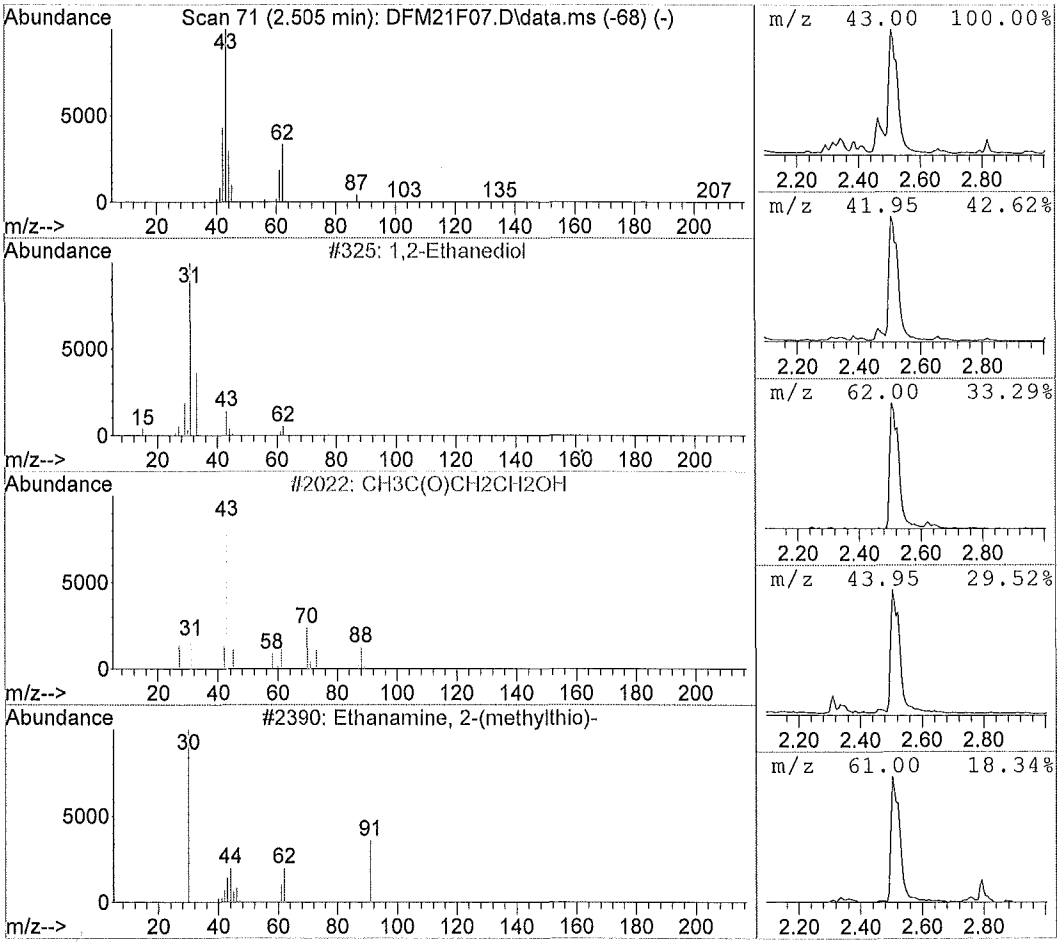
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.50	2.25 ug/ml	611222	1,4-Dichlorobenzene-d4	5428555

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	42.00
2	CH3C(O)CH2CH2OH	2022	000590-90-9	9.00
3	Ethanamine, 2-(methylthio)-	2390	018542-42-2	9.00
4	Formic acid, propyl ester	2055	000110-74-7	5.00
5	Peroxide, dimethyl	328	000690-02-8	5.00



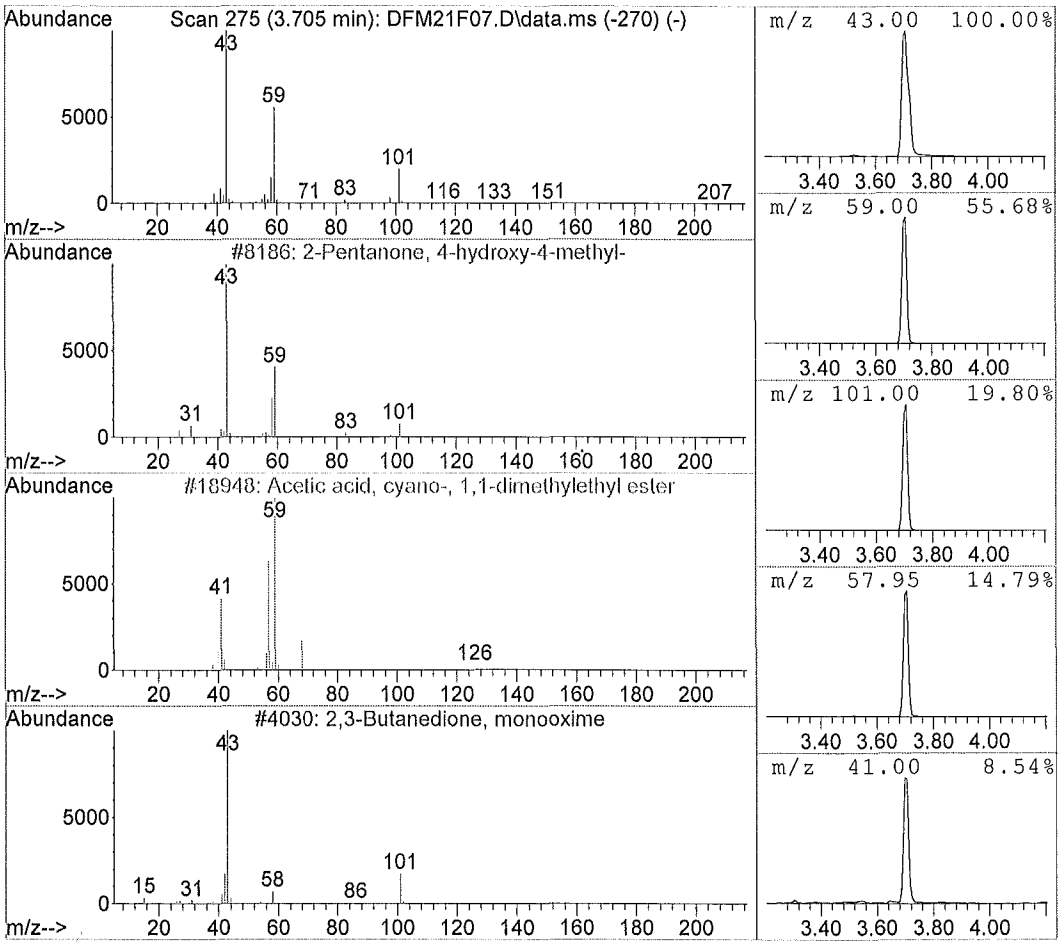
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	32.17 ug/ml	8731615	1,4-Dichlorobenzene-d4	5428555

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	Formamide, N,N-diethyl-	4092	000617-84-5	9.00



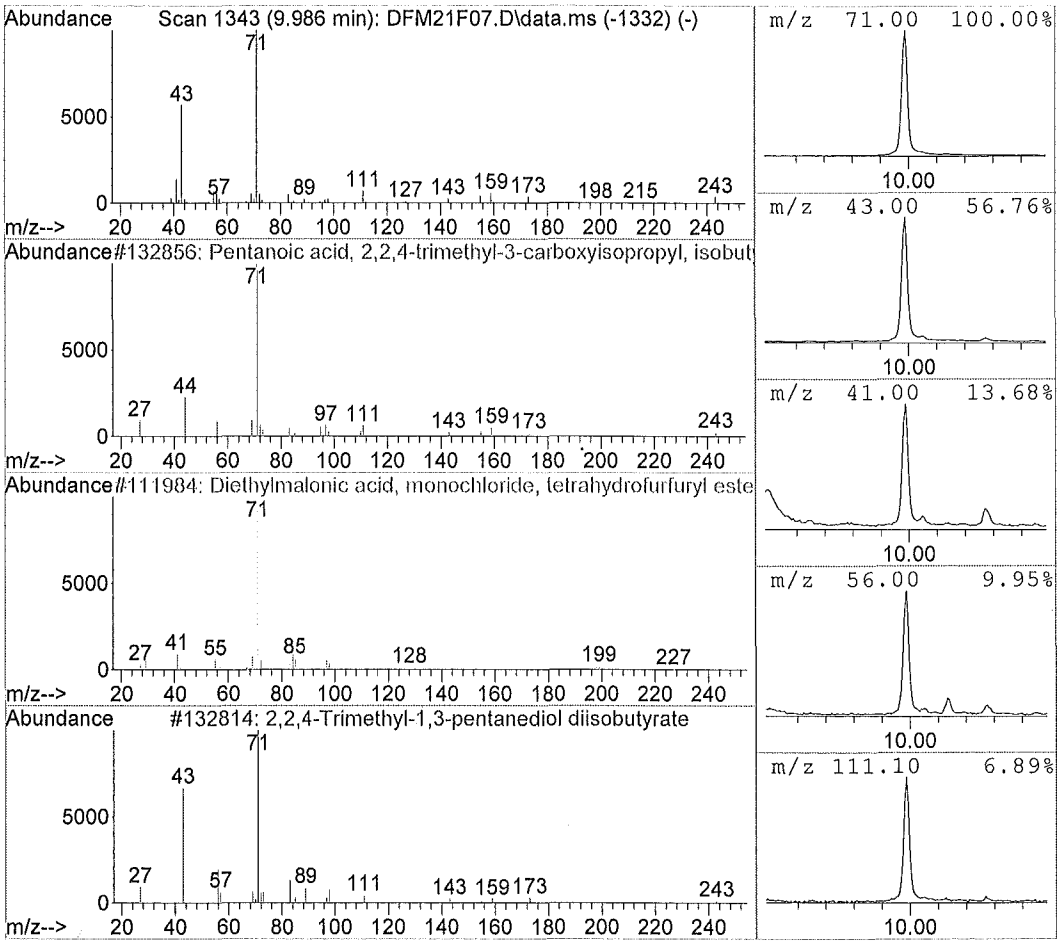
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.14 ug/ml	850954	Acenaphthene-d10	7951960

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	Diethylmalonic acid, monochloride,	111984	1000370-65-0	53.00
3	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	50.00
4	Butanoic acid, anhydride	30002	000106-31-0	42.00
5	Propanoic acid, 2-methyl-, 1,2,3-pr	146092	014295-64-8	42.00



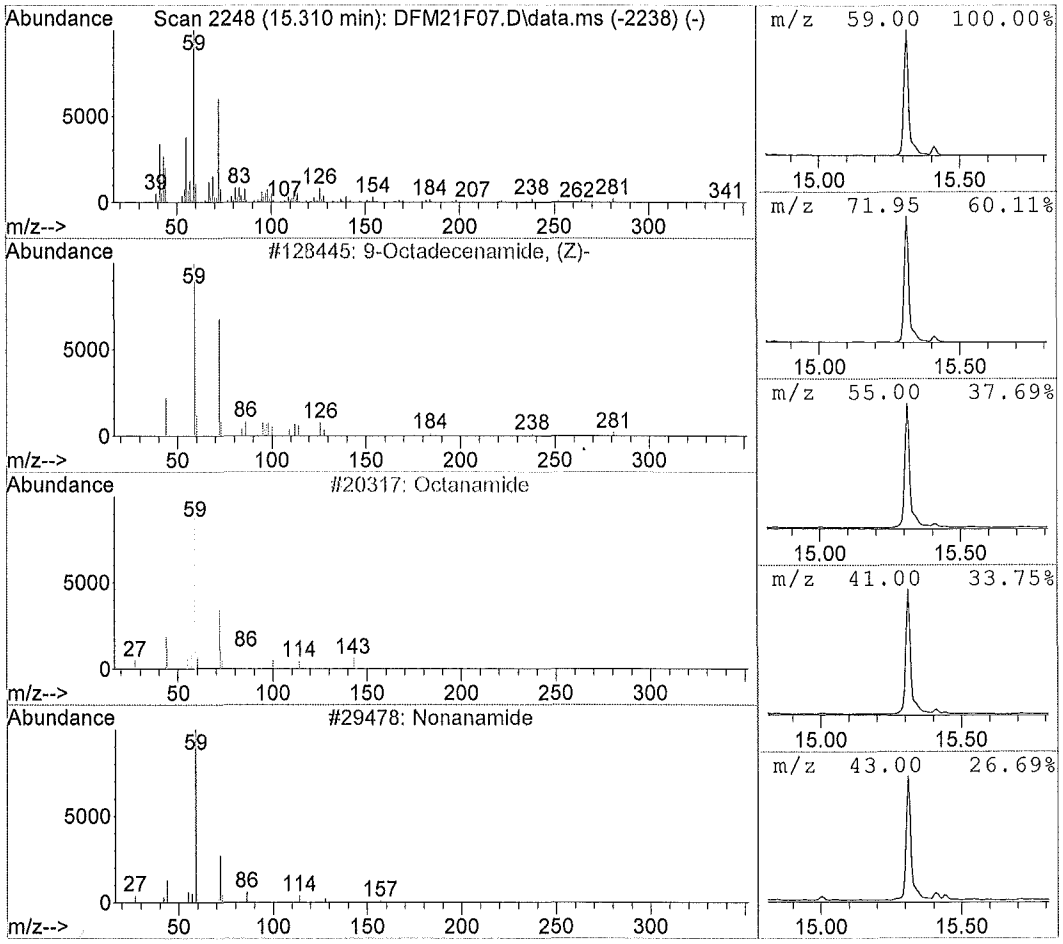
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	8.79 ug/ml	4519396	Chrysene-d12	10280862

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	56.00
3	Nonanamide	29478	001120-07-6	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Dodecanamide	60440	001120-16-7	45.00



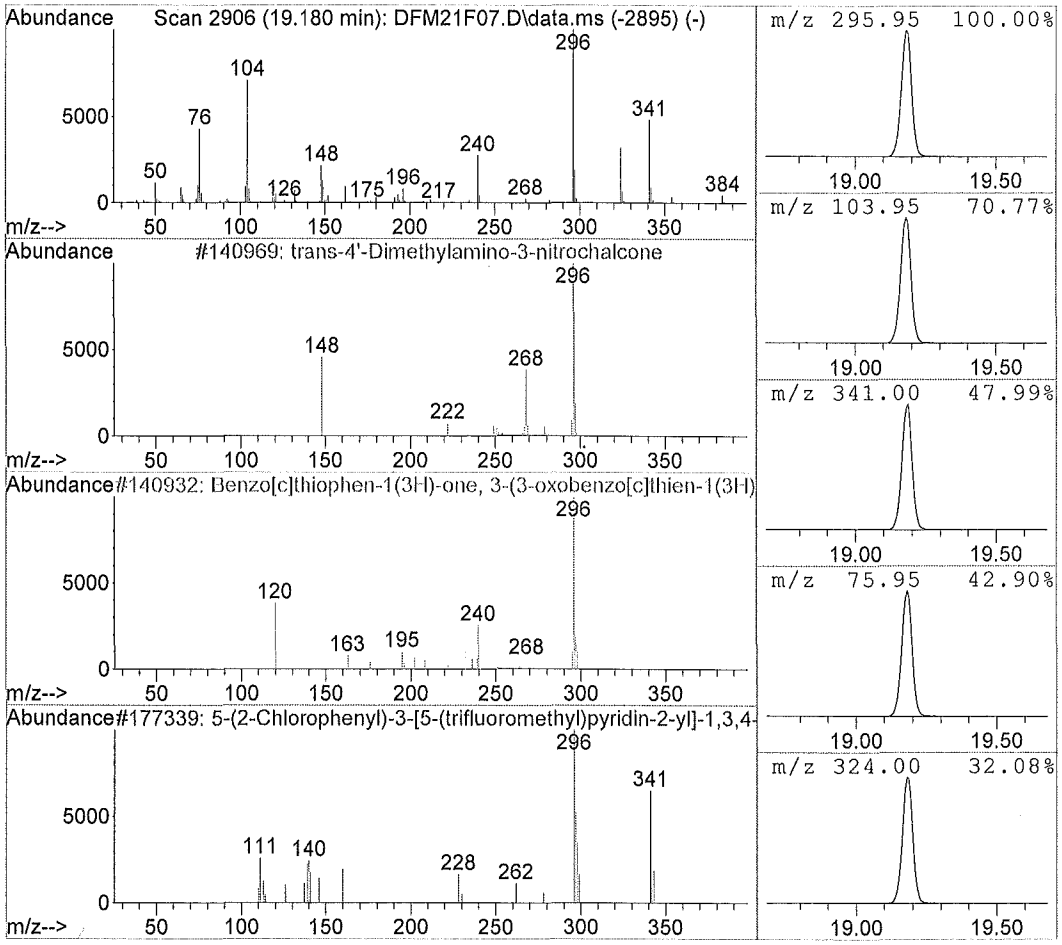
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	10.14 ug/ml	4916977	Perylene-d12	9696980

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	30.00
2	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
3	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00
4	Bithiophthalide	140931	032819-84-4	16.00
5	Cyclohept[b]indol-6(5H)-one, 2-cycl	141251	339284-86-5	14.00



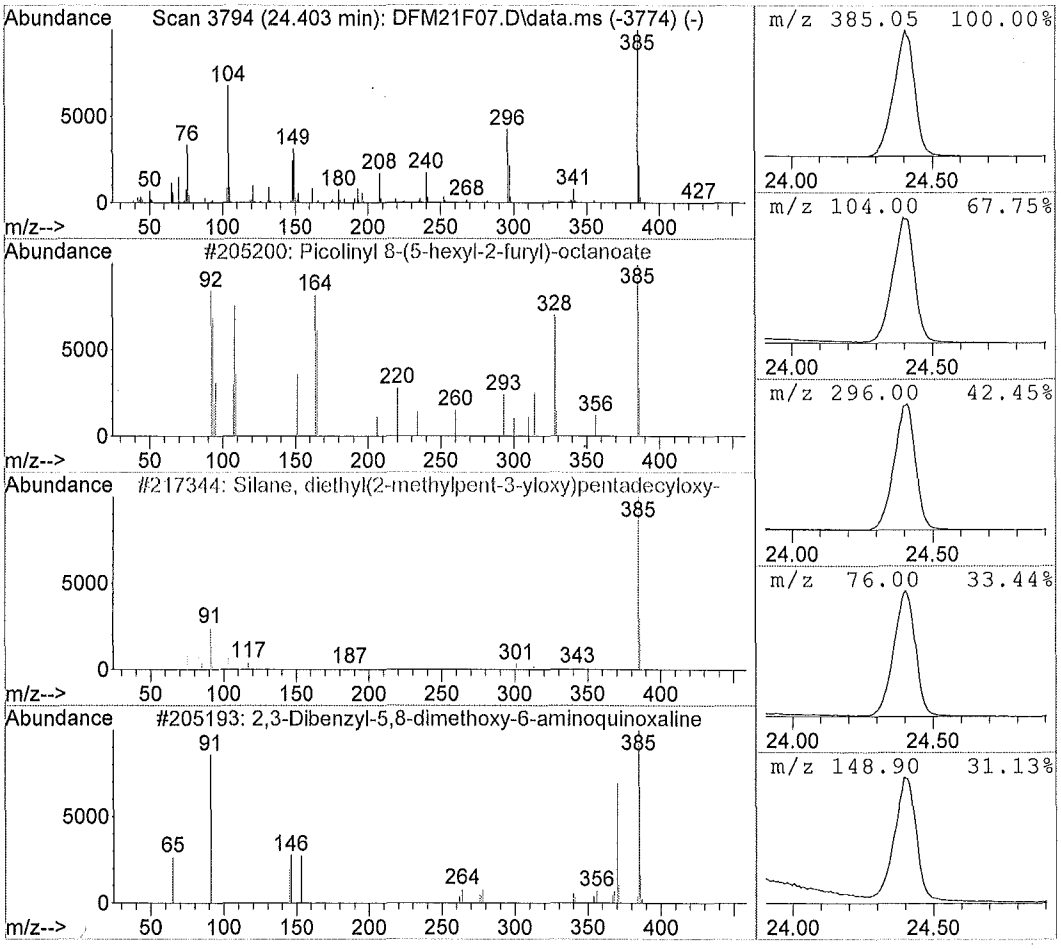
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM21F07.D Vial: 19
Acq On : 05/28/2015 12:02 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.40	18.95 ug/ml	9187943	Perylene-d12	9696980

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	25.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	10.00
3	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	10.00
4	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	10.00
5	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	10.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 7.7 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	2.55	280	J
02		Unknown 4-Chloro-2-butanone	3.53	92.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	5000	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.49	120	J
05		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	75.	JB
06		Unknown 9-Octadecenamide, (Z)-	14.31	85.	JB
07	629-54-9	Hexadecanamide	14.42	180	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
09		Unknown Cyclohexanecarboxamide	16.50	100	J
10	301-02-0	9-Octadecenamide, (Z)-	17.34	340	JN
11		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	170	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		

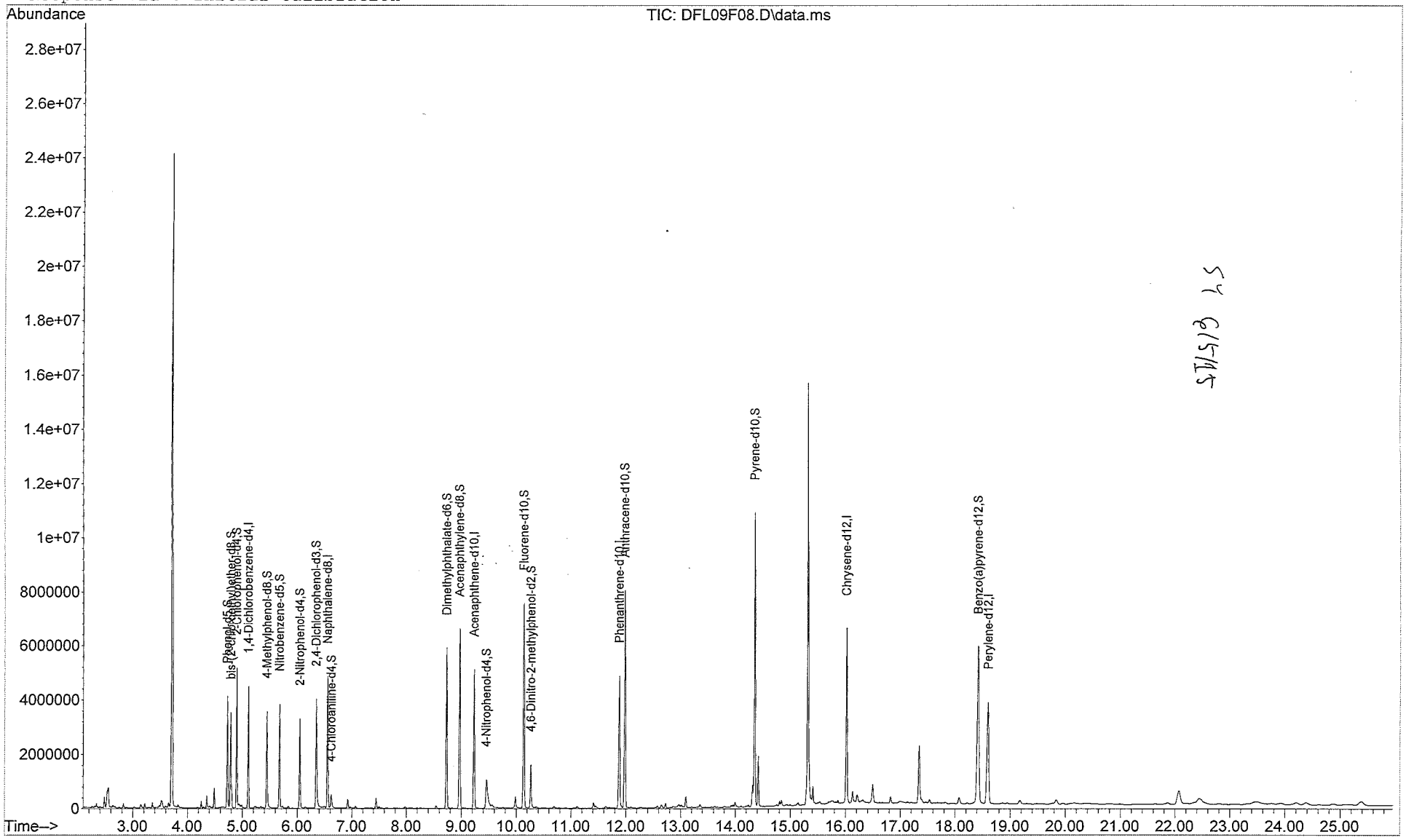
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:14:54 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5/1/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:54 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	807287	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2734430	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1704804	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2962688	20.00 ug/ml
73) Chrysene-d12	16.02	240	3502245	20.00 ug/ml
81) Perylene-d12	18.60	264	3391512	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1516658	30.186ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	872993	23.746ug/mL
7) 2-Chlorophenol-d4	4.89	132	1442822	28.810ug/ml
13) 4-Methylphenol-d8	5.45	113	929570	24.682ug/mL
17) Nitrobenzene-d5	5.67	128	617166	27.556ug/ml
21) 2-Nitrophenol-d4	6.05	143	786979	29.631ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1285550	29.953ug/mL
28) 4-Chloroaniline-d4	6.62	131	256361	7.950ug/mL
42) Dimethylphthalate-d6	8.73	166	3679224	35.003ug/mL
45) Acenaphthylene-d8	8.97	160	4372961	31.596ug/mL
50) 4-Nitrophenol-d4	9.46	143	559216	32.033ug/mL
57) Fluorene-d10	10.14	176	3156905	33.989ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	428786	22.918ug/mL
69) Anthracene-d10	11.98	188	5227355	34.439ug/mL
75) Pyrene-d10	14.35	212	5306497	35.979ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5257707	33.875ug/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)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:54 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

00274

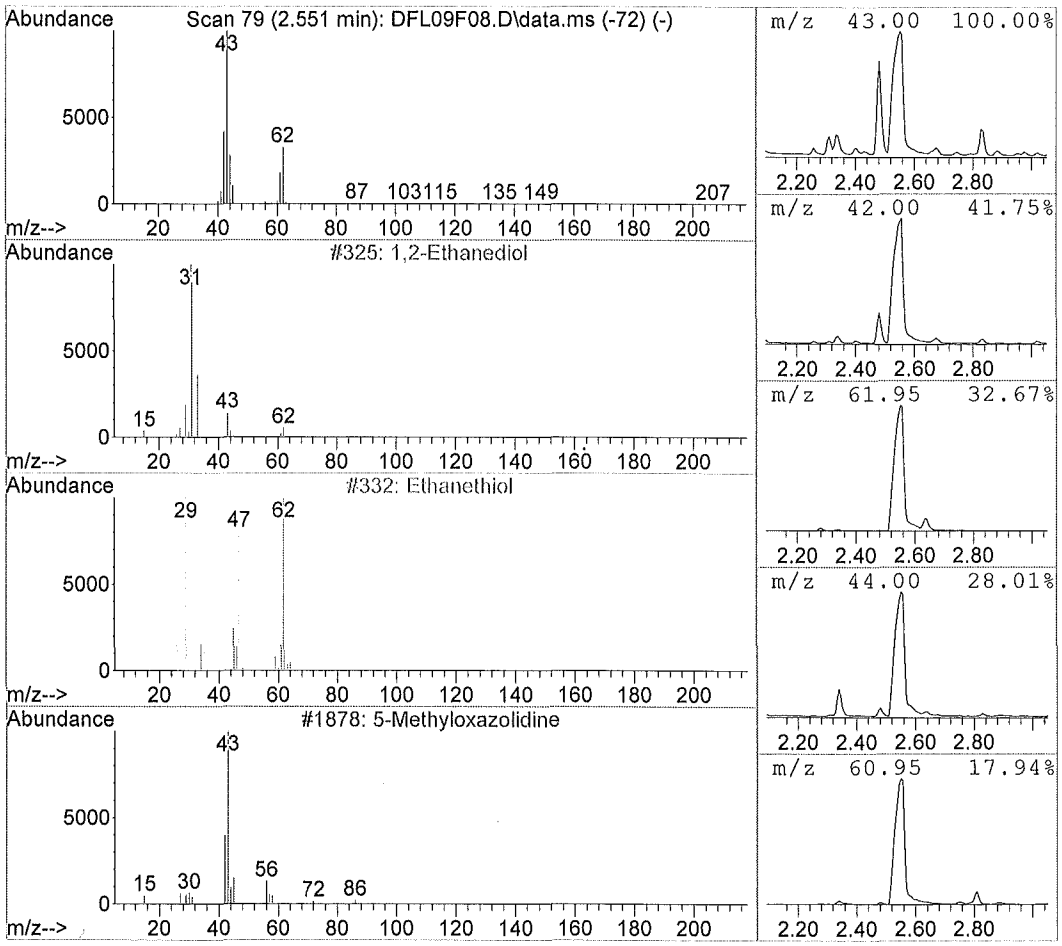
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.55	7.52 ug/ml	1781015	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	42.00
2	Ethanethiol	332	000075-08-1	5.00
3	5-Methyloxazolidine	1878	058328-22-6	4.00
4	Peroxide, dimethyl	328	000690-02-8	4.00
5	Diazirine	62	1000305-84-1	3.00



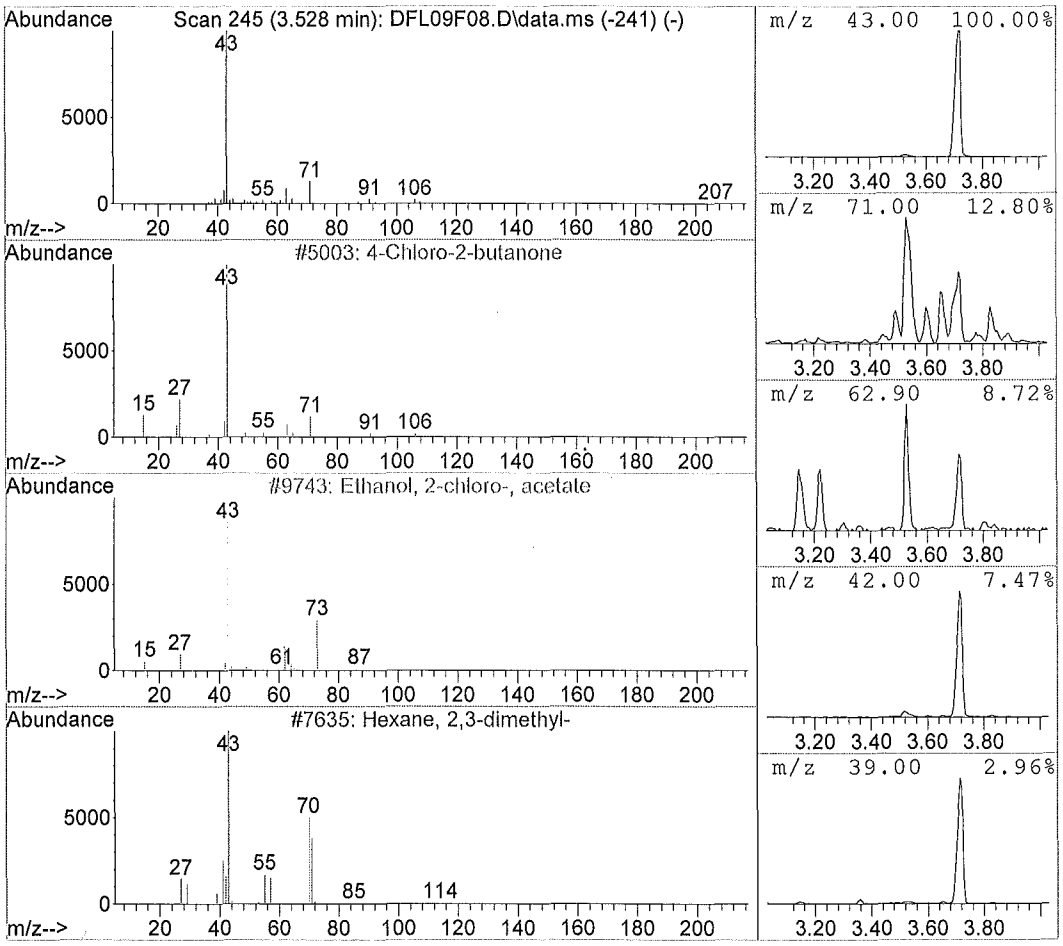
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.46 ug/ml	581549	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	50.00
2	Ethanol, 2-chloro-, acetate	9743	000542-58-5	33.00
3	Hexane, 2,3-dimethyl-	7635	000584-94-1	9.00
4	2-Butanone, 3-methyl-	1767	000563-80-4	9.00
5	2-Pentanone	1706	000107-87-9	9.00



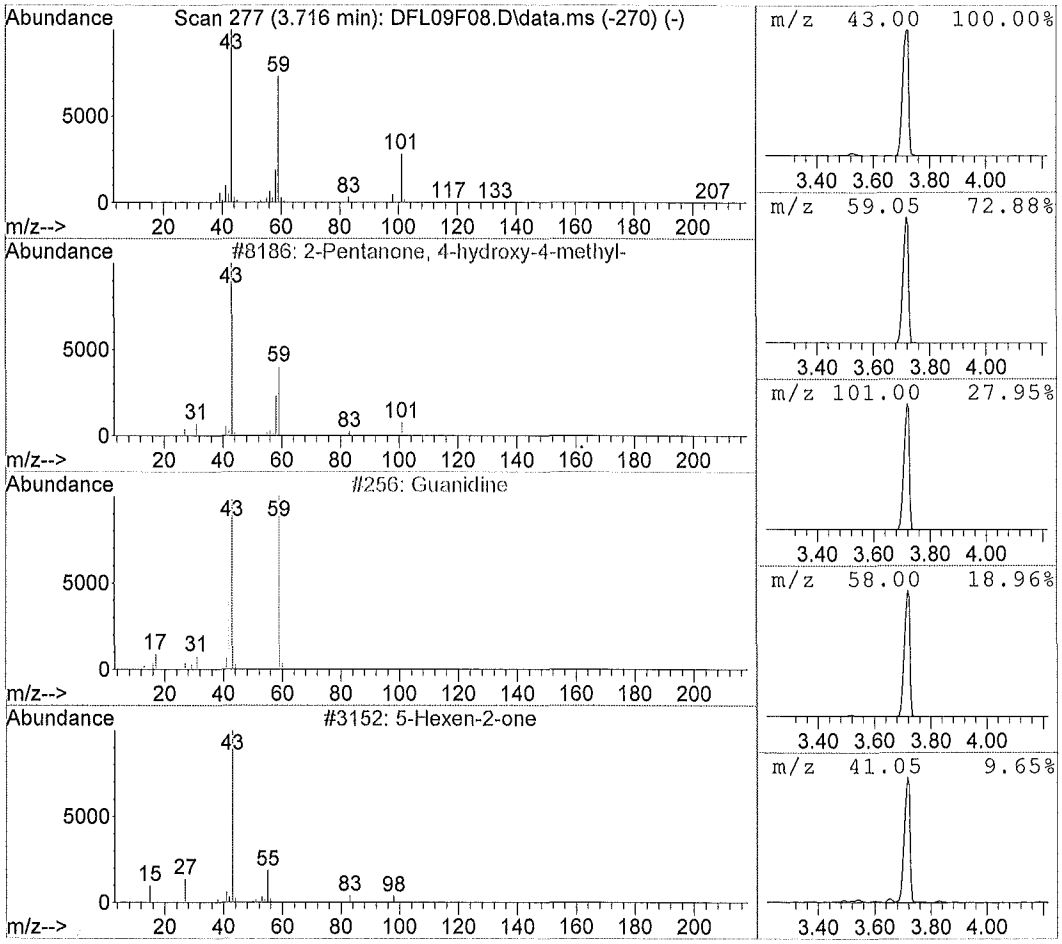
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	133.85 ug/ml	31700832	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	43.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



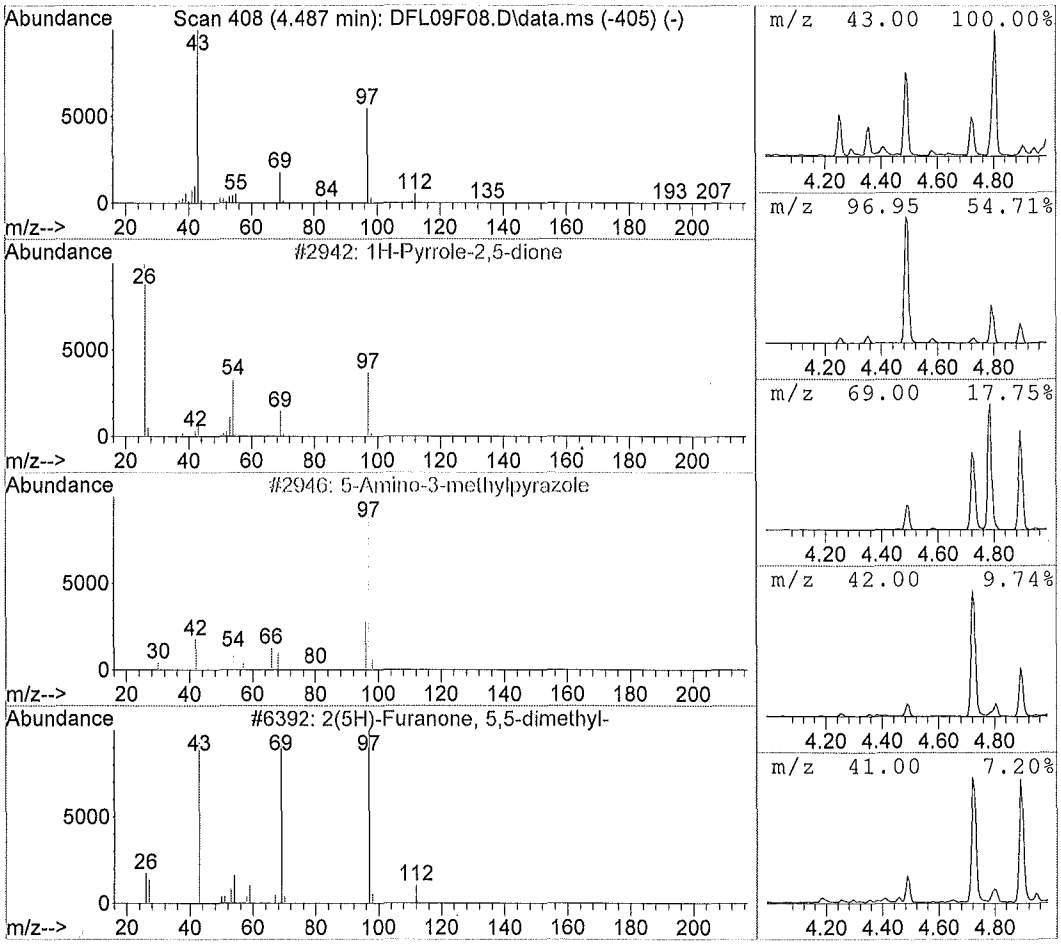
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	3.14 ug/ml	743384	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
3	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00



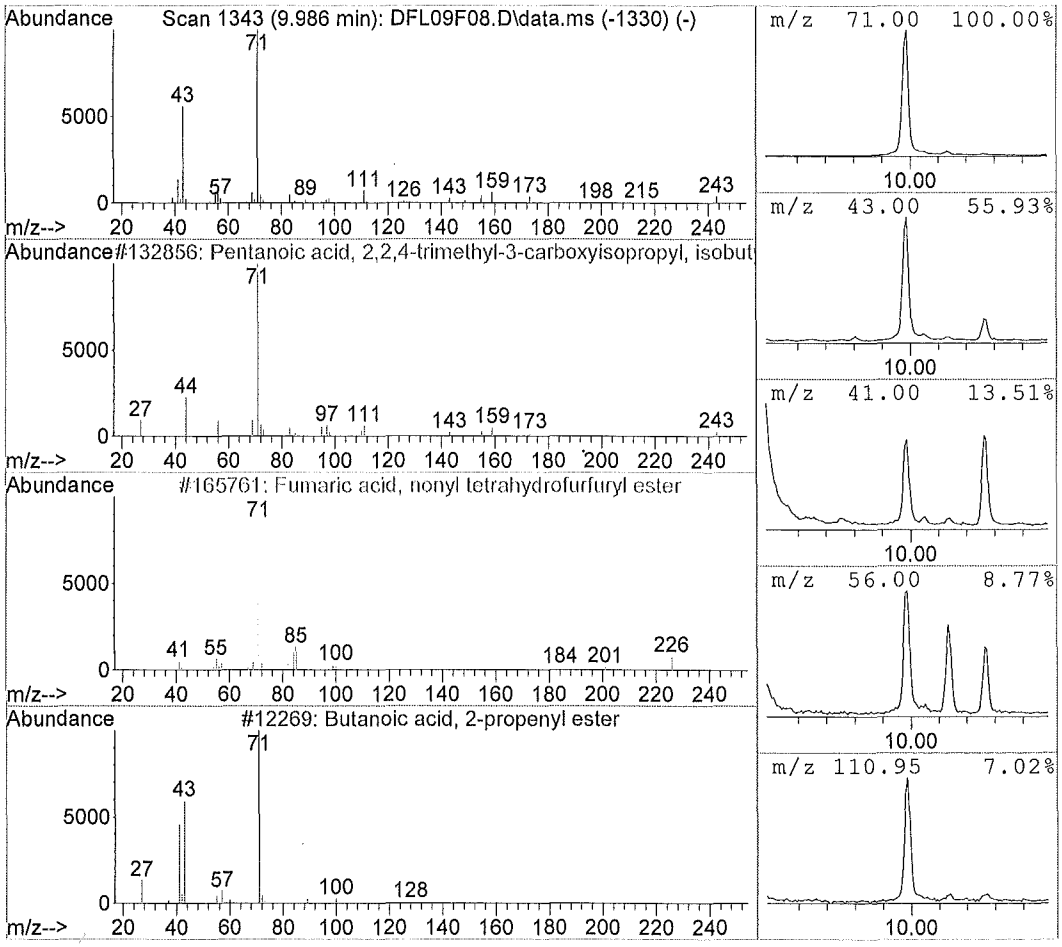
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.01 ug/ml	686727	Acenaphthene-d10	6843885

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	64.00
2	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	53.00
3	Butanoic acid, 2-propenyl ester	12269	002051-78-7	53.00
4	Diethylmalonic acid, monochloride,	111984	1000370-65-0	53.00
5	Decane, 3,3,8-trimethyl-	48906	062338-16-3	45.00



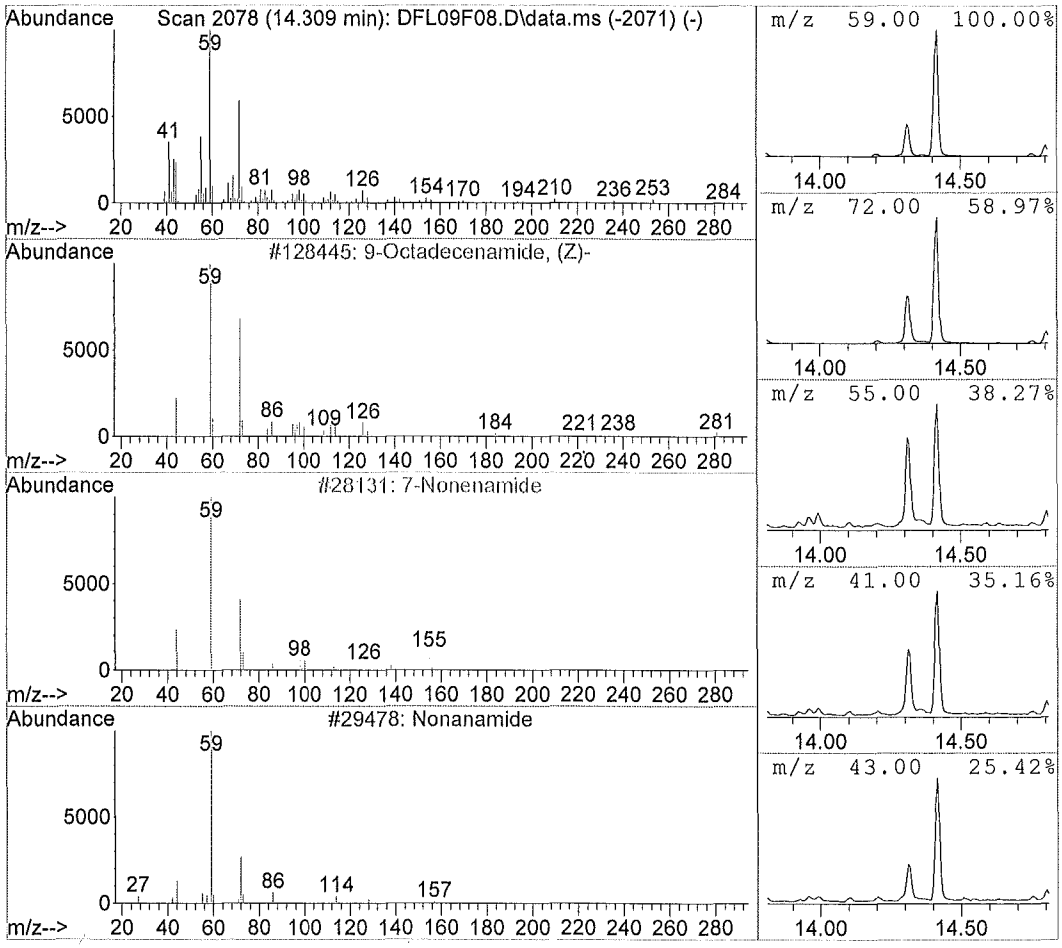
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.26 ug/ml	1034443	Chrysene-d12	9147620

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Nonanamide	29478	001120-07-6	59.00
4	Hexanamide	7793	000628-02-4	59.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	56.00



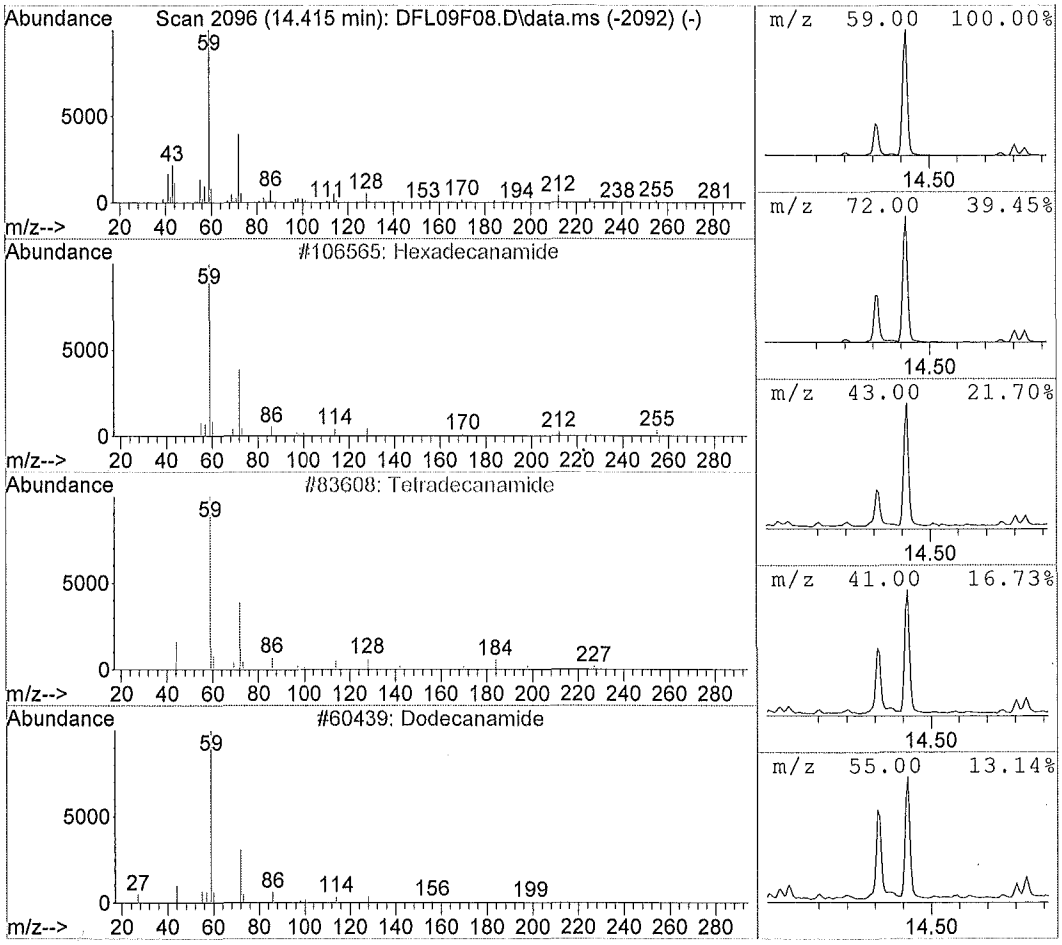
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.68 ug/ml	2141003	Chrysene-d12	9147620

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	83.00
5	Nonanamide	29478	001120-07-6	59.00



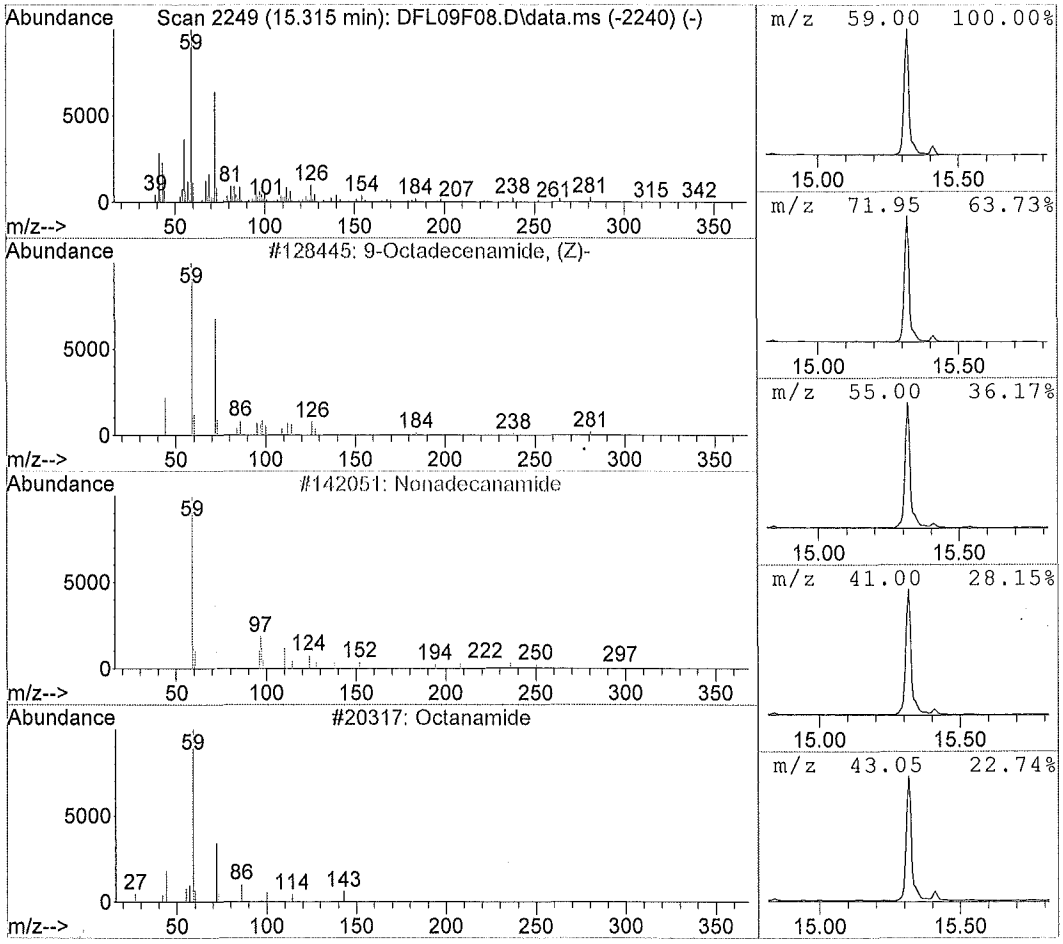
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	42.62 ug/ml	19493915	Chrysene-d12	9147620

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	Octanamide	20317	000629-01-6	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00



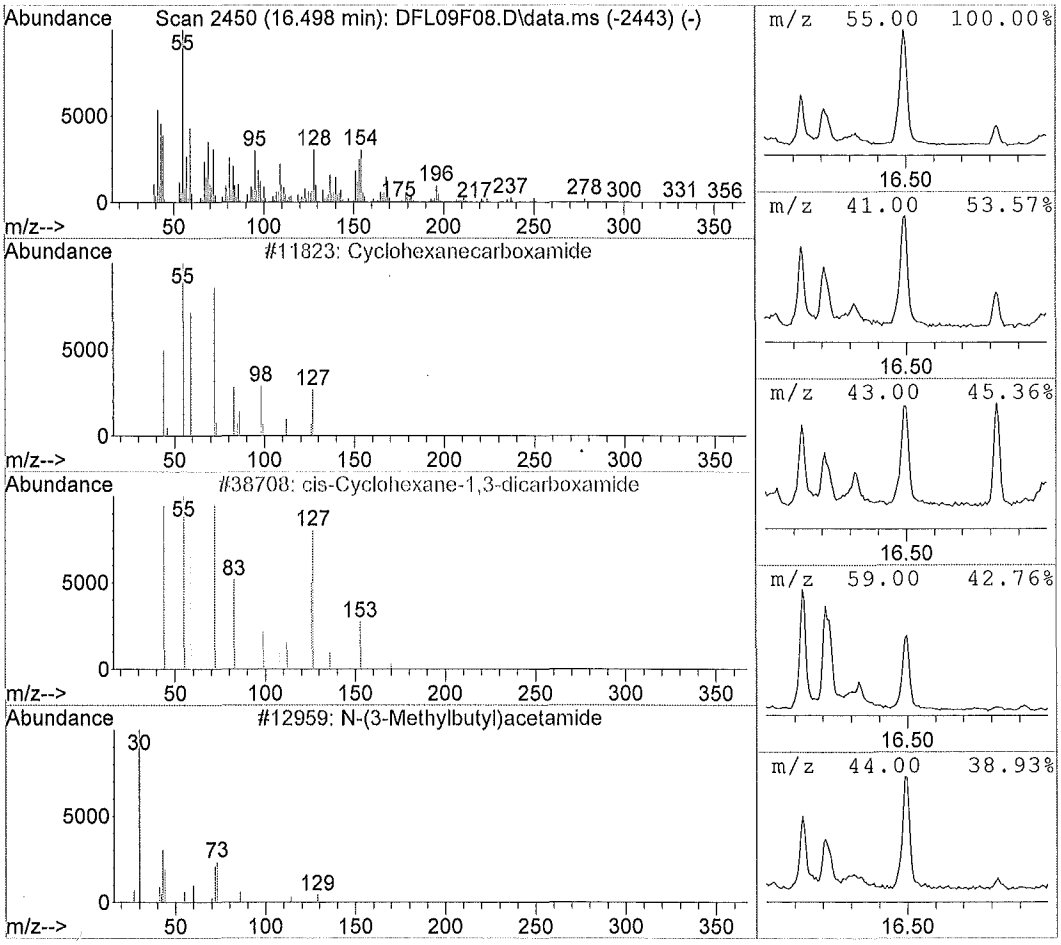
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	2.67 ug/ml	1222723	Chrysene-d12	9147620

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	10.00
3	N-(3-Methylbutyl)acetamide	12959	013434-12-3	10.00
4	4-(Prop-2-enoyloxy)tetradecane	117474	1000245-67-2	10.00
5	Cyclohexylamine, N-(2-chloropropyli	52648	037898-42-3	9.00



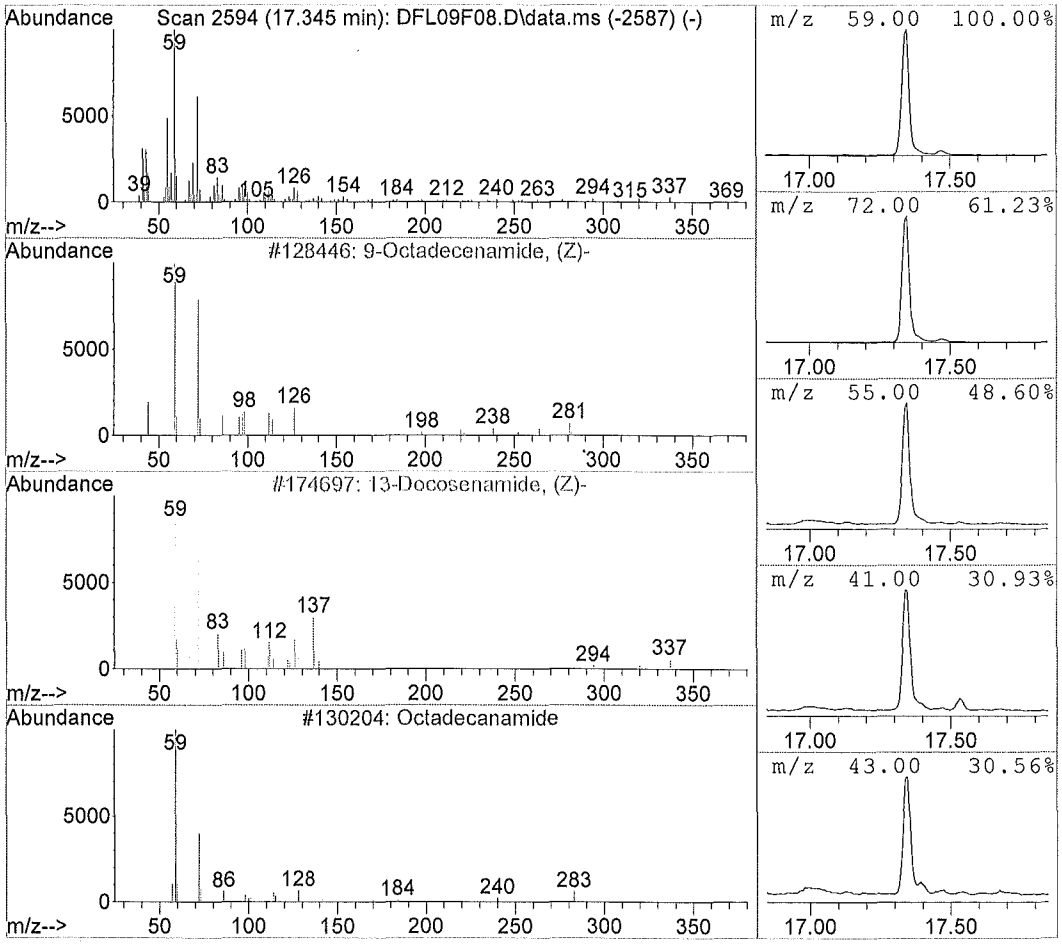
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	9.05 ug/ml	3936536	Perylene-d12	8697155

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	95.00
2	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
3	Octadecanamide	130204	000124-26-5	72.00
4	Tetradecanamide	83610	000638-58-4	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



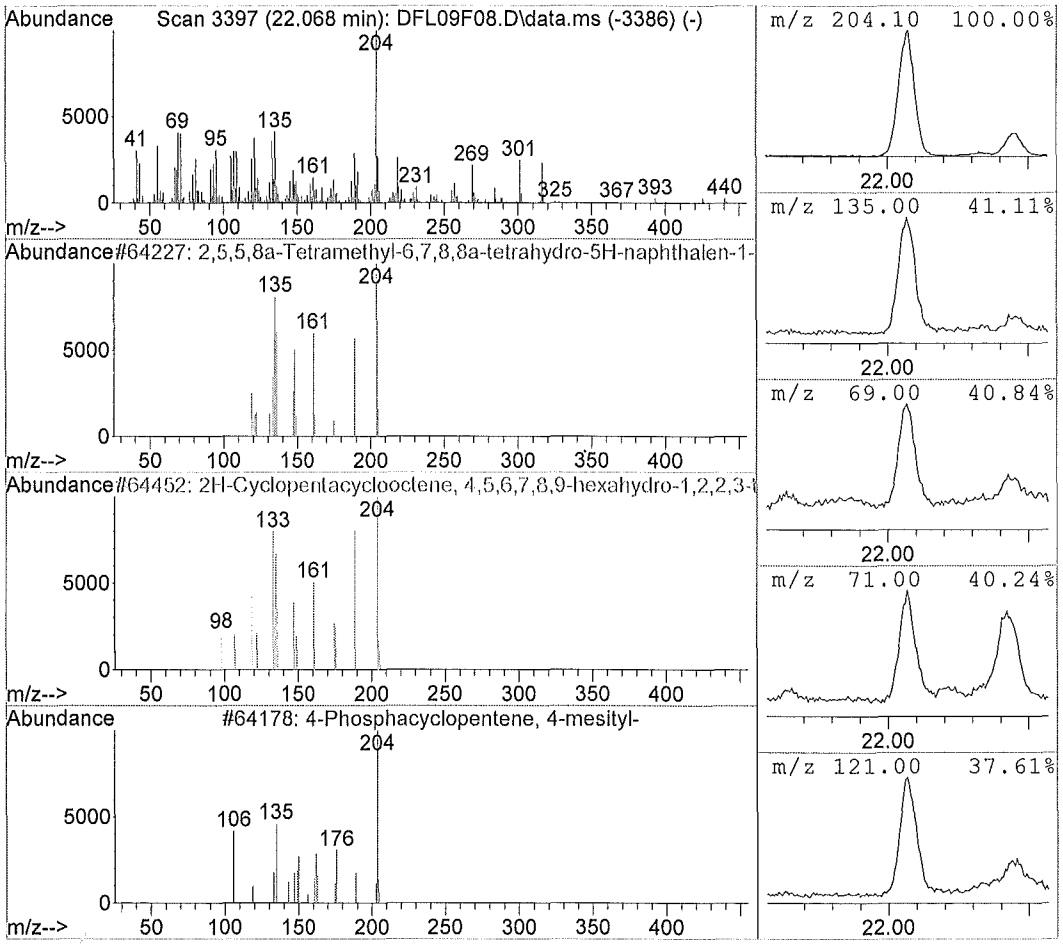
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	4.42 ug/ml	1922104	Perylene-d12	8697155

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	58.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	49.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM22F09

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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	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.

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM22F09

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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	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.

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM22F09

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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-	3.70	4700	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.31	1600	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

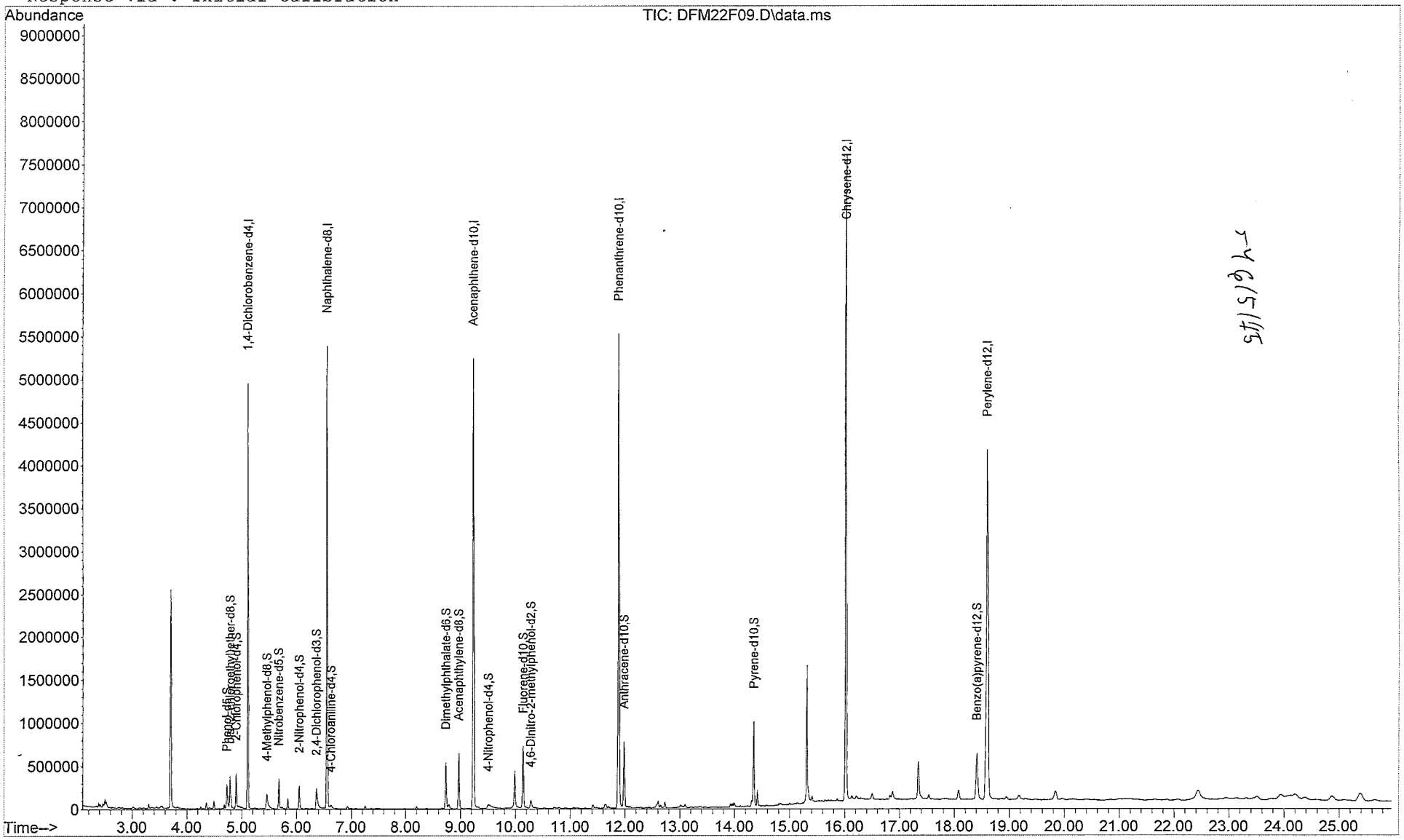
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM22F09.D Vial: 20
Acq On : 05/28/2015 12:36 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 13:02:36 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM22F09.D Vial: 20
Acq On : 05/28/2015 12:36 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 13:02:36 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	856951	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2945725	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1812047	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3217393	20.00 ug/ml
73) Chrysene-d12	16.02	240	3849133	20.00 ug/ml
81) Perylene-d12	18.60	264	3659417	20.00 ug/ml

System Monitoring Compounds				
2) Phenol-d5	4.73	99	135678	2.544ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	91237	2.338ug/mL
7) 2-Chlorophenol-d4	4.90	132	136634	2.570ug/ml
13) 4-Methylphenol-d8	5.46	113	82616	2.067ug/mL
17) Nitrobenzene-d5	5.67	128	61106	2.533ug/ml
21) 2-Nitrophenol-d4	6.05	143	65681	2.296ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	115131	2.490ug/mL
28) 4-Chloroaniline-d4	6.63	131	18853	0.543ug/mL
42) Dimethylphthalate-d6	8.73	166	348891	3.123ug/mL
45) Acenaphthylene-d8	8.97	160	429893	2.922ug/mL
50) 4-Nitrophenol-d4	9.51	143	41737	2.249ug/mL
57) Fluorene-d10	10.14	176	307023	3.110ug/mL
61) 4,6-Dinitro-2-methylphenol	10.28	200	31298	1.540ug/mL
69) Anthracene-d10	11.98	188	520470	3.158ug/mL
75) Pyrene-d10	14.34	212	519427	3.204ug/mL
86) Benzo(a)pyrene-d12	18.41	264	487881	2.913ug/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)\28MAY15\DFM22F09.D Vial: 20
Acq On : 05/28/2015 12:36 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 13:02:36 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

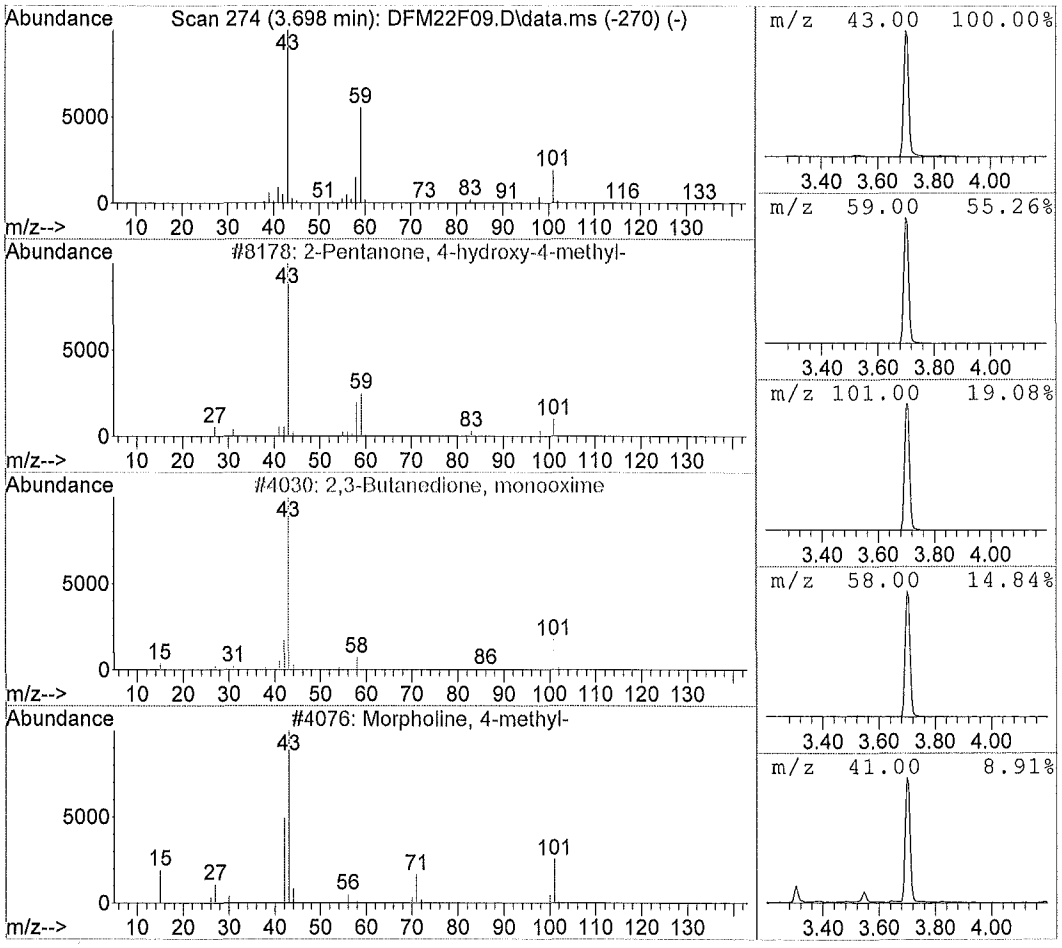
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM22F09.D Vial: 20
Acq On : 05/28/2015 12:36 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	11.72 ug/ml	3019055	1,4-Dichlorobenzene-d4	5153319

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	56.00
2	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
3	Morpholine, 4-methyl-	4076	000109-02-4	9.00
4	3-Hydroxy-3-methyl-2-butanone	4324	000115-22-0	9.00
5	Acetic acid, 1,1-dimethylethyl este	8202	000540-88-5	9.00



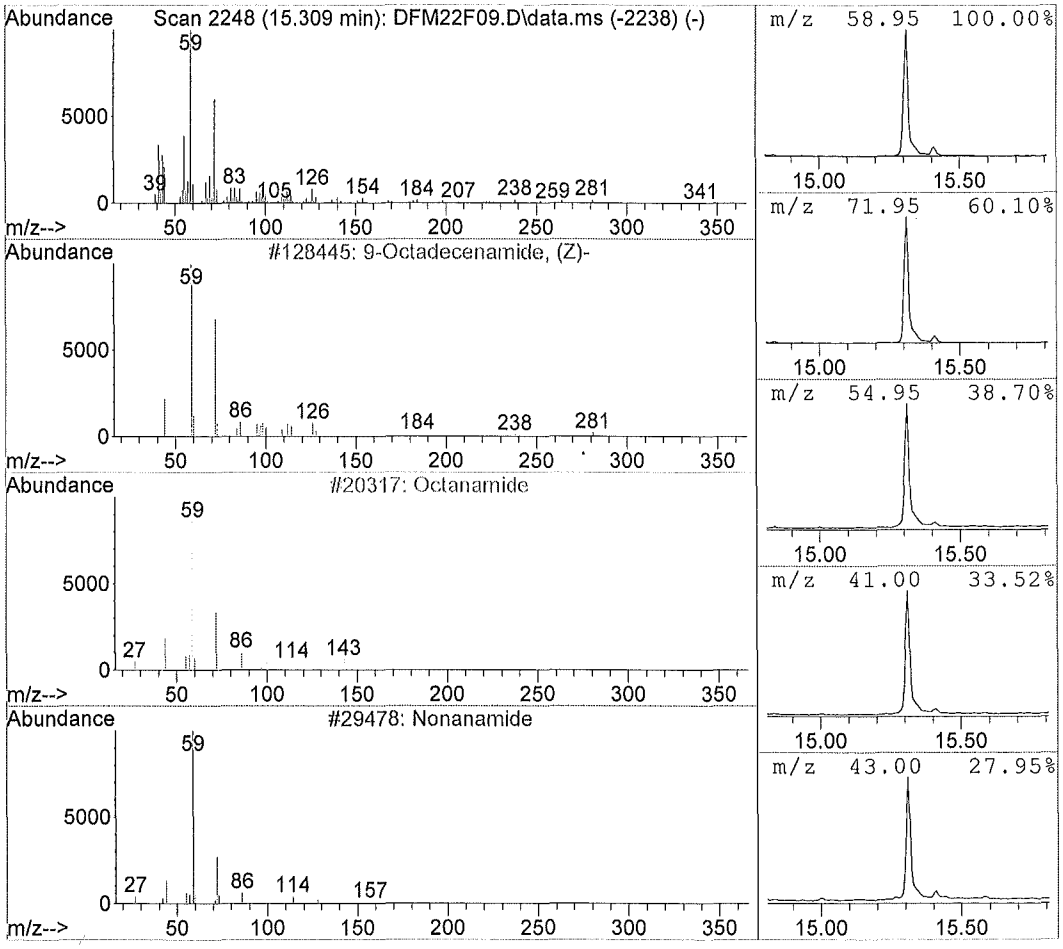
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM22F09.D Vial: 20
Acq On : 05/28/2015 12:36 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	4.06 ug/ml	2035699	Chrysene-d12	10038500

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	64.00
3	Nonanamide	29478	001120-07-6	53.00
4	Tetradecanamide	83610	000638-58-4	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM23F10

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	2000	U

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

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM23F10

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine[1]	2000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM23F10

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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-	3.70	4800	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.31	2500	JNB
03		Unknown trans-4'-Dimethylamino-3-nitrochalcone	19.17	1500	J
04		Unknown Xanthine, 1,3-diethyl-8-[4-[[[ethylaminc	24.39	1500	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

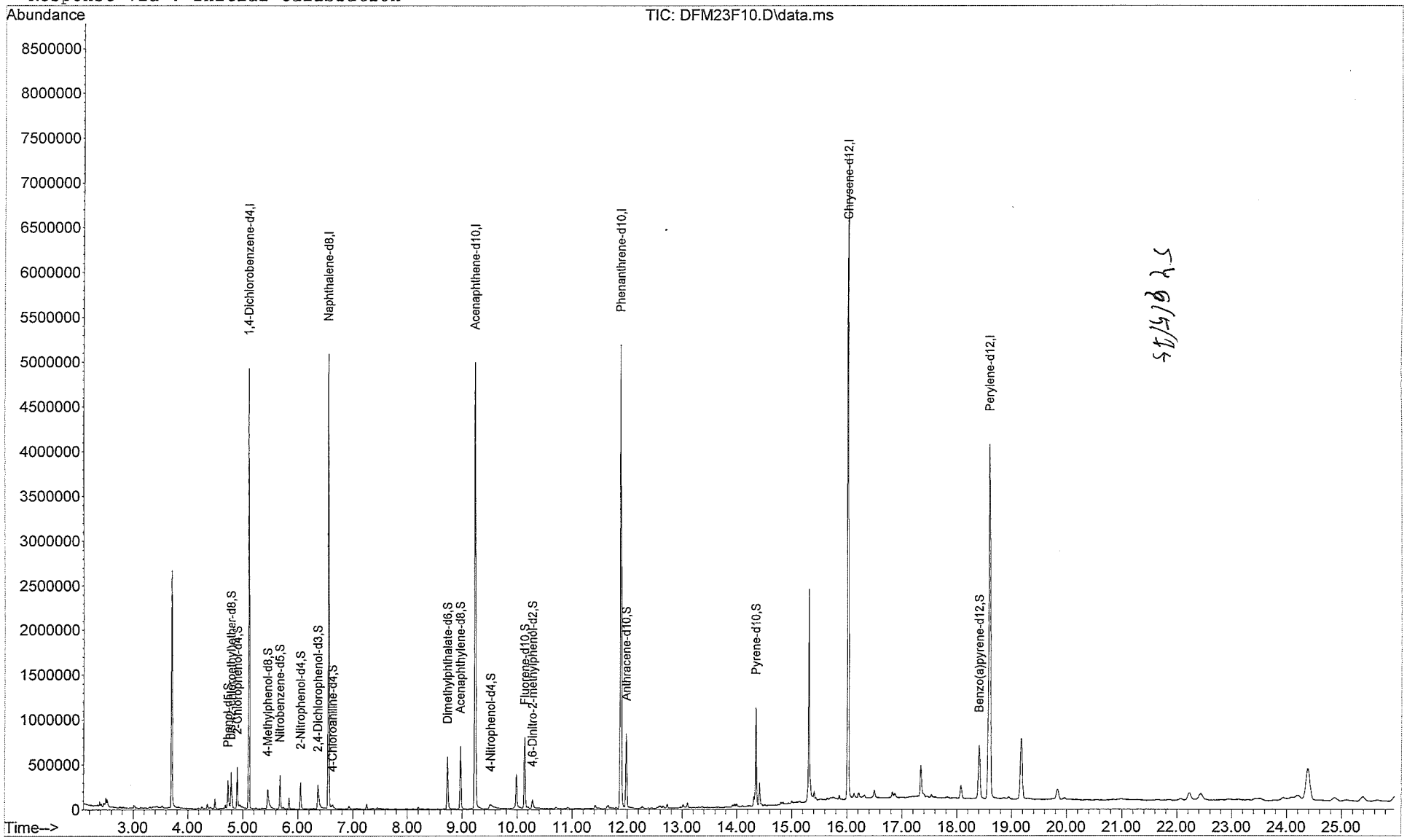
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 13:36:18 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5ug/kg/45

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 13:36:18 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	844118	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2811574	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1760544	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3098795	20.00 ug/ml
73) Chrysene-d12	16.02	240	3757899	20.00 ug/ml
81) Perylene-d12	18.60	264	3542030	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	150633	2.867ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	99731	2.594ug/mL
7) 2-Chlorophenol-d4	4.90	132	152072	2.904ug/ml
13) 4-Methylphenol-d8	5.45	113	100532	2.553ug/mL
17) Nitrobenzene-d5	5.67	128	64802	2.814ug/ml
21) 2-Nitrophenol-d4	6.05	143	73241	2.682ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	130263	2.952ug/mL
28) 4-Chloroaniline-d4	6.63	131	21393	0.645ug/mL
42) Dimethylphthalate-d6	8.73	166	388958	3.583ug/mL
45) Acenaphthylene-d8	8.97	160	475938	3.330ug/mL
50) 4-Nitrophenol-d4	9.52	143	36933	2.049ug/mL
57) Fluorene-d10	10.14	176	339827	3.543ug/mL
61) 4,6-Dinitro-2-methylphenol	10.28	200	31669	1.618ug/mL
69) Anthracene-d10	11.98	188	560122	3.528ug/mL
75) Pyrene-d10	14.34	212	554615	3.505ug/mL
86) Benzo(a)pyrene-d12	18.41	264	527245	3.253ug/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)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 13:36:18 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

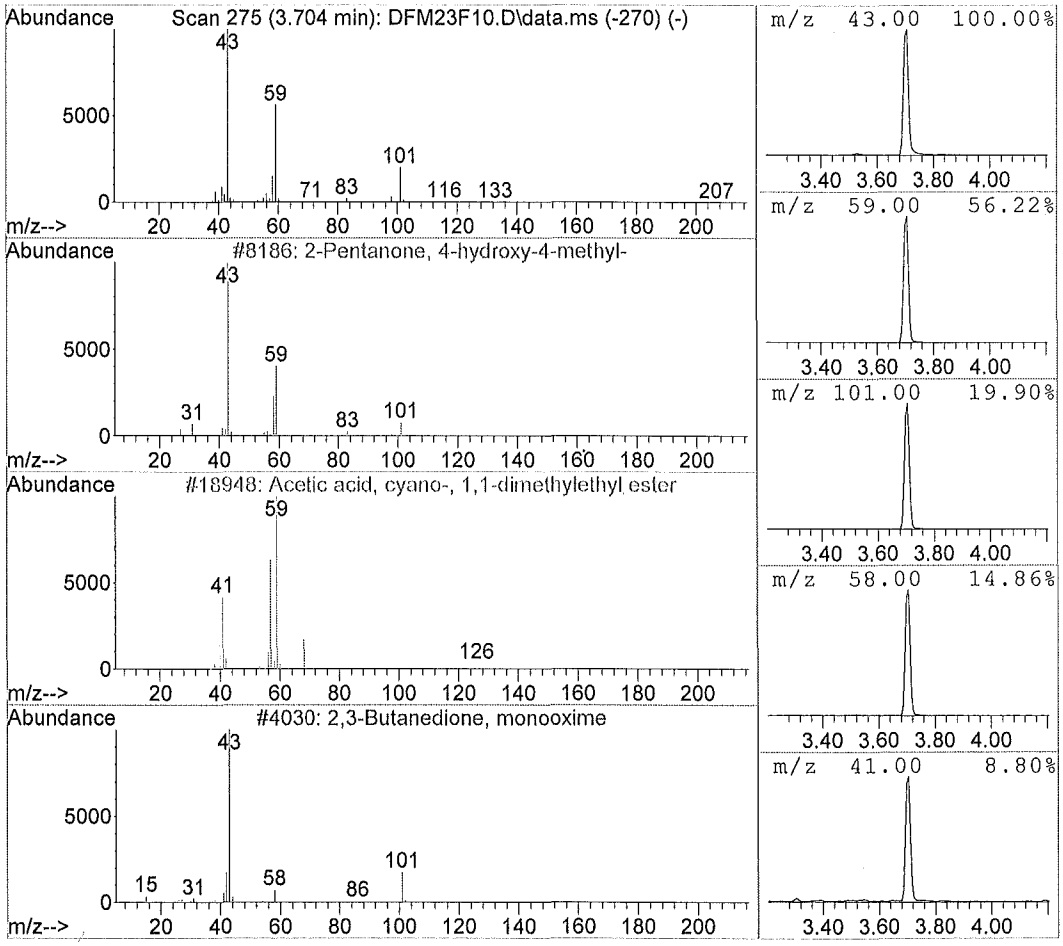
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	12.62 ug/ml	3189538	1,4-Dichlorobenzene-d4	5053424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	3-Hexanol, 4-methyl-	8344	000615-29-2	9.00



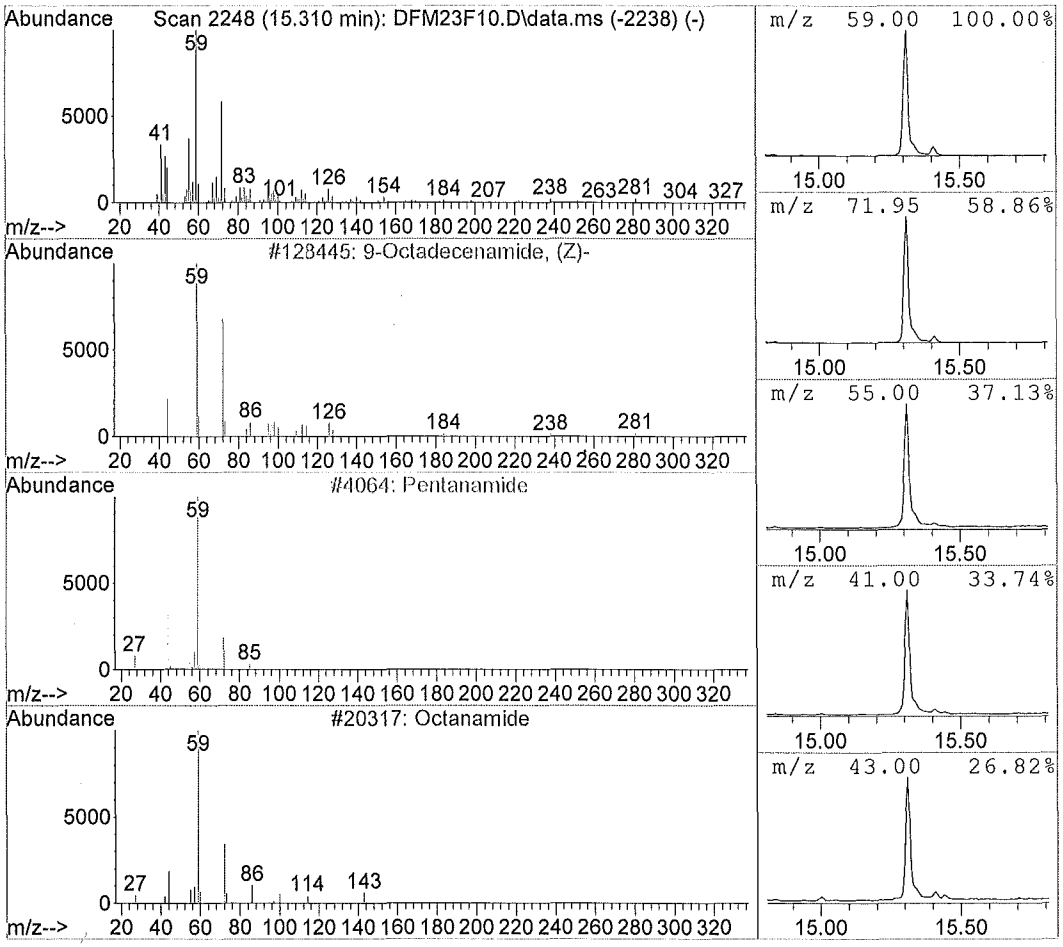
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	6.52 ug/ml	3187530	Chrysene-d12	9773425

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	Octanamide	20317	000629-01-6	56.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00
5	Nonanamide	29478	001120-07-6	53.00



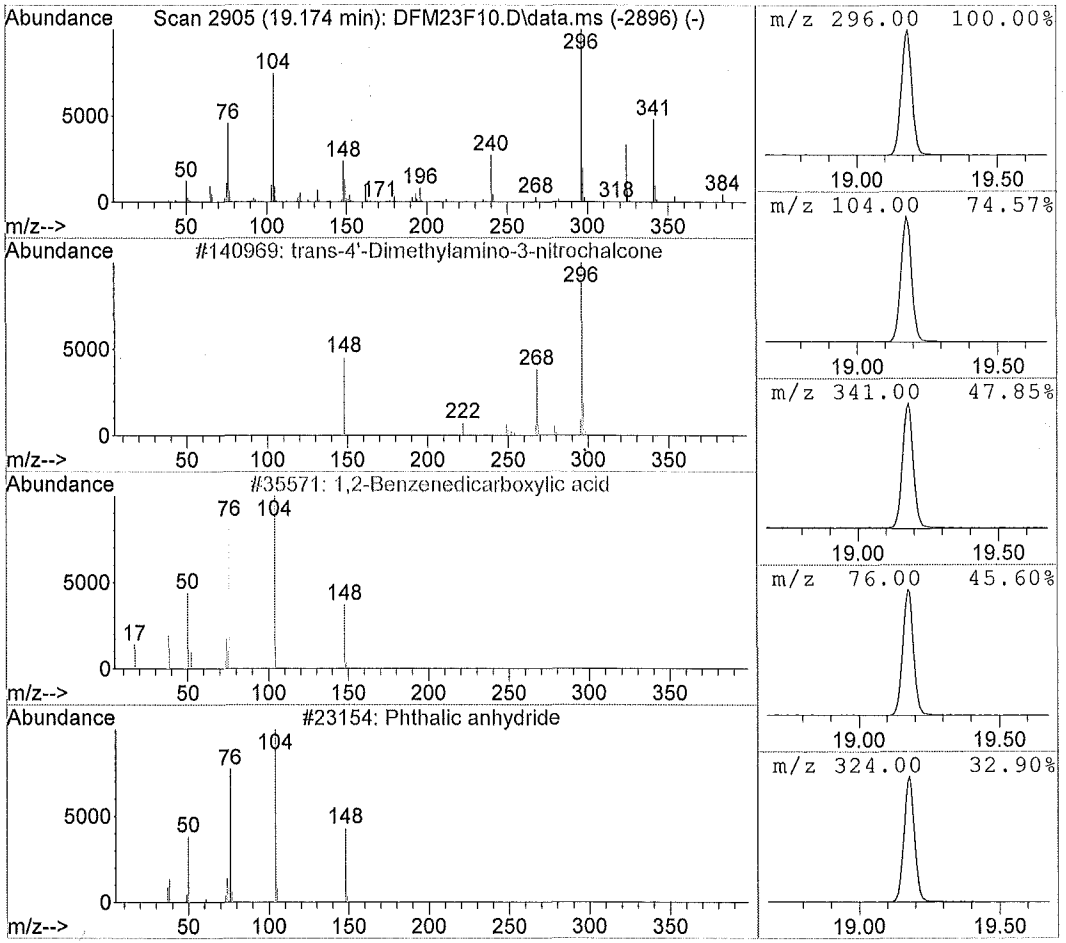
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.17	3.80 ug/ml	1763210	Perylene-d12	9270553

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	22.00
2	1,2-Benzenedicarboxylic acid	35571	000088-99-3	16.00
3	Phthalic anhydride	23154	000085-44-9	16.00
4	Cyclohept[b]indol-6(5H)-one, 2-cycl	141251	339284-86-5	14.00
5	1-Octadecanamine, N-(2-methoxypropy	187433	1000196-18-5	14.00



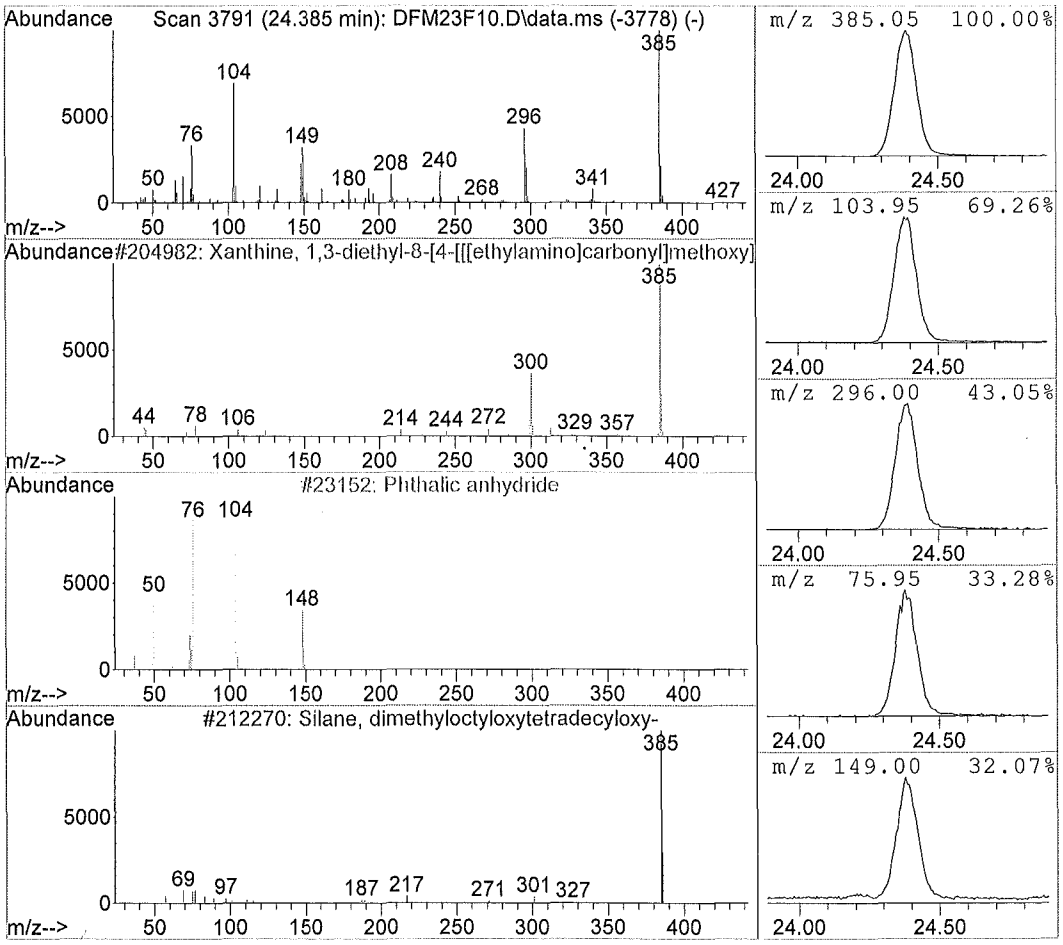
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM23F10.D Vial: 21
Acq On : 05/28/2015 13:10 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.39	3.97 ug/ml	1839910	Perylene-d12	9270553

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	22.00
2	Phthalic anhydride	23152	000085-44-9	14.00
3	Silane, dimethyloctyloxytetradecylo	212270	1000346-75-1	12.00
4	Oxirane-2,2'-spiroindane-1,1-dicarb	80837	051779-34-1	9.00
5	Phthalic acid, mono(o-methylbenzyl)	119132	004619-49-2	9.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM24F11

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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
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.

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM24F11

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

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
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.

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFM24F11

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.9 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-	3.70	5000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.31	1700	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1100	J

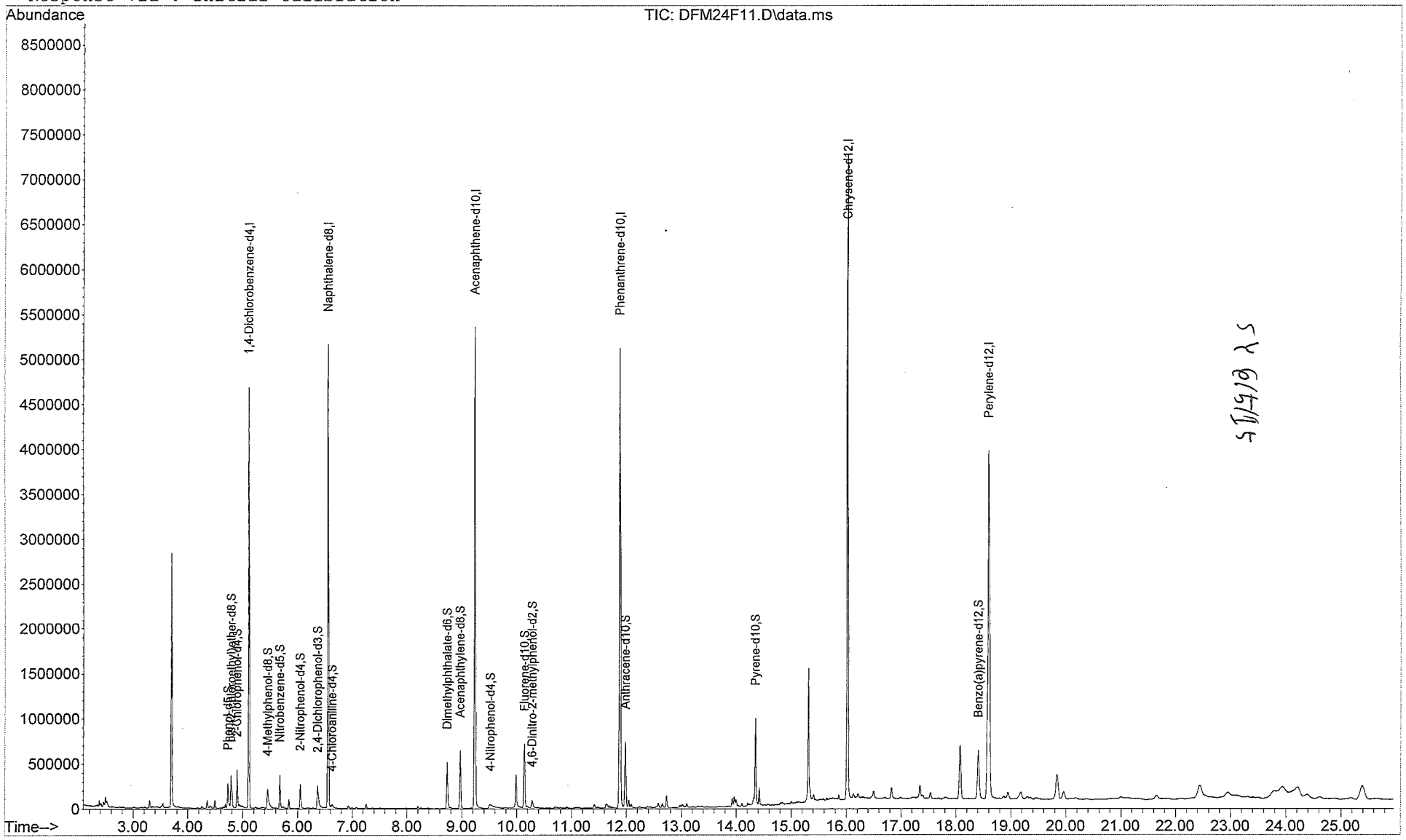
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM24F11.D Vial: 22
Acq On : 05/28/2015 13:44 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 14:10:38 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM24F11.D Vial: 22
Acq On : 05/28/2015 13:44 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 14:10:38 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	852980	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2892660	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1795014	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3130971	20.00 ug/ml
73) Chrysene-d12	16.02	240	3723946	20.00 ug/ml
81) Perylene-d12	18.60	264	3469438	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	137744	2.595ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	93081	2.396ug/mL
7) 2-Chlorophenol-d4	4.89	132	140822	2.661ug/ml
13) 4-Methylphenol-d8	5.45	113	99025	2.489ug/mL
17) Nitrobenzene-d5	5.67	128	60777	2.565ug/ml
21) 2-Nitrophenol-d4	6.05	143	68392	2.434ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	118703	2.614ug/mL
28) 4-Chloroaniline-d4	6.63	131	21204	0.622ug/mL
42) Dimethylphthalate-d6	8.73	166	345601	3.123ug/mL
45) Acenaphthylene-d8	8.97	160	431096	2.958ug/mL
50) 4-Nitrophenol-d4	9.52	143	34728	1.889ug/mL
57) Fluorene-d10	10.14	176	299978	3.067ug/mL
61) 4,6-Dinitro-2-methylphenol	10.28	200	28418	1.437ug/mL
69) Anthracene-d10	11.98	188	510461	3.182ug/mL
75) Pyrene-d10	14.35	212	500077	3.189ug/mL
86) Benzo(a)pyrene-d12	18.41	264	476501	3.001ug/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)\28MAY15\DFM24F11.D Vial: 22
Acq On : 05/28/2015 13:44 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 14:10:38 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

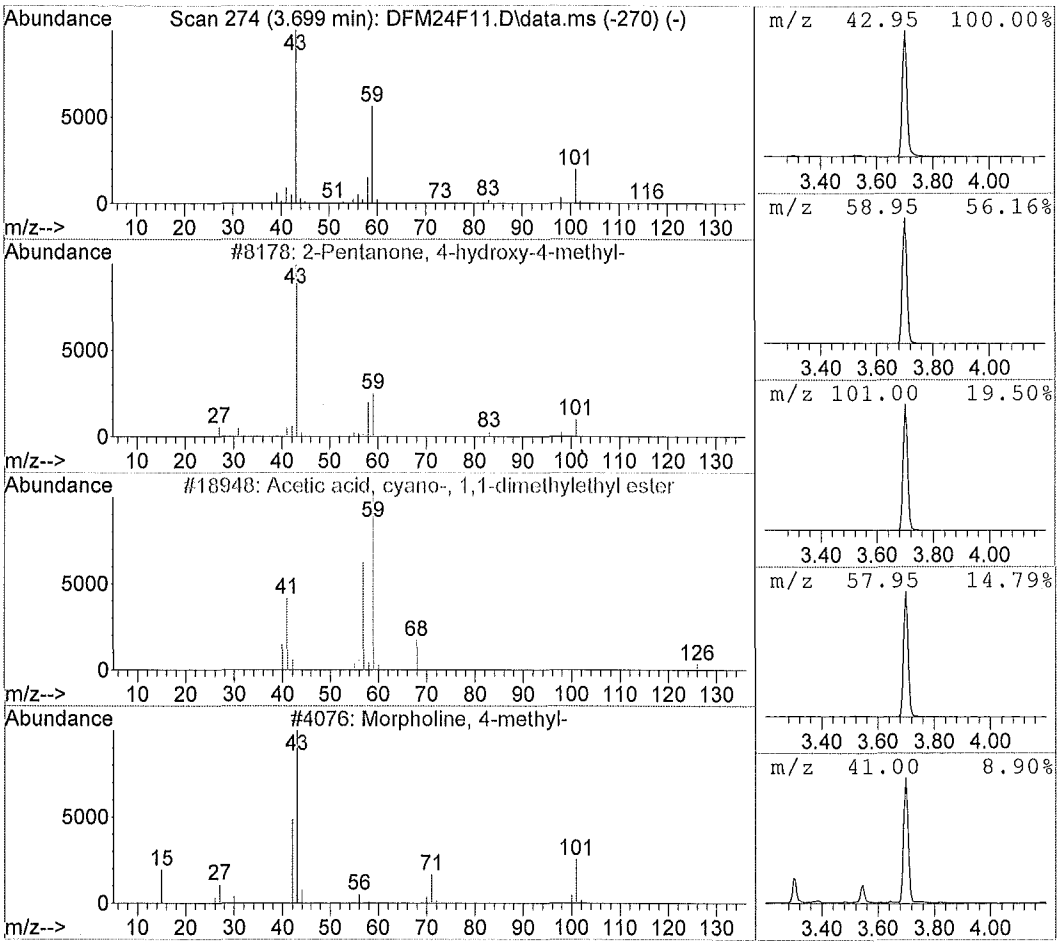
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM24F11.D Vial: 22
Acq On : 05/28/2015 13:44 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	12.31 ug/ml	3141632	1,4-Dichlorobenzene-d4	5105680

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	Morpholine, 4-methyl-	4076	000109-02-4	9.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Propane, 1-ethoxy-2-methyl-	4484	000627-02-1	9.00



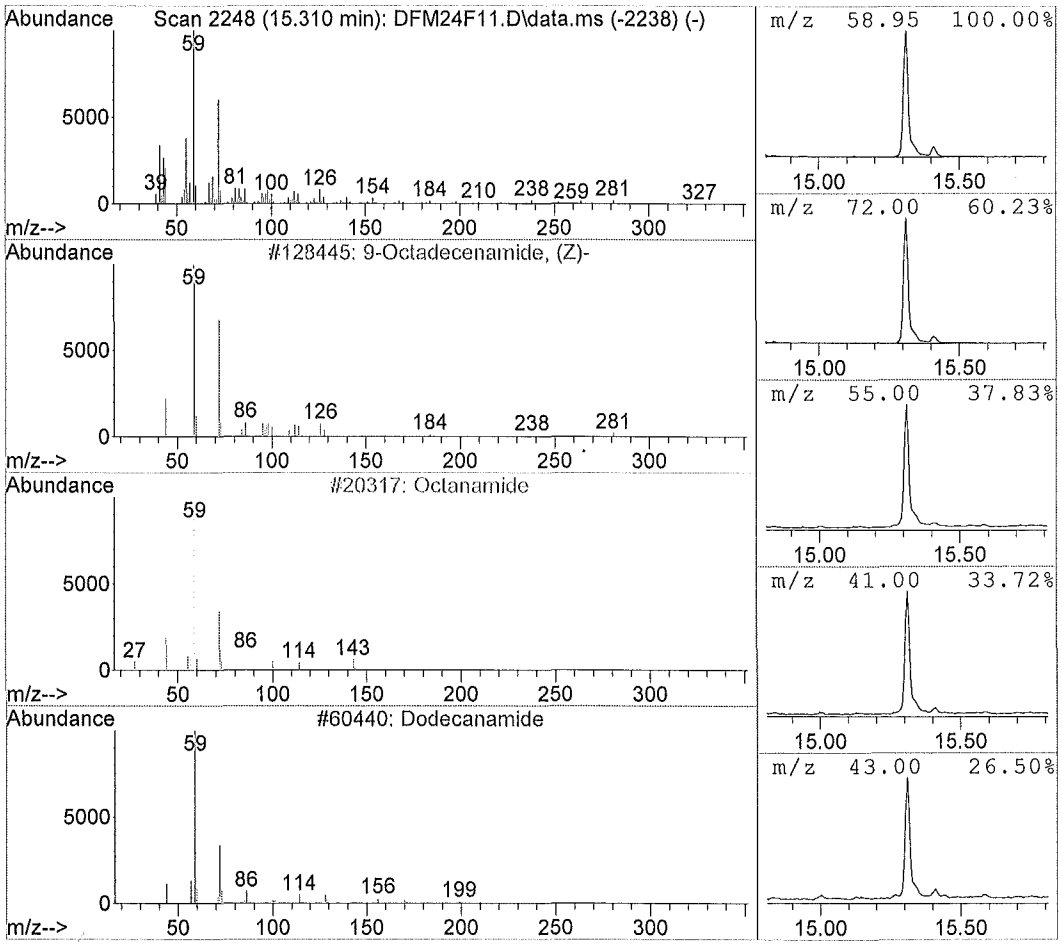
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM24F11.D Vial: 22
Acq On : 05/28/2015 13:44 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	4.19 ug/ml	2008260	Chrysene-d12	9596495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	64.00
3	Dodecanamide	60440	001120-16-7	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Tetradecanamide	83610	000638-58-4	50.00



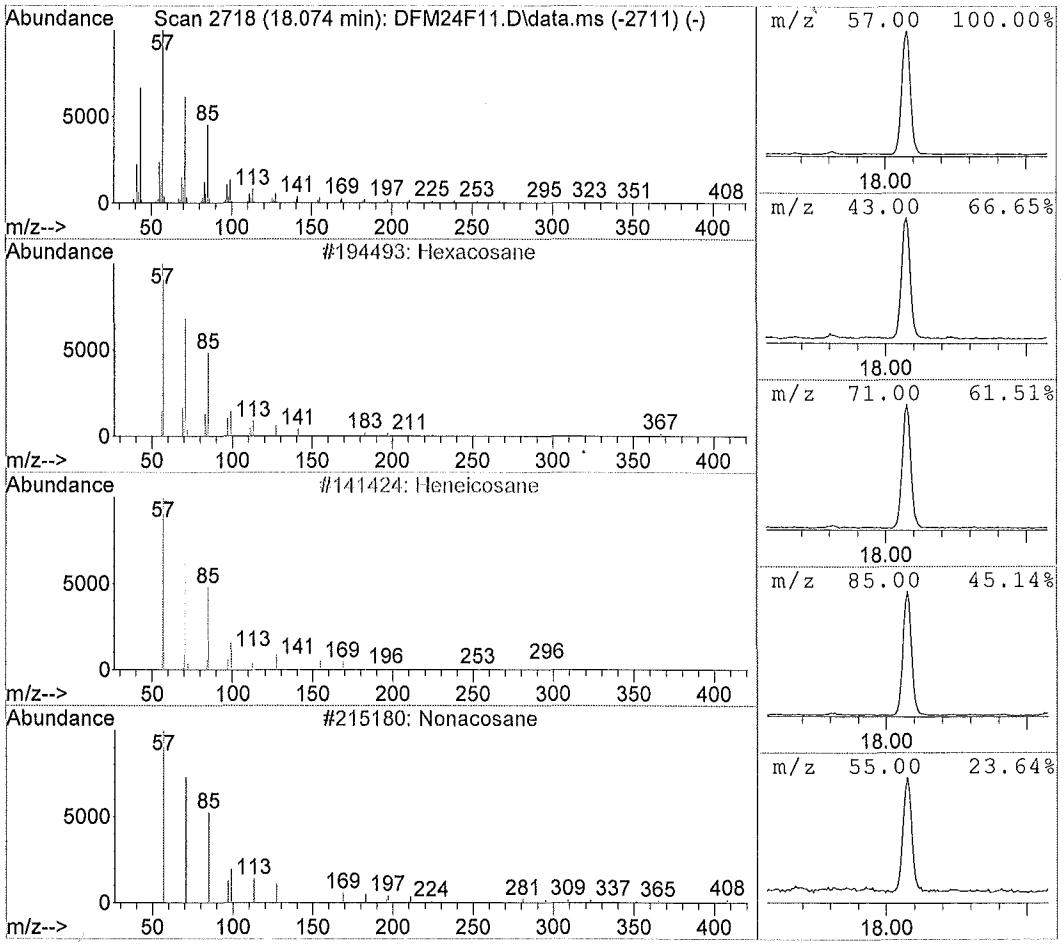
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM24F11.D Vial: 22
Acq On : 05/28/2015 13:44 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.07	2.79 ug/ml	1271301	Perylene-d12	9121434

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Hexacosane	5A	194493	000630-01-3	94.00
2 Heneicosane		141424	000629-94-7	93.00
3 Nonacosane		215180	000630-03-5	93.00
4 Tetracosane		175557	000646-31-1	91.00
5 Octacosane		209566	000630-02-4	91.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.1 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-	2.49	110	JNB
02		Unknown 3-Pyrrolidinol	2.54	190	J
03		Unknown Guanidine	3.72	5100	J
04		Unknown 1H-Pyrrole-2,5-dione	4.49	110	J
05	301-02-0	9-Octadecenamide, (Z)-	14.31	95.	JNB
06	629-54-9	Hexadecanamide	14.42	220	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
08	629-54-9	Hexadecanamide	15.41	86.	JN
09		Unknown 9-Octadecenamide, (Z)-	16.13	97.	JB
10		Unknown Cyclohexanecarboxamide	16.50	170	J
11	301-02-0	9-Octadecenamide, (Z)-	17.34	610	JN
12		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	22.11	4900	J
13		Unknown 1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4	22.46	620	J
14		Unknown 2,4,4-Trimethyl-3-(3-methylbuta-1,3-dien	22.80	390	J
15	1615-91-4	A'-Neogammacer-22(29)-ene	23.32	160	JN
16		Unknown (-)-Isolongifolol, methyl ether	23.89	250	J
17		Unknown 3-Bromo-4-hydroxy-5-methoxyphenylacetoni	24.89	1100	J
18		Unknown 5.beta.-Coprostan-16,22-epoxy-3.alpha.,2	25.09	410	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

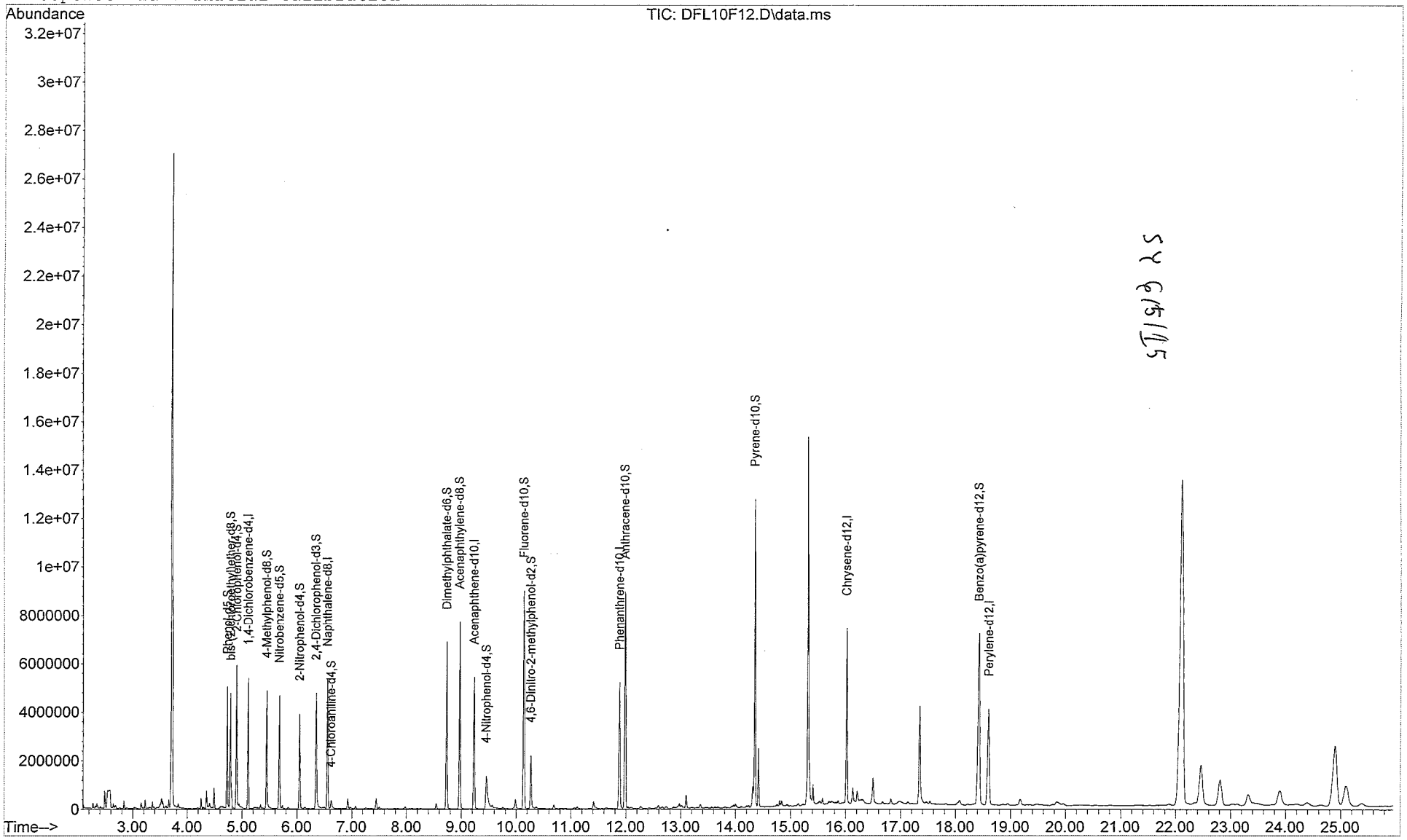
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:15:19 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



SY 6/5/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:19 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	935236	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3097393	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1844963	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3119740	20.00 ug/ml
73) Chrysene-d12	16.02	240	3659459	20.00 ug/ml
81) Perylene-d12	18.60	264	3527810	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1852812	31.832ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1161723	27.277ug/mL
7) 2-Chlorophenol-d4	4.90	132	1785338	30.772ug/ml
13) 4-Methylphenol-d8	5.45	113	1200953	27.526ug/mL
17) Nitrobenzene-d5	5.67	128	782679	30.851ug/ml
21) 2-Nitrophenol-d4	6.05	143	923031	30.681ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1493925	30.729ug/mL
28) 4-Chloroaniline-d4	6.62	131	180963	4.955ug/mL
42) Dimethylphthalate-d6	8.73	166	4252476	37.384ug/mL
45) Acenaphthylene-d8	8.97	160	5134802	34.282ug/mL
50) 4-Nitrophenol-d4	9.46	143	655262	34.683ug/mL
57) Fluorene-d10	10.14	176	3644041	36.253ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	587271	29.809ug/mL
69) Anthracene-d10	11.98	188	6097459	38.150ug/mL
75) Pyrene-d10	14.35	212	6193626	40.190ug/mL
86) Benzo(a)pyrene-d12	18.42	264	6299336	39.018ug/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)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:19 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

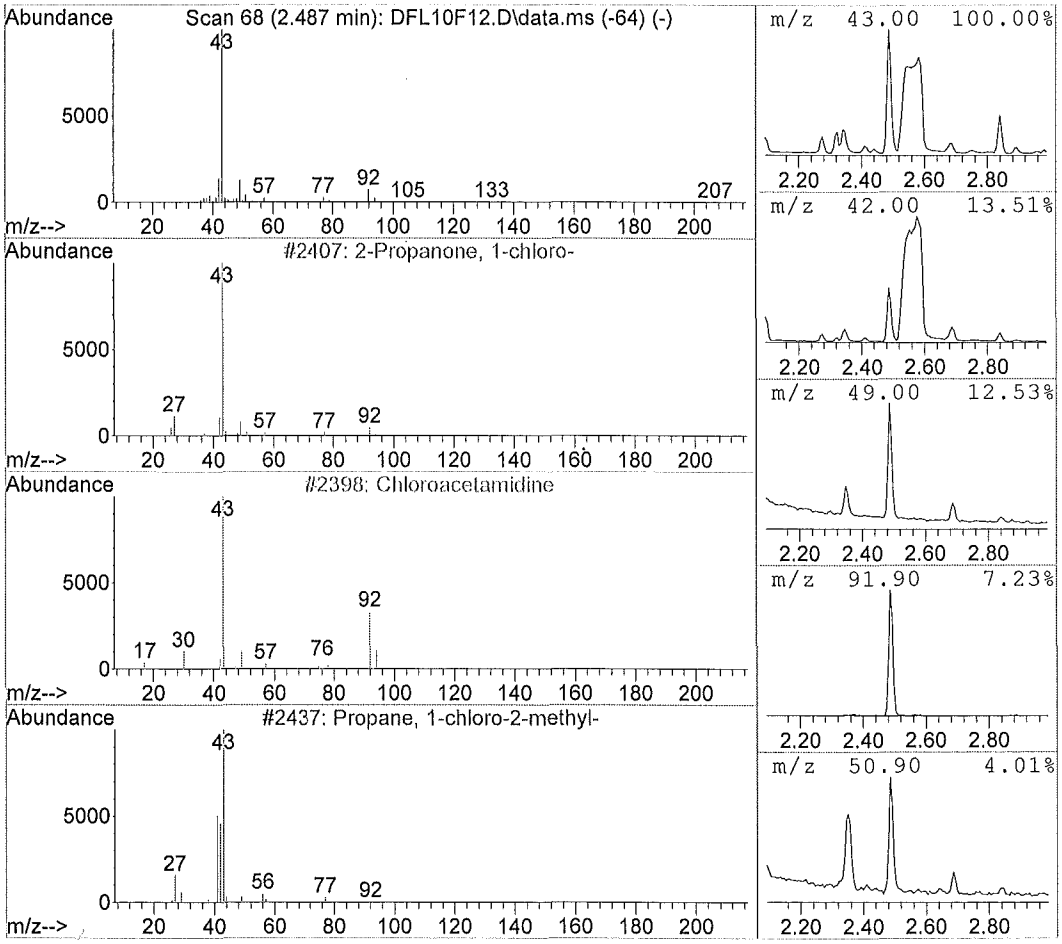
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.49	2.74 ug/ml	757690	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	90.00
2	Chloroacetamidine	2398	020846-52-0	45.00
3	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
4	Acetyl chloride	990	000075-36-5	9.00
5	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00



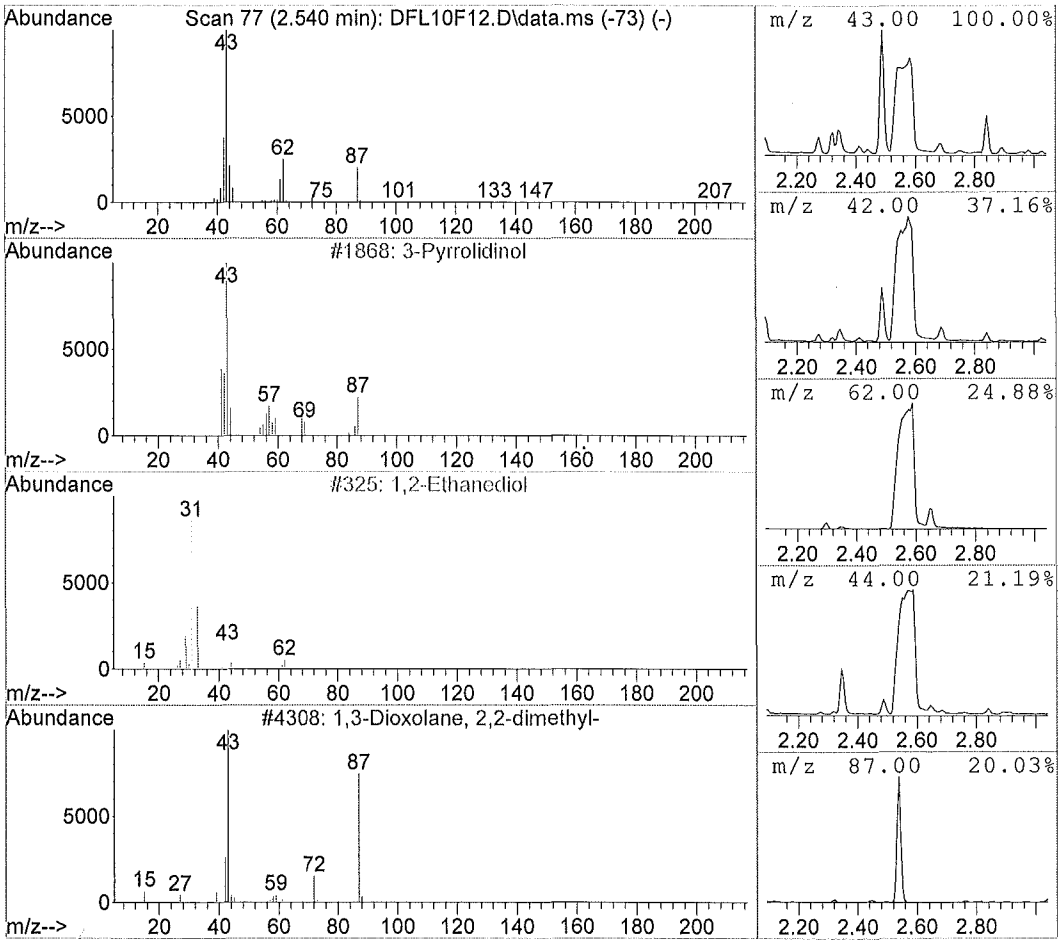
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.54	4.86 ug/ml	1343728	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	1868	040499-83-0	16.00
2	1,2-Ethanediol	325	000107-21-1	9.00
3	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
4	Acetamide, N-ethyl-	1881	000625-50-3	7.00
5	2,3-Epoxybutane	676	003266-23-7	7.00



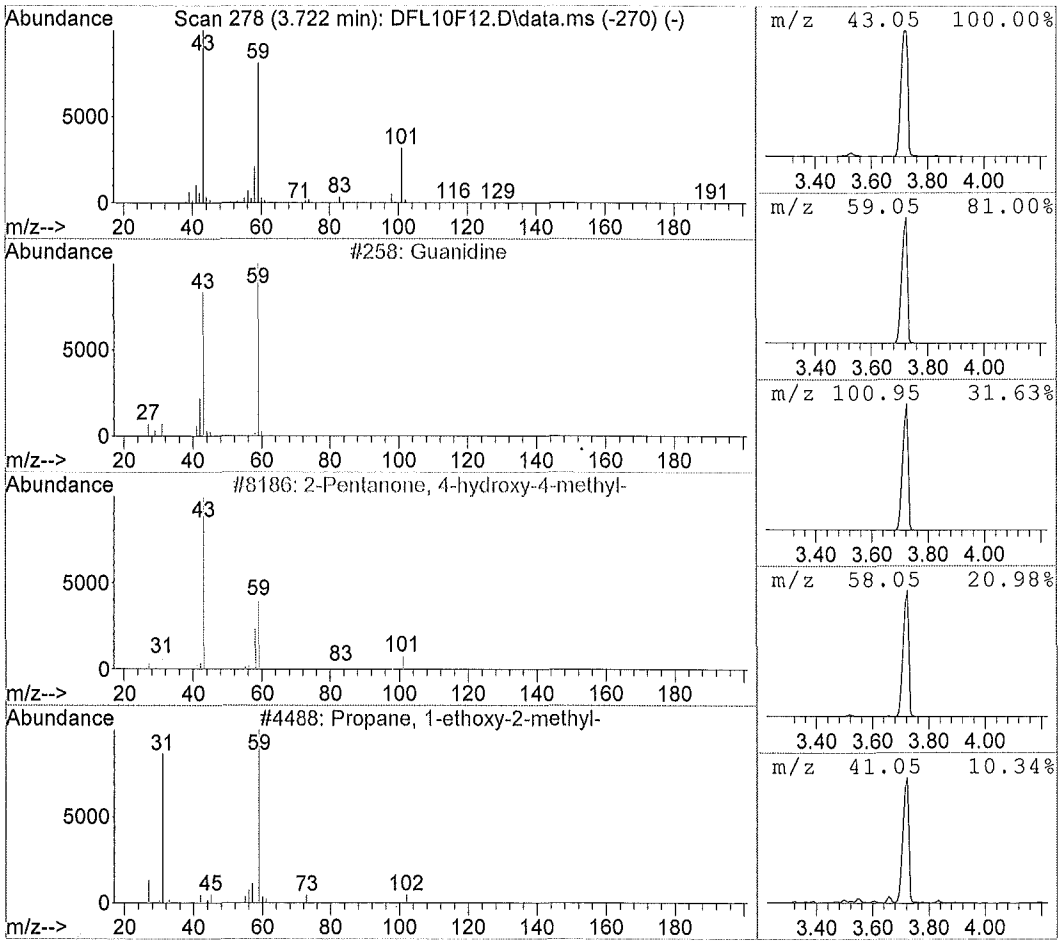
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	131.73 ug/ml	36455036	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	37.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00



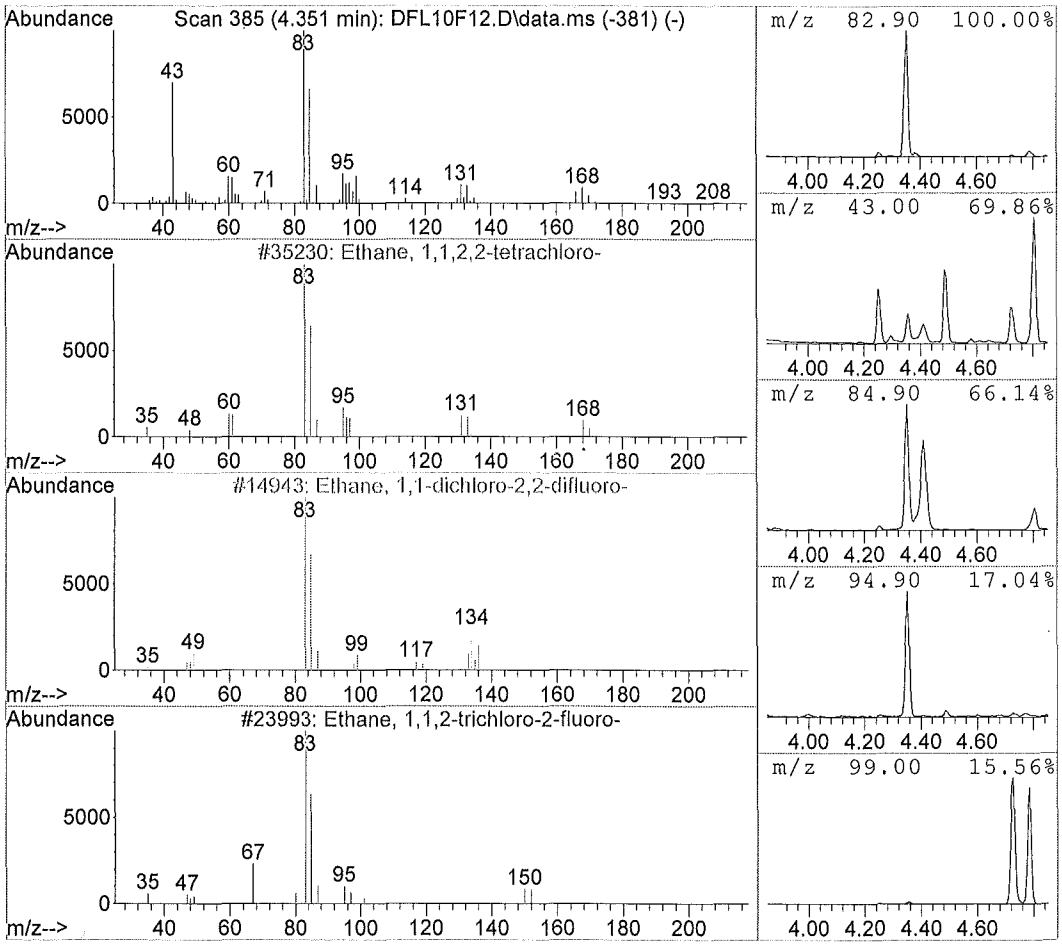
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	2.54 ug/ml	702777	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,1-dichloro-2,2-difluoro- VOA	14943	000471-43-2	59.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	53.00
4	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	52.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00



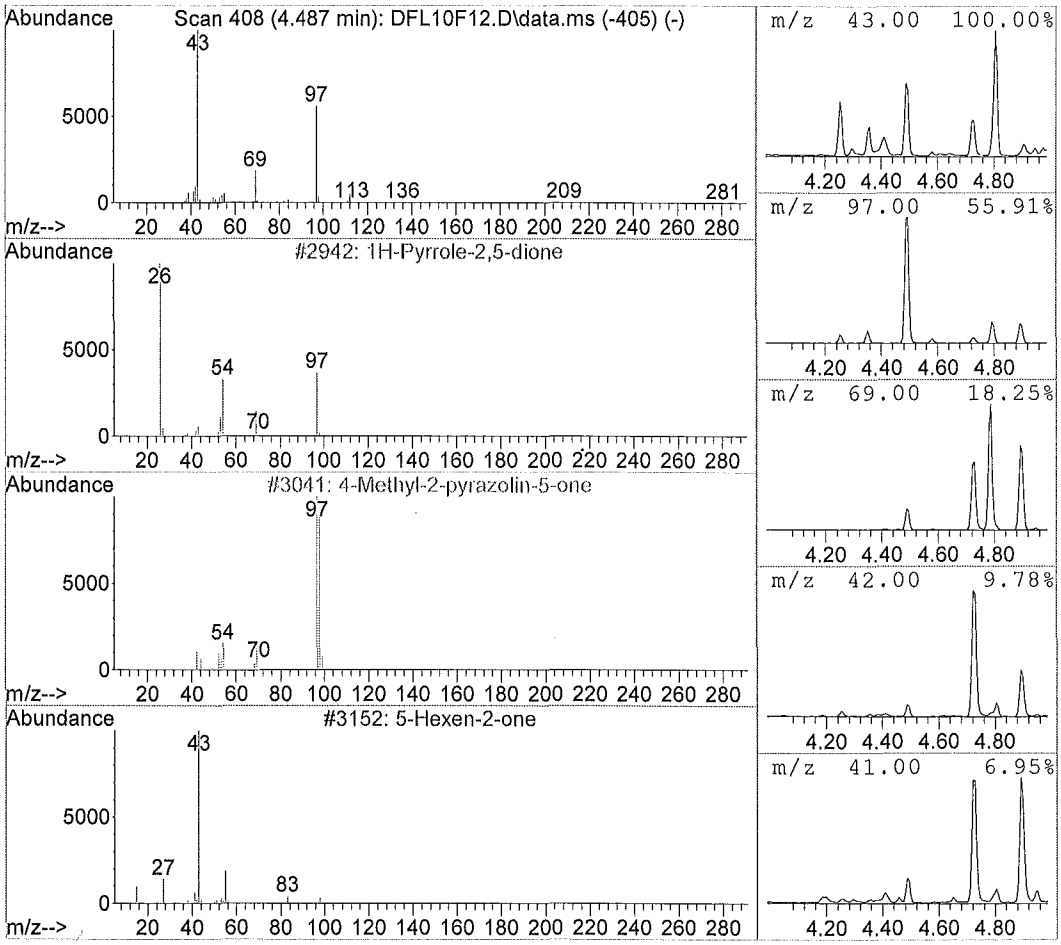
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.97 ug/ml	821528	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
3	5-Hexen-2-one	3152	000109-49-9	10.00
4	2,4-Dimethyl-1,5-diazabicyclo[3.1.0	6335	1000283-20-9	9.00
5	2-Cyclohexen-1-ol, 3-methyl-	6572	021378-21-2	9.00



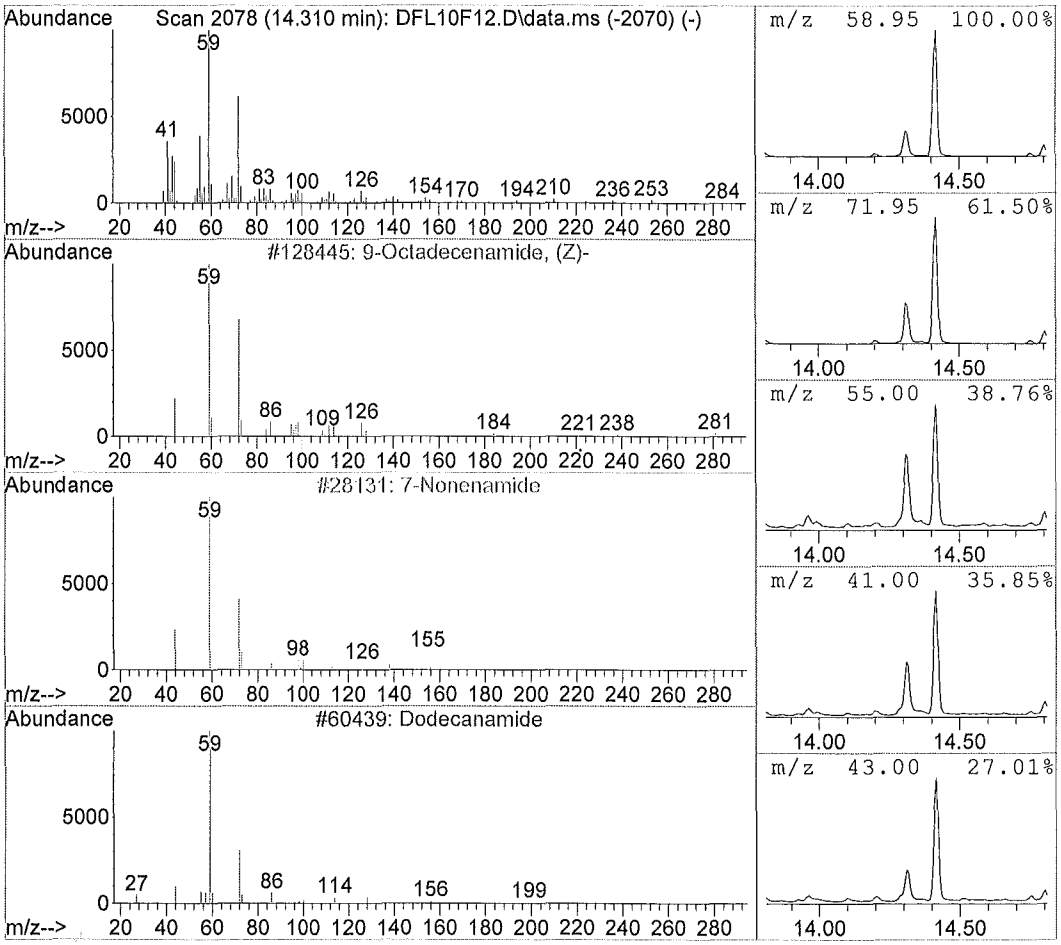
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.46 ug/ml	1178282	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	56.00
5	Hexadecanamide	106565	000629-54-9	50.00



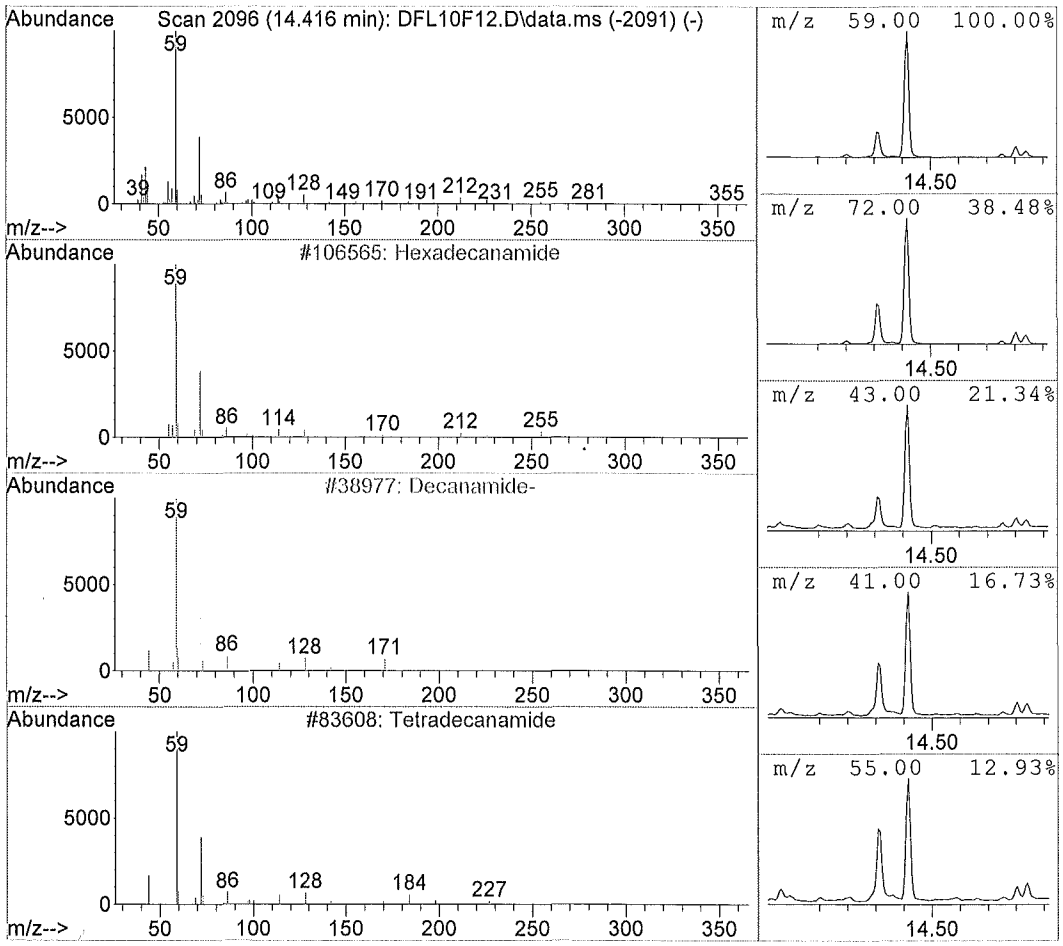
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.68 ug/ml	2724714	Chrysene-d12	9588168

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



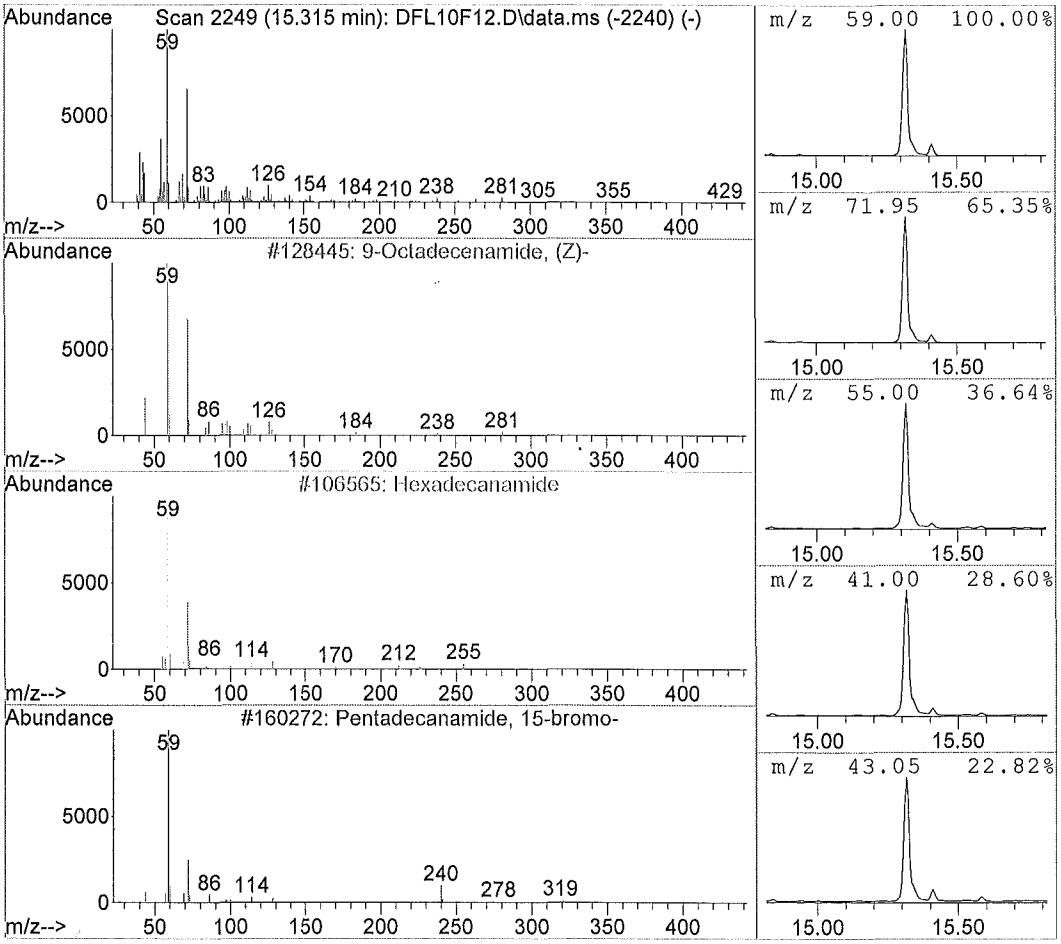
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	42.44 ug/ml	20348169	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106565	000629-54-9	64.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
4	Octanamide	20317	000629-01-6	53.00
5	Tetradecanamide	83609	000638-58-4	50.00



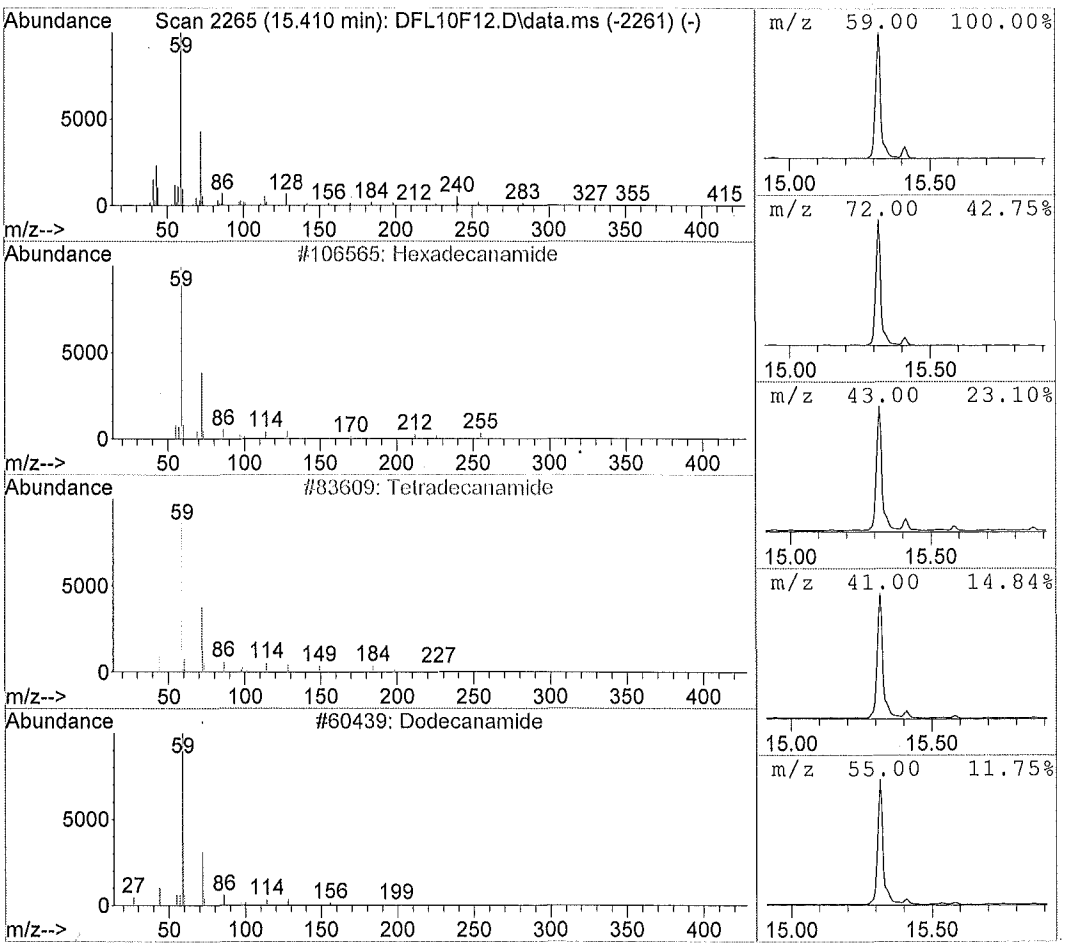
Library Search Compound Report

Data File : C:\msdchem\1\data\F9.. 6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.24 ug/ml	1073852	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	87.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	9-Octadecenamide, (Z)-	128443	000301-02-0	74.00



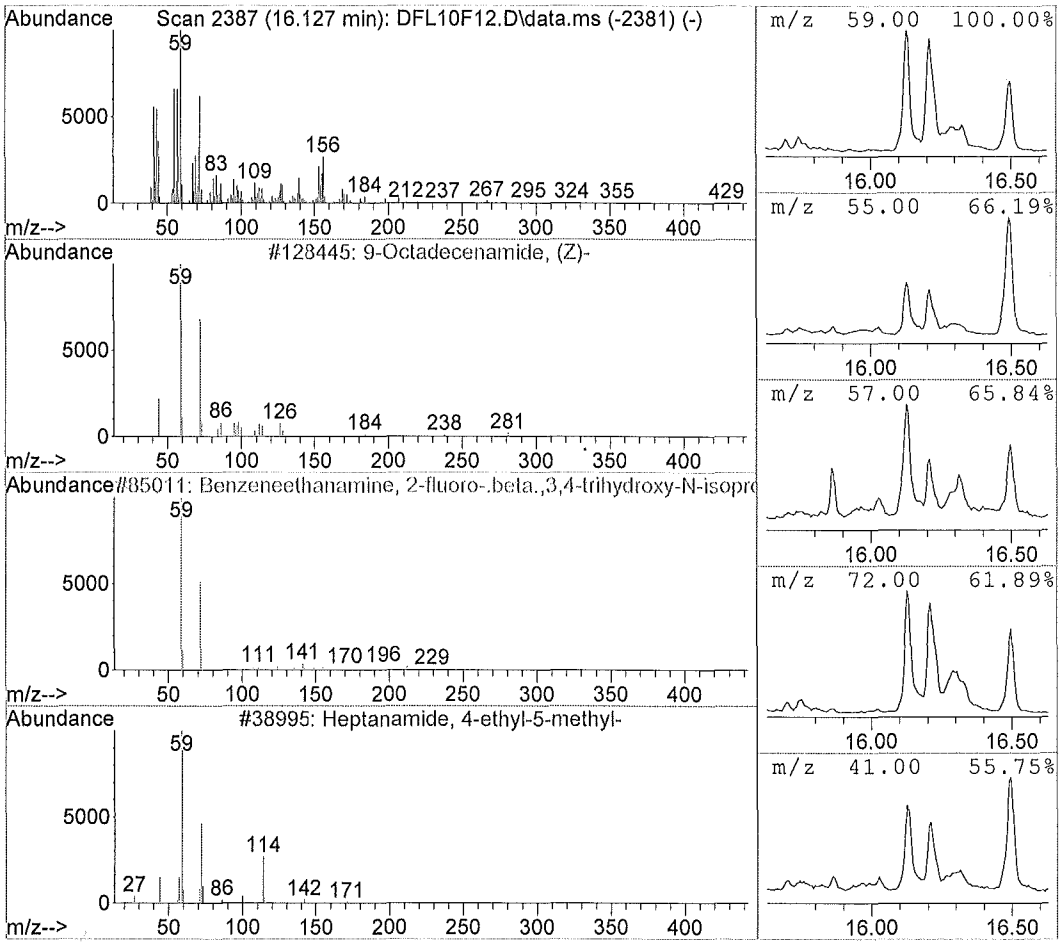
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.53 ug/ml	1213814	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	47.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	43.00
4	Tetradecanamide	83610	000638-58-4	43.00
5	Dodecanamide	60439	001120-16-7	38.00



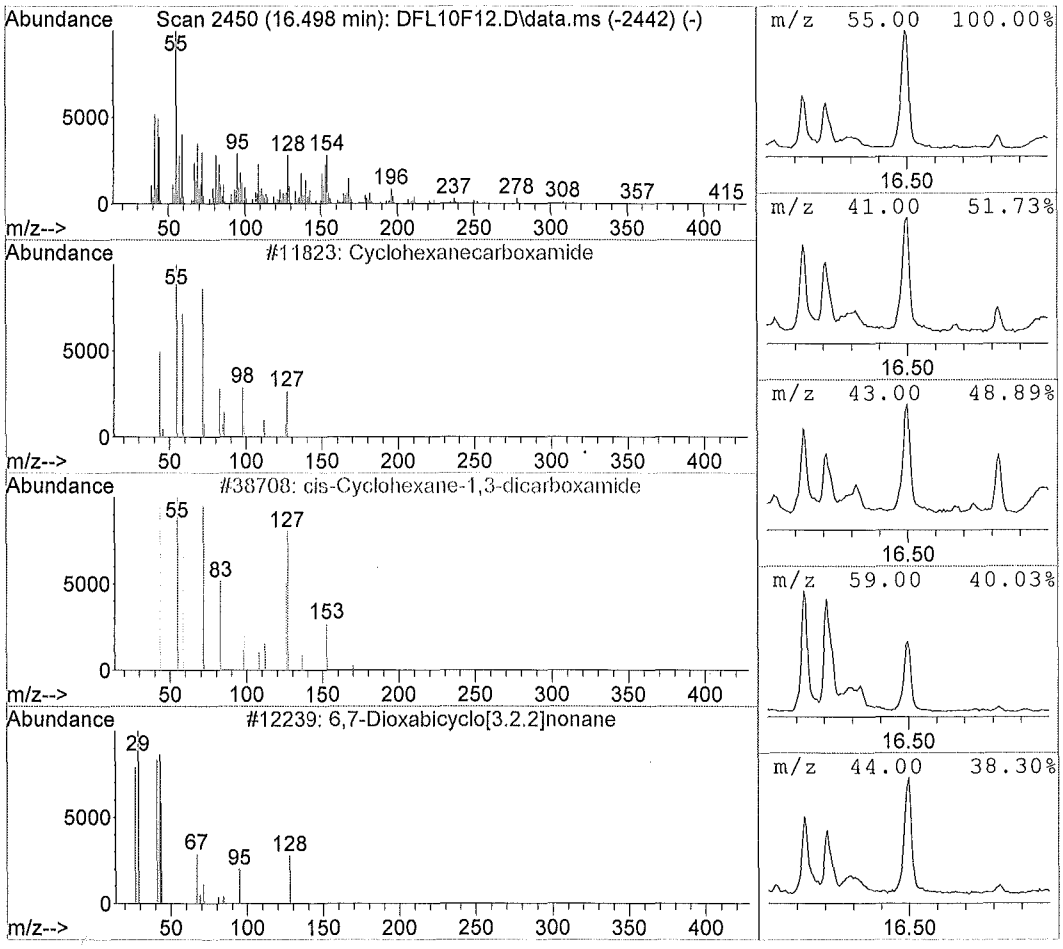
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	4.31 ug/ml	2067484	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	12.00
3	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	10.00
4	3,5-Methano-2H-cyclopenta[b]furan-2	59297	1000141-74-2	10.00
5	Cyclohexylamine, N-(2-chloropropyli	52648	037898-42-3	9.00



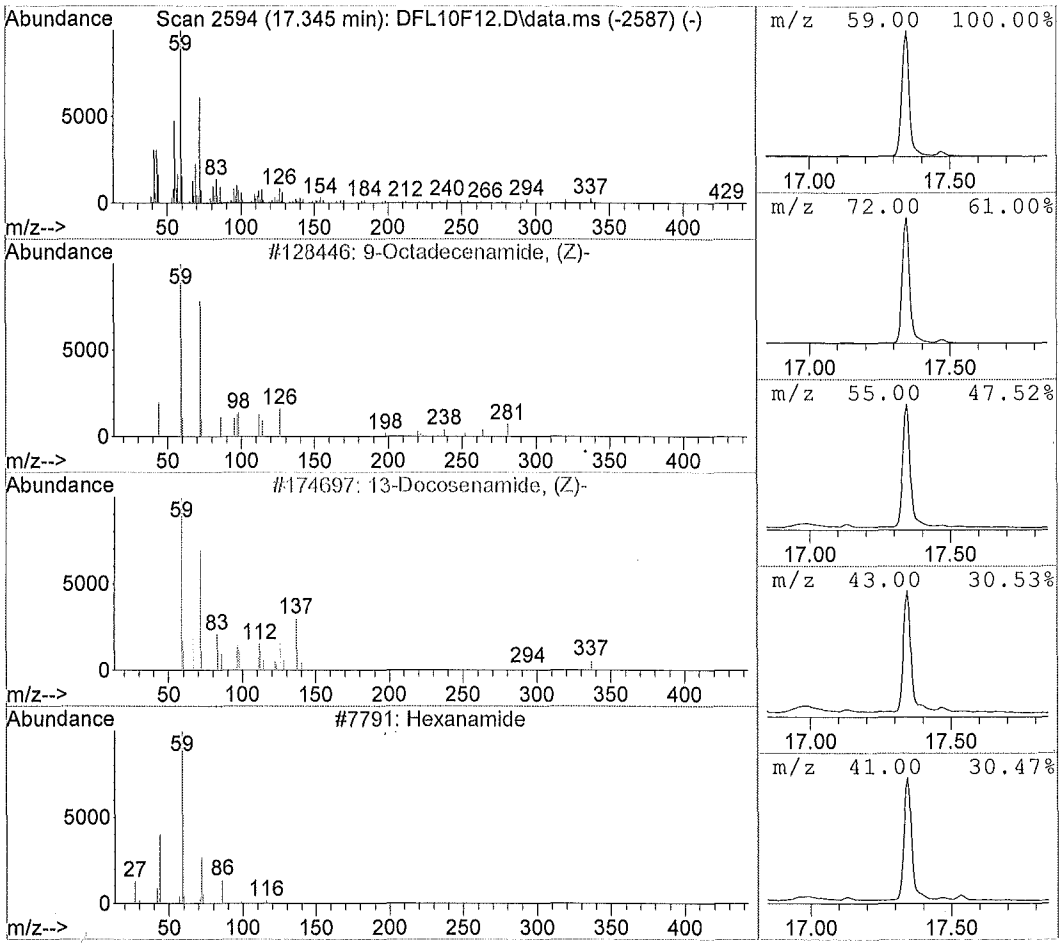
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	15.88 ug/ml	7265830	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	95.00
2	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
3	Hexanamide	7791	000628-02-4	47.00
4	2-Octanol, 2-methyl-6-methylene-	28320	018479-59-9	43.00
5	2-Methyl-tridecane-2,12-diol	86147	1000187-03-5	43.00



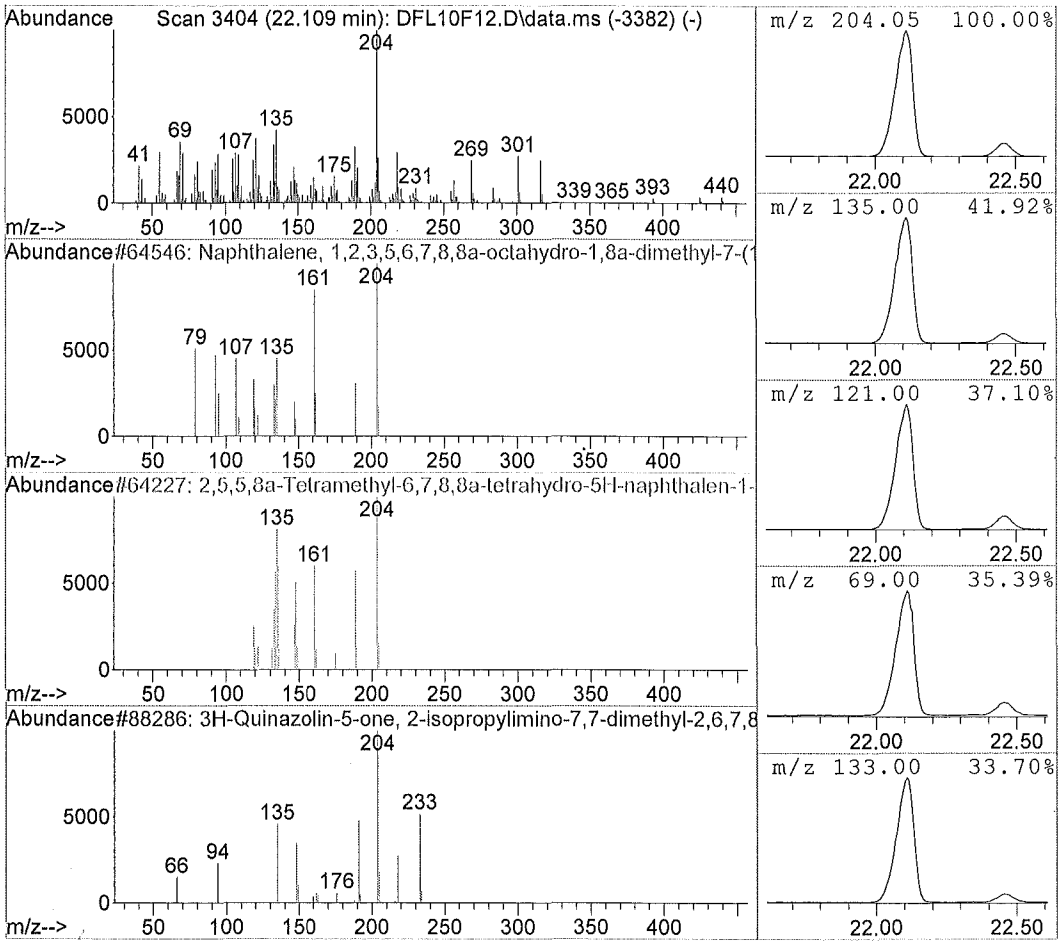
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.11	127.57 ug/ml	58363627	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	49.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	43.00
4	1H-3a-Aza-as-indacene, 8b-methyl-2-	76615	1000316-47-6	30.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	27.00



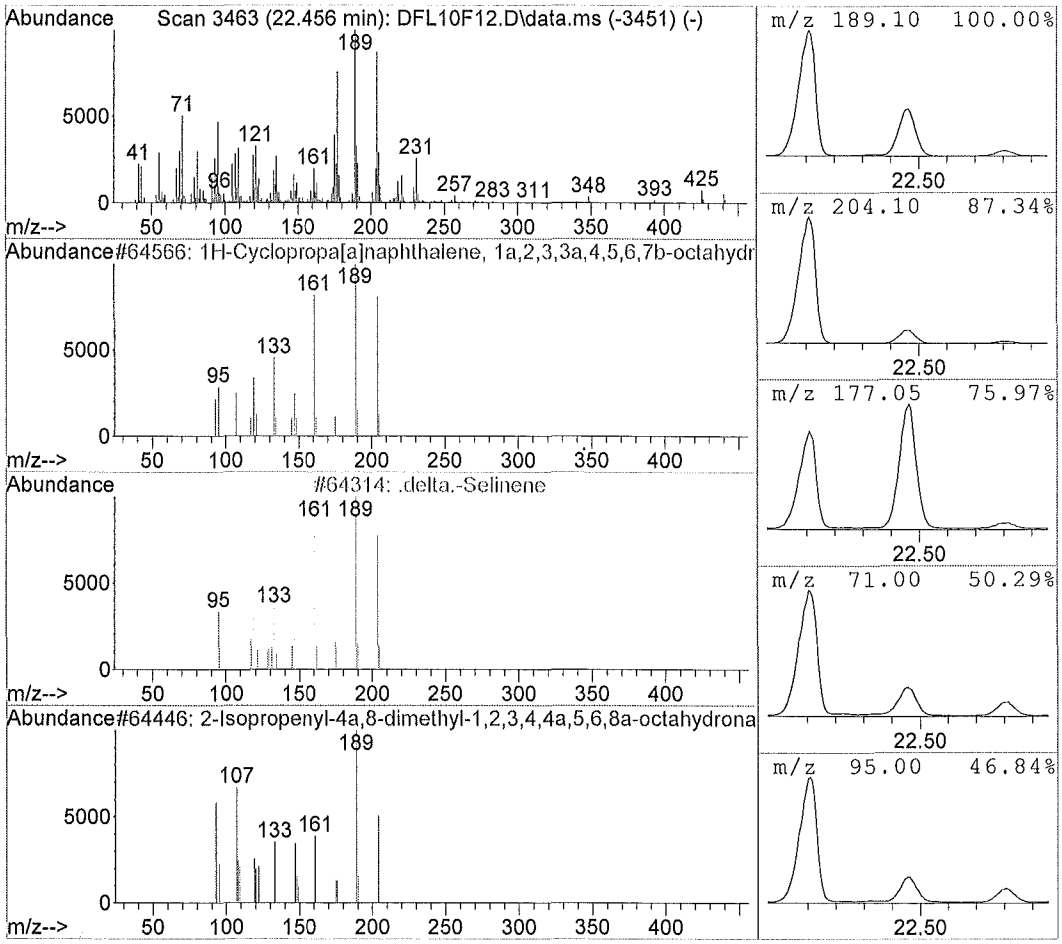
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.46	16.20 ug/ml	7409993	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	55.00
2	.delta.-Selinene	64314	028624-23-9	49.00
3	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64446	1000193-57-0	45.00
4	3,4-Dihydrocoumarin, 4,4,7,8-tetram	64130	040614-36-6	35.00
5	trans-.beta.-Ionone	54600	000079-77-6	35.00



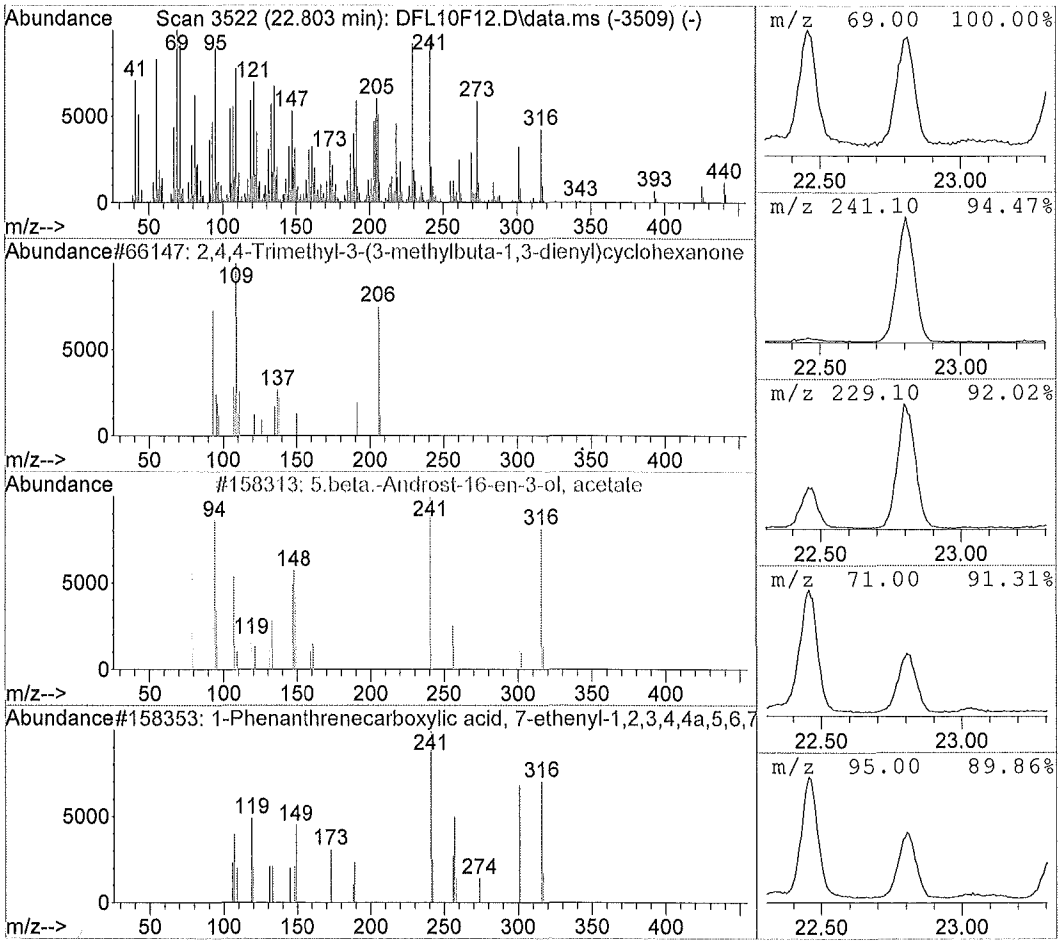
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.80	10.13 ug/ml	4635710	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,4,4-Trimethyl-3-(3-methylbuta-1,3	66147	097452-05-6	46.00
2	5.beta.-Androst-16-en-3-ol, acetate	158313	1000196-50-8	38.00
3	1-Phenanthrenecarboxylic acid, 7-et	158353	003582-26-1	35.00
4	Longipinane, (E)-	66197	1000156-14-5	35.00
5	Kaur-16-en-18-oic acid, methyl este	158326	005524-25-4	30.00



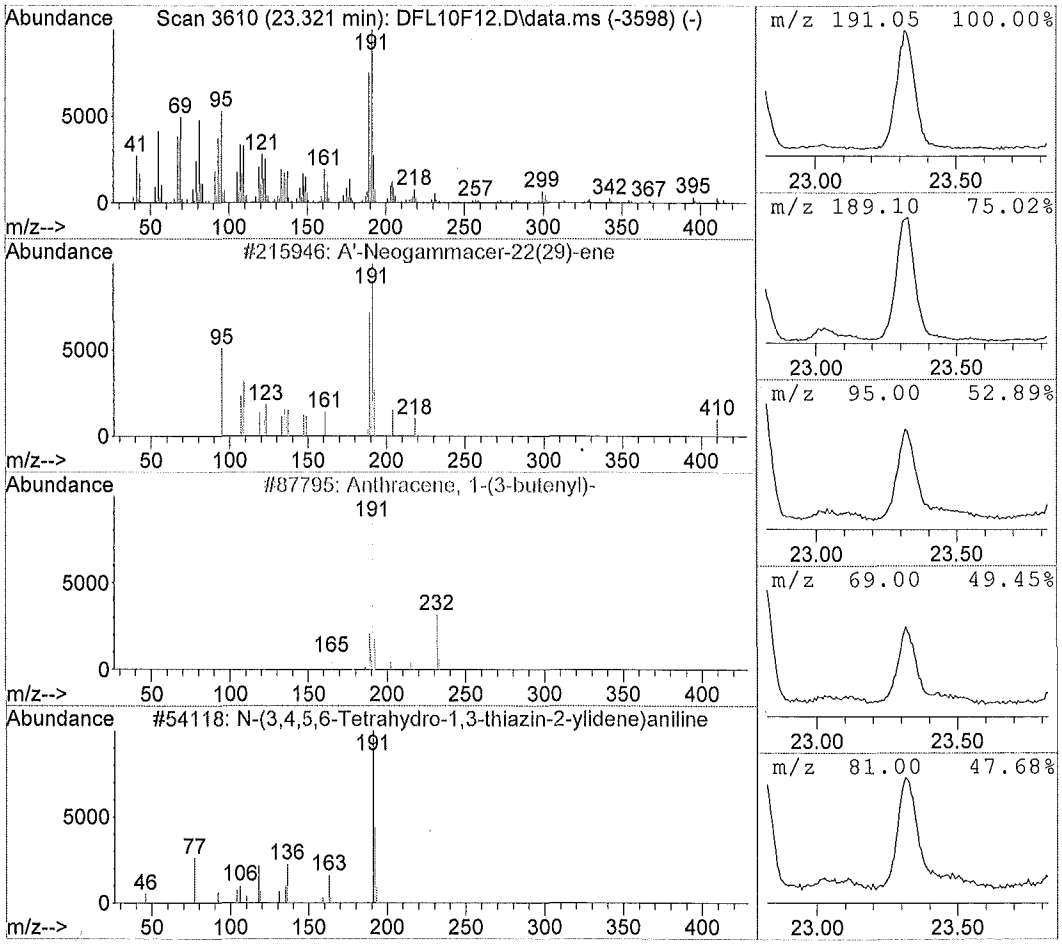
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.32	4.27 ug/ml	1955303	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	A'-Neogammacer-22(29)-ene	215946	001615-91-4	94.00
2	Anthracene, 1-(3-butenyl)-	87795	1000156-51-8	25.00
3	N-(3,4,5,6-Tetrahydro-1,3-thiazin-2	54118	003420-40-4	25.00
4	Amiphenazole	54042	000490-55-1	18.00
5	9-Methyltetracyclo[7.3.1.0(2.7).1(7	64405	1000215-30-5	18.00



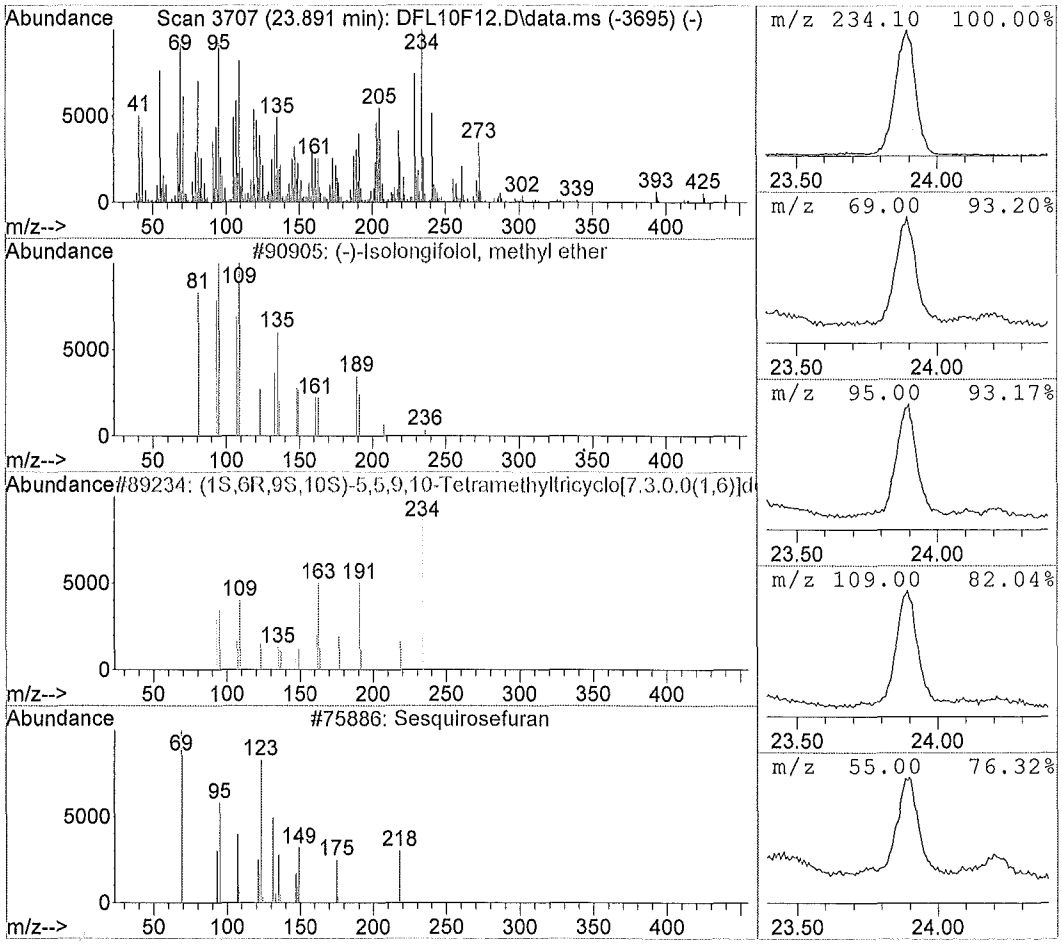
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.89	6.44 ug/ml	2946746	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(-)-Isolongifolol, methyl ether	90905	1000333-80-8	48.00
2	(1S,6R,9S,10S)-5,5,9,10-Tetramethyl	89234	1000298-98-1	38.00
3	Sesquirosefuran	75886	039007-93-7	25.00
4	2-Cyclohexene-1-carboxaldehyde, 2,6	77619	056772-07-7	25.00
5	Furan-2-carboxamide, N-ethyl-N-(3-m	85213	1000308-20-3	18.00



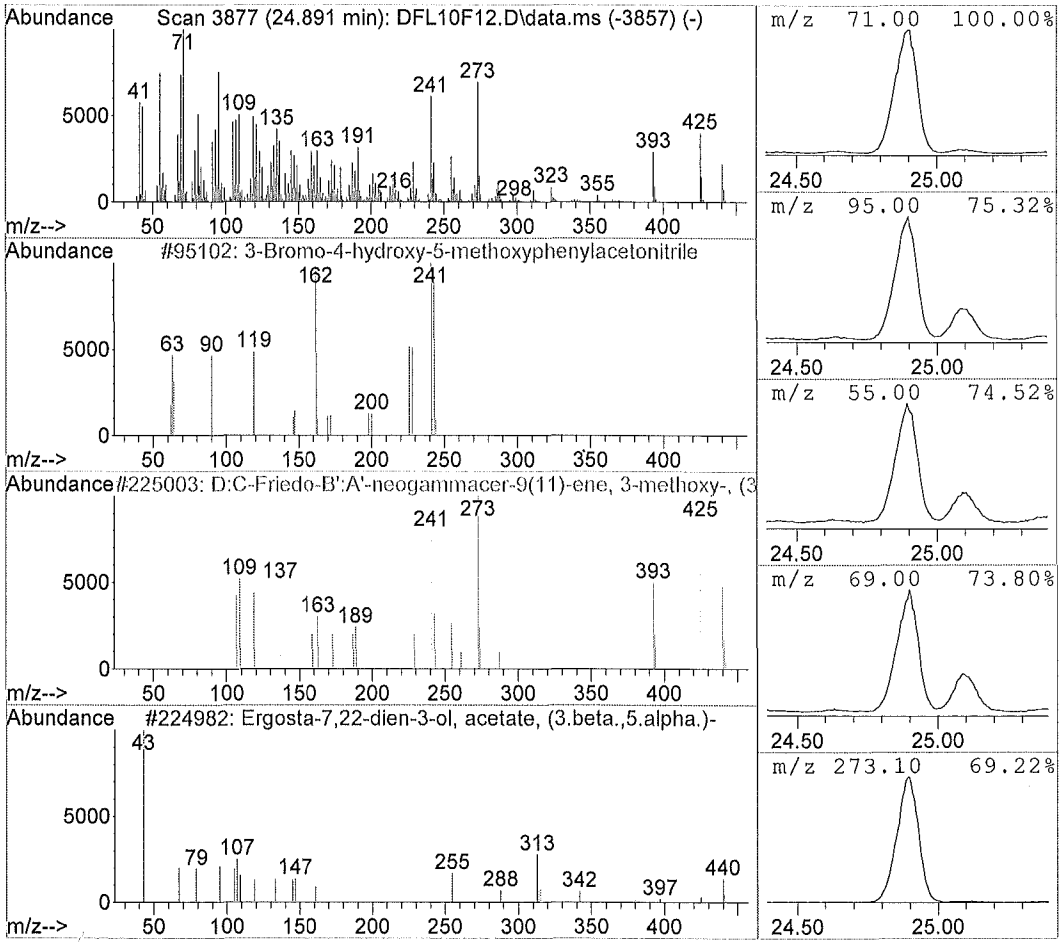
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.89	29.15 ug/ml	13336404	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Bromo-4-hydroxy-5-methoxyphenylac	95102	081038-44-0	53.00
2	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	46.00
3	Ergosta-7,22-dien-3-ol, acetate, (3	224982	001449-60-1	44.00
4	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	38.00
5	Lanosterol	221175	000079-63-0	38.00



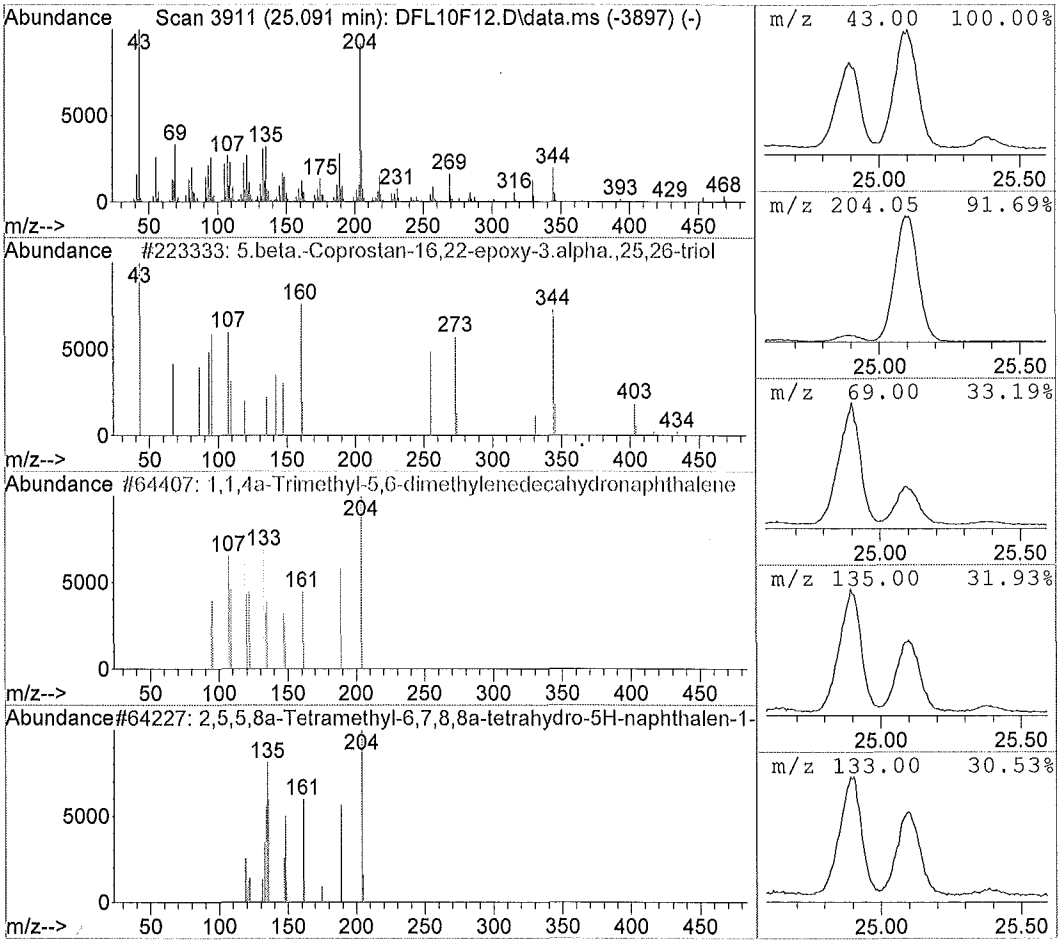
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
25.09	10.77 ug/ml	4926223	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5.beta.-Coprostan-16,22-epoxy-3.alp	223333	006911-23-5	53.00
2	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	50.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	46.00
5	9,11-Epoxytestosterone acetate	179972	1000128-13-7	44.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFM25F13

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.4 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.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFM25F13

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.4 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.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFM25F13

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/28/2015

GPC Cleanup: (Y/N) Y pH: 6.4 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-	3.70	5600	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.31	2100	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

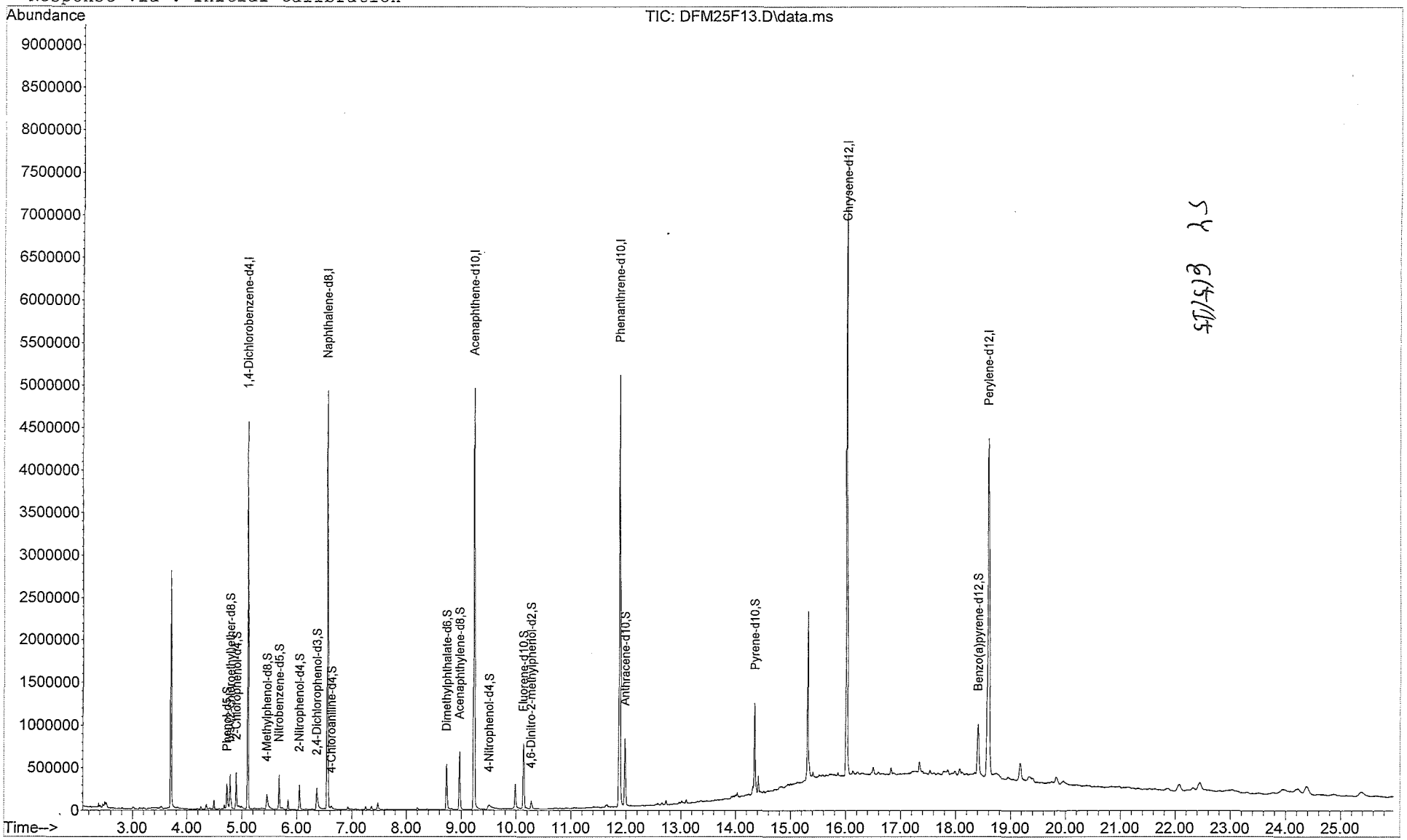
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM25F13.D Vial: 23
Acq On : 05/28/2015 14:18 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 14:44:25 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM25F13.D Vial: 23
Acq On : 05/28/2015 14:18 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 14:44:25 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	814795	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2708178	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1703966	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3030909	20.00 ug/ml
73) Chrysene-d12	16.02	240	3711435	20.00 ug/ml
81) Perylene-d12	18.59	264	3471016	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	144286	2.845ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	104357	2.812ug/mL
7) 2-Chlorophenol-d4	4.90	132	147260	2.913ug/ml
13) 4-Methylphenol-d8	5.45	113	81237	2.137ug/mL
17) Nitrobenzene-d5	5.67	128	67850	3.059ug/ml
21) 2-Nitrophenol-d4	6.05	143	74912	2.848ug/mL
25) 2,4-Dichlorophenol-d3	6.36	165	122806	2.889ug/mL
28) 4-Chloroaniline-d4	6.63	131	18887	0.591ug/mL
42) Dimethylphthalate-d6	8.73	166	370608	3.528ug/mL
45) Acenaphthylene-d8	8.97	160	463184	3.348ug/mL
50) 4-Nitrophenol-d4	9.50	143	37739	2.163ug/mL
57) Fluorene-d10	10.13	176	326530	3.517ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	28201	1.473ug/mL
69) Anthracene-d10	11.98	188	542024	3.491ug/mL
75) Pyrene-d10	14.35	212	556476	3.560ug/mL
86) Benzo(a)pyrene-d12	18.41	264	534552	3.365ug/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)\28MAY15\DFM25F13.D Vial: 23
Acq On : 05/28/2015 14:18 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 28 14:44:25 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

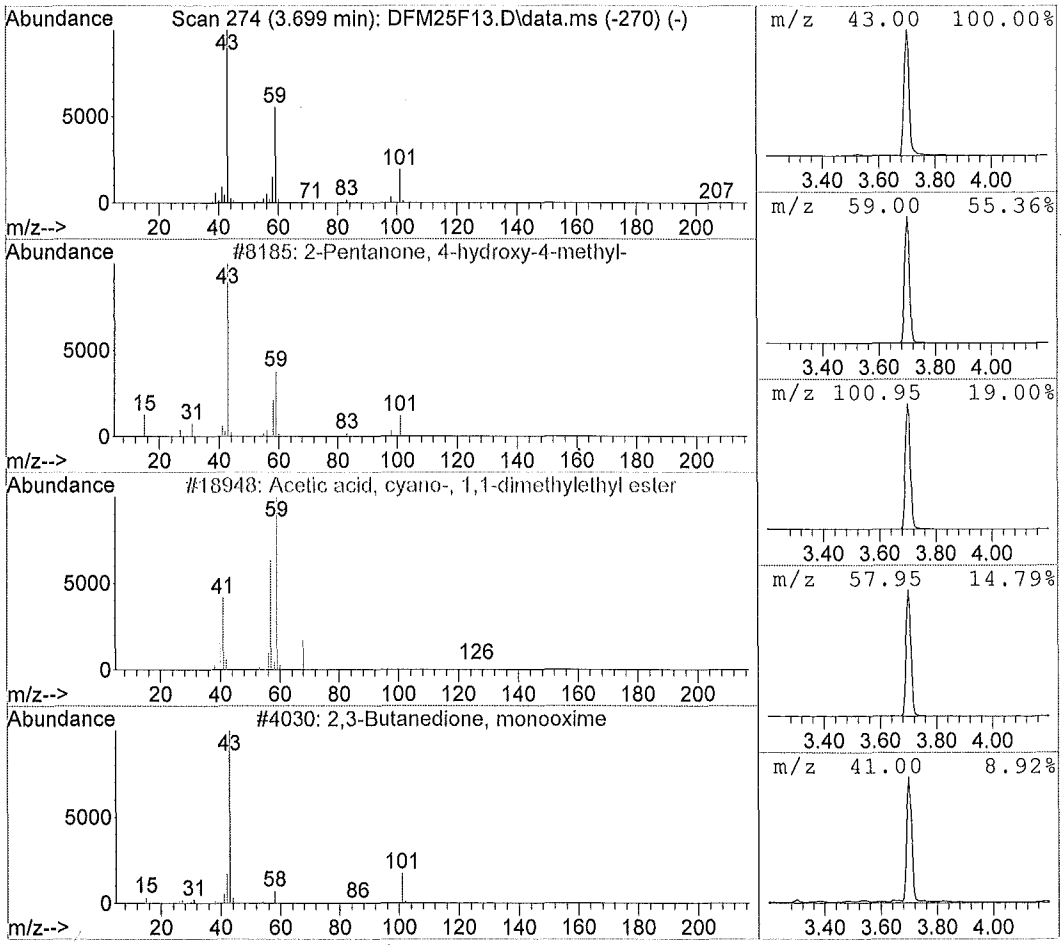
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM25F13.D Vial: 23
Acq On : 05/28/2015 14:18 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	13.80 ug/ml	3361979	1,4-Dichlorobenzene-d4	4871662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	Propane, 1-ethoxy-2-methyl-	4484	000627-02-1	9.00



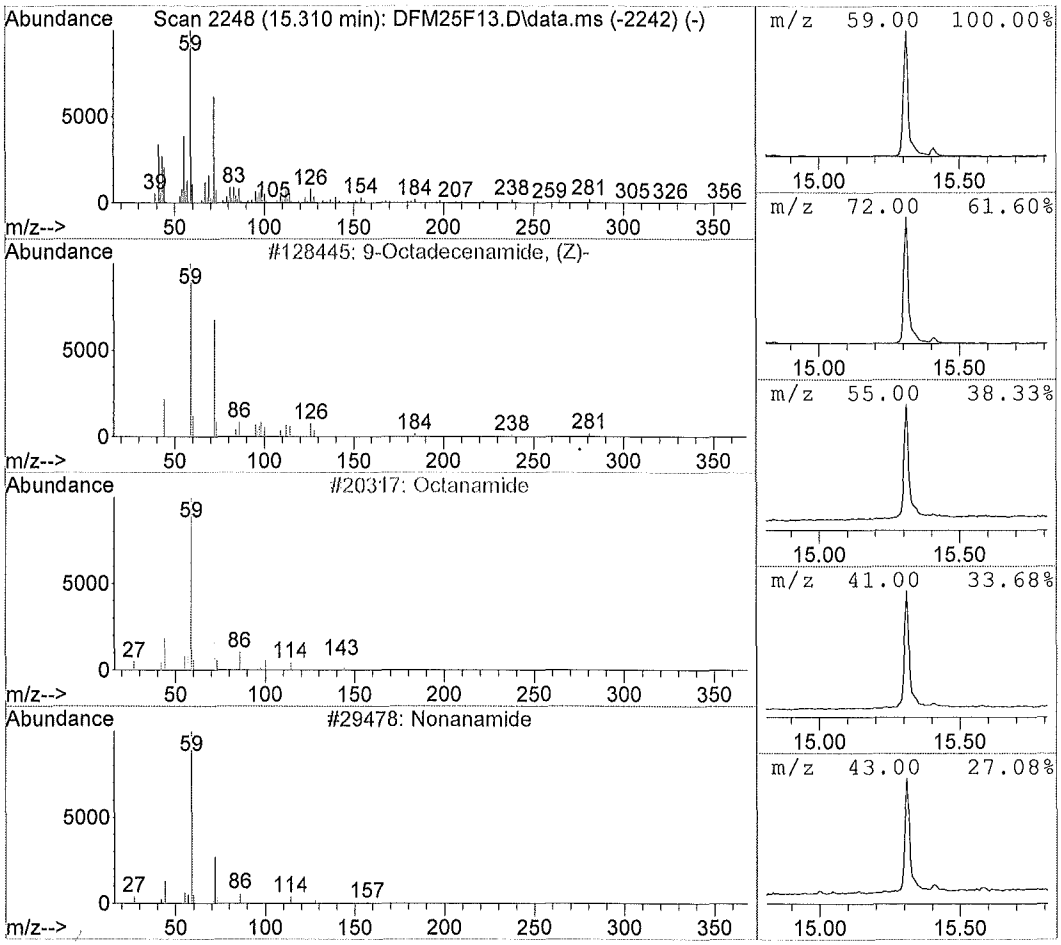
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\28MAY15\DFM25F13.D Vial: 23
Acq On : 05/28/2015 14:18 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	5.28 ug/ml	2569854	Chrysene-d12	9735342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	64.00
3	Nonanamide	29478	001120-07-6	53.00
4	Tetradecanamide	83609	000638-58-4	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.752	0.799	0.821	0.842	0.793	0.801	4.2
Phenol	1.291	1.236	1.382	1.254	1.279	1.288	4.4
Bis(2-chloroethyl)ether	1.044	1.057	1.184	1.076	1.307	1.134	9.9
2-Chlorophenol	1.187	1.134	1.218	1.166	1.184	1.178	2.6
2-Methylphenol	0.991	0.965	1.069	0.956	1.015	0.999	4.5
2,2'-Oxybis(1-chloropropane)	1.694	1.608	1.726	1.589	1.574	1.638	4.1
Acetophenone	1.341	1.420	1.515	1.406	1.440	1.424	4.4
4-Methylphenol	1.035	0.984	1.120	1.013	1.061	1.043	5.0
N-Nitroso-di-n-propylamine	0.705	0.675	0.734	0.688	0.696	0.700	3.2
Hexachloroethane	0.522	0.529	0.580	0.568	0.581	0.556	5.1
Nitrobenzene	0.299	0.303	0.348	0.319	0.339	0.322	6.8
Isophorone	0.522	0.522	0.590	0.546	0.595	0.555	6.5
2-Nitrophenol	0.201	0.188	0.202	0.188	0.199	0.196	3.7
2,4-Dimethylphenol	0.322	0.293	0.326	0.310	0.325	0.315	4.5
Bis(2-chloroethoxy)methane	0.360	0.338	0.376	0.353	0.369	0.359	4.0
2,4-Dichlorophenol	0.312	0.294	0.331	0.315	0.317	0.314	4.2
Naphthalene	0.904	0.937	0.993	0.987	0.965	0.957	3.8
4-Chloroaniline	0.319	0.322	0.302	0.256	0.248	0.290	12.0
Hexachlorobutadiene	0.225	0.228	0.251	0.246	0.250	0.240	5.2
Caprolactam	0.073	0.080	0.092	0.086	0.091	0.084	9.3
4-Chloro-3-methylphenol	0.261	0.241	0.270	0.259	0.281	0.262	5.6
2-Methylnaphthalene	0.643	0.644	0.666	0.641	0.644	0.648	1.6
Hexachlorocyclopentadiene	0.268	0.328	0.453	0.413	0.448	0.382	21.2
2,4,6-Trichlorophenol	0.378	0.365	0.411	0.387	0.419	0.392	5.7
2,4,5-Trichlorophenol	0.396	0.388	0.427	0.398	0.459	0.414	7.1
1,1'-Biphenyl	1.156	1.242	1.391	1.236	1.312	1.267	7.0
2-Chloronaphthalene	0.988	1.013	1.130	1.054	1.116	1.060	5.9
2-Nitroaniline		0.267	0.276	0.268	0.281	0.273	2.5
Dimethylphthalate	1.177	1.173	1.243	1.170	1.202	1.193	2.6
2,6-Dinitrotoluene	0.233	0.243	0.273	0.260	0.288	0.260	8.6
Acenaphthylene	1.555	1.637	1.783	1.681	1.649	1.661	5.0
3-Nitroaniline		0.239	0.197	0.160	0.130	0.182	25.9
Acenaphthene	0.966	1.019	1.084	1.046	1.033	1.030	4.2
2,4-Dinitrophenol		0.119	0.167	0.160	0.192	0.159	19.0
4-Nitrophenol		0.101	0.129	0.119	0.136	0.121	12.6
Dibenzofuran	1.508	1.533	1.565	1.509	1.485	1.520	2.0

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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.312	0.329	0.372	0.355	0.387	0.351	8.7
Diethylphthalate	1.207	1.163	1.294	1.166	1.200	1.206	4.4
Fluorene	1.144	1.197	1.291	1.249	1.138	1.204	5.5
4-Chlorophenyl-phenylether	0.658	0.659	0.694	0.644	0.596	0.650	5.4
4-Nitroaniline		0.256	0.223	0.218	0.209	0.227	9.0
4,6-Dinitro-2-methylphenol		0.122	0.146	0.138	0.157	0.141	10.3
N-Nitrosodiphenylamine[1]	0.489	0.479	0.512	0.465	0.486	0.486	3.6
1,2,4,5-Tetrachlorobenzene	0.618	0.637	0.670	0.623	0.627	0.635	3.3
4-Bromophenyl-phenylether	0.236	0.230	0.244	0.230	0.238	0.236	2.4
Hexachlorobenzene	0.235	0.238	0.257	0.243	0.271	0.249	6.0
Atrazine	0.184	0.197	0.216	0.196	0.206	0.200	6.0
Pentachlorophenol		0.094	0.139	0.132	0.155	0.130	19.7
Phenanthrene	0.950	0.993	1.061	1.000	0.998	1.000	4.0
Anthracene	0.972	1.024	1.093	1.029	1.027	1.029	4.2
Carbazole	0.837	0.861	0.879	0.830	0.767	0.835	5.1
Di-n-butylphthalate	1.170	1.127	1.232	1.132	1.152	1.163	3.6
Fluoranthene	1.093	1.144	1.228	1.149	1.122	1.147	4.4
Pyrene	1.006	1.054	1.133	1.030	0.976	1.040	5.7
Butylbenzylphthalate	0.430	0.426	0.472	0.437	0.464	0.446	4.6
3,3'-Dichlorobenzidine	0.343	0.360	0.365	0.351	0.292	0.342	8.5
Benzo(a)anthracene	1.023	1.052	1.125	1.036	1.019	1.051	4.1
Chrysene	0.921	0.968	1.013	0.931	0.909	0.948	4.5
Bis(2-ethylhexyl)phthalate	0.679	0.671	0.720	0.682	0.693	0.689	2.7
Di-n-octylphthalate	1.142	1.139	1.275	1.194	1.151	1.180	4.9
Benzo(b)fluoranthene	1.002	1.024	1.162	1.076	1.074	1.067	5.8
Benzo(k)fluoranthene	0.964	1.060	1.086	1.095	1.012	1.043	5.3
Benzo(a)pyrene	0.961	1.016	1.088	1.058	1.055	1.036	4.7
Indeno(1,2,3-cd)pyrene	0.890	0.941	1.034	1.004	1.079	0.990	7.6
Dibenzo(a,h)anthracene	0.907	0.977	1.057	1.044	1.115	1.020	7.8
Benzo(g,h,i)perylene	0.910	0.965	1.048	1.014	1.066	1.001	6.3
2,3,4,6-Tetrachlorophenol	0.315	0.315	0.355	0.342	0.370	0.339	7.1

[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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

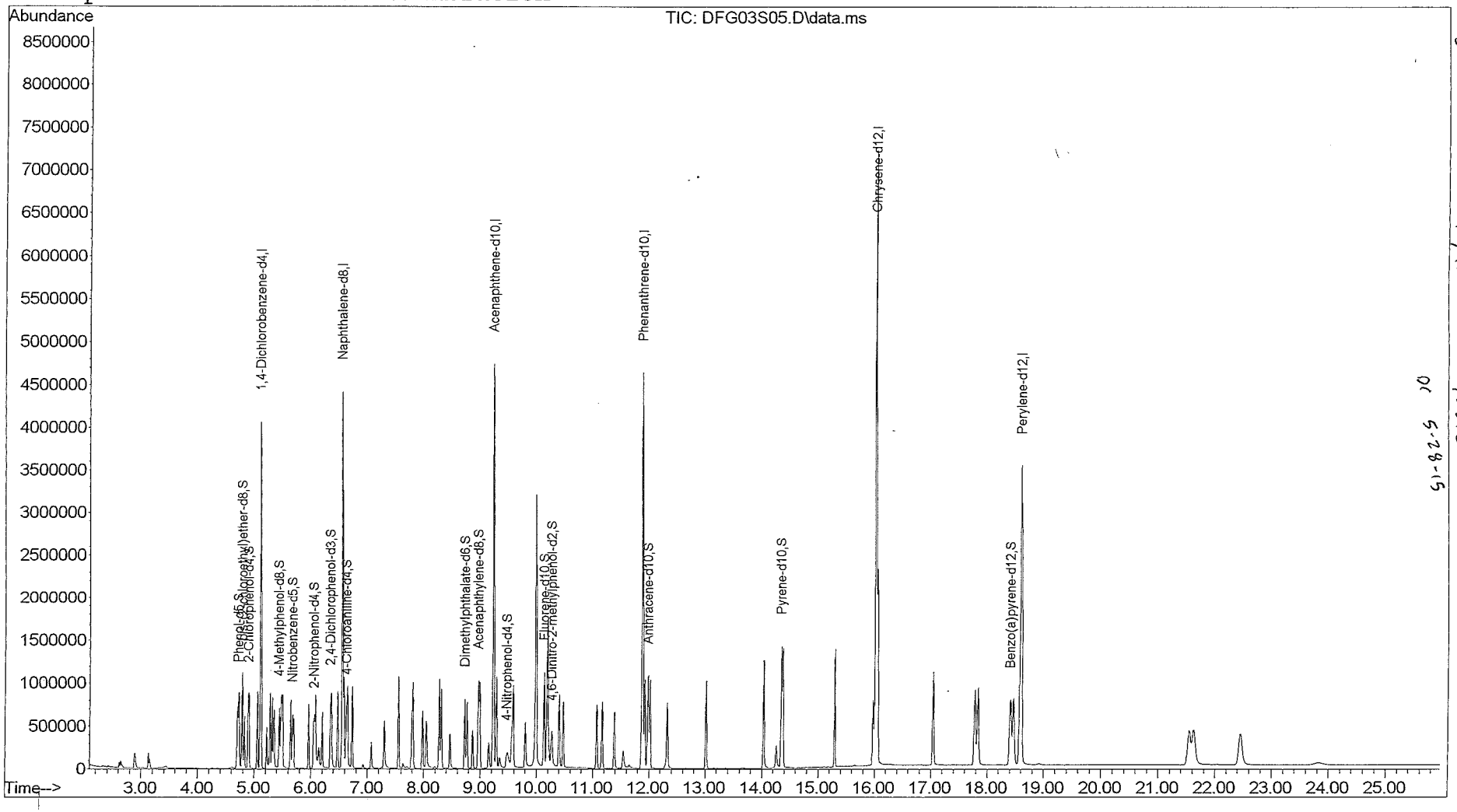
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.239	1.221	1.279	1.263	1.222	1.245	2.1
Bis(2-chloroethyl)ether-d8	0.919	0.896	0.934	0.906	0.900	0.911	1.7
2-Chlorophenol-d4	1.234	1.206	1.258	1.271	1.234	1.241	2.0
4-Methylphenol-d8	0.915	0.893	0.956	0.960	0.942	0.933	3.1
Nitrobenzene-d5	0.159	0.154	0.163	0.169	0.173	0.164	4.7
2-Nitrophenol-d4	0.202	0.195	0.188	0.191	0.196	0.194	2.8
2,4-Dichlorophenol-d3	0.312	0.303	0.319	0.319	0.316	0.314	2.1
4-Chloroaniline-d4	0.287	0.265	0.220	0.209	0.198	0.236	16.2
Dimethylphthalate-d6	1.219	1.194	1.224	1.262	1.266	1.233	2.5
Acenaphthylene-d8	1.604	1.569	1.667	1.633	1.646	1.624	2.4
4-Nitrophenol-d4		0.180	0.211	0.205	0.223	0.205	8.8
Fluorene-d10	1.080	1.053	1.101	1.098	1.117	1.090	2.2
4,6-Dinitro-2-methylphenol-d2		0.108	0.128	0.128	0.142	0.126	11.2
Anthracene-d10	1.038	0.994	1.041	1.014	1.036	1.025	2.0
Pyrene-d10	0.849	0.826	0.863	0.830	0.844	0.842	1.7
Benzo(a)pyrene-d12	0.901	0.881	0.922	0.926	0.947	0.915	2.7

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Original with SDG: F9K50 Case: 45316
JC 5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	758573	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2572476	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1621114	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2821882	20.00 ug/ml
73) Chrysene-d12	16.02	240	3306592	20.00 ug/ml
81) Perylene-d12	18.60	264	3150553	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	234979	4.977ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	174296	5.045ug/mL
7) 2-Chlorophenol-d4	4.89	132	234066	4.974ug/ml
13) 4-Methylphenol-d8	5.44	113	173446	4.901ug/mL
17) Nitrobenzene-d5	5.67	128	102467	4.863ug/ml
21) 2-Nitrophenol-d4	6.05	143	129734	5.192ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	200824	4.974ug/mL
28) 4-Chloroaniline-d4	6.62	131	184293	6.075ug/mL
42) Dimethylphthalate-d6	8.73	166	494153	4.944ug/mL
45) Acenaphthylene-d8	8.97	160	650178	4.940ug/mL
50) 4-Nitrophenol-d4	9.47	143	67963	4.094ug/mL
57) Fluorene-d10	10.13	176	437716	4.956ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	72375	4.061ug/mL
69) Anthracene-d10	11.98	188	732241	5.065ug/mL
75) Pyrene-d10	14.34	212	701680	5.039ug/mL
86) Benzo(a)pyrene-d12	18.41	264	709752	4.923ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	142677	4.694ug/ml	95
4) Phenol	4.73	94	244828	5.010ug/ml	87
5) Bis(2-chloroethyl)ether	4.83	93	197923	4.603ug/ml	99
8) 2-Chlorophenol	4.90	128	225082	5.039ug/ml	100
9) 2-Methylphenol	5.32	108	187998	4.961ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	321348	5.172ug/ml	100
11) Acetophenone	5.50	105	254395	4.709ug/ml	92
12) 4-methylphenol	5.47	108	196349	4.965ug/ml	98
14) N-Nitroso-di-n-propylamine	5.48	70	133646	5.037ug/ml	82
15) Hexachloroethane	5.64	117	99044	4.695ug/ml	79
18) Nitrobenzene	5.69	77	192331	4.649ug/ml	98
19) Isophorone	5.96	82	335430	4.700ug/ml	94
20) 2-Nitrophenol	6.06	139	129228	5.139ug/ml	94
22) 2,4-Dimethylphenol	6.08	107	206781	5.100ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	231332	5.008ug/ml	98
24) 2,4-Dichlorophenol	6.36	162	200964	4.977ug/ml	94
26) Naphthalene	6.58	128	581655	4.724ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.63	127	205117	5.508ug/ml	99
29)	Hexachlorobutadiene	6.73	225	144884	4.690ug/ml	99
30)	Caprolactam	7.07	113	47166	4.352ug/ml	94
31)	4-Chloro-3-methylphenol	7.30	107	168088	4.979ug/ml	93
32)	2-Methylnaphthalene	7.55	142	413699	4.967ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.80	216	250500	4.868ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	108596	3.508ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	153005	4.816ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	160329	4.783ug/ml	100
38)	1,1'-Biphenyl	8.27	154	468388	4.560ug/ml	96
39)	2-Chloronaphthalene	8.31	162	400383	4.660ug/ml	90
40)	2-Nitroaniline	8.46	65	103531	4.679ug/ml	99
41)	Dimethylphthalate	8.77	163	476883	4.932ug/ml	98
43)	2,6-Dinitrotoluene	8.87	165	94538	4.491ug/ml	93
44)	Acenaphthylene	8.99	152	630179	4.681ug/ml	99
46)	3-Nitroaniline	9.15	138	95742	6.506ug/ml	91
47)	Acenaphthene	9.29	153	391572	4.692ug/ml	92
48)	2,4-Dinitrophenol	9.35	184	40614	3.145ug/ml	100
49)	4-Nitrophenol	9.48	109	38133	3.874ug/ml	87
51)	Dibenzofuran	9.59	168	611158	4.960ug/ml	94
52)	2,4-Dinitrotoluene	9.56	165	126403	4.444ug/ml	74
53)	2,3,4,6-Tetrachlorophenol	9.80	232	127564	4.638ug/mL	93
54)	Diethylphthalate	10.00	149	489221	5.005ug/ml	100
55)	4-Chlorophenyl-phenylether	10.19	204	266677	5.060ug/ml	88
56)	Fluorene	10.19	166	463791	4.752ug/ml	99
58)	4-Nitroaniline	10.22	138	96926	5.277ug/ml	82
60)	4,6-Dinitro-2-methylphenol	10.28	198	81587	4.107ug/ml	90
62)	N-Nitrosodiphenylamine	10.40	169	344799	5.026ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	166485	5.006ug/ml	86
64)	Hexachlorobenzene	11.17	284	165679	4.722ug/ml	81
65)	Atrazine	11.39	200	129622	4.599ug/ml	97
66)	Pentachlorophenol	11.55	266	59007	3.222ug/ml	94
67)	Phenanthrene	11.92	178	670228	4.748ug/ml	99
68)	Anthracene	12.02	178	685531	4.722ug/ml	98
70)	Carbazole	12.32	167	590489	5.014ug/mL	97
71)	Di-n-butylphthalate	13.02	149	825422	5.032ug/ml	99
72)	Fluoranthene	14.03	202	770747	4.762ug/ml	88
74)	Pyrene	14.37	202	831677	4.838ug/ml	86
76)	Butylbenzylphthalate	15.29	149	355510	4.822ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	283661	5.012ug/ml	94
78)	Benzo(a)anthracene	16.00	228	845758	4.868ug/ml	98
79)	Chrysene	16.06	228	761442	4.857ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	561377	4.928ug/ml	100

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

Quantitation Report

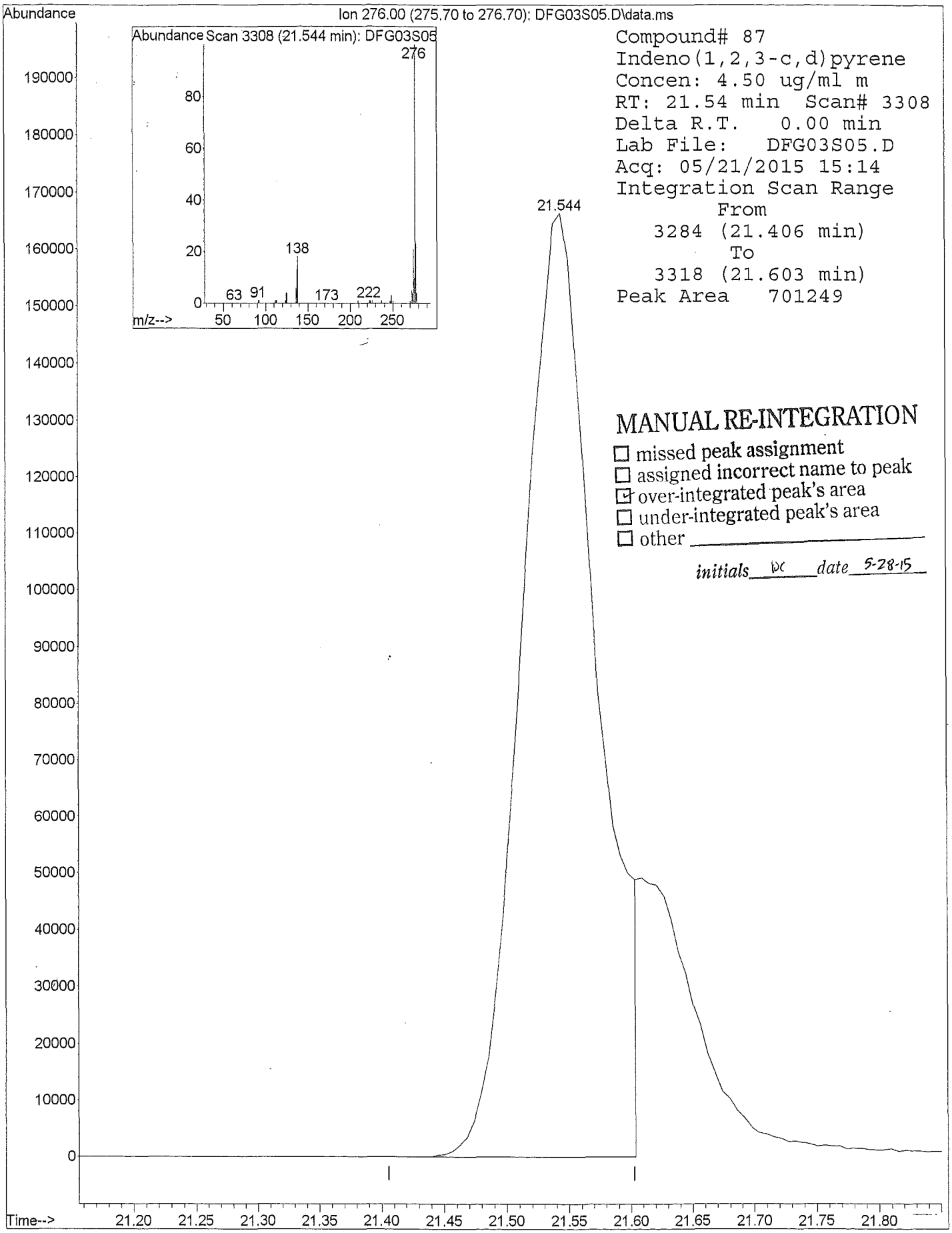
Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
82)	Di-n-octylphthalate	17.04	149	899814	4.839ug/ml		99
83)	Benzo(b)fluoranthene	17.78	252	789346	4.694ug/ml		92
84)	Benzo(k)fluoranthene	17.83	252	759077	4.619ug/ml		93
85)	Benzo(a)pyrene	18.46	252	756783	4.639ug/ml		92
87)	Indeno(1,2,3-c,d)pyrene	21.54	276	701249	4.498ug/ml	m	67
88)	Dibenzo(a,h)anthracene	21.62	278	714733	4.448ug/ml	DC 5-28-15	89
89)	Benzo(g,h,i)perylene	22.45	276	717029	4.549ug/ml		85

(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



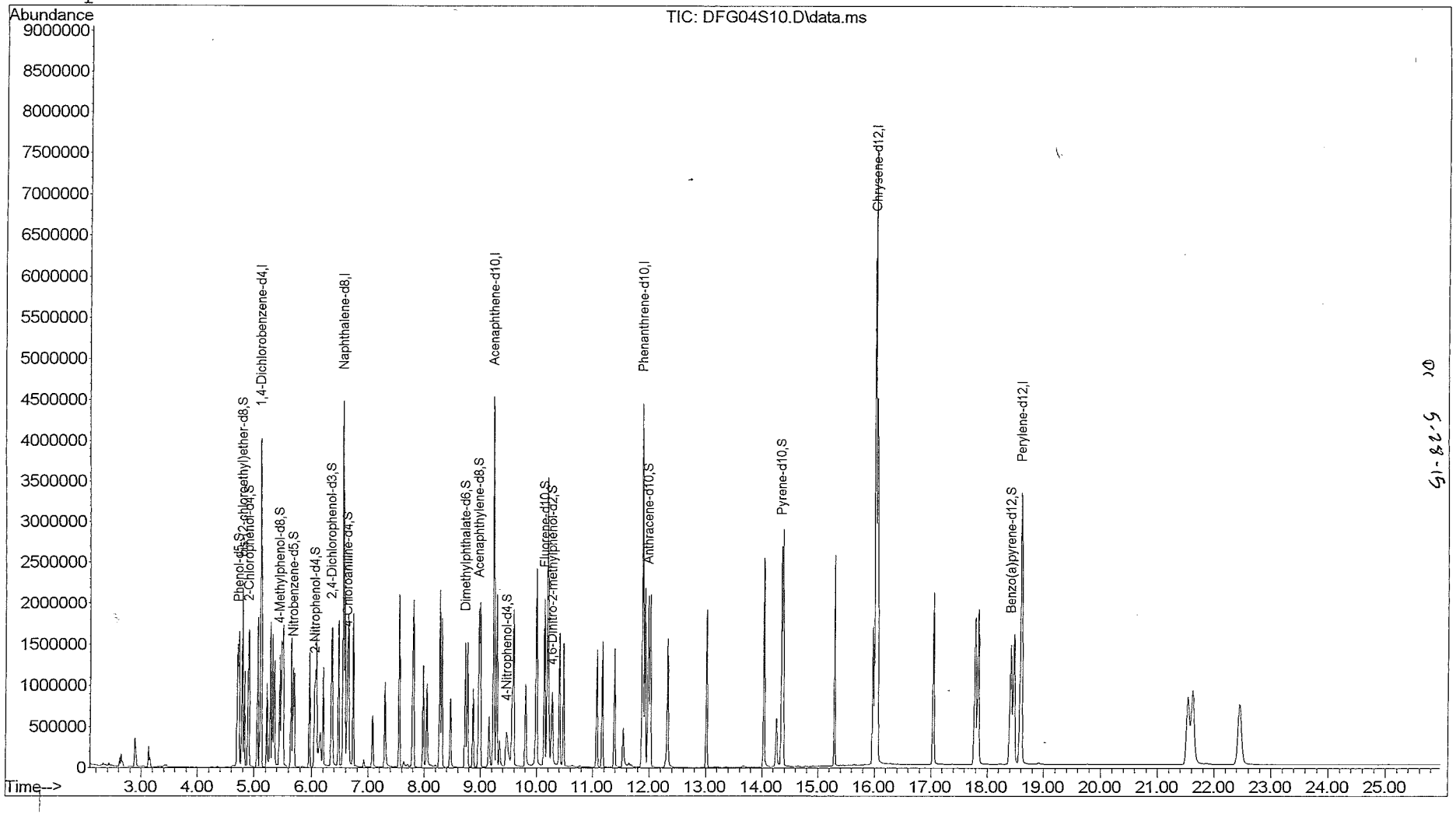
DSOM01D5.M 5975-D DSOM01D5.M SSTD005DG 28102 . X6-19-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	738162	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2525010	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1550636	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2750825	20.00 ug/ml
73) Chrysene-d12	16.02	240	3201443	20.00 ug/ml
81) Perylene-d12	18.59	264	3000024	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	450506	9.806ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	330621	9.835ug/mL
7) 2-Chlorophenol-d4	4.89	132	445266	9.724ug/ml
13) 4-Methylphenol-d8	5.44	113	329468	9.567ug/mL
17) Nitrobenzene-d5	5.67	128	194251	9.393ug/ml
21) 2-Nitrophenol-d4	6.05	143	246025	10.031ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	382694	9.656ug/mL
28) 4-Chloroaniline-d4	6.62	131	334937	11.249ug/mL
42) Dimethylphthalate-d6	8.73	166	925637	9.682ug/mL
45) Acenaphthylene-d8	8.97	160	1216242	9.661ug/mL
50) 4-Nitrophenol-d4	9.46	143	139773	8.802ug/mL
57) Fluorene-d10	10.13	176	816226	9.662ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	147903	8.514ug/mL
69) Anthracene-d10	11.98	188	1367281	9.702ug/mL
75) Pyrene-d10	14.34	212	1322068	9.806ug/mL
86) Benzo(a)pyrene-d12	18.41	264	1321112	9.623ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	294880	9.969ug/ml	96
4) Phenol	4.73	94	456042	9.590ug/ml	87
5) Bis(2-chloroethyl)ether	4.83	93	390103	9.323ug/ml	96
8) 2-Chlorophenol	4.90	128	418593	9.630ug/ml	99
9) 2-Methylphenol	5.32	108	356031	9.654ug/ml	96
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	593362	9.813ug/ml	100
11) Acetophenone	5.50	105	523949	9.966ug/ml	95
12) 4-methylphenol	5.47	108	363049	9.435ug/ml	99
14) N-Nitroso-di-n-propylamine	5.49	70	249126	9.648ug/ml	82
15) Hexachloroethane	5.64	117	195355	9.517ug/ml	77
18) Nitrobenzene	5.70	77	382344	9.416ug/ml	98
19) Isophorone	5.96	82	658792	9.405ug/ml	94
20) 2-Nitrophenol	6.06	139	236790	9.593ug/ml	94
22) 2,4-Dimethylphenol	6.08	107	369587	9.287ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	427283	9.424ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	371392	9.371ug/ml	95
26) Naphthalene	6.58	128	1183463	9.793ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.63	127	406350	11.116ug/ml	99
29)	Hexachlorobutadiene	6.73	225	288029	9.500ug/ml	99
30)	Caprolactam	7.08	113	100418	9.441ug/ml	98
31)	4-Chloro-3-methylphenol	7.30	107	304516	9.189ug/ml	93
32)	2-Methylnaphthalene	7.55	142	812538	9.938ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.80	216	494239	10.040ug/mL	95
35)	Hexachlorocyclopentadiene	7.79	237	254659	8.599ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	283168	9.318ug/ml	98
37)	2,4,5-Trichlorophenol	8.05	196	300662	9.377ug/ml	99
38)	1,1'-Biphenyl	8.27	154	962846	9.800ug/ml	96
39)	2-Chloronaphthalene	8.31	162	785060	9.552ug/ml	89
40)	2-Nitroaniline	8.46	65	207298	9.794ug/ml	97
41)	Dimethylphthalate	8.77	163	909312	9.831ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	188573	9.366ug/ml	93
44)	Acenaphthylene	8.99	152	1269274	9.857ug/ml	99
46)	3-Nitroaniline	9.15	138	185286	13.162ug/ml	90
47)	Acenaphthene	9.29	153	790354	9.900ug/ml	92
48)	2,4-Dinitrophenol	9.34	184	92158	7.461ug/ml	100
49)	4-Nitrophenol	9.47	109	78336	8.319ug/ml	94
51)	Dibenzofuran	9.59	168	1188836	10.087ug/ml	95
52)	2,4-Dinitrotoluene	9.56	165	255422	9.389ug/ml	77
53)	2,3,4,6-Tetrachlorophenol	9.80	232	244349	9.288ug/mL	92
54)	Diethylphthalate	10.00	149	901660	9.644ug/ml	100
55)	4-Chlorophenyl-phenylether	10.19	204	510901	10.134ug/ml	88
56)	Fluorene	10.19	166	927937	9.940ug/ml	98
58)	4-Nitroaniline	10.22	138	198427	11.295ug/ml	79
60)	4,6-Dinitro-2-methylphenol	10.28	198	168450	8.698ug/ml	88
62)	N-Nitrosodiphenylamine	10.40	169	658929	9.853ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	317004	9.778ug/ml	86
64)	Hexachlorobenzene	11.17	284	326757	9.553ug/ml	81
65)	Atrazine	11.39	200	271272	9.874ug/ml	98
66)	Pentachlorophenol	11.54	266	129776	7.269ug/ml	99
67)	Phenanthrene	11.92	178	1365128	9.920ug/ml	99
68)	Anthracene	12.02	178	1408947	9.955ug/ml	99
70)	Carbazole	12.32	167	1184066	10.314ug/mL	97
71)	Di-n-butylphthalate	13.02	149	1550138	9.695ug/ml	99
72)	Fluoranthene	14.03	202	1573970	9.975ug/ml	87
74)	Pyrene	14.37	202	1687332	10.137ug/ml	86
76)	Butylbenzylphthalate	15.29	149	682605	9.563ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	575615	10.505ug/ml	95
78)	Benzo(a)anthracene	16.00	228	1683678	10.009ug/ml	98
79)	Chrysene	16.05	228	1550242	10.212ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	1074408	9.742ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	1708363	9.649ug/ml	98
83) Benzo(b)fluoranthene	17.78	252	1536097	9.593ug/ml	93
84) Benzo(k)fluoranthene	17.83	252	1590334	10.162ug/ml	93
85) Benzo(a)pyrene	18.47	252	1524007	9.811ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.53	276	1411762	9.509ug/ml	74
88) Dibenzo(a,h)anthracene	21.62	278	1465626	9.579ug/ml	89
89) Benzo(g,h,i)perylene	22.44	276	1447901	9.646ug/ml	85

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

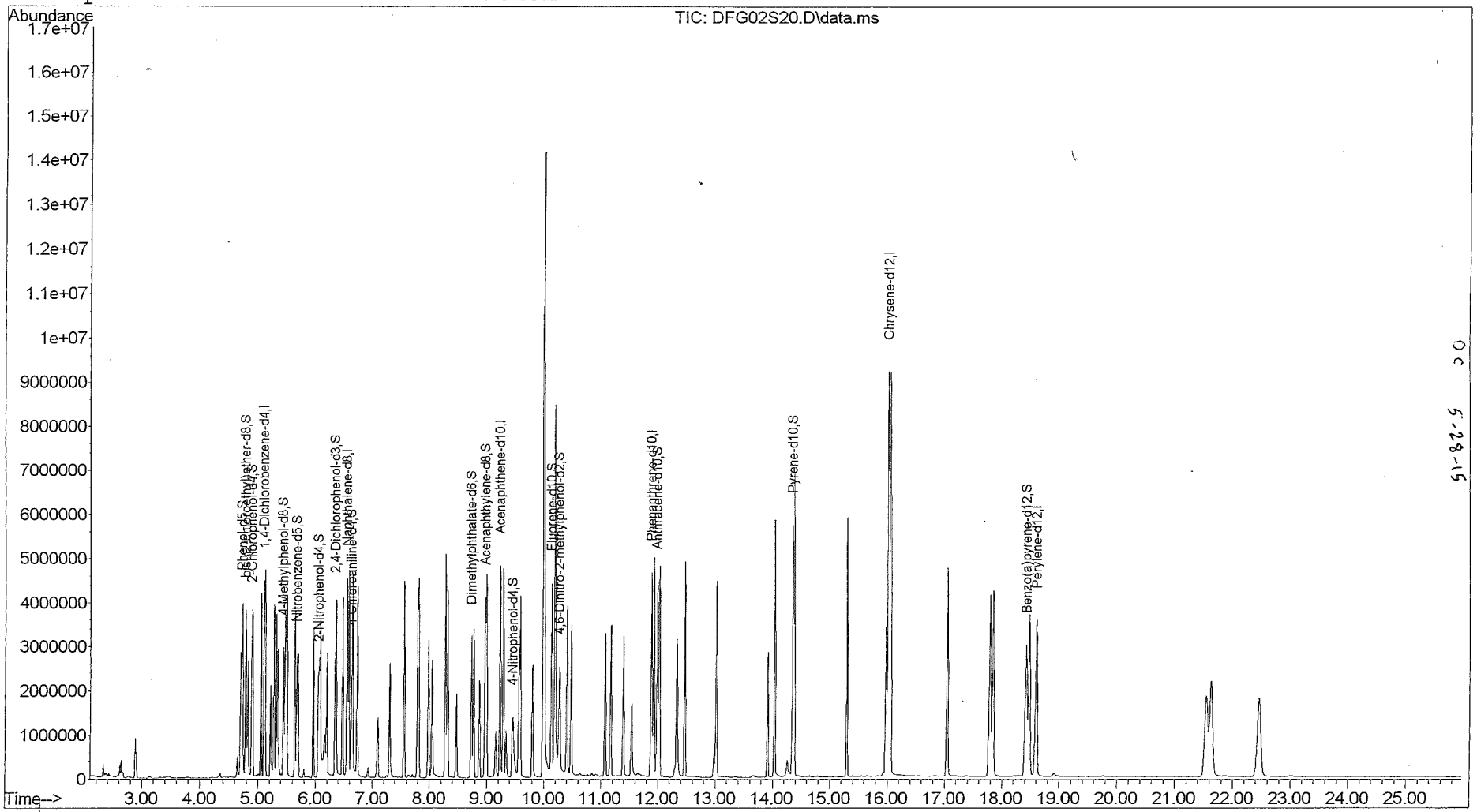
00357

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	781412	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2629741	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1633186	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2882940	20.00 ug/ml
73) Chrysene-d12	16.02	240	3323908	20.00 ug/ml
81) Perylene-d12	18.60	264	3091076	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	999362	20.549ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	729649	20.504ug/mL
7) 2-Chlorophenol-d4	4.89	132	983364	20.286ug/ml
13) 4-Methylphenol-d8	5.44	113	746853	20.487ug/mL
17) Nitrobenzene-d5	5.67	128	429946	19.961ug/ml
21) 2-Nitrophenol-d4	6.05	143	494008	19.341ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	839936	20.349ug/mL
28) 4-Chloroaniline-d4	6.63	131	578754	18.663ug/mL
42) Dimethylphthalate-d6	8.73	166	1998566	19.848ug/mL
45) Acenaphthylene-d8	8.97	160	2722135	20.531ug/mL
50) 4-Nitrophenol-d4	9.45	143	345165	20.639ug/mL
57) Fluorene-d10	10.13	176	1798224	20.210ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	368308	20.230ug/mL
69) Anthracene-d10	11.98	188	3000986	20.318ug/mL
75) Pyrene-d10	14.35	212	2866880	20.481ug/mL
86) Benzo(a)pyrene-d12	18.42	264	2850649	20.152ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	641734	20.494ug/ml	91
4) Phenol	4.73	94	1080276	21.459ug/ml	91
5) Bis(2-chloroethyl)ether	4.83	93	925407	20.892ug/ml	93
8) 2-Chlorophenol	4.90	128	951491	20.678ug/ml	99
9) 2-Methylphenol	5.32	108	835019	21.390ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1349054	21.076ug/ml	100
11) Acetophenone	5.50	105	1184118	21.276ug/ml	90
12) 4-methylphenol	5.47	108	875045	21.482ug/ml	98
14) N-Nitroso-di-n-propylamine	5.49	70	573887	20.995ug/ml	82
15) Hexachloroethane	5.64	117	453551	20.873ug/ml	76
18) Nitrobenzene	5.70	77	915798	21.654ug/ml	96
19) Isophorone	5.96	82	1551844	21.272ug/ml	95
20) 2-Nitrophenol	6.06	139	531385	20.669ug/ml	91
22) 2,4-Dimethylphenol	6.08	107	857907	20.699ug/ml	92
23) Bis(2-chloroethoxy)methane	6.20	93	987485	20.911ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	870623	21.093ug/ml	96
26) Naphthalene	6.58	128	2610773	20.744ug/ml	99

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

: 00359

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.64	127	794752	20.875ug/ml	96
29) Hexachlorobutadiene	6.73	225	658920	20.867ug/ml	99
30) Caprolactam	7.10	113	241887	21.835ug/ml	96
31) 4-Chloro-3-methylphenol	7.30	107	710977	20.600ug/ml	93
32) 2-Methylnaphthalene	7.55	142	1752169	20.577ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.80	216	1093546	21.092ug/mL	97
35) Hexachlorocyclopentadiene	7.79	237	739731	23.716ug/ml	98
36) 2,4,6-Trichlorophenol	7.98	196	671107	20.968ug/ml	99
37) 2,4,5-Trichlorophenol	8.04	196	697541	20.655ug/ml	99
38) 1,1'-Biphenyl	8.27	154	2271206	21.947ug/ml	97
39) 2-Chloronaphthalene	8.31	162	1844942	21.314ug/ml	89
40) 2-Nitroaniline	8.47	65	450368	20.202ug/ml	97
41) Dimethylphthalate	8.77	163	2030821	20.846ug/ml	99
43) 2,6-Dinitrotoluene	8.87	165	446485	21.055ug/ml	93
44) Acenaphthylene	9.00	152	2911489	21.467ug/ml	99
46) 3-Nitroaniline	9.16	138	321988	21.717ug/ml	94
47) Acenaphthene	9.29	153	1769568	21.045ug/ml	93
48) 2,4-Dinitrophenol	9.34	184	272471	20.944ug/ml	100
49) 4-Nitrophenol	9.46	109	210440	21.219ug/ml	98
51) Dibenzofuran	9.59	168	2556646	20.596ug/ml	94
52) 2,4-Dinitrotoluene	9.56	165	606928	21.183ug/ml	81
53) 2,3,4,6-Tetrachlorophenol	9.80	232	579733	20.922ug/mL	91
54) Diethylphthalate	10.00	149	2112582	21.454ug/ml	100
55) 4-Chlorophenyl-phenylether	10.20	204	1132964	21.336ug/ml	89
56) Fluorene	10.19	166	2109062	21.451ug/ml	99
58) 4-Nitroaniline	10.22	138	364529	19.701ug/ml	75
60) 4,6-Dinitro-2-methylphenol	10.28	198	419588	20.672ug/ml	91
62) N-Nitrosodiphenylamine	10.40	169	1477036	21.075ug/ml	98
63) 4-Bromophenyl-phenyl ether	11.07	248	702835	20.686ug/ml	86
64) Hexachlorobenzene	11.17	284	740599	20.660ug/ml	82
65) Atrazine	11.39	200	621666	21.591ug/ml	99
66) Pentachlorophenol	11.54	266	399947	21.374ug/ml	97
67) Phenanthrene	11.92	178	3059449	21.214ug/ml	99
68) Anthracene	12.02	178	3151733	21.247ug/ml	99
70) Carbazole	12.32	167	2534276	21.063ug/mL	97
71) Di-n-butylphthalate	13.02	149	3550475	21.187ug/ml	99
72) Fluoranthene	14.03	202	3538921	21.401ug/ml	88
74) Pyrene	14.37	202	3764890	21.786ug/ml	87
76) Butylbenzylphthalate	15.29	149	1569968	21.185ug/ml	94
77) 3,3'-Dichlorobenzidine	15.97	252	1213938	21.338ug/ml	95
78) Benzo(a)anthracene	16.01	228	3739232	21.409ug/ml	97
79) Chrysene	16.06	228	3366283	21.359ug/ml	97
80) Bis-(2-ethylhexyl)phthalat	16.04	149	2391774	20.888ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	3940901	21.602ug/ml	99
83) Benzo(b)fluoranthene	17.79	252	3590854	21.765ug/ml	92
84) Benzo(k)fluoranthene	17.84	252	3357774	20.824ug/ml	92
85) Benzo(a)pyrene	18.47	252	3361975	21.005ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.54	276	3196533	20.896ug/ml	75
88) Dibenzo(a,h)anthracene	21.63	278	3265734	20.716ug/ml	89
89) Benzo(g,h,i)perylene	22.46	276	3239476	20.946ug/ml	85

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

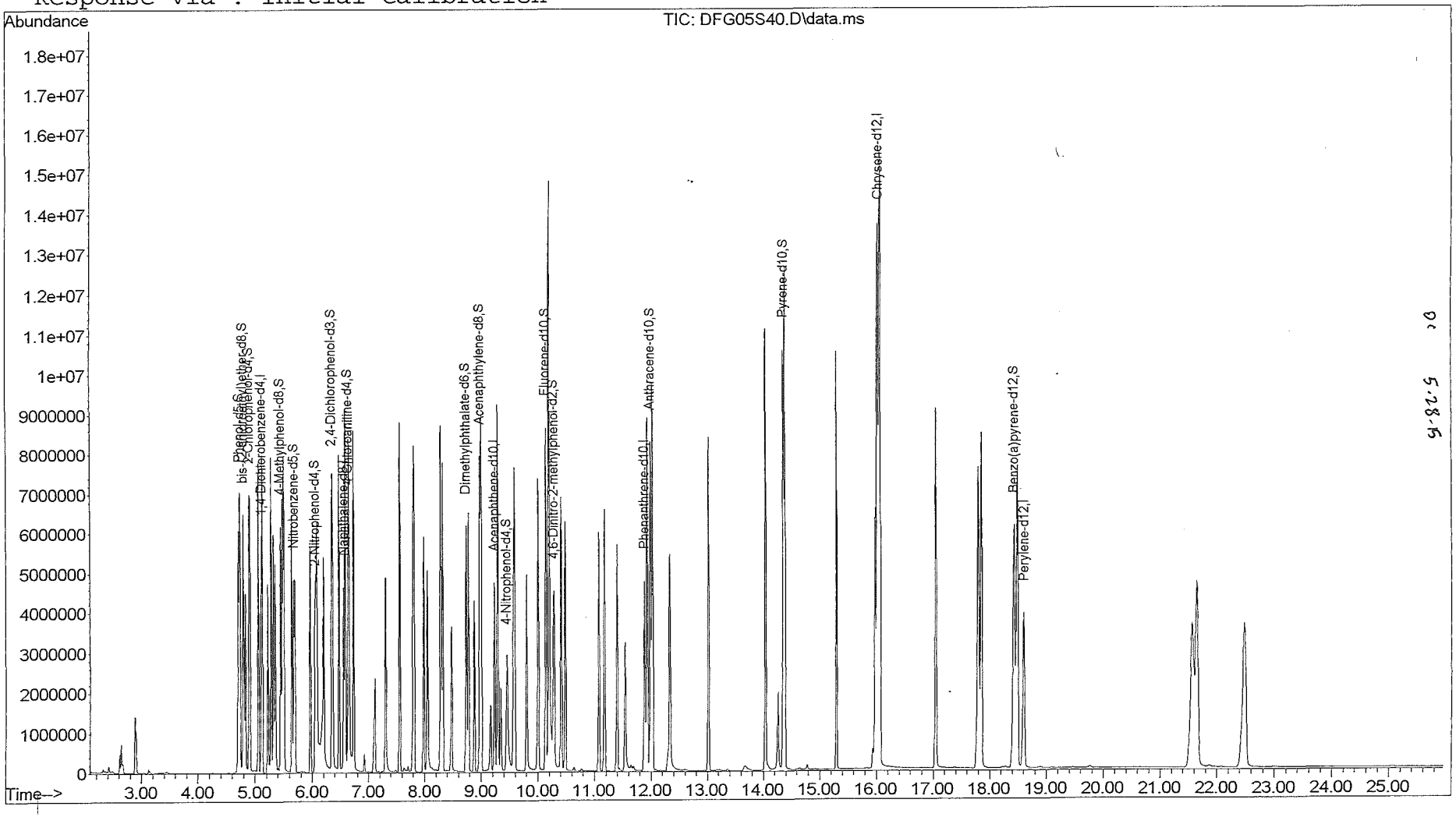
00361

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	759599	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2564806	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1618424	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2915125	20.00 ug/ml
73) Chrysene-d12	16.02	240	3425847	20.00 ug/ml
81) Perylene-d12	18.60	264	3260808	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1918857	40.589ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1376090	39.781ug/mL
7) 2-Chlorophenol-d4	4.89	132	1930639	40.971ug/ml
13) 4-Methylphenol-d8	5.45	113	1458045	41.145ug/mL
17) Nitrobenzene-d5	5.68	128	866506	41.248ug/ml
21) 2-Nitrophenol-d4	6.05	143	977489	39.238ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1634717	40.607ug/mL
28) 4-Chloroaniline-d4	6.63	131	1071925	35.442ug/mL
42) Dimethylphthalate-d6	8.73	166	4085820	40.946ug/mL
45) Acenaphthylene-d8	8.97	160	5284171	40.218ug/mL
50) 4-Nitrophenol-d4	9.45	143	662556	39.978ug/mL
57) Fluorene-d10	10.14	176	3552581	40.291ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	746001	40.523ug/mL
69) Anthracene-d10	11.99	188	5910674	39.577ug/mL
75) Pyrene-d10	14.35	212	5688122	39.427ug/mL
86) Benzo(a)pyrene-d12	18.43	264	6037385	40.458ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	1279304	42.027ug/ml	94
4) Phenol	4.73	94	1904718	38.923ug/ml	90
5) Bis(2-chloroethyl)ether	4.83	93	1635283	37.977ug/ml	97
8) 2-Chlorophenol	4.91	128	1772006	39.615ug/ml	100
9) 2-Methylphenol	5.32	108	1452627	38.279ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	2413412	38.787ug/ml	100
11) Acetophenone	5.50	105	2136740	39.495ug/ml	93
12) 4-methylphenol	5.47	108	1538439	38.853ug/ml	99
14) N-Nitroso-di-n-propylamine	5.49	70	1044593	39.313ug/ml	86
15) Hexachloroethane	5.64	117	862892	40.852ug/ml	77
18) Nitrobenzene	5.70	77	1635079	39.641ug/ml	98
19) Isophorone	5.97	82	2798600	39.334ug/ml	95
20) 2-Nitrophenol	6.07	139	963794	38.438ug/ml	90
22) 2,4-Dimethylphenol	6.09	107	1591893	39.381ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	1812176	39.347ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	1615159	40.123ug/ml	95
26) Naphthalene	6.59	128	5061297	41.233ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.65	127	1315267	35.422ug/ml	94
29)	Hexachlorobutadiene	6.73	225	1263470	41.025ug/ml	99
30)	Caprolactam	7.12	113	440438	40.764ug/ml	98
31)	4-Chloro-3-methylphenol	7.30	107	1327122	39.426ug/ml	93
32)	2-Methylnaphthalene	7.56	142	3288991	39.603ug/ml	95
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	2015682	39.233ug/mL	97
35)	Hexachlorocyclopentadiene	7.79	237	1336196	43.229ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	1253991	39.537ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	1289026	38.518ug/ml	99
38)	1,1'-Biphenyl	8.28	154	4000567	39.011ug/ml	96
39)	2-Chloronaphthalene	8.32	162	3410047	39.755ug/ml	93
40)	2-Nitroaniline	8.47	65	866339	39.215ug/ml	97
41)	Dimethylphthalate	8.77	163	3785494	39.213ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	842323	40.085ug/ml	92
44)	Acenaphthylene	9.00	152	5440156	40.478ug/ml	98
46)	3-Nitroaniline	9.16	138	517180	35.200ug/ml	95
47)	Acenaphthene	9.29	153	3386774	40.646ug/ml	93
48)	2,4-Dinitrophenol	9.34	184	517481	40.140ug/ml	100
49)	4-Nitrophenol	9.46	109	386543	39.332ug/ml	97
51)	Dibenzofuran	9.59	168	4884140	39.705ug/ml	95
52)	2,4-Dinitrotoluene	9.57	165	1148219	40.440ug/ml	83
53)	2,3,4,6-Tetrachlorophenol	9.80	232	1107654	40.339ug/mL	91
54)	Diethylphthalate	10.00	149	3773800	38.674ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	2085525	39.633ug/ml	91
56)	Fluorene	10.19	166	4044368	41.510ug/ml	100
58)	4-Nitroaniline	10.22	138	704940	38.447ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.29	198	805467	39.245ug/ml	89
62)	N-Nitrosodiphenylamine	10.41	169	2710045	38.240ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	1341100	39.035ug/ml	86
64)	Hexachlorobenzene	11.17	284	1419434	39.159ug/ml	81
65)	Atrazine	11.40	200	1143151	39.264ug/ml	98
66)	Pentachlorophenol	11.54	266	766774	40.526ug/ml	97
67)	Phenanthrene	11.93	178	5831671	39.990ug/ml	99
68)	Anthracene	12.02	178	5999007	39.996ug/ml	98
70)	Carbazole	12.33	167	4838867	39.772ug/mL	97
71)	Di-n-butylphthalate	13.02	149	6602255	38.964ug/ml	99
72)	Fluoranthene	14.03	202	6701600	40.079ug/ml	88
74)	Pyrene	14.38	202	7055755	39.614ug/ml	86
76)	Butylbenzylphthalate	15.29	149	2995426	39.217ug/ml	92
77)	3,3'-Dichlorobenzidine	15.97	252	2406584	41.043ug/ml	96
78)	Benzo(a)anthracene	16.01	228	7097135	39.426ug/ml	97
79)	Chrysene	16.06	228	6376404	39.254ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	4672441	39.591ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	7787722	40.467ug/ml	98
83) Benzo(b)fluoranthene	17.79	252	7015122	40.308ug/ml	93
84) Benzo(k)fluoranthene	17.85	252	7138233	41.965ug/ml	92
85) Benzo(a)pyrene	18.49	252	6902353	40.879ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.56	276	6548607	40.580ug/ml	75
88) Dibenzo(a,h)anthracene	21.64	278	6810048	40.950ug/ml	89
89) Benzo(g,h,i)perylene	22.48	276	6611973	40.526ug/ml	85

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

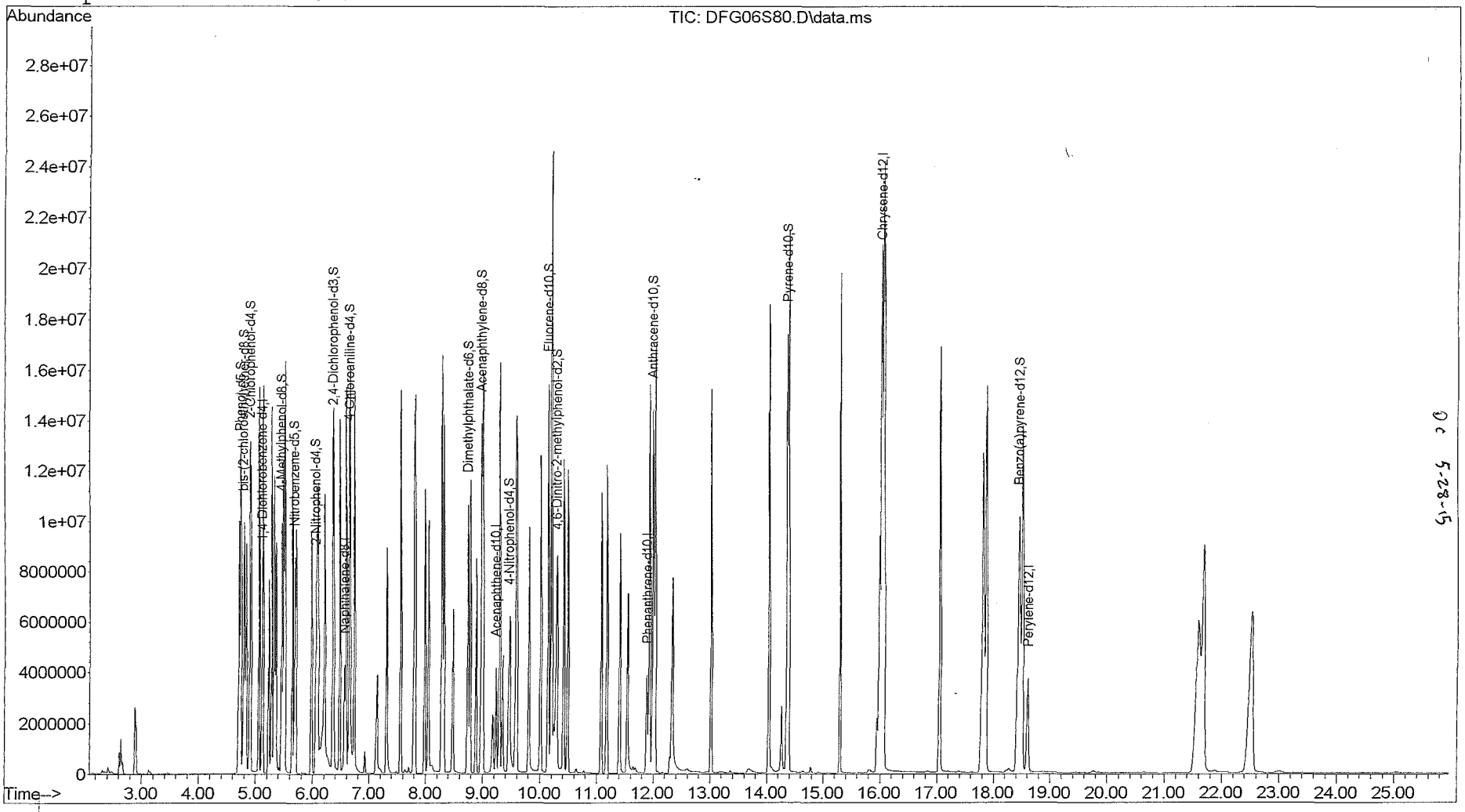
00365

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	723480	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2373530	20.00 ug/ml
33) Acenaphthene-d10	9.24	164	1491125	20.00 ug/ml
59) Phenanthrene-d10	11.89	188	2616667	20.00 ug/ml
73) Chrysene-d12	16.03	240	3034311	20.00 ug/ml
81) Perylene-d12	18.60	264	3075968	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	3536404	78.540ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	2603263	79.013ug/mL
7) 2-Chlorophenol-d4	4.90	132	3570109	79.545ug/ml
13) 4-Methylphenol-d8	5.46	113	2727194	80.802ug/mL
17) Nitrobenzene-d5	5.69	128	1646716	84.706ug/ml
21) 2-Nitrophenol-d4	6.05	143	1863555	80.834ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	3001307	80.562ug/mL
28) 4-Chloroaniline-d4	6.64	131	1882733	67.267ug/mL
42) Dimethylphthalate-d6	8.75	166	7553265	82.158ug/mL
45) Acenaphthylene-d8	8.98	160	9818288	81.106ug/mL
50) 4-Nitrophenol-d4	9.46	143	1329523	87.070ug/mL
57) Fluorene-d10	10.15	176	6660676	81.989ug/mL
61) 4,6-Dinitro-2-methylphenol	10.29	200	1485902	89.921ug/mL
69) Anthracene-d10	11.99	188	10847878	80.920ug/mL
75) Pyrene-d10	14.36	212	10241427	80.148ug/mL
86) Benzo(a)pyrene-d12	18.44	264	11646615	82.736ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	2294016	79.125ug/ml	94
4) Phenol	4.74	94	3702710	79.442ug/ml	91
5) Bis(2-chloroethyl)ether	4.83	93	3783479	92.253ug/ml	87
8) 2-Chlorophenol	4.92	128	3425297	80.399ug/ml	99
9) 2-Methylphenol	5.32	108	2937557	81.274ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.36	45	4555532	76.870ug/ml	100
11) Acetophenone	5.51	105	4165892	80.845ug/ml	96
12) 4-methylphenol	5.48	108	3071343	81.438ug/ml	98
14) N-Nitroso-di-n-propylamine	5.50	70	2014991	79.620ug/ml	91
15) Hexachloroethane	5.65	117	1680699	83.541ug/ml	77
18) Nitrobenzene	5.70	77	3221351	84.392ug/ml	99
19) Isophorone	5.97	82	5649139	85.796ug/ml	96
20) 2-Nitrophenol	6.07	139	1890873	81.489ug/ml	91
22) 2,4-Dimethylphenol	6.09	107	3087754	82.542ug/ml	93
23) Bis(2-chloroethoxy)methane	6.21	93	3501361	82.149ug/ml	99
24) 2,4-Dichlorophenol	6.37	162	3009132	80.775ug/ml	97
26) Naphthalene	6.59	128	9157682	80.618ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.65	127	2357293	68.602ug/ml	98
29)	Hexachlorobutadiene	6.73	225	2378187	83.442ug/ml	100
30)	Caprolactam	7.15	113	859570	85.968ug/ml	97
31)	4-Chloro-3-methylphenol	7.31	107	2665881	85.579ug/ml	95
32)	2-Methylnaphthalene	7.56	142	6110991	79.514ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.82	216	3737620	78.959ug/mL	97
35)	Hexachlorocyclopentadiene	7.79	237	2670310	93.766ug/ml	98
36)	2,4,6-Trichlorophenol	7.99	196	2497072	85.451ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	2738092	88.803ug/ml	98
38)	1,1'-Biphenyl	8.28	154	7826250	82.833ug/ml	96
39)	2-Chloronaphthalene	8.32	162	6658766	84.256ug/ml	94
40)	2-Nitroaniline	8.48	65	1677452	82.413ug/ml	98
41)	Dimethylphthalate	8.79	163	7171920	80.634ug/ml	99
43)	2,6-Dinitrotoluene	8.89	165	1719586	88.818ug/ml	93
44)	Acenaphthylene	9.00	152	9834430	79.421ug/ml	98
46)	3-Nitroaniline	9.18	138	777507	57.436ug/ml	92
47)	Acenaphthene	9.30	153	6161811	80.263ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	1143327	96.257ug/ml	100
49)	4-Nitrophenol	9.47	109	814051	89.904ug/ml	96
51)	Dibenzofuran	9.60	168	8856778	78.147ug/ml	97
52)	2,4-Dinitrotoluene	9.58	165	2306401	88.165ug/ml	86
53)	2,3,4,6-Tetrachlorophenol	9.81	232	2204141	87.124ug/mL	92
54)	Diethylphthalate	10.02	149	7156170	79.598ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	3556880	73.366ug/ml	93
56)	Fluorene	10.20	166	6787717	75.615ug/ml	98
58)	4-Nitroaniline	10.24	138	1249097	73.940ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.30	198	1644104	89.243ug/ml	89
62)	N-Nitrosodiphenylamine	10.42	169	5087686	79.979ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.08	248	2493739	80.864ug/ml	87
64)	Hexachlorobenzene	11.18	284	2833068	87.073ug/ml	81
65)	Atrazine	11.41	200	2156780	82.529ug/ml	98
66)	Pentachlorophenol	11.55	266	1618609	95.304ug/ml	98
67)	Phenanthrene	11.93	178	10450303	79.835ug/ml	98
68)	Anthracene	12.03	178	10748862	79.837ug/ml	98
70)	Carbazole	12.33	167	8024162	73.476ug/mL	96
71)	Di-n-butylphthalate	13.02	149	12053449	79.248ug/ml	99
72)	Fluoranthene	14.04	202	11744125	78.247ug/ml	90
74)	Pyrene	14.39	202	11851285	75.124ug/ml	90
76)	Butylbenzylphthalate	15.30	149	5625775	83.159ug/ml	92
77)	3,3'-Dichlorobenzidine	15.98	252	3548355	68.325ug/ml	96
78)	Benzo(a)anthracene	16.02	228	12365078	77.554ug/ml	96
79)	Chrysene	16.07	228	11028084	76.651ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	8412841	80.482ug/ml	99

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

000368

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	14166541	78.037ug/ml	96
83) Benzo(b)fluoranthene	17.80	252	13211157	80.470ug/ml	92
84) Benzo(k)fluoranthene	17.86	252	12448185	77.579ug/ml	91
85) Benzo(a)pyrene	18.50	252	12983175	81.514ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.59	276	13278210	87.226ug/ml	76
88) Dibenzo(a,h)anthracene	21.68	278	13716145	87.433ug/ml	89
89) Benzo(g,h,i)perylene	22.53	276	13115401	85.218ug/ml	85

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

00369

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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 08:33

Lab File ID: DFL01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.682	0.010	-15.0	40.0
Phenol	1.288	1.342	0.800	4.2	25.0
Bis(2-chloroethyl)ether	1.134	1.163	0.700	2.6	25.0
2-Chlorophenol	1.178	1.217	0.800	3.3	25.0
2-Methylphenol	0.999	1.062	0.700	6.3	25.0
2,2'-Oxybis(1-chloropropane)	1.638	1.663	0.010	1.5	40.0
Acetophenone	1.424	1.489	0.010	4.5	40.0
4-Methylphenol	1.043	1.074	0.600	3.0	25.0
N-Nitroso-di-n-propylamine	0.700	0.692	0.500	-1.1	25.0
Hexachloroethane	0.556	0.581	0.300	4.4	25.0
Nitrobenzene	0.322	0.337	0.200	4.7	25.0
Isophorone	0.555	0.569	0.400	2.5	25.0
2-Nitrophenol	0.196	0.200	0.100	2.4	25.0
2,4-Dimethylphenol	0.315	0.314	0.200	-0.3	25.0
Bis(2-chloroethoxy)methane	0.359	0.363	0.300	1.0	25.0
2,4-Dichlorophenol	0.314	0.330	0.200	5.0	25.0
Naphthalene	0.957	1.002	0.700	4.7	25.0
4-Chloroaniline	0.290	0.307	0.010	5.9	40.0
Hexachlorobutadiene	0.240	0.255	0.010	6.2	40.0
Caprolactam	0.084	0.087	0.010	3.7	40.0
4-Chloro-3-methylphenol	0.262	0.260	0.200	-1.0	25.0
2-Methylnaphthalene	0.648	0.656	0.400	1.3	25.0
Hexachlorocyclopentadiene	0.382	0.434	0.010	13.6	40.0
2,4,6-Trichlorophenol	0.392	0.399	0.200	1.7	25.0
2,4,5-Trichlorophenol	0.414	0.425	0.200	2.8	25.0
1,1'-Biphenyl	1.267	1.369	0.010	8.0	40.0
2-Chloronaphthalene	1.060	1.111	0.800	4.8	25.0
2-Nitroaniline	0.273	0.275	0.010	0.6	40.0
Dimethylphthalate	1.193	1.218	0.010	2.1	40.0
2,6-Dinitrotoluene	0.260	0.269	0.200	3.7	25.0
Acenaphthylene	1.661	1.740	0.900	4.8	25.0
3-Nitroaniline	0.182	0.216	0.010	18.8	40.0
Acenaphthene	1.030	1.081	0.900	5.0	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 08:33

Lab File ID: DFL01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.162	0.010	1.6	40.0
4-Nitrophenol	0.121	0.120	0.010	-0.8	40.0
Dibenzofuran	1.520	1.542	0.800	1.4	25.0
2,4-Dinitrotoluene	0.351	0.365	0.200	4.0	25.0
Diethylphthalate	1.206	1.345	0.010	11.5	40.0
Fluorene	1.204	1.299	0.900	7.9	25.0
4-Chlorophenyl-phenylether	0.650	0.704	0.400	8.3	25.0
4-Nitroaniline	0.227	0.234	0.010	3.4	40.0
4,6-Dinitro-2-methylphenol	0.141	0.142	0.010	1.0	40.0
N-Nitrosodiphenylamine (1)	0.486	0.503	0.010	3.5	40.0
1,2,4,5-Tetrachlorobenzene	0.635	0.682	0.010	7.4	40.0
4-Bromophenyl-phenylether	0.236	0.243	0.100	3.3	25.0
Hexachlorobenzene	0.249	0.259	0.100	4.3	25.0
Atrazine	0.200	0.194	0.010	-2.8	40.0
Pentachlorophenol	0.130	0.129	0.050	-0.4	25.0
Phenanthrene	1.000	1.057	0.700	5.6	25.0
Anthracene	1.029	1.082	0.700	5.1	25.0
Carbazole	0.835	0.879	0.010	5.3	40.0
Di-n-butylphthalate	1.163	1.339	0.010	15.2	40.0
Fluoranthene	1.147	1.251	0.600	9.1	25.0
Pyrene	1.040	1.091	0.600	4.9	25.0
Butylbenzylphthalate	0.446	0.464	0.010	4.0	40.0
3,3'-Dichlorobenzidine	0.342	0.367	0.010	7.4	40.0
Benzo(a)anthracene	1.051	1.098	0.800	4.5	25.0
Chrysene	0.948	1.006	0.700	6.1	25.0
Bis(2-ethylhexyl)phthalate	0.689	0.761	0.010	10.4	40.0
Di-n-octylphthalate	1.180	1.284	0.010	8.8	40.0
Benzo(b)fluoranthene	1.067	1.116	0.700	4.5	25.0
Benzo(k)fluoranthene	1.043	1.124	0.700	7.7	25.0
Benzo(a)pyrene	1.036	1.081	0.700	4.4	25.0
Indeno(1,2,3-cd)pyrene	0.990	1.063	0.500	7.4	25.0
Dibenzo(a,h)anthracene	1.020	1.084	0.400	6.3	25.0
Benzo(g,h,i)perylene	1.001	1.059	0.500	5.9	25.0
2,3,4,6-Tetrachlorophenol	0.339	0.341	0.100	0.6	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 08:33

Lab File ID: DFL01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

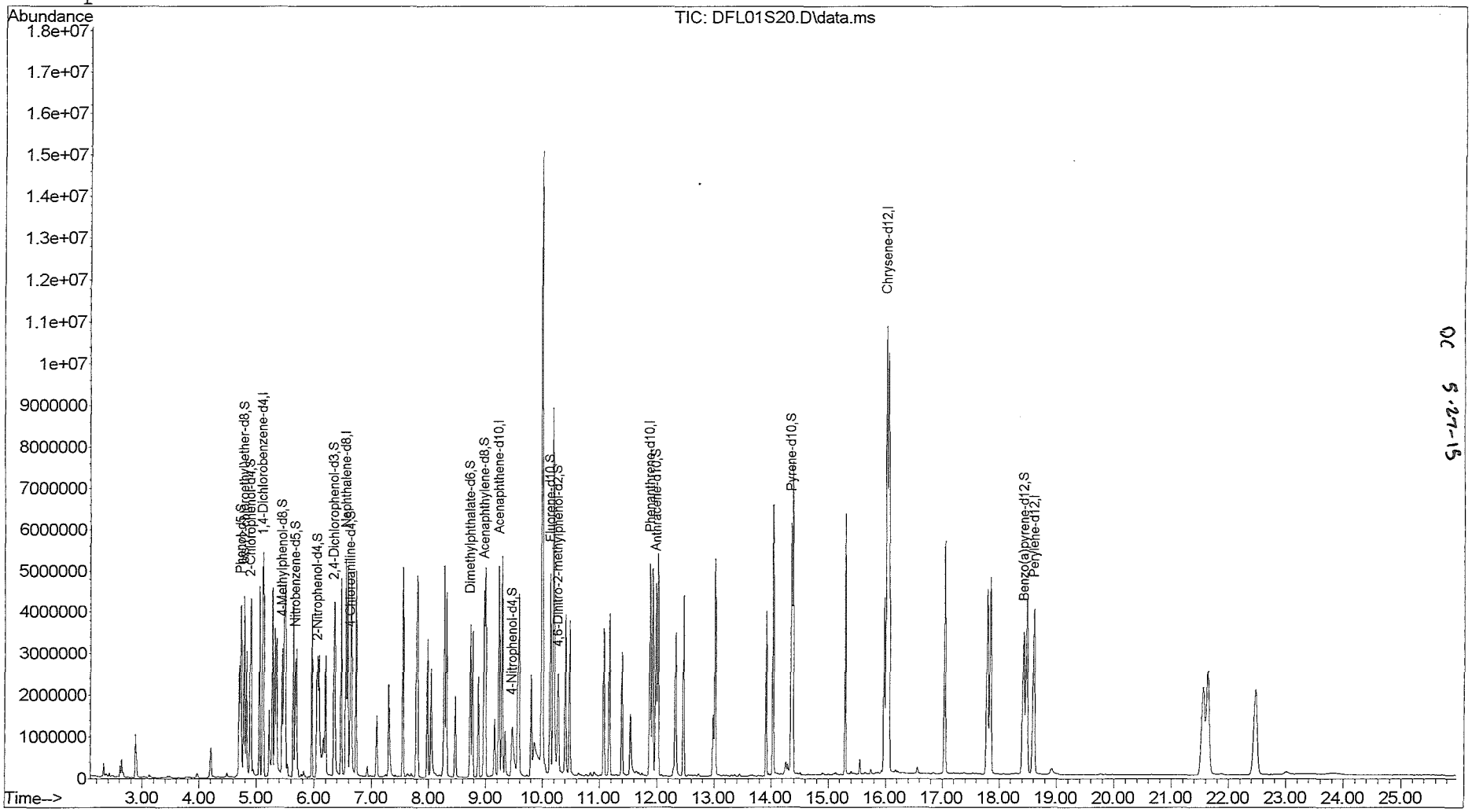
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.265	0.010	1.6	25.0
Bis(2-chloroethyl)ether-d8	0.911	0.903	0.010	-0.9	25.0
2-Chlorophenol-d4	1.241	1.253	0.010	1.0	25.0
4-Methylphenol-d8	0.933	0.914	0.010	-2.0	25.0
Nitrobenzene-d5	0.164	0.165	0.010	0.5	25.0
2-Nitrophenol-d4	0.194	0.187	0.010	-3.9	25.0
2,4-Dichlorophenol-d3	0.314	0.320	0.010	1.9	25.0
4-Chloroaniline-d4	0.236	0.225	0.010	-4.5	40.0
Dimethylphthalate-d6	1.233	1.222	0.010	-0.9	40.0
Acenaphthylene-d8	1.624	1.629	0.010	0.4	25.0
4-Nitrophenol-d4	0.205	0.194	0.010	-5.3	40.0
Fluorene-d10	1.090	1.091	0.010	0.1	25.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.124	0.010	-1.6	40.0
Anthracene-d10	1.025	1.021	0.010	-0.3	25.0
Pyrene-d10	0.842	0.831	0.010	-1.3	25.0
Benzo(a)pyrene-d12	0.915	0.920	0.010	0.5	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed May 27 09:03:03 2015
Response via : Initial Calibration



DC 5-27-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed May 27 09:03:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	877489	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2881851	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1770482	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3099613	20.00 ug/ml
73) Chrysene-d12	16.03	240	3769374	20.00 ug/ml
81) Perylene-d12	18.60	264	3504700	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1110097	20.327ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	792171	19.824ug/mL
7) 2-Chlorophenol-d4	4.89	132	1099441	20.197ug/ml
13) 4-Methylphenol-d8	5.45	113	802358	19.600ug/mL
17) Nitrobenzene-d5	5.67	128	474403	20.099ug/ml
21) 2-Nitrophenol-d4	6.05	143	537926	19.218ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	921782	20.378ug/mL
28) 4-Chloroaniline-d4	6.63	131	649375	19.109ug/mL
42) Dimethylphthalate-d6	8.73	166	2163514	19.820ug/mL
45) Acenaphthylene-d8	8.97	160	2884818	20.071ug/mL
50) 4-Nitrophenol-d4	9.46	143	343343	18.938ug/mL
57) Fluorene-d10	10.14	176	1931700	20.026ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	385171	19.677ug/mL
69) Anthracene-d10	11.99	188	3164920	19.930ug/mL
75) Pyrene-d10	14.35	212	3133191	19.738ug/mL
86) Benzo(a)pyrene-d12	18.42	264	3224124	20.102ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	598012	17.006ug/ml	93
4) Phenol	4.73	94	1177558	20.830ug/ml	90
5) Bis(2-chloroethyl)ether	4.83	93	1020363	20.513ug/ml	94
8) 2-Chlorophenol	4.91	128	1067633	20.661ug/ml	99
9) 2-Methylphenol	5.32	108	931654	21.252ug/ml	99
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1458912	20.297ug/ml	100
11) Acetophenone	5.50	105	1306691	20.908ug/ml	93
12) 4-methylphenol	5.47	108	942686	20.609ug/ml	97
14) N-Nitroso-di-n-propylamine	5.49	70	606967	19.774ug/ml	84
15) Hexachloroethane	5.64	117	509606	20.885ug/ml	76
18) Nitrobenzene	5.70	77	970761	20.946ug/ml	98
19) Isophorone	5.96	82	1639593	20.509ug/ml	95
20) 2-Nitrophenol	6.06	139	577059	20.482ug/ml	92
22) 2,4-Dimethylphenol	6.09	107	905262	19.931ug/ml	90
23) Bis(2-chloroethoxy)methane	6.20	93	1045836	20.209ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	949703	20.996ug/ml	96
26) Naphthalene	6.59	128	2888457	20.943ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed May 27 09:03:03 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.64	127	884015	21.189ug/ml	97
29)	Hexachlorobutadiene	6.73	225	734664	21.230ug/ml	99
30)	Caprolactam	7.10	113	251705	20.733ug/ml	97
31)	4-Chloro-3-methylphenol	7.30	107	749114	19.806ug/ml	93
32)	2-Methylnaphthalene	7.56	142	1890012	20.254ug/ml	95
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	1207171	21.478ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	768314	22.722ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	705786	20.341ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	752946	20.567ug/ml	99
38)	1,1'-Biphenyl	8.28	154	2424197	21.609ug/ml	96
39)	2-Chloronaphthalene	8.32	162	1967400	20.966ug/ml	89
40)	2-Nitroaniline	8.47	65	486274	20.121ug/ml	97
41)	Dimethylphthalate	8.77	163	2157031	20.425ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	476829	20.743ug/ml	93
44)	Acenaphthylene	9.00	152	3080349	20.951ug/ml	98
46)	3-Nitroaniline	9.16	138	381914	23.761ug/ml	92
47)	Acenaphthene	9.29	153	1914572	21.004ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	286612	20.322ug/ml	100
49)	4-Nitrophenol	9.47	109	213265	19.837ug/ml	95
51)	Dibenzofuran	9.59	168	2730334	20.290ug/ml	95
52)	2,4-Dinitrotoluene	9.57	165	645868	20.794ug/ml	80
53)	2,3,4,6-Tetrachlorophenol	9.81	232	604160	20.113ug/mL	92
54)	Diethylphthalate	10.00	149	2381239	22.307ug/ml	100
55)	4-Chlorophenyl-phenylether	10.20	204	1246943	21.662ug/ml	89
56)	Fluorene	10.19	166	2299164	21.571ug/ml	97
58)	4-Nitroaniline	10.22	138	414778	20.679ug/ml	77
60)	4,6-Dinitro-2-methylphenol	10.29	198	440768	20.197ug/ml	90
62)	N-Nitrosodiphenylamine	10.41	169	1560164	20.704ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	754496	20.654ug/ml	86
64)	Hexachlorobenzene	11.17	284	804134	20.864ug/ml	81
65)	Atrazine	11.39	200	601628	19.434ug/ml	98
66)	Pentachlorophenol	11.54	266	400608	19.913ug/ml	99
67)	Phenanthrene	11.93	178	3275142	21.122ug/ml	99
68)	Anthracene	12.02	178	3352794	21.023ug/ml	99
70)	Carbazole	12.33	167	2725136	21.066ug/mL	96
71)	Di-n-butylphthalate	13.02	149	4150786	23.038ug/ml	99
72)	Fluoranthene	14.04	202	3878565	21.815ug/ml	88
74)	Pyrene	14.38	202	4112563	20.985ug/ml	86
76)	Butylbenzylphthalate	15.30	149	1748418	20.805ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	1385237	21.472ug/ml	95
78)	Benzo(a)anthracene	16.01	228	4138880	20.897ug/ml	97
79)	Chrysene	16.06	228	3791412	21.213ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	2868088	22.087ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed May 27 09:03:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	4499334	21.753ug/ml	98
83) Benzo(b)fluoranthene	17.79	252	3910490	20.905ug/ml	93
84) Benzo(k)fluoranthene	17.84	252	3938361	21.542ug/ml	93
85) Benzo(a)pyrene	18.48	252	3788254	20.875ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.56	276	3724520	21.474ug/ml	75
88) Dibenzo(a,h)anthracene	21.64	278	3798963	21.254ug/ml	89
89) Benzo(g,h,i)perylene	22.47	276	3712940	21.174ug/ml	85

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

00376

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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 17:12

Lab File ID: DFL16S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.721	0.010	-10.1	50.0
Phenol	1.288	1.343	0.010	4.2	50.0
Bis(2-chloroethyl)ether	1.134	1.116	0.010	-1.6	50.0
2-Chlorophenol	1.178	1.224	0.010	4.0	50.0
2-Methylphenol	0.999	1.080	0.010	8.1	50.0
2,2'-Oxybis(1-chloropropane)	1.638	1.640	0.010	0.1	50.0
Acetophenone	1.424	1.509	0.010	5.9	50.0
4-Methylphenol	1.043	1.089	0.010	4.4	50.0
N-Nitroso-di-n-propylamine	0.700	0.708	0.010	1.2	50.0
Hexachloroethane	0.556	0.565	0.010	1.6	50.0
Nitrobenzene	0.322	0.336	0.010	4.5	50.0
Isophorone	0.555	0.580	0.010	4.5	50.0
2-Nitrophenol	0.196	0.200	0.010	2.2	50.0
2,4-Dimethylphenol	0.315	0.320	0.010	1.4	50.0
Bis(2-chloroethoxy)methane	0.359	0.368	0.010	2.4	50.0
2,4-Dichlorophenol	0.314	0.329	0.010	4.8	50.0
Naphthalene	0.957	1.004	0.010	4.9	50.0
4-Chloroaniline	0.290	0.353	0.010	21.8	50.0
Hexachlorobutadiene	0.240	0.255	0.010	6.1	50.0
Caprolactam	0.084	0.090	0.010	6.8	50.0
4-Chloro-3-methylphenol	0.262	0.266	0.010	1.4	50.0
2-Methylnaphthalene	0.648	0.670	0.010	3.5	50.0
Hexachlorocyclopentadiene	0.382	0.299	0.010	-21.7	50.0
2,4,6-Trichlorophenol	0.392	0.403	0.010	2.8	50.0
2,4,5-Trichlorophenol	0.414	0.424	0.010	2.5	50.0
1,1'-Biphenyl	1.267	1.353	0.010	6.8	50.0
2-Chloronaphthalene	1.060	1.104	0.010	4.1	50.0
2-Nitroaniline	0.273	0.280	0.010	2.5	50.0
Dimethylphthalate	1.193	1.232	0.010	3.3	50.0
2,6-Dinitrotoluene	0.260	0.272	0.010	4.9	50.0
Acenaphthylene	1.661	1.734	0.010	4.4	50.0
3-Nitroaniline	0.182	0.261	0.010	43.6	50.0
Acenaphthene	1.030	1.081	0.010	5.0	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 17:12

Lab File ID: DFL16S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.131	0.010	-17.7	50.0
4-Nitrophenol	0.121	0.121	0.010	0.0	50.0
Dibenzofuran	1.520	1.544	0.010	1.5	50.0
2,4-Dinitrotoluene	0.351	0.371	0.010	5.8	50.0
Diethylphthalate	1.206	1.214	0.010	0.7	50.0
Fluorene	1.204	1.315	0.010	9.2	50.0
4-Chlorophenyl-phenylether	0.650	0.709	0.010	9.1	50.0
4-Nitroaniline	0.227	0.276	0.010	21.8	50.0
4,6-Dinitro-2-methylphenol	0.141	0.130	0.010	-7.6	50.0
N-Nitrosodiphenylamine (1)	0.486	0.516	0.010	6.1	50.0
1,2,4,5-Tetrachlorobenzene	0.635	0.674	0.010	6.2	50.0
4-Bromophenyl-phenylether	0.236	0.246	0.010	4.4	50.0
Hexachlorobenzene	0.249	0.260	0.010	4.5	50.0
Atrazine	0.200	0.185	0.010	-7.2	50.0
Pentachlorophenol	0.130	0.121	0.010	-6.4	50.0
Phenanthrene	1.000	1.066	0.010	6.5	50.0
Anthracene	1.029	1.091	0.010	6.0	50.0
Carbazole	0.835	0.930	0.010	11.5	50.0
Di-n-butylphthalate	1.163	1.258	0.010	8.2	50.0
Fluoranthene	1.147	1.271	0.010	10.8	50.0
Pyrene	1.040	1.087	0.010	4.5	50.0
Butylbenzylphthalate	0.446	0.462	0.010	3.7	50.0
3,3'-Dichlorobenzidine	0.342	0.389	0.010	13.5	50.0
Benzo(a)anthracene	1.051	1.104	0.010	5.1	50.0
Chrysene	0.948	1.003	0.010	5.7	50.0
Bis(2-ethylhexyl)phthalate	0.689	0.737	0.010	7.0	50.0
Di-n-octylphthalate	1.180	1.293	0.010	9.6	50.0
Benzo(b)fluoranthene	1.067	1.111	0.010	4.0	50.0
Benzo(k)fluoranthene	1.043	1.123	0.010	7.6	50.0
Benzo(a)pyrene	1.036	1.077	0.010	4.0	50.0
Indeno(1,2,3-cd)pyrene	0.990	1.006	0.010	1.6	50.0
Dibenzo(a,h)anthracene	1.020	1.030	0.010	1.0	50.0
Benzo(g,h,i)perylene	1.001	0.962	0.010	-3.9	50.0
2,3,4,6-Tetrachlorophenol	0.339	0.347	0.010	2.2	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 17:12

Lab File ID: DFL16S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

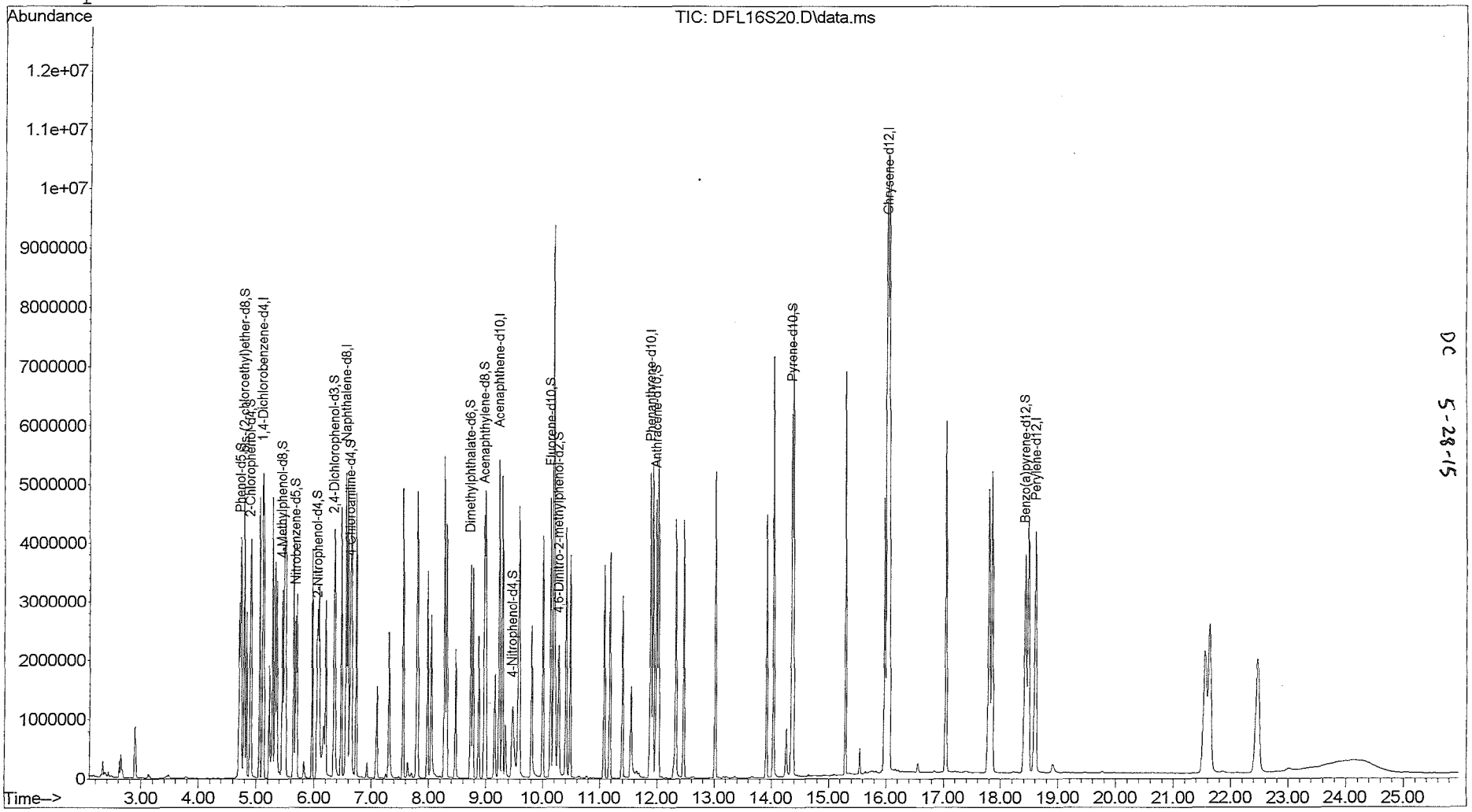
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.267	0.010	1.8	50.0
Bis(2-chloroethyl)ether-d8	0.911	0.909	0.010	-0.2	50.0
2-Chlorophenol-d4	1.241	1.250	0.010	0.8	50.0
4-Methylphenol-d8	0.933	0.942	0.010	1.0	50.0
Nitrobenzene-d5	0.164	0.165	0.010	0.7	50.0
2-Nitrophenol-d4	0.194	0.190	0.010	-2.1	50.0
2,4-Dichlorophenol-d3	0.314	0.323	0.010	2.8	50.0
4-Chloroaniline-d4	0.236	0.289	0.010	22.5	50.0
Dimethylphthalate-d6	1.233	1.236	0.010	0.2	50.0
Acenaphthylene-d8	1.624	1.633	0.010	0.6	50.0
4-Nitrophenol-d4	0.205	0.197	0.010	-3.9	50.0
Fluorene-d10	1.090	1.098	0.010	0.8	50.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.113	0.010	-10.4	50.0
Anthracene-d10	1.025	1.029	0.010	0.4	50.0
Pyrene-d10	0.842	0.827	0.010	-1.8	50.0
Benzo(a)pyrene-d12	0.915	0.910	0.010	-0.6	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 09:35:58 2015
Response via : Initial Calibration



DC 5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 09:35:58 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	868168	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2892628	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1811761	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3193186	20.00 ug/ml
73) Chrysene-d12	16.02	240	3968436	20.00 ug/ml
81) Perylene-d12	18.60	264	3690216	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1099654	20.352ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	789194	19.961ug/mL
7) 2-Chlorophenol-d4	4.89	132	1085298	20.151ug/ml
13) 4-Methylphenol-d8	5.45	113	817997	20.197ug/mL
17) Nitrobenzene-d5	5.67	128	477219	20.143ug/ml
21) 2-Nitrophenol-d4	6.05	143	550264	19.585ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	933707	20.565ug/mL
28) 4-Chloroaniline-d4	6.62	131	835766	24.502ug/mL
42) Dimethylphthalate-d6	8.73	166	2239444	20.048ug/mL
45) Acenaphthylene-d8	8.97	160	2958233	20.112ug/mL
50) 4-Nitrophenol-d4	9.46	143	356622	19.222ug/mL
57) Fluorene-d10	10.13	176	1989158	20.152ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	361296	17.917ug/mL
69) Anthracene-d10	11.98	188	3285564	20.084ug/mL
75) Pyrene-d10	14.34	212	3281170	19.634ug/mL
86) Benzo(a)pyrene-d12	18.42	264	3357431	19.881ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	625769	17.987ug/ml	94
4) Phenol	4.73	94	1165785	20.844ug/ml	91
5) Bis(2-chloroethyl)ether	4.83	93	968710	19.684ug/ml	95
8) 2-Chlorophenol	4.91	128	1062915	20.791ug/ml	98
9) 2-Methylphenol	5.32	108	937835	21.623ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1424196	20.027ug/ml	100
11) Acetophenone	5.50	105	1309966	21.185ug/ml	93
12) 4-methylphenol	5.47	108	945283	20.887ug/ml	98
14) N-Nitroso-di-n-propylamine	5.49	70	614722	20.242ug/ml	84
15) Hexachloroethane	5.64	117	490583	20.321ug/ml	75
18) Nitrobenzene	5.70	77	972286	20.901ug/ml	98
19) Isophorone	5.96	82	1677384	20.904ug/ml	95
20) 2-Nitrophenol	6.06	139	577803	20.432ug/ml	91
22) 2,4-Dimethylphenol	6.09	107	924815	20.286ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	1063345	20.471ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	951590	20.960ug/ml	95
26) Naphthalene	6.59	128	2903407	20.973ug/ml	99

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

00381

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 09:35:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.63	127	1019920	24.355ug/ml	99
29)	Hexachlorobutadiene	6.73	225	736887	21.215ug/ml	99
30)	Caprolactam	7.10	113	260188	21.352ug/ml	97
31)	4-Chloro-3-methylphenol	7.30	107	770115	20.285ug/ml	92
32)	2-Methylnaphthalene	7.56	142	1938338	20.695ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	1221275	21.234ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	541960	15.663ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	730027	20.561ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	768069	20.502ug/ml	99
38)	1,1'-Biphenyl	8.27	154	2451215	21.352ug/ml	96
39)	2-Chloronaphthalene	8.32	162	1999458	20.822ug/ml	90
40)	2-Nitroaniline	8.47	65	506856	20.495ug/ml	97
41)	Dimethylphthalate	8.77	163	2232503	20.658ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	493615	20.984ug/ml	92
44)	Acenaphthylene	9.00	152	3142173	20.885ug/ml	98
46)	3-Nitroaniline	9.16	138	472225	28.711ug/ml	93
47)	Acenaphthene	9.29	153	1959237	21.004ug/ml	93
48)	2,4-Dinitrophenol	9.34	184	237607	16.464ug/ml	100
49)	4-Nitrophenol	9.47	109	220091	20.005ug/ml	93
51)	Dibenzofuran	9.59	168	2796498	20.308ug/ml	95
52)	2,4-Dinitrotoluene	9.56	165	672831	21.168ug/ml	79
53)	2,3,4,6-Tetrachlorophenol	9.80	232	628167	20.436ug/mL	92
54)	Diethylphthalate	10.00	149	2199399	20.134ug/ml	100
55)	4-Chlorophenyl-phenylether	10.20	204	1285354	21.820ug/ml	89
56)	Fluorene	10.19	166	2382434	21.843ug/ml	99
58)	4-Nitroaniline	10.22	138	500006	24.360ug/ml	80
60)	4,6-Dinitro-2-methylphenol	10.28	198	415636	18.488ug/ml	90
62)	N-Nitrosodiphenylamine	10.40	169	1647905	21.228ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	785539	20.874ug/ml	86
64)	Hexachlorobenzene	11.17	284	829909	20.902ug/ml	81
65)	Atrazine	11.39	200	591657	18.552ug/ml	98
66)	Pentachlorophenol	11.54	266	387921	18.717ug/ml	99
67)	Phenanthrene	11.92	178	3402659	21.301ug/ml	99
68)	Anthracene	12.02	178	3484587	21.209ug/ml	99
70)	Carbazole	12.32	167	2970929	22.293ug/mL	97
71)	Di-n-butylphthalate	13.02	149	4017483	21.645ug/ml	99
72)	Fluoranthene	14.03	202	4058543	22.159ug/ml	88
74)	Pyrene	14.37	202	4312484	20.902ug/ml	86
76)	Butylbenzylphthalate	15.29	149	1834536	20.735ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	1541834	22.700ug/ml	95
78)	Benzo(a)anthracene	16.00	228	4382054	21.015ug/ml	97
79)	Chrysene	16.06	228	3979291	21.148ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	2925922	21.402ug/ml	99

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

00382

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 09:35:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	4773292	21.917ug/ml	98
83) Benzo(b)fluoranthene	17.79	252	4098506	20.809ug/ml	93
84) Benzo(k)fluoranthene	17.84	252	4143337	21.524ug/ml	93
85) Benzo(a)pyrene	18.47	252	3974543	20.800ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.55	276	3711773	20.324ug/ml	74
88) Dibenzo(a,h)anthracene	21.63	278	3800573	20.194ug/ml	89
89) Benzo(g,h,i)perylene	22.47	276	3548826	19.221ug/ml	85

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

00383

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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 09:45

Lab File ID: DFM17S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DM Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.683	0.010	-14.8	40.0
Phenol	1.288	1.326	0.800	2.9	25.0
Bis(2-chloroethyl)ether	1.134	1.124	0.700	-0.8	25.0
2-Chlorophenol	1.178	1.215	0.800	3.2	25.0
2-Methylphenol	0.999	1.006	0.700	0.7	25.0
2,2'-Oxybis(1-chloropropane)	1.638	1.664	0.010	1.6	40.0
Acetophenone	1.424	1.531	0.010	7.5	40.0
4-Methylphenol	1.043	1.097	0.600	5.2	25.0
N-Nitroso-di-n-propylamine	0.700	0.717	0.500	2.4	25.0
Hexachloroethane	0.556	0.580	0.300	4.2	25.0
Nitrobenzene	0.322	0.335	0.200	4.1	25.0
Isophorone	0.555	0.575	0.400	3.6	25.0
2-Nitrophenol	0.196	0.199	0.100	1.7	25.0
2,4-Dimethylphenol	0.315	0.310	0.200	-1.7	25.0
Bis(2-chloroethoxy)methane	0.359	0.366	0.300	1.9	25.0
2,4-Dichlorophenol	0.314	0.329	0.200	4.7	25.0
Naphthalene	0.957	1.008	0.700	5.3	25.0
4-Chloroaniline	0.290	0.340	0.010	17.3	40.0
Hexachlorobutadiene	0.240	0.255	0.010	6.0	40.0
Caprolactam	0.084	0.092	0.010	9.2	40.0
4-Chloro-3-methylphenol	0.262	0.265	0.200	0.9	25.0
2-Methylnaphthalene	0.648	0.670	0.400	3.4	25.0
Hexachlorocyclopentadiene	0.382	0.431	0.010	12.9	40.0
2,4,6-Trichlorophenol	0.392	0.398	0.200	1.5	25.0
2,4,5-Trichlorophenol	0.414	0.426	0.200	3.0	25.0
1,1'-Biphenyl	1.267	1.345	0.010	6.1	40.0
2-Chloronaphthalene	1.060	1.109	0.800	4.6	25.0
2-Nitroaniline	0.273	0.281	0.010	3.0	40.0
Dimethylphthalate	1.193	1.245	0.010	4.4	40.0
2,6-Dinitrotoluene	0.260	0.274	0.200	5.7	25.0
Acenaphthylene	1.661	1.751	0.900	5.4	25.0
3-Nitroaniline	0.182	0.247	0.010	36.2	40.0
Acenaphthene	1.030	1.095	0.900	6.3	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 09:45

Lab File ID: DFM17S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DM Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.157	0.010	-1.7	40.0
4-Nitrophenol	0.121	0.122	0.010	0.5	40.0
Dibenzofuran	1.520	1.564	0.800	2.9	25.0
2,4-Dinitrotoluene	0.351	0.379	0.200	8.0	25.0
Diethylphthalate	1.206	1.385	0.010	14.9	40.0
Fluorene	1.204	1.330	0.900	10.5	25.0
4-Chlorophenyl-phenylether	0.650	0.719	0.400	10.5	25.0
4-Nitroaniline	0.227	0.262	0.010	15.4	40.0
4,6-Dinitro-2-methylphenol	0.141	0.142	0.010	0.8	40.0
N-Nitrosodiphenylamine (1)	0.486	0.505	0.010	4.0	40.0
1,2,4,5-Tetrachlorobenzene	0.635	0.675	0.010	6.3	40.0
4-Bromophenyl-phenylether	0.236	0.244	0.100	3.6	25.0
Hexachlorobenzene	0.249	0.257	0.100	3.1	25.0
Atrazine	0.200	0.181	0.010	-9.6	40.0
Pentachlorophenol	0.130	0.123	0.050	-5.2	25.0
Phenanthrene	1.000	1.057	0.700	5.7	25.0
Anthracene	1.029	1.086	0.700	5.5	25.0
Carbazole	0.835	0.901	0.010	8.0	40.0
Di-n-butylphthalate	1.163	1.330	0.010	14.4	40.0
Fluoranthene	1.147	1.265	0.600	10.3	25.0
Pyrene	1.040	1.071	0.600	3.0	25.0
Butylbenzylphthalate	0.446	0.454	0.010	1.9	40.0
3,3'-Dichlorobenzidine	0.342	0.370	0.010	8.1	40.0
Benzo(a)anthracene	1.051	1.105	0.800	5.2	25.0
Chrysene	0.948	0.998	0.700	5.3	25.0
Bis(2-ethylhexyl)phthalate	0.689	0.730	0.010	6.0	40.0
Di-n-octylphthalate	1.180	1.264	0.010	7.1	40.0
Benzo(b)fluoranthene	1.067	1.157	0.700	8.4	25.0
Benzo(k)fluoranthene	1.043	1.088	0.700	4.2	25.0
Benzo(a)pyrene	1.036	1.088	0.700	5.0	25.0
Indeno(1,2,3-cd)pyrene	0.990	1.064	0.500	7.5	25.0
Dibenzo(a,h)anthracene	1.020	1.079	0.400	5.8	25.0
Benzo(g,h,i)perylene	1.001	1.051	0.500	5.0	25.0
2,3,4,6-Tetrachlorophenol	0.339	0.342	0.100	0.7	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 09:45

Lab File ID: DFM17S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DM Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

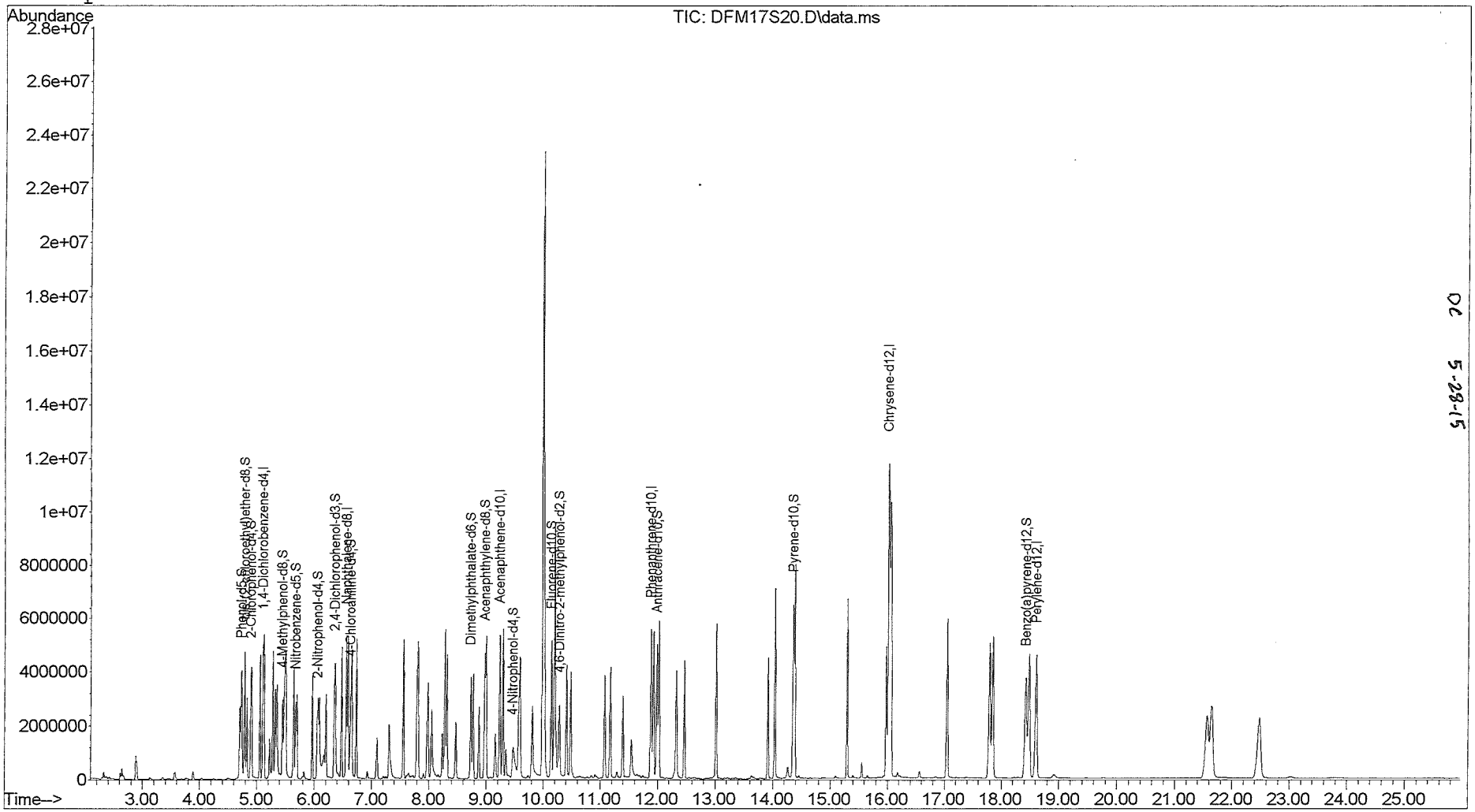
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.249	0.010	0.4	25.0
Bis(2-chloroethyl)ether-d8	0.911	0.910	0.010	-0.1	25.0
2-Chlorophenol-d4	1.241	1.253	0.010	1.0	25.0
4-Methylphenol-d8	0.933	0.893	0.010	-4.3	25.0
Nitrobenzene-d5	0.164	0.164	0.010	0.4	25.0
2-Nitrophenol-d4	0.194	0.186	0.010	-4.1	25.0
2,4-Dichlorophenol-d3	0.314	0.319	0.010	1.5	25.0
4-Chloroaniline-d4	0.236	0.261	0.010	10.7	40.0
Dimethylphthalate-d6	1.233	1.252	0.010	1.5	40.0
Acenaphthylene-d8	1.624	1.633	0.010	0.5	25.0
4-Nitrophenol-d4	0.205	0.203	0.010	-0.8	40.0
Fluorene-d10	1.090	1.104	0.010	1.3	25.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.125	0.010	-1.4	40.0
Anthracene-d10	1.025	1.028	0.010	0.4	25.0
Pyrene-d10	0.842	0.820	0.010	-2.7	25.0
Benzo(a)pyrene-d12	0.915	0.907	0.010	-0.9	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM17S20.D Vial: 1
Acq On : 05/28/2015 09:45 Operator: DJC
Sample : SSTD020DM 28104 DFTPPDM Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 10:11:08 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5-28-15 DC

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM17S20.D Vial: 1
Acq On : 05/28/2015 09:45 Operator: DJC
Sample : SSTD020DM 28104 DFTPPDM Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:11:08 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	875507	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2942402	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1851975	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3334155	20.00 ug/ml
73) Chrysene-d12	16.03	240	4169218	20.00 ug/ml
81) Perylene-d12	18.60	264	3821105	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1093889	20.076ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	796995	19.990ug/mL
7) 2-Chlorophenol-d4	4.89	132	1096917	20.196ug/ml
13) 4-Methylphenol-d8	5.45	113	782108	19.149ug/mL
17) Nitrobenzene-d5	5.67	128	483938	20.081ug/ml
21) 2-Nitrophenol-d4	6.05	143	548176	19.181ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	937702	20.304ug/mL
28) 4-Chloroaniline-d4	6.63	131	768126	22.138ug/mL
42) Dimethylphthalate-d6	8.73	166	2319068	20.310ug/mL
45) Acenaphthylene-d8	8.97	160	3023520	20.110ug/mL
50) 4-Nitrophenol-d4	9.46	143	376152	19.834ug/mL
57) Fluorene-d10	10.14	176	2043783	20.256ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	415162	19.718ug/mL
69) Anthracene-d10	11.99	188	3429149	20.075ug/mL
75) Pyrene-d10	14.35	212	3417859	19.467ug/mL
86) Benzo(a)pyrene-d12	18.43	264	3466076	19.821ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	598059	17.046ug/ml	94
4) Phenol	4.73	94	1160705	20.579ug/ml	91
5) Bis(2-chloroethyl)ether	4.83	93	984171	19.830ug/ml	95
8) 2-Chlorophenol	4.91	128	1063627	20.631ug/ml	99
9) 2-Methylphenol	5.32	108	880571	20.132ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1456785	20.313ug/ml	100
11) Acetophenone	5.50	105	1340784	21.502ug/ml	91
12) 4-methylphenol	5.47	108	960188	21.039ug/ml	98
14) N-Nitroso-di-n-propylamine	5.49	70	627415	20.487ug/ml	83
15) Hexachloroethane	5.64	117	507494	20.845ug/ml	77
18) Nitrobenzene	5.70	77	985593	20.828ug/ml	98
19) Isophorone	5.96	82	1691566	20.724ug/ml	95
20) 2-Nitrophenol	6.06	139	585339	20.349ug/ml	91
22) 2,4-Dimethylphenol	6.09	107	911313	19.651ug/ml	88
23) Bis(2-chloroethoxy)methane	6.20	93	1077313	20.389ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	967170	20.943ug/ml	96
26) Naphthalene	6.59	128	2966745	21.068ug/ml	99

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

00388

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM17S20.D Vial: 1
Acq On : 05/28/2015 09:45 Operator: DJC
Sample : SSTD020DM 28104 DFTPPDM Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:11:08 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.64	127	999508	23.464ug/ml	98
29)	Hexachlorobutadiene	6.73	225	748961	21.198ug/ml	99
30)	Caprolactam	7.10	113	270699	21.839ug/ml	99
31)	4-Chloro-3-methylphenol	7.30	107	779427	20.183ug/ml	92
32)	2-Methylnaphthalene	7.56	142	1970498	20.682ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	1249980	21.261ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	798587	22.578ug/ml	99
36)	2,4,6-Trichlorophenol	7.98	196	736458	20.291ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	789059	20.605ug/ml	99
38)	1,1'-Biphenyl	8.28	154	2489982	21.219ug/ml	96
39)	2-Chloronaphthalene	8.32	162	2054208	20.928ug/ml	89
40)	2-Nitroaniline	8.47	65	520751	20.599ug/ml	97
41)	Dimethylphthalate	8.77	163	2305727	20.872ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	508199	21.134ug/ml	93
44)	Acenaphthylene	9.00	152	3242273	21.082ug/ml	98
46)	3-Nitroaniline	9.16	138	458056	27.244ug/ml	92
47)	Acenaphthene	9.29	153	2027406	21.263ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	289974	19.656ug/ml	100
49)	4-Nitrophenol	9.47	109	226152	20.110ug/ml	90
51)	Dibenzofuran	9.59	168	2895653	20.571ug/ml	95
52)	2,4-Dinitrotoluene	9.57	165	702073	21.608ug/ml	80
53)	2,3,4,6-Tetrachlorophenol	9.80	232	632713	20.137ug/mL	92
54)	Diethylphthalate	10.00	149	2565749	22.978ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	1331048	22.105ug/ml	89
56)	Fluorene	10.19	166	2463018	22.092ug/ml	98
58)	4-Nitroaniline	10.22	138	484454	23.090ug/ml	78
60)	4,6-Dinitro-2-methylphenol	10.29	198	473376	20.166ug/ml	89
62)	N-Nitrosodiphenylamine	10.41	169	1685405	20.793ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	814402	20.726ug/ml	86
64)	Hexachlorobenzene	11.17	284	855280	20.630ug/ml	81
65)	Atrazine	11.39	200	602242	18.086ug/ml	98
66)	Pentachlorophenol	11.54	266	410447	18.967ug/ml	99
67)	Phenanthrene	11.93	178	3525233	21.136ug/ml	99
68)	Anthracene	12.02	178	3619515	21.099ug/ml	99
70)	Carbazole	12.33	167	3004640	21.592ug/mL	96
71)	Di-n-butylphthalate	13.02	149	4432885	22.873ug/ml	99
72)	Fluoranthene	14.03	202	4218934	22.060ug/ml	88
74)	Pyrene	14.38	202	4465849	20.603ug/ml	86
76)	Butylbenzylphthalate	15.30	149	1894354	20.380ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	1542651	21.618ug/ml	95
78)	Benzo(a)anthracene	16.01	228	4607083	21.030ug/ml	97
79)	Chrysene	16.06	228	4162657	21.057ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	3045342	21.203ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM17S20.D Vial: 1
Acq On : 05/28/2015 09:45 Operator: DJC
Sample : SSTD020DM 28104 DFTPPDM Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:11:08 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	17.04	149	4829873	21.417ug/ml	98
83)	Benzo(b)fluoranthene	17.79	252	4420161	21.673ug/ml	93
84)	Benzo(k)fluoranthene	17.84	252	4155856	20.849ug/ml	93
85)	Benzo(a)pyrene	18.48	252	4156658	21.008ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	21.56	276	4067063	21.507ug/ml	75
88)	Dibenzo(a,h)anthracene	21.64	278	4122469	21.154ug/ml	89
89)	Benzo(g,h,i)perylene	22.48	276	4014517	20.998ug/ml	85

(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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 15:59

Lab File ID: DFM28S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.723	0.010	-9.8	50.0
Phenol	1.288	1.366	0.010	6.0	50.0
Bis(2-chloroethyl)ether	1.134	1.082	0.010	-4.6	50.0
2-Chlorophenol	1.178	1.237	0.010	5.0	50.0
2-Methylphenol	0.999	1.067	0.010	6.8	50.0
2,2'-Oxybis(1-chloropropane)	1.638	1.794	0.010	9.5	50.0
Acetophenone	1.424	1.553	0.010	9.0	50.0
4-Methylphenol	1.043	1.136	0.010	8.9	50.0
N-Nitroso-di-n-propylamine	0.700	0.774	0.010	10.6	50.0
Hexachloroethane	0.556	0.560	0.010	0.6	50.0
Nitrobenzene	0.322	0.347	0.010	7.8	50.0
Isophorone	0.555	0.601	0.010	8.2	50.0
2-Nitrophenol	0.196	0.197	0.010	0.8	50.0
2,4-Dimethylphenol	0.315	0.323	0.010	2.4	50.0
Bis(2-chloroethoxy)methane	0.359	0.379	0.010	5.6	50.0
2,4-Dichlorophenol	0.314	0.325	0.010	3.5	50.0
Naphthalene	0.957	1.005	0.010	5.0	50.0
4-Chloroaniline	0.290	0.359	0.010	24.1	50.0
Hexachlorobutadiene	0.240	0.245	0.010	2.2	50.0
Caprolactam	0.084	0.094	0.010	11.7	50.0
4-Chloro-3-methylphenol	0.262	0.273	0.010	4.0	50.0
2-Methylnaphthalene	0.648	0.673	0.010	3.9	50.0
Hexachlorocyclopentadiene	0.382	0.212	0.010	-44.5	50.0
2,4,6-Trichlorophenol	0.392	0.398	0.010	1.7	50.0
2,4,5-Trichlorophenol	0.414	0.424	0.010	2.5	50.0
1,1'-Biphenyl	1.267	1.354	0.010	6.8	50.0
2-Chloronaphthalene	1.060	1.110	0.010	4.7	50.0
2-Nitroaniline	0.273	0.294	0.010	7.9	50.0
Dimethylphthalate	1.193	1.245	0.010	4.4	50.0
2,6-Dinitrotoluene	0.260	0.273	0.010	5.3	50.0
Acenaphthylene	1.661	1.758	0.010	5.9	50.0
3-Nitroaniline	0.182	0.263	0.010	44.7	50.0
Acenaphthene	1.030	1.107	0.010	7.5	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 15:59

Lab File ID: DFM28S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.125	0.010	-21.7	50.0
4-Nitrophenol	0.121	0.127	0.010	4.3	50.0
Dibenzofuran	1.520	1.569	0.010	3.2	50.0
2,4-Dinitrotoluene	0.351	0.375	0.010	7.0	50.0
Diethylphthalate	1.206	1.244	0.010	3.2	50.0
Fluorene	1.204	1.331	0.010	10.6	50.0
4-Chlorophenyl-phenylether	0.650	0.706	0.010	8.5	50.0
4-Nitroaniline	0.227	0.274	0.010	21.1	50.0
4,6-Dinitro-2-methylphenol	0.141	0.118	0.010	-16.5	50.0
N-Nitrosodiphenylamine (1)	0.486	0.514	0.010	5.6	50.0
1,2,4,5-Tetrachlorobenzene	0.635	0.664	0.010	4.5	50.0
4-Bromophenyl-phenylether	0.236	0.237	0.010	0.6	50.0
Hexachlorobenzene	0.249	0.244	0.010	-1.9	50.0
Atrazine	0.200	0.166	0.010	-16.9	50.0
Pentachlorophenol	0.130	0.117	0.010	-9.8	50.0
Phenanthrene	1.000	1.062	0.010	6.1	50.0
Anthracene	1.029	1.081	0.010	5.0	50.0
Carbazole	0.835	0.916	0.010	9.8	50.0
Di-n-butylphthalate	1.163	1.254	0.010	7.9	50.0
Fluoranthene	1.147	1.252	0.010	9.1	50.0
Pyrene	1.040	1.119	0.010	7.6	50.0
Butylbenzylphthalate	0.446	0.473	0.010	6.1	50.0
3,3'-Dichlorobenzidine	0.342	0.377	0.010	10.0	50.0
Benzo(a)anthracene	1.051	1.121	0.010	6.7	50.0
Chrysene	0.948	1.022	0.010	7.8	50.0
Bis(2-ethylhexyl)phthalate	0.689	0.757	0.010	9.9	50.0
Di-n-octylphthalate	1.180	1.355	0.010	14.8	50.0
Benzo(b)fluoranthene	1.067	1.148	0.010	7.5	50.0
Benzo(k)fluoranthene	1.043	1.114	0.010	6.8	50.0
Benzo(a)pyrene	1.036	1.082	0.010	4.5	50.0
Indeno(1,2,3-cd)pyrene	0.990	0.965	0.010	-2.5	50.0
Dibenzo(a,h)anthracene	1.020	1.000	0.010	-1.9	50.0
Benzo(g,h,i)perylene	1.001	0.924	0.010	-7.7	50.0
2,3,4,6-Tetrachlorophenol	0.339	0.348	0.010	2.4	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 15:59

Lab File ID: DFM28S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

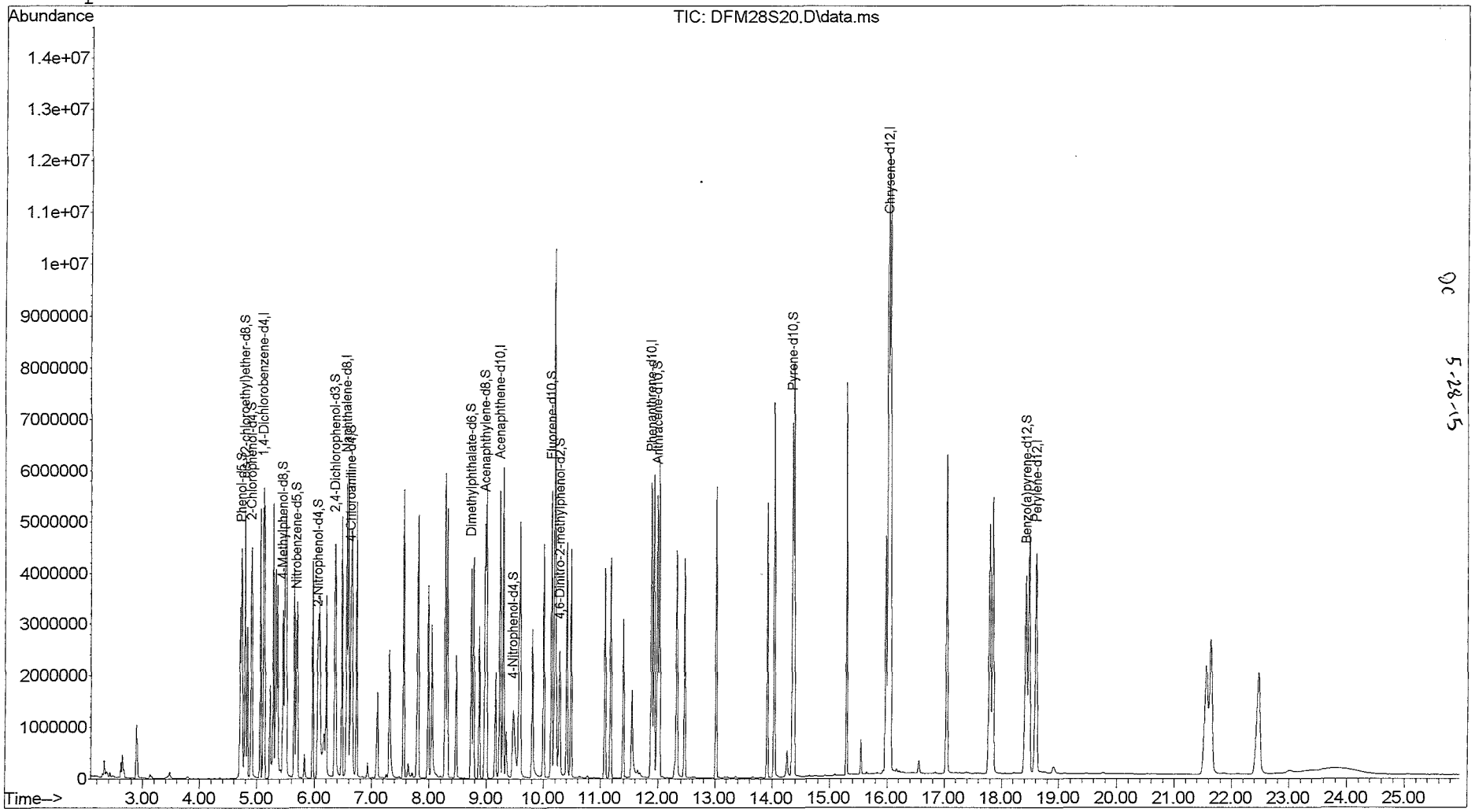
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.293	0.010	3.9	50.0
Bis(2-chloroethyl)ether-d8	0.911	0.963	0.010	5.8	50.0
2-Chlorophenol-d4	1.241	1.249	0.010	0.6	50.0
4-Methylphenol-d8	0.933	0.932	0.010	-0.1	50.0
Nitrobenzene-d5	0.164	0.166	0.010	1.1	50.0
2-Nitrophenol-d4	0.194	0.185	0.010	-4.7	50.0
2,4-Dichlorophenol-d3	0.314	0.317	0.010	0.9	50.0
4-Chloroaniline-d4	0.236	0.295	0.010	25.1	50.0
Dimethylphthalate-d6	1.233	1.257	0.010	1.9	50.0
Acenaphthylene-d8	1.624	1.641	0.010	1.1	50.0
4-Nitrophenol-d4	0.205	0.199	0.010	-2.6	50.0
Fluorene-d10	1.090	1.106	0.010	1.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.102	0.010	-19.1	50.0
Anthracene-d10	1.025	1.011	0.010	-1.3	50.0
Pyrene-d10	0.842	0.844	0.010	0.2	50.0
Benzo(a)pyrene-d12	0.915	0.905	0.010	-1.1	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM28S20.D Vial: 1
Acq On : 05/28/2015 15:59 Operator: DJC
Sample : SSTD020M1 28104 DFTPPM1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 16:25:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 16:31:11 2015
Response via : Initial Calibration



5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM28S20.D Vial: 1
Acq On : 05/28/2015 15:59 Operator: DJC
Sample : SSTD020M1 28104 DFTPPM1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 16:25:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 16:31:11 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	924739	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3132954	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1970691	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3539560	20.00 ug/ml
73) Chrysene-d12	16.02	240	4241235	20.00 ug/ml
81) Perylene-d12	18.60	264	3782552	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1195793	20.777ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	890792	21.153ug/mL
7) 2-Chlorophenol-d4	4.90	132	1154589	20.126ug/ml
13) 4-Methylphenol-d8	5.45	113	861665	19.973ug/mL
17) Nitrobenzene-d5	5.68	128	518721	20.215ug/ml
21) 2-Nitrophenol-d4	6.05	143	580077	19.063ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	992305	20.179ug/mL
28) 4-Chloroaniline-d4	6.63	131	924336	25.020ug/mL
42) Dimethylphthalate-d6	8.73	166	2476777	20.384ug/mL
45) Acenaphthylene-d8	8.97	160	3233802	20.213ug/mL
50) 4-Nitrophenol-d4	9.46	143	393133	19.481ug/mL
57) Fluorene-d10	10.14	176	2179973	20.304ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	361770	16.185ug/mL
69) Anthracene-d10	11.99	188	3579681	19.740ug/mL
75) Pyrene-d10	14.35	212	3578162	20.034ug/mL
86) Benzo(a)pyrene-d12	18.42	264	3425072	19.786ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	668367	18.036ug/ml 93
4) Phenol	4.74	94	1262734	21.196ug/ml 89
5) Bis(2-chloroethyl)ether	4.83	93	1000424	19.085ug/ml 98
8) 2-Chlorophenol	4.91	128	1143622	21.001ug/ml 99
9) 2-Methylphenol	5.32	108	986771	21.359ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1658984	21.901ug/ml 100
11) Acetophenone	5.50	105	1435958	21.802ug/ml 89
12) 4-methylphenol	5.47	108	1050319	21.789ug/ml 99
14) N-Nitroso-di-n-propylamine	5.49	70	715680	22.125ug/ml 82
15) Hexachloroethane	5.65	117	517503	20.125ug/ml 80
18) Nitrobenzene	5.70	77	1085931	21.553ug/ml 96
19) Isophorone	5.96	82	1881408	21.648ug/ml 94
20) 2-Nitrophenol	6.07	139	617368	20.157ug/ml 87
22) 2,4-Dimethylphenol	6.09	107	1010794	20.471ug/ml 90
23) Bis(2-chloroethoxy)methane	6.20	93	1188364	21.123ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	1017755	20.697ug/ml 96
26) Naphthalene	6.59	128	3147867	20.994ug/ml 100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM28S20.D Vial: 1
Acq On : 05/28/2015 15:59 Operator: DJC
Sample : SSTD020M1 28104 DFTPPM1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 16:25:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 16:31:11 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.64	127	1125491	24.814ug/ml	98
29)	Hexachlorobutadiene	6.73	225	768726	20.434ug/ml	99
30)	Caprolactam	7.10	113	294862	22.342ug/ml	92
31)	4-Chloro-3-methylphenol	7.31	107	855037	20.795ug/ml	94
32)	2-Methylnaphthalene	7.56	142	2107835	20.778ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	1307758	20.904ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	417801	11.101ug/ml	99
36)	2,4,6-Trichlorophenol	7.98	196	785198	20.331ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	835110	20.494ug/ml	98
38)	1,1'-Biphenyl	8.28	154	2668300	21.369ug/ml	96
39)	2-Chloronaphthalene	8.32	162	2187583	20.944ug/ml	89
40)	2-Nitroaniline	8.47	65	580289	21.572ug/ml	97
41)	Dimethylphthalate	8.77	163	2453941	20.876ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	538934	21.062ug/ml	95
44)	Acenaphthylene	9.00	152	3464552	21.170ug/ml	98
46)	3-Nitroaniline	9.16	138	517774	28.941ug/ml	95
47)	Acenaphthene	9.29	153	2181916	21.505ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	245857	15.662ug/ml	100
49)	4-Nitrophenol	9.47	109	249514	20.850ug/ml	92
51)	Dibenzofuran	9.59	168	3091055	20.637ug/ml	95
52)	2,4-Dinitrotoluene	9.57	165	739785	21.398ug/ml	76
53)	2,3,4,6-Tetrachlorophenol	9.80	232	685024	20.488ug/mL	92
54)	Diethylphthalate	10.00	149	2451708	20.634ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	1390513	21.702ug/ml	90
56)	Fluorene	10.19	166	2623883	22.117ug/ml	99
58)	4-Nitroaniline	10.22	138	540902	24.227ug/ml	81
60)	4,6-Dinitro-2-methylphenol	10.29	198	415993	16.693ug/ml	92
62)	N-Nitrosodiphenylamine	10.40	169	1817785	21.125ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	839382	20.122ug/ml	87
64)	Hexachlorobenzene	11.17	284	863517	19.620ug/ml	84
65)	Atrazine	11.39	200	587800	16.628ug/ml	97
66)	Pentachlorophenol	11.54	266	414538	18.044ug/ml	98
67)	Phenanthrene	11.93	178	3759053	21.230ug/ml	99
68)	Anthracene	12.02	178	3825096	21.003ug/ml	98
70)	Carbazole	12.32	167	3243320	21.955ug/mL	96
71)	Di-n-butylphthalate	13.02	149	4438193	21.572ug/ml	99
72)	Fluoranthene	14.03	202	4430799	21.824ug/ml	89
74)	Pyrene	14.38	202	4747049	21.528ug/ml	87
76)	Butylbenzylphthalate	15.29	149	2005613	21.210ug/ml	95
77)	3,3'-Dichlorobenzidine	15.97	252	1596987	22.000ug/ml	96
78)	Benzo(a)anthracene	16.01	228	4754671	21.335ug/ml	97
79)	Chrysene	16.06	228	4336483	21.564ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	3210426	21.973ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\28MAY15\DFM28S20.D Vial: 1
Acq On : 05/28/2015 15:59 Operator: DJC
Sample : SSTD020M1 28104 DFTPPM1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 16:25:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 16:31:11 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	5126276	22.963ug/ml	99
83) Benzo(b)fluoranthene	17.79	252	4342016	21.507ug/ml	93
84) Benzo(k)fluoranthene	17.84	252	4215469	21.364ug/ml	93
85) Benzo(a)pyrene	18.47	252	4092725	20.896ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.55	276	3651075	19.504ug/ml	77
88) Dibenzo(a,h)anthracene	21.63	278	3783673	19.614ug/ml	90
89) Benzo(g,h,i)perylene	22.46	276	3495212	18.468ug/ml	86

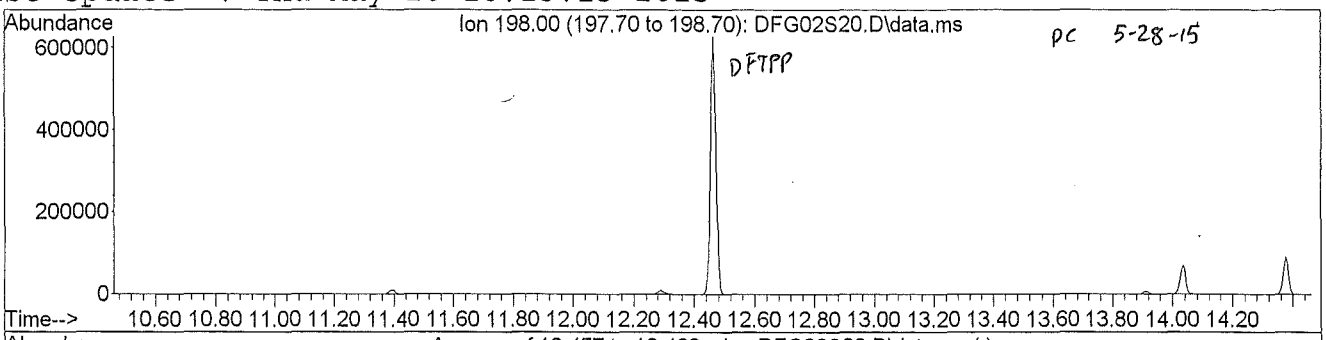
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

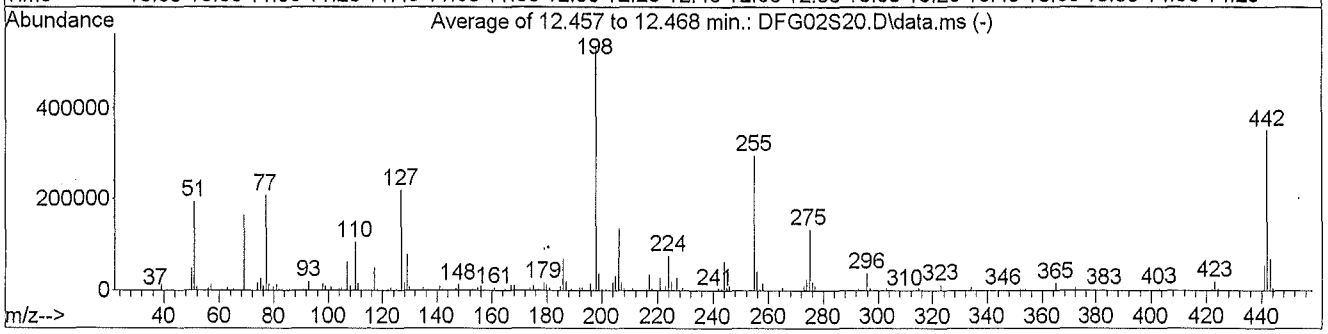
Data Path : C:\msdchem\1\DATA\2015\MAY15\21MAY15\
Data File : DFG02S20.D
Acq On : 05/21/2015 14:38
Operator : DJC
Sample : SSTD020DG 28104 DFTPPDG
Inst : 5975-D
Misc : . X6-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015

Original with SDG: F9K50
Case: 45316





Average of Scan 1763, 1764, 1765; Background corrected with Scan 1753

Spectrum Information: Average of 12.457 to 12.468 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	193564	PASS
68	69	0.00	2	1.4	2286	PASS
69	198	0.00	100	30.4	163553	PASS
70	69	0.00	2	1.0	1628	PASS
127	198	10	80	40.8	219404	PASS
197	198	0.00	2	0.5	2433	PASS
198	198	100	100	100.0	537792	PASS
199	198	5	9	6.8	36485	PASS
275	198	10	60	24.9	133741	PASS
365	198	1	100	2.9	15386	PASS
441	443	0.01	100	77.9	53181	PASS
442	198	50	100	65.3	351381	PASS
443	442	15	24	19.4	68240	PASS

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	134	49.00	1285	60.95	2013	71.95	49
36.95	680	50.00	47706	61.95	1858	73.00	1065
38.00	1923	50.95	193564	62.90	6228	73.95	15635
39.00	14087	51.95	9725	63.95	976	74.95	25657
39.90	517	52.95	362	64.95	3393	76.00	10138
41.00	530	55.00	1119	65.90	214	77.00	207901
41.95	72	56.00	4716	66.95	303	78.00	13859
43.00	295	57.00	11969	67.90	2286	78.90	10151
44.90	449	57.90	499	68.90	163553	79.95	8558
47.85	152	58.90	69	70.00	1628	80.90	12911
48.10	50	59.90	275	71.00	1147	81.95	3038

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	4107	93.95	1473	104.90	4089	117.95	3748
83.75	662	94.90	286	106.00	1697	118.95	386
84.10	271	95.95	1052	106.95	62941	119.90	869
84.90	2631	97.00	399	108.00	9473	120.90	204
85.90	2746	97.95	14382	108.95	1375	121.95	3343
86.90	1343	98.90	10919	109.90	105071	122.90	5118
87.90	400	99.85	947	110.95	15795	123.90	2467
88.90	107	100.90	7530	111.95	2221	124.95	2932
90.95	2312	101.95	531	112.90	285	126.00	1089
91.95	2699	102.95	2178	115.95	2955	126.90	219404
92.90	19013	103.95	3980	116.90	50139	127.90	15935

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.90	78067	141.90	3411	151.85	809	162.90	587
129.90	6819	142.90	2368	152.90	3136	163.90	349
130.95	1517	143.80	217	153.90	2569	164.90	3721
131.95	688	143.95	423	154.95	6457	166.00	982
133.05	414	144.85	614	155.95	9623	167.00	12557
133.95	2072	145.90	1910	156.95	2002	167.95	10687
134.90	6190	146.90	5325	157.90	1799	168.95	1993
135.90	2639	147.90	12638	158.90	1494	169.90	636
136.90	3620	148.90	2312	159.90	3091	170.85	942
137.85	406	149.90	700	160.90	5269	171.90	1917
140.90	9260	151.00	1515	161.95	1554	172.90	2478

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	5058	183.95	1307	194.95	825	206.00	135576
175.00	9396	184.95	8335	195.90	14384	206.95	17362
175.95	2669	186.00	67997	196.80	1059	207.90	3992
176.90	3670	187.00	18957	197.00	2433	208.90	1225
177.90	1102	187.95	2019	197.90	537792	210.05	2350
178.85	16461	188.90	3397	198.90	36485	210.95	5433
179.95	11987	189.85	627	199.90	2899	212.80	85
180.95	6195	190.90	1750	201.45	2737	212.95	286
181.95	953	191.90	5835	202.90	3387	213.70	57
182.70	166	192.90	6482	203.90	18488	214.00	69
182.85	433	193.90	1401	204.95	31696	214.90	1373

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	2806	228.90	6598	239.95	887	250.85	551
216.90	34141	229.90	975	240.90	1638	251.95	579
217.90	4440	230.95	2966	241.95	4200	252.95	1284
218.85	492	231.85	560	243.00	4246	254.00	2608
220.95	26925	232.90	486	244.00	61589	254.90	295765
222.90	8226	233.85	1896	245.00	8185	255.90	43349
223.95	75768	234.90	2193	245.90	10350	256.95	3278
224.95	19232	235.95	1496	246.90	1997	257.90	15758
225.95	1935	236.90	2603	247.95	523	258.90	2561
226.90	28301	237.95	397	248.90	2180	259.85	490
227.90	3814	238.95	1094	249.95	491	260.85	530

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
262.90	157	273.90	24939	285.00	1867	295.90	37245
263.75	435	274.95	133741	285.80	94	296.90	5146
264.95	6394	275.95	18072	286.00	240	297.90	363
265.90	1277	276.90	10619	288.05	120	298.90	144
266.80	64	277.95	1914	288.90	474	300.90	528
267.85	311	278.90	427	289.95	397	302.00	605
268.80	52	280.90	55	290.85	283	303.00	4218
269.85	373	281.10	108	291.90	499	303.95	1172
270.90	619	281.95	336	292.90	2595	304.90	145
271.95	802	282.90	1292	293.90	651	307.95	534
272.90	9595	283.90	725	294.90	567	308.95	390

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.85	533	320.95	1116	332.95	1149	351.10	97
311.10	56	321.95	642	334.00	7207	352.00	3522
311.50	51	323.00	11769	335.00	1935	353.00	2404
312.00	51	323.95	2254	335.90	157	354.00	3497
312.95	312	324.95	244	338.80	166	354.95	724
313.95	1781	325.85	236	340.95	1257	358.80	114
314.90	4034	326.90	2322	341.95	294	359.00	81
315.95	2378	327.80	239	342.80	50	363.80	62
316.80	110	327.95	882	345.90	2413	364.90	15386
317.00	324	328.90	149	346.90	488	365.90	2002
319.95	149	331.95	913	350.90	137	366.85	131

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

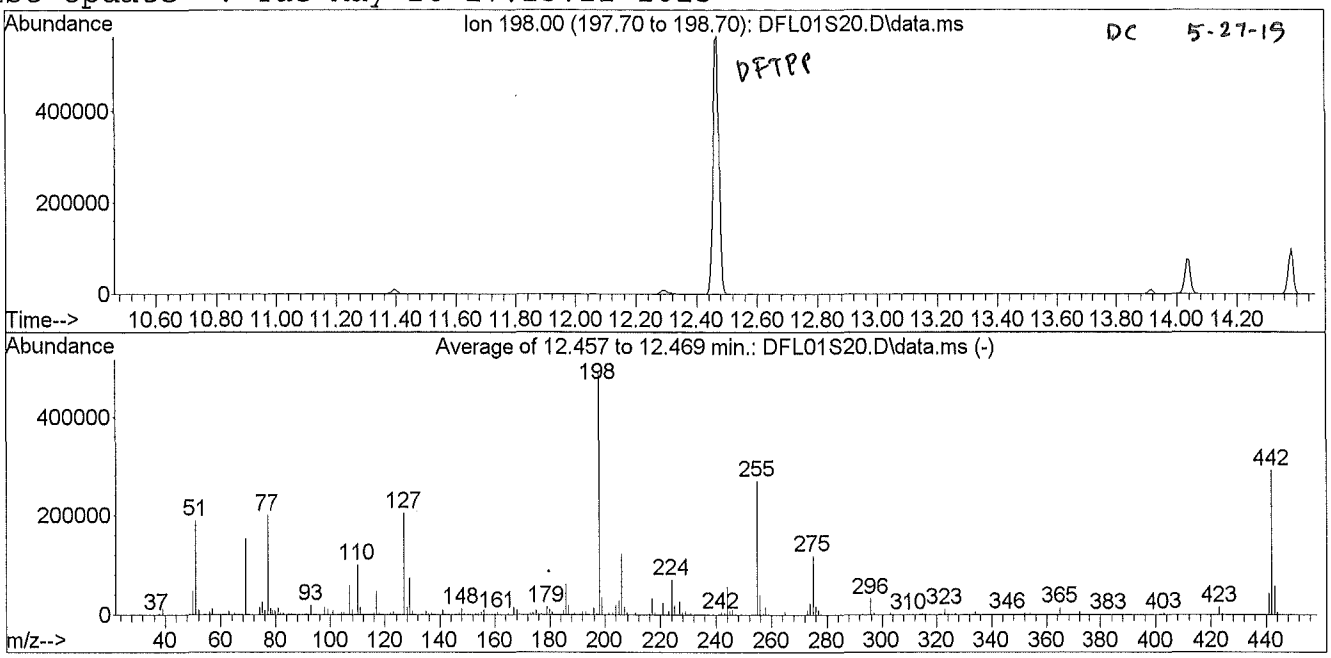
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
369.90	341	391.95	282	425.00	375	439.90	225
370.95	802	400.90	347	434.10	56	441.00	53181
372.00	5649	401.95	2189	435.00	108	442.00	351381
373.05	1427	403.00	3097	435.50	56	443.00	68240
374.00	128	403.95	1173	436.45	148	444.00	6462
376.90	57	404.90	59	437.10	63	444.95	314
382.90	1519	414.85	149	437.80	167		
383.90	442	420.95	2548	438.30	103		
389.95	695	422.00	2473	438.70	87		
391.00	548	423.00	18427	439.15	209		
391.80	65	424.00	3761	439.60	65		

DFTPP

Data Path : C:\msdchem\1\DATA\2015\MAY15\27MAY15\
Data File : DFL01S20.D
Acq On : 05/27/2015 08:33
Operator : DJC
Sample : SSTD020DL 28104 DFTPPDL
Inst : 5975-D
Misc : . X6-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Tue May 26 17:25:22 2015



Average scans 1763, 1764, 1765 ; Background corrected with scan 1753

Spectrum Information: Average of 12.457 to 12.469 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.6	189853	PASS
68	69	0.00	2	1.5	2269	PASS
69	198	0.00	100	31.0	152618	PASS
70	69	0.00	2	0.6	917	PASS
127	198	10	80	41.6	204989	PASS
197	198	0.00	2	0.6	3128	PASS
198	198	100	100	100.0	492459	PASS
199	198	5	9	6.8	33565	PASS
275	198	10	60	23.9	117880	PASS
365	198	1	100	2.8	13582	PASS
441	443	0.01	100	74.3	42912	PASS
442	198	50	100	59.1	291008	PASS
443	442	15	24	19.8	57741	PASS

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	84	48.90	1248	59.95	116	71.00	887
36.85	539	49.95	46699	60.90	1515	71.90	229
37.95	2119	51.00	189853	61.90	2006	73.00	1023
39.00	13038	52.00	9217	62.95	6186	74.00	15179
39.90	612	52.95	262	63.95	882	75.00	24567
41.00	318	53.85	75	64.95	3230	75.95	9732
43.00	662	55.00	865	65.95	382	77.00	199909
43.95	7	56.00	4693	67.00	599	77.95	13613
44.90	341	57.00	12059	67.90	2269	78.90	9240
46.90	54	57.95	389	68.90	152618	79.90	7904
48.00	96	58.85	142	69.90	917	80.95	12743

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.95	3367	91.95	2828	102.90	1865	114.05	213
82.95	3855	92.90	18160	103.95	4031	115.10	232
83.75	720	93.90	1270	104.90	3791	115.90	2473
84.00	320	94.95	412	105.90	1255	116.85	46933
84.90	2641	95.95	1067	106.90	58895	117.90	3495
85.90	2823	96.95	447	107.95	9130	118.90	75
86.90	1291	97.95	13948	108.95	1444	119.95	608
87.90	372	99.00	11339	109.90	99737	120.95	192
88.90	166	99.90	1057	110.95	15270	121.95	2943
89.85	110	100.90	7514	111.90	1975	122.90	5119
90.90	2353	101.80	305	112.90	443	123.90	2194

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.90	2372	135.95	2412	147.90	11755	157.90	1513
126.00	857	136.95	3269	148.90	2501	158.95	1415
126.90	204989	137.95	614	150.00	915	159.90	3026
128.00	15411	139.90	245	150.90	939	160.90	4862
128.90	74145	140.95	8562	151.10	485	161.95	1688
129.90	6413	141.95	3141	151.85	805	162.95	637
130.90	1365	142.95	2161	152.90	2764	163.90	212
131.85	685	143.95	792	153.95	2306	164.90	3063
132.90	354	144.90	480	155.00	6263	165.95	1457
133.90	1712	145.90	1689	156.00	8661	166.95	14957
134.95	6004	146.90	4873	156.95	1785	167.95	10116

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.90	1851	179.90	11004	190.95	1680	202.90	3099
169.95	772	180.90	5649	191.90	5447	203.90	17807
170.90	790	182.00	1068	192.95	6050	205.00	29373
171.90	1770	182.95	499	193.95	1430	206.00	121045
172.90	2601	183.95	1115	194.95	831	206.95	15636
173.95	4484	185.00	8263	195.90	13667	207.90	3559
174.95	9072	186.00	61912	196.95	3128	208.90	1151
175.95	2501	186.90	18420	197.90	492459	210.15	1888
176.90	3070	187.95	1796	198.90	33565	211.00	4724
177.90	1272	188.90	3047	199.90	2463	211.95	556
178.90	15194	189.95	510	201.40	2244	212.95	397

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.85	160	226.90	25781	236.95	2272	247.90	598
214.95	1180	227.90	3851	237.95	412	248.90	1961
215.95	2603	228.90	6225	238.90	1138	249.95	459
216.90	31648	229.85	953	239.90	801	250.90	611
217.95	4436	230.90	2794	240.95	1684	252.05	487
218.90	517	231.95	553	241.90	3696	252.95	1320
220.90	24001	232.80	138	243.00	4384	253.95	1892
222.90	7224	233.00	314	244.00	55517	254.90	269205
224.00	70024	233.90	1588	245.00	7808	255.90	39656
225.00	17459	234.90	2094	245.90	9332	256.95	2883
225.95	1864	235.85	1294	246.90	1823	257.90	14040

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.90	2485	269.80	345	280.85	198	292.95	2203
259.95	419	270.80	127	281.95	328	293.90	590
260.90	442	270.95	439	282.95	1168	294.90	757
261.90	62	271.95	813	283.95	785	295.90	32264
262.95	131	272.90	8874	284.95	1811	296.95	4744
263.75	275	273.90	21624	285.90	412	297.95	303
264.90	5715	274.95	117880	287.80	55	300.90	439
265.85	644	275.95	16310	288.90	424	301.90	604
266.70	142	276.90	9714	289.95	335	302.95	3639
267.00	88	277.90	1531	290.90	235	303.95	983
267.70	127	278.85	368	291.90	469	304.95	118

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
307.95	444	319.90	161	332.95	859	350.75	145
308.75	330	320.90	1176	333.95	6348	352.00	2939
309.90	366	322.05	486	334.95	1688	352.95	2031
311.00	75	323.00	10567	335.75	142	353.95	2942
311.90	72	323.95	1892	338.85	141	355.00	565
312.90	179	324.90	198	339.90	70	358.85	260
313.10	102	325.85	149	340.95	1245	364.90	13582
313.95	1636	326.90	2163	341.95	358	365.90	1708
314.90	3540	327.90	1086	345.95	2348	366.95	167
316.00	1988	328.90	224	346.95	440	369.95	275
316.95	307	331.95	711	349.90	51	370.95	861

Average of 12.457 to 12.469 min.: DFL01S20.D\data.ms
SSTD020DL 28104 DFTPPDL
Modified:subtracted

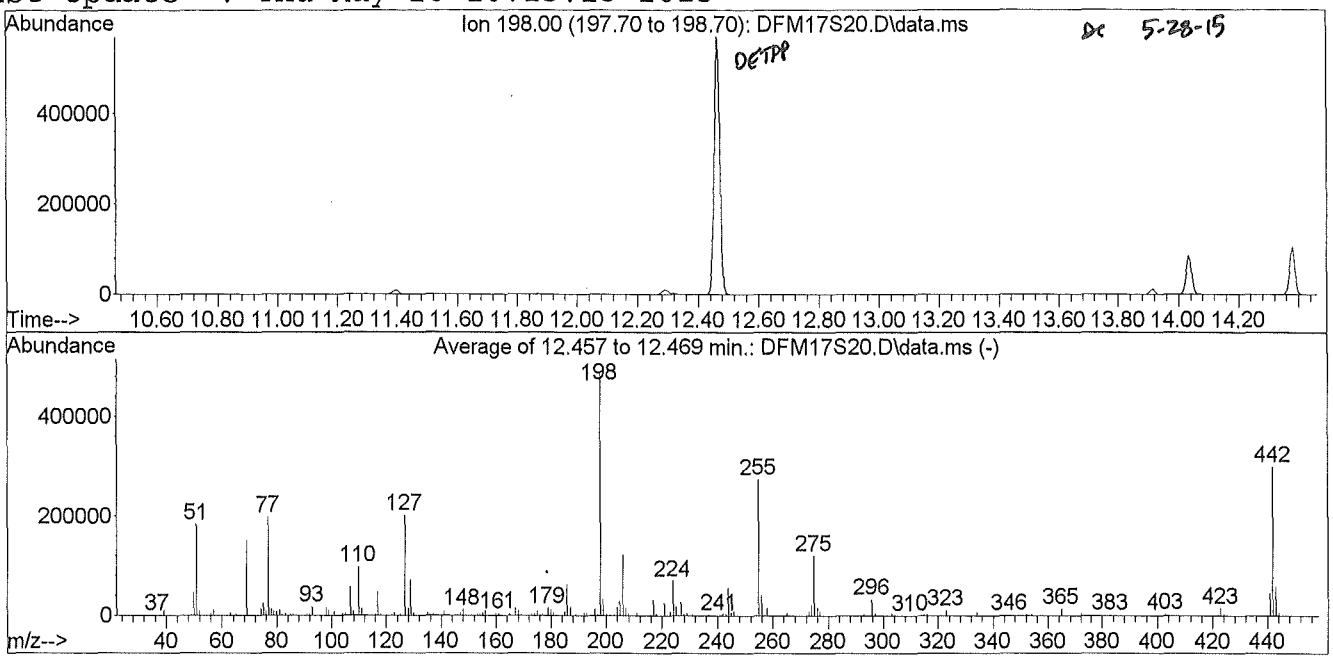
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.00	4758	401.95	1791	434.80	53	443.00	57741
373.00	1091	403.00	2526	435.50	82	444.00	5282
373.90	78	403.80	133	435.80	53	444.95	289
374.10	86	404.00	780	436.10	56		
376.90	70	404.95	124	436.90	192		
383.00	1230	414.85	140	437.60	51		
383.85	344	421.00	2358	438.40	265		
389.95	674	421.95	1978	439.10	161		
390.90	402	423.00	15210	440.00	129		
392.00	241	424.00	3040	441.00	42912		
400.90	185	425.00	287	442.00	291008		

DFTPP

Data Path : C:\msdchem\1\DATA\2015\MAY15\28MAY15\
Data File : DFM17S20.D
Acq On : 05/28/2015 09:45
Operator : DJC
Sample : SSTD020DM 28104 DFTPPDM
Inst : 5975-D
Misc : . X6-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015



Spectrum Information: Average of 12.457 to 12.469 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.3	182740	PASS
68	69	0.00	2	1.4	2077	PASS
69	198	0.00	100	30.8	150987	PASS
70	69	0.00	2	0.4	630	PASS
127	198	10	80	41.1	201637	PASS
197	198	0.00	2	0.6	3186	PASS
198	198	100	100	100.0	490240	PASS
199	198	5	9	6.8	33166	PASS
275	198	10	60	24.5	120336	PASS
365	198	1	100	2.8	13573	PASS
441	443	0.01	100	76.6	44587	PASS
442	198	50	100	61.0	298859	PASS
443	442	15	24	19.5	58181	PASS

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	142	49.95	45397	60.95	1628	72.00	44
37.00	700	50.95	182740	61.90	2033	72.90	1018
38.00	1895	51.95	8984	62.95	5752	74.00	14017
39.00	12748	52.90	455	63.95	754	74.95	23985
39.90	676	53.80	90	65.00	3179	75.95	9504
41.00	479	55.00	757	65.95	129	76.95	197017
42.20	98	55.90	4451	66.90	287	78.00	12967
43.00	480	57.00	11878	67.90	2077	79.00	9445
44.90	216	57.90	432	68.90	150987	79.90	7583
47.95	113	59.00	340	69.95	630	80.90	11279
48.90	1199	59.95	214	71.00	12	82.00	3105

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	4123	95.00	283	105.95	1552	116.90	46787
83.90	661	95.95	1017	106.90	56827	117.90	3539
84.95	2485	97.00	329	107.90	8861	118.90	241
85.90	2716	97.90	13490	108.90	1415	119.90	707
86.95	1287	98.90	10323	109.90	96666	120.95	255
87.90	361	99.85	1079	110.90	14616	121.90	3153
88.90	259	100.90	7214	111.90	1653	122.95	4941
90.90	2325	101.95	462	112.95	416	123.90	2097
91.95	2708	102.95	2018	113.95	89	124.90	2564
92.90	17695	103.95	3958	114.90	8	126.05	1081
93.95	1442	104.90	3533	115.90	2410	126.95	201637

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.90	14590	139.95	39	150.95	1269	160.95	4885
128.90	71429	140.90	8493	151.85	489	161.90	1706
129.90	5853	141.95	2842	152.05	12	162.90	505
130.90	1376	142.90	2299	152.90	3060	163.95	192
131.95	843	143.95	736	153.90	2169	164.90	3075
132.90	292	144.90	824	155.00	6114	166.00	554
133.90	1876	145.90	1870	155.95	8886	167.00	14531
134.90	6053	147.00	4928	156.95	1795	167.95	10195
135.90	2550	147.90	11565	157.90	1675	169.00	1696
136.95	2975	148.95	2482	158.90	1317	170.05	708
137.90	592	149.95	816	159.95	3211	170.95	848

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.90	1733	182.70	135	192.90	6207	204.95	28837
172.90	2403	182.95	359	193.95	1370	206.00	120867
173.95	4557	183.95	1354	194.95	902	207.00	16289
174.95	9132	184.95	7804	195.90	13618	207.90	3634
175.90	2229	185.95	62085	196.95	3186	208.90	1385
176.90	3142	186.95	17862	197.90	490240	210.05	1124
177.90	1222	187.90	1781	198.90	33166	210.90	4841
178.90	15255	188.95	2981	199.95	2714	211.75	624
179.90	11748	189.90	603	201.45	2260	212.85	438
180.90	5359	190.90	1743	202.90	2824	213.80	125
181.95	922	191.90	5365	203.95	17262	214.95	1252

00465

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	2634	227.90	4065	238.90	1109	249.85	486
216.90	31427	228.90	5912	239.85	813	250.85	496
217.90	4388	229.80	894	240.95	1604	251.85	507
218.90	541	230.95	2573	241.95	3736	252.95	1309
220.95	25160	231.90	611	243.00	4231	254.00	2362
221.75	3201	232.90	626	244.00	55656	254.90	273472
222.90	7802	233.90	1662	244.95	7340	255.95	40120
224.00	69453	234.90	1951	245.90	9695	256.90	2952
224.95	18040	235.90	1598	246.90	1819	257.90	14987
225.95	1902	236.90	2470	247.90	508	258.95	2282
226.90	26931	237.90	327	248.90	2102	259.90	392

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.85	539	272.90	8415	284.95	1777	295.90	32829
262.95	212	273.90	21925	285.90	425	296.90	4574
263.75	334	274.90	120336	287.80	59	297.95	370
264.95	5671	275.95	15908	288.90	348	298.90	61
265.75	789	276.90	9564	289.80	196	300.95	384
266.90	244	277.95	1645	290.10	103	301.85	597
267.70	92	278.85	308	290.90	232	302.95	3688
268.80	53	280.90	86	291.95	458	303.95	996
269.85	404	281.85	318	292.85	2204	304.95	143
270.95	525	282.95	1278	293.90	568	307.90	465
272.00	785	283.95	786	294.95	806	308.85	343

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.95	415	323.00	10729	335.90	230	355.00	725
310.85	115	323.95	1891	338.90	110	358.85	243
311.90	54	324.95	219	339.95	134	360.80	65
312.85	278	325.90	228	340.95	1161	363.80	64
313.95	1742	326.90	2037	342.00	333	364.90	13573
314.90	3626	327.95	948	345.95	2233	365.90	1959
315.95	2334	328.95	188	346.95	355	366.80	58
316.90	347	331.95	810	351.00	143	369.85	327
319.90	112	332.95	915	352.00	3092	370.90	741
320.90	1076	334.00	6361	353.00	1950	372.00	5084
322.00	477	334.95	1716	353.95	2907	372.95	1262

Average of 12.457 to 12.469 min.: DFM17S20.D\data.ms
SSTD020DM 28104 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.90	63	402.95	2799	434.00	50	439.85	181
376.80	57	403.95	943	434.30	54	441.00	44587
382.95	1488	404.70	60	435.30	67	442.00	298859
383.95	398	405.00	59	436.05	143	443.00	58181
384.90	68	415.10	65	436.70	76	444.00	5375
390.00	602	421.00	2445	437.00	81	444.95	344
390.80	115	422.00	2115	437.45	141		
390.95	349	423.00	15294	437.90	69		
391.95	364	424.00	3129	438.40	141		
400.95	371	424.90	257	438.85	162		
401.95	1868	433.70	53	439.50	101		

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL02BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL02BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL02BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

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-	2.47	70.	JN
02	625-86-5	Furan, 2,5-dimethyl-	2.62	110	JN
03		Unknown 4-Chloro-2-butanone	3.52	69.	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.71	4100	J
05		Unknown 1,2,3,4-Tetrahydropentalene, 1,1-dimethy	7.45	74.	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	710	J
07		Unknown 9-Octadecenamide, (Z)-	14.32	69.	J
08	629-54-9	Hexadecanamide	14.42	190	JN
09	301-02-0	9-Octadecenamide, (Z)-	15.32	1400	JN
10	124-26-5	Octadecanamide	15.41	76.	JN
11		Unknown 9-Octadecenamide, (Z)-	16.13	69.	J
12		Unknown 9-Octadecenamide, (Z)-	16.21	77.	J
13		Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimet	16.50	150	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

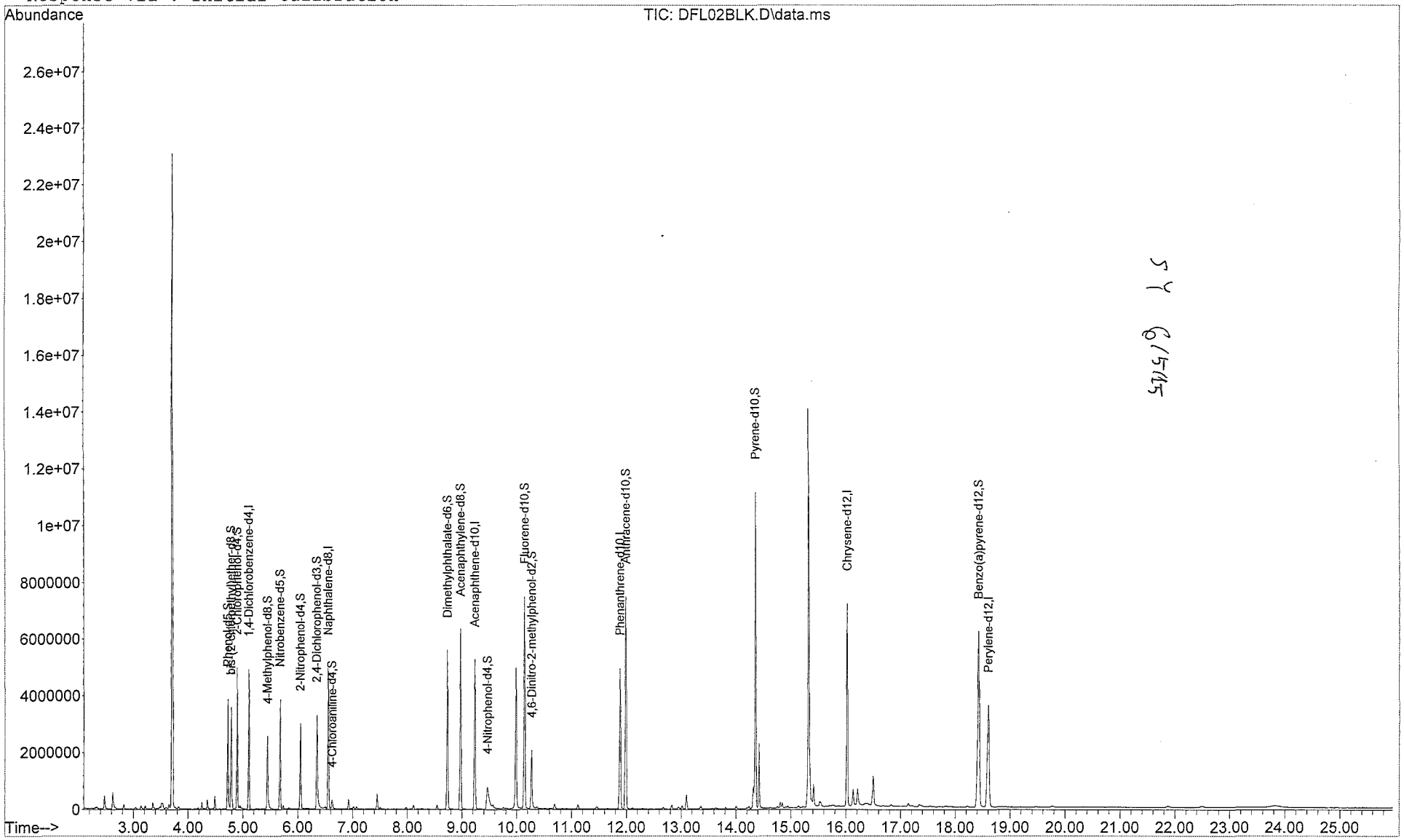
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 10:54:19 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5 1 6/5/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:54:19 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	827035	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2846652	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1752020	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2999012	20.00 ug/ml
73) Chrysene-d12	16.02	240	3503198	20.00 ug/ml
81) Perylene-d12	18.60	264	3362251	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1384273	26.894ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	941043	24.986ug/mL
7) 2-Chlorophenol-d4	4.89	132	1382669	26.950ug/ml
13) 4-Methylphenol-d8	5.45	113	765409	19.838ug/mL
17) Nitrobenzene-d5	5.67	128	628452	26.954ug/ml
21) 2-Nitrophenol-d4	6.05	143	726295	26.268ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1115690	24.970ug/mL
28) 4-Chloroaniline-d4	6.62	131	154103	4.591ug/mL
42) Dimethylphthalate-d6	8.73	166	3419032	31.651ug/mL
45) Acenaphthylene-d8	8.97	160	4152061	29.191ug/mL
50) 4-Nitrophenol-d4	9.46	143	481408	26.833ug/mL
57) Fluorene-d10	10.14	176	2942047	30.822ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	548405	28.956ug/mL
69) Anthracene-d10	11.99	188	5045451	32.838ug/mL
75) Pyrene-d10	14.35	212	5324080	36.089ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5501949	35.757ug/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)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:54:19 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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)

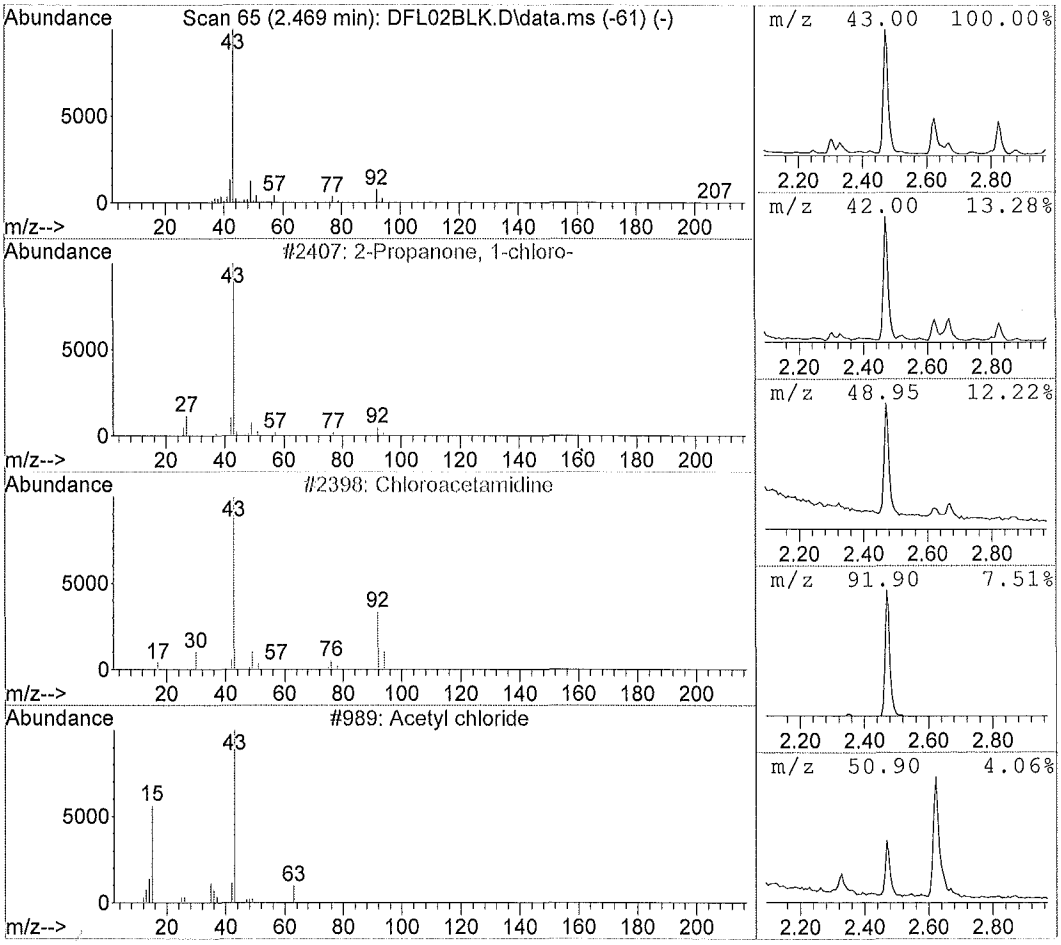
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.47	2.09 ug/ml	510650	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	86.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Acetyl chloride	989	000075-36-5	9.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00
5	2-Propanone, 1,1-dichloro-	10955	000513-88-2	4.00



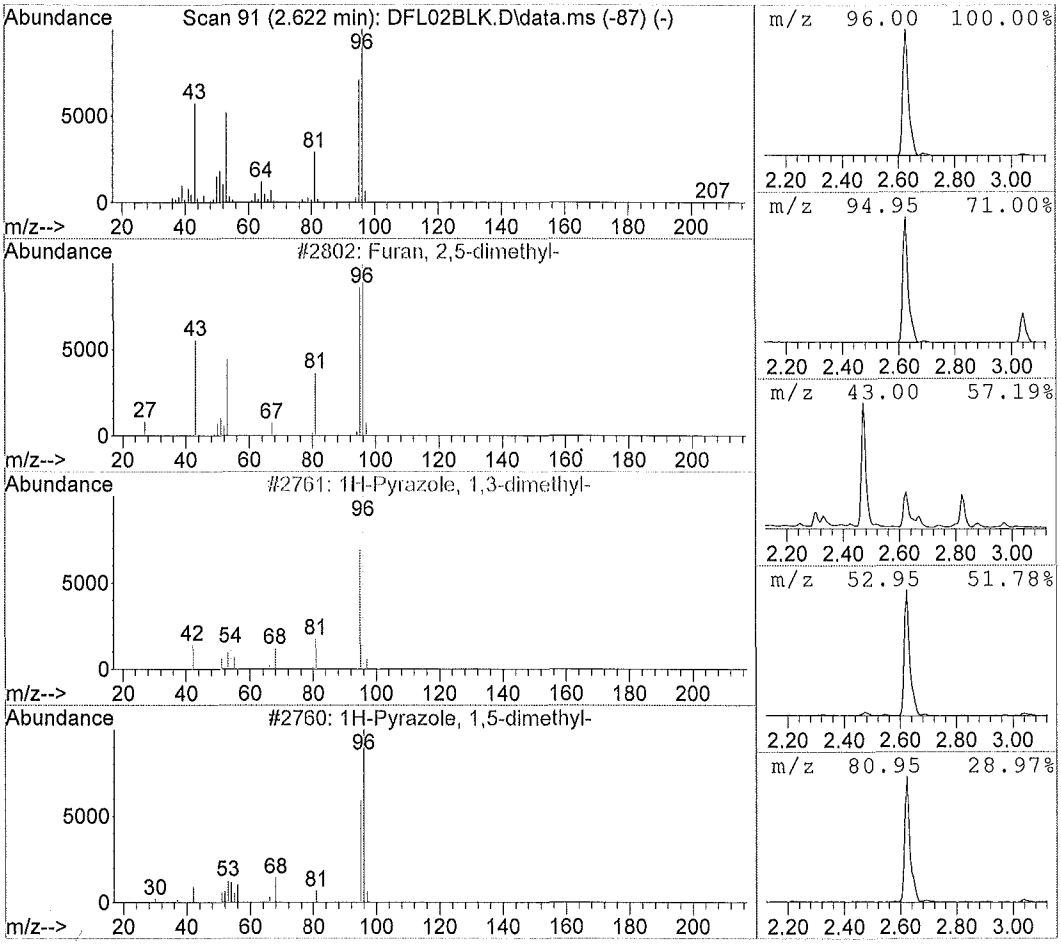
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.62	3.16 ug/ml	773114	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	90.00
2	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	35.00
3	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	35.00
4	Ethanone, 1-(methylenecyclopropyl)-	2825	062266-35-7	33.00
5	1H-Imidazole, 4,5-dimethyl-	2767	002302-39-8	27.00



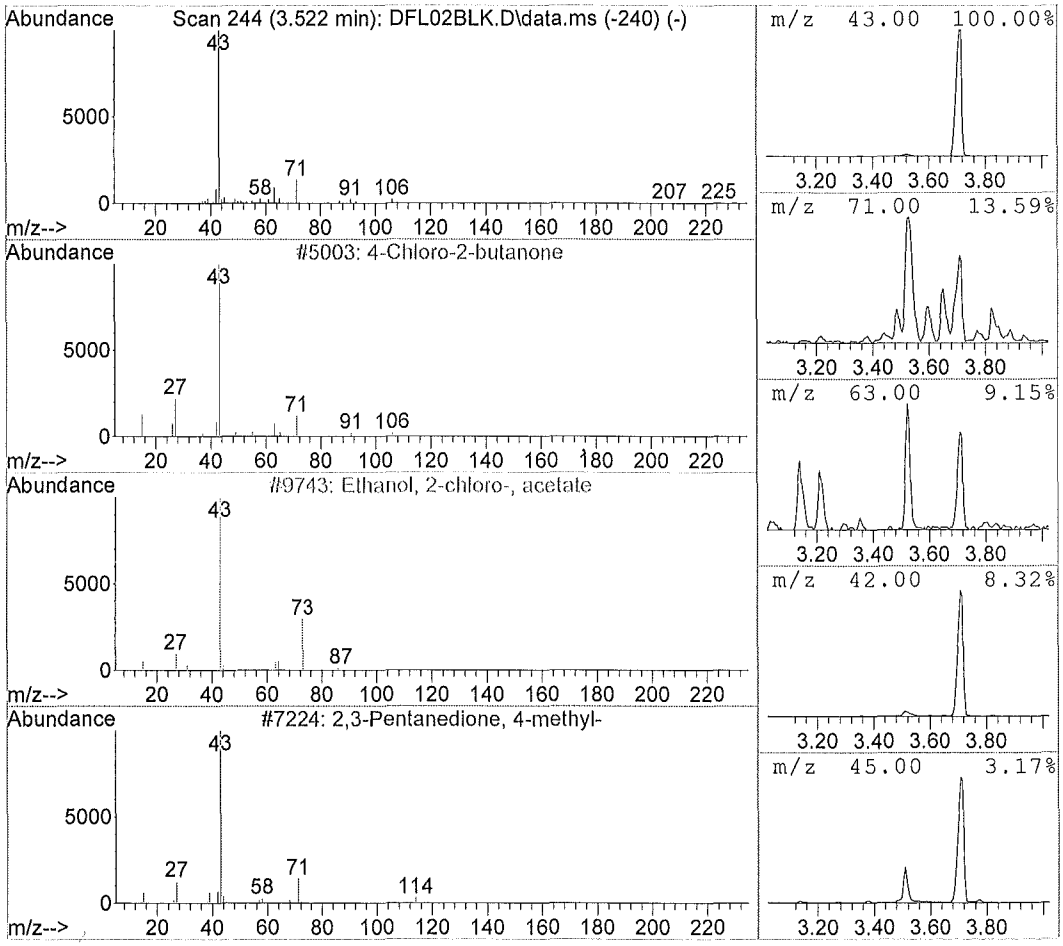
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.06 ug/ml	504453	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	72.00
2	Ethanol, 2-chloro-, acetate	9743	000542-58-5	36.00
3	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	25.00
4	Acetyl chloride	988	000075-36-5	9.00
5	2-Hexanone, 3-methyl-	7499	002550-21-2	9.00



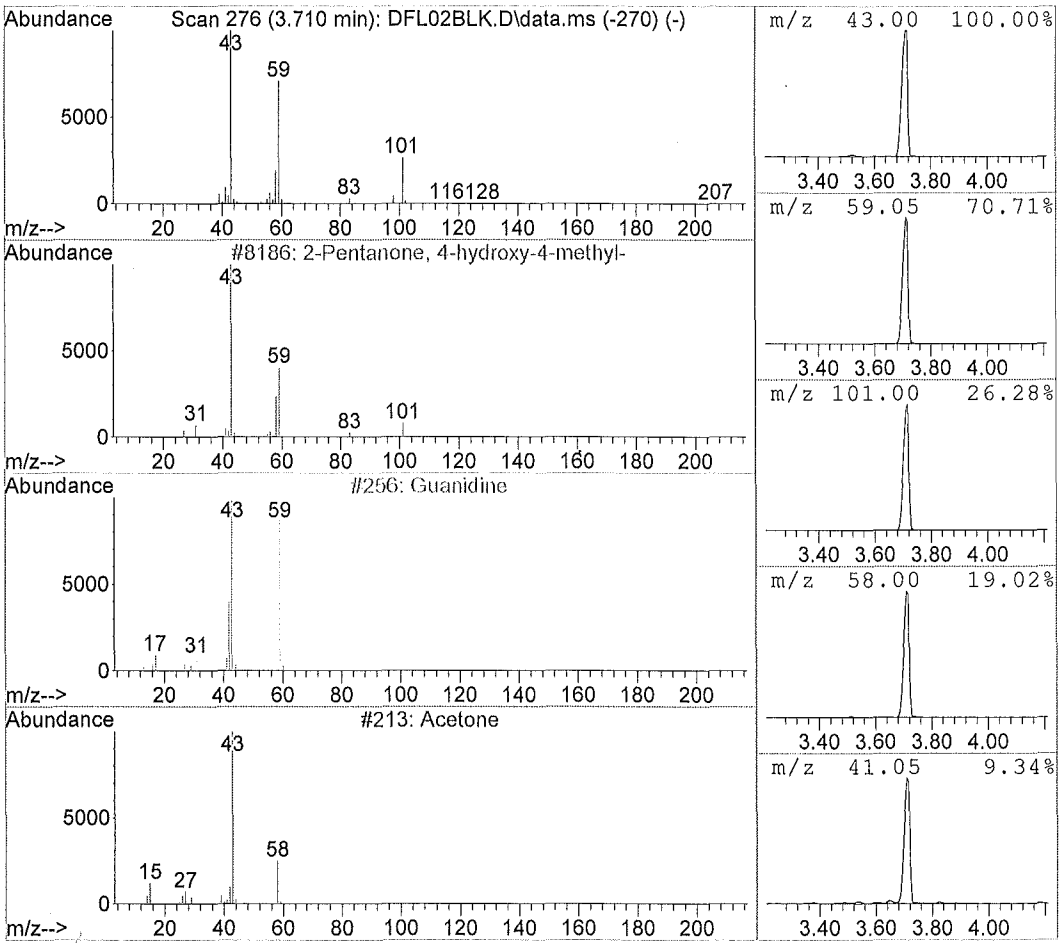
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.71	122.72 ug/ml	30032430	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	43.00
3	Acetone	213	000067-64-1	9.00
4	5-Hexen-2-one	3159	000109-49-9	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



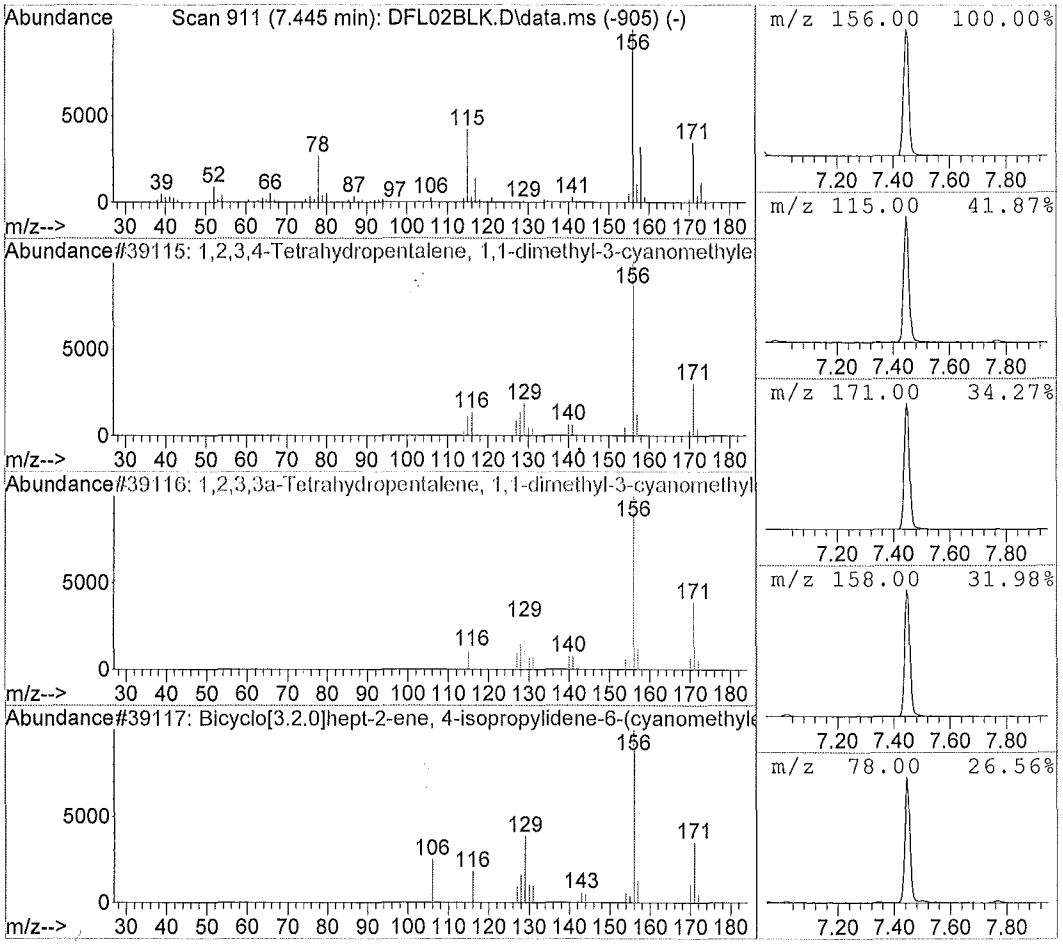
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.45	2.23 ug/ml	666689	Naphthalene-d8	5967128

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
2	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00
3	Bicyclo[3.2.0]hept-2-ene, 4-isoprop	39117	1000217-15-6	32.00
4	6-Isopropylquinoline	39076	000135-79-5	32.00
5	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00



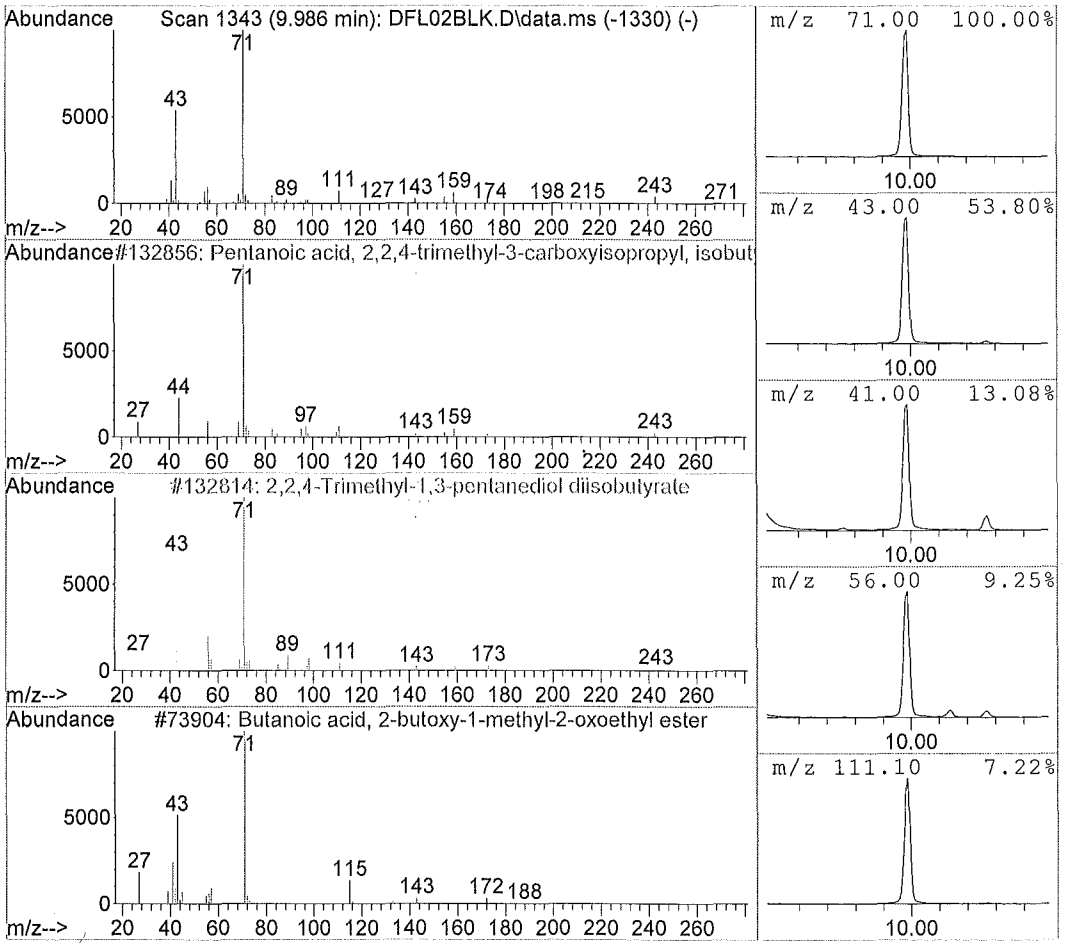
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	21.39 ug/ml	7551662	Acenaphthene-d10	7060718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	45.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
4	2,2'-Bifuran, octahydro-	19660	001592-33-2	42.00
5	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	42.00



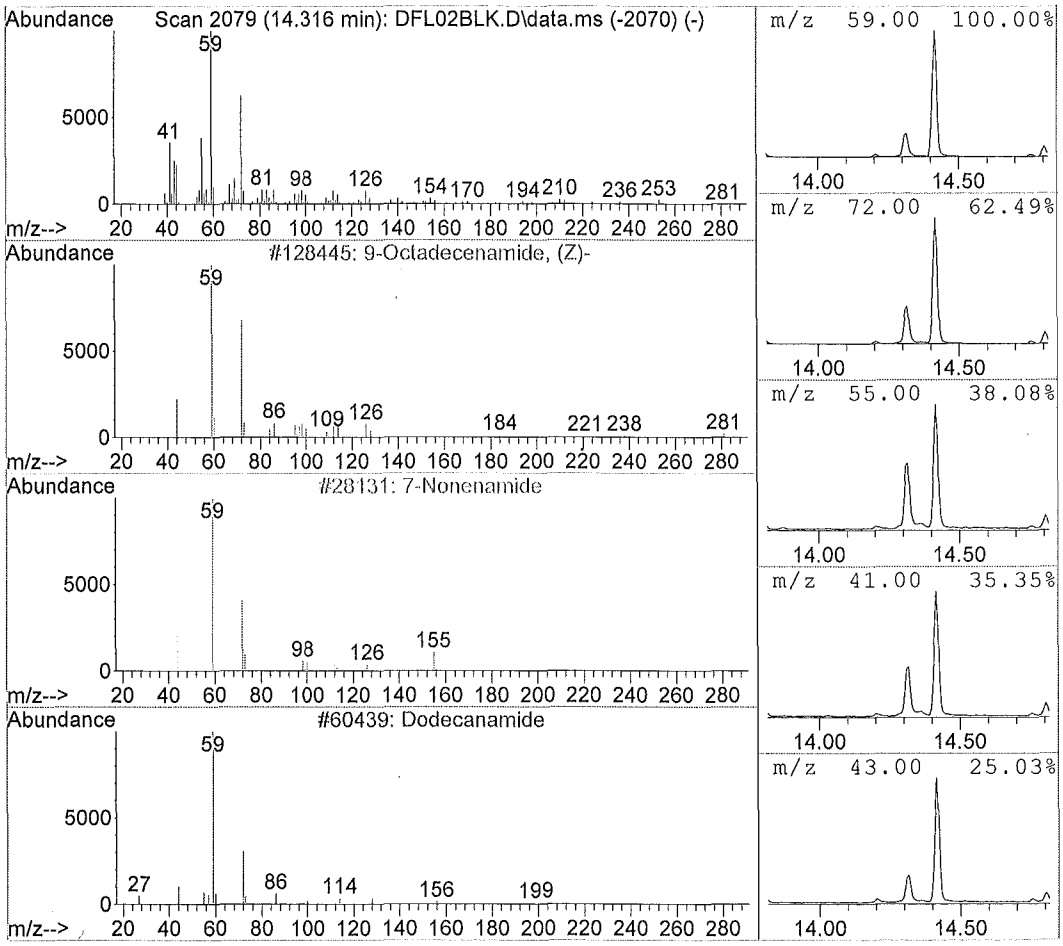
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.32	2.07 ug/ml	925321	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
5	Hexadecanamide	106565	000629-54-9	53.00



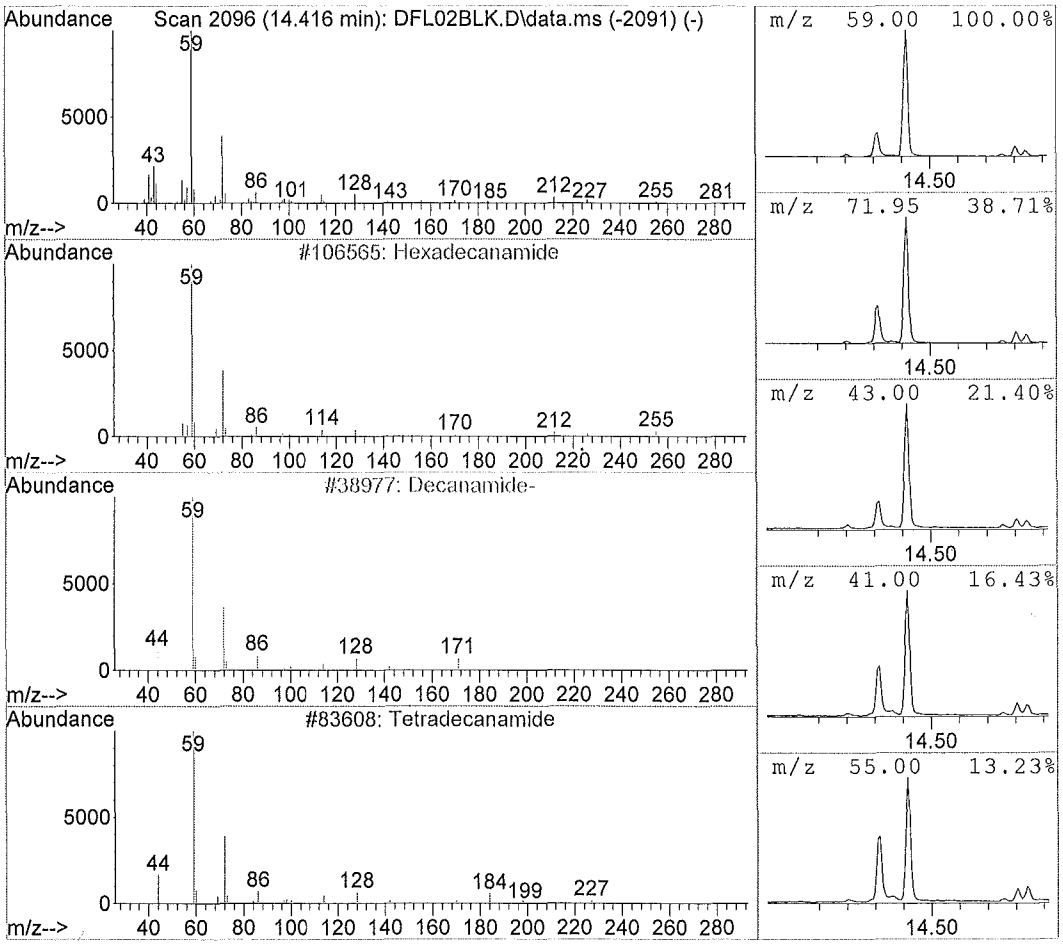
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.79 ug/ml	2586675	Chrysene-d12	8931968

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	90.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



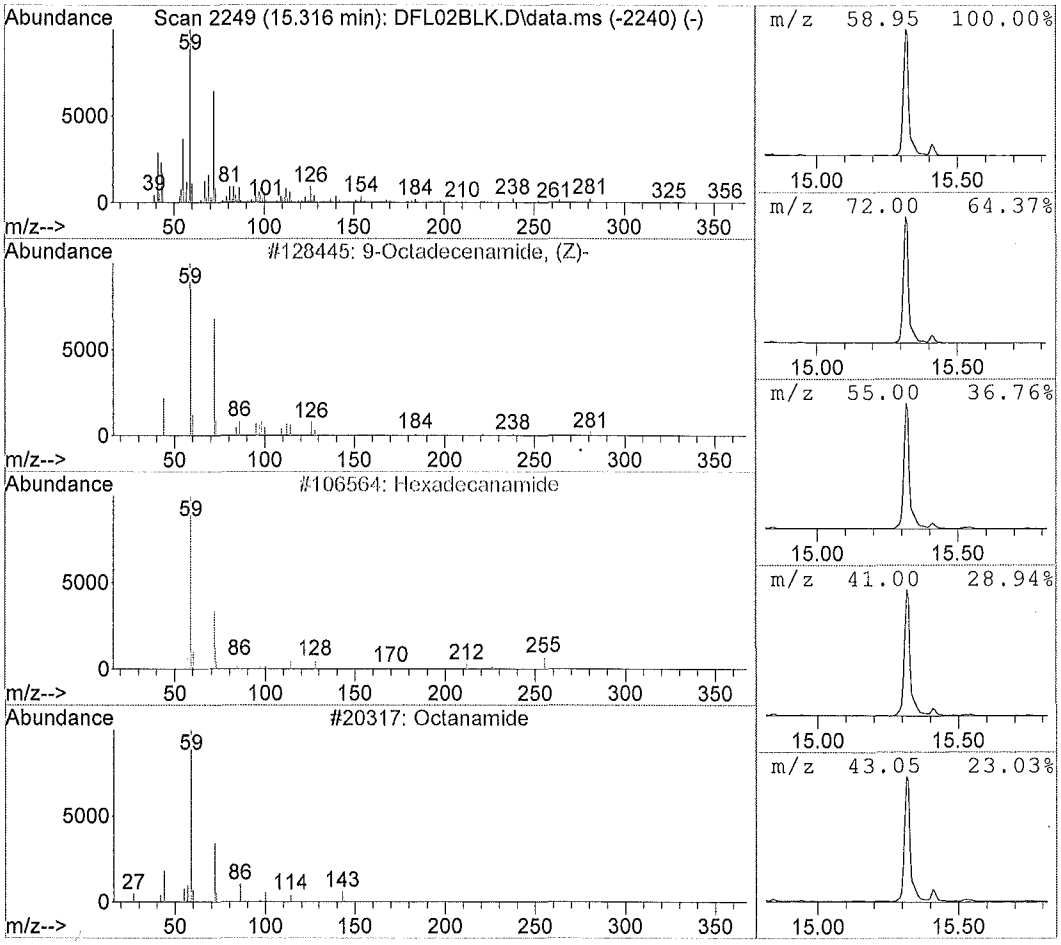
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	43.45 ug/ml	19404454	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Octanamide	20317	000629-01-6	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Tetradecanamide	83609	000638-58-4	50.00



00421

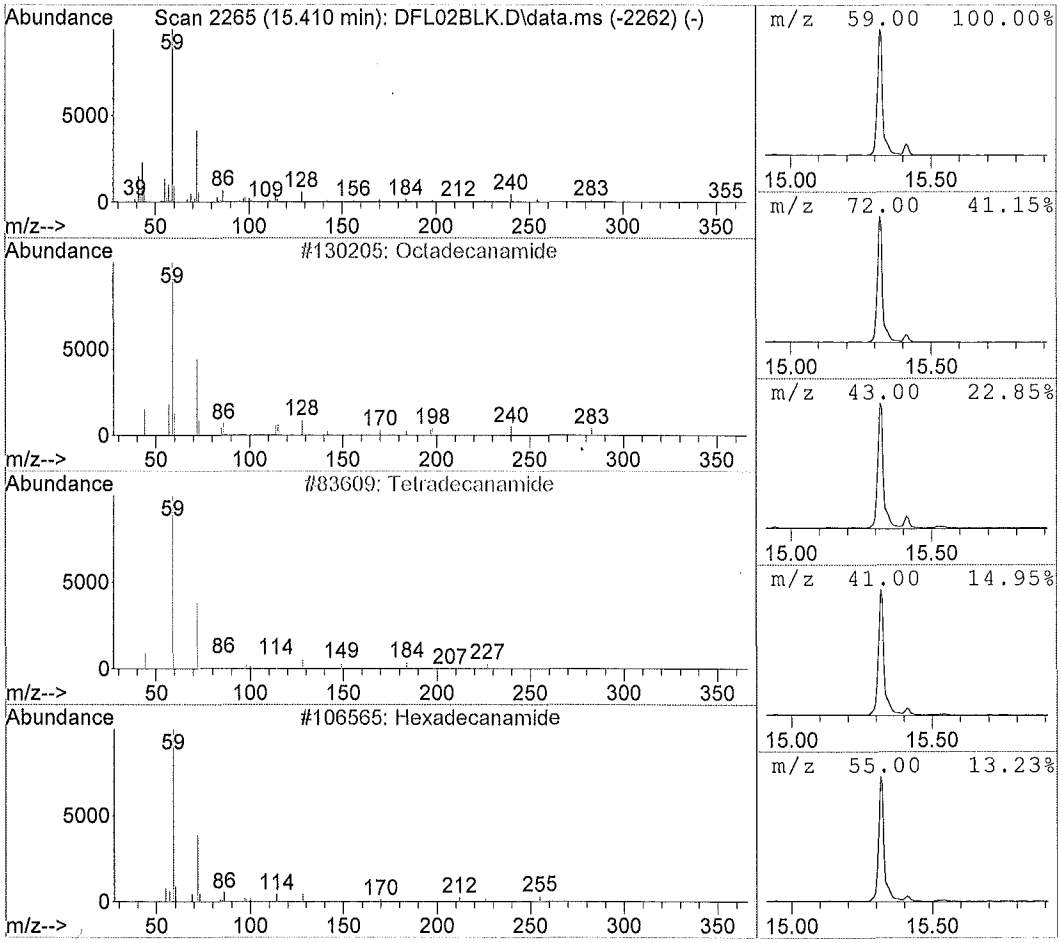
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.28 ug/ml	1019542	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130205	000124-26-5	90.00
2	Tetradecanamide	83609	000638-58-4	87.00
3	Hexadecanamide	106565	000629-54-9	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	Dodecanamide	60439	001120-16-7	78.00



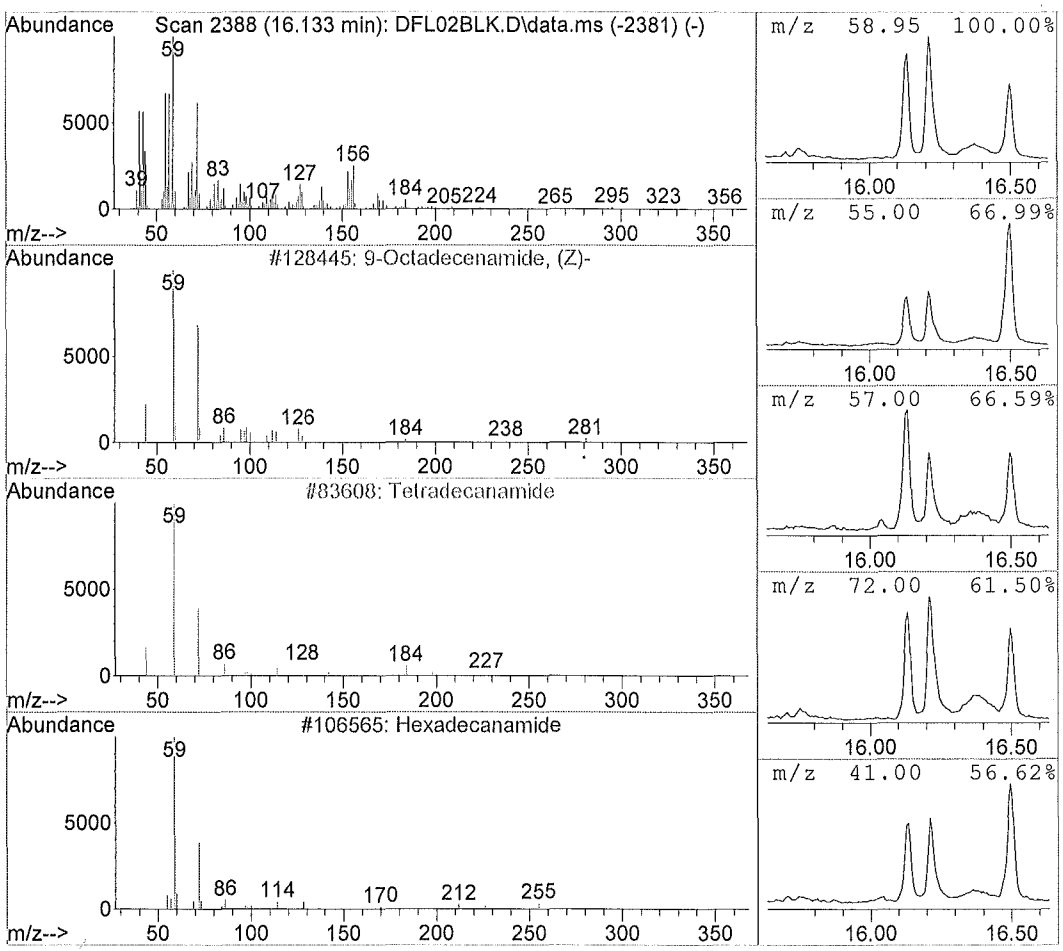
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.08 ug/ml	928466	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	49.00
2	Tetradecanamide	83608	000638-58-4	49.00
3	Hexadecanamide	106565	000629-54-9	47.00
4	Cyclohexanecarboxamide	11821	001122-56-1	35.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	35.00



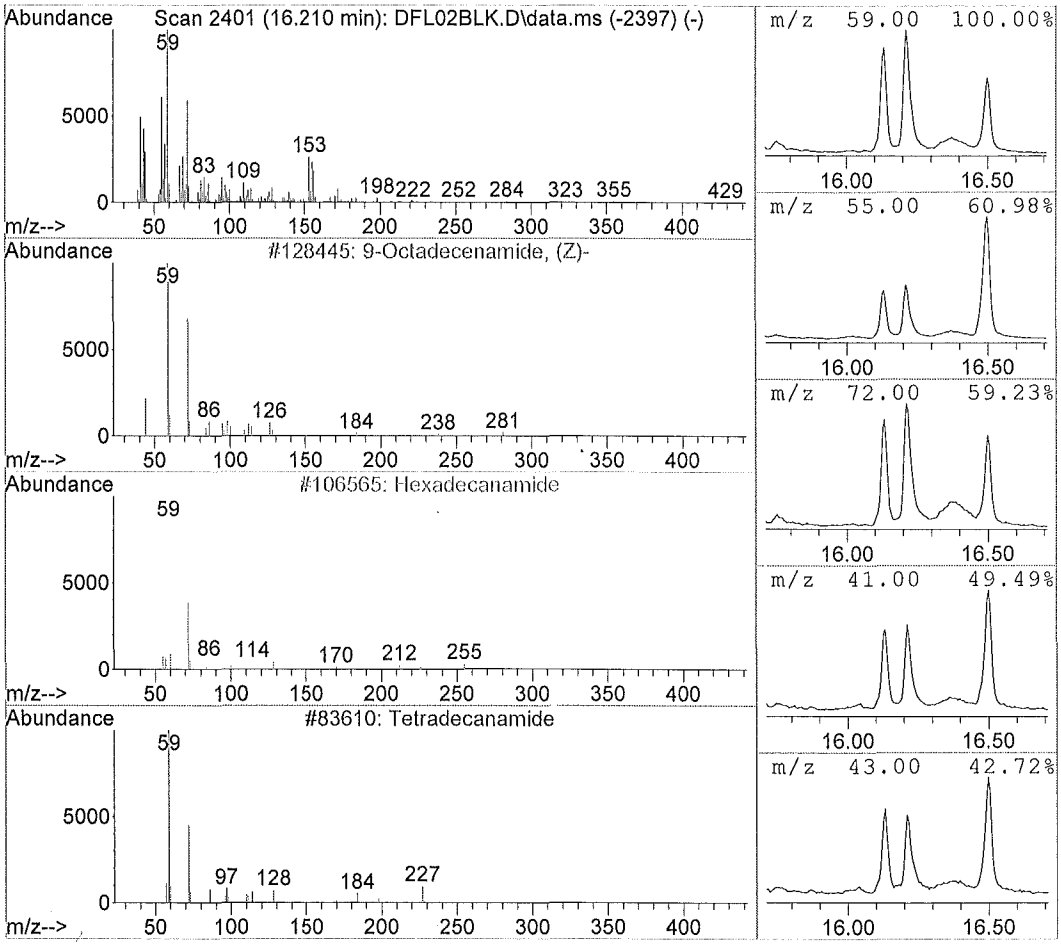
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.21	2.32 ug/ml	1036281	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	58.00
2	Hexadecanamide	106565	000629-54-9	50.00
3	Tetradecanamide	83610	000638-58-4	50.00
4	7-Nonenamide	28131	090949-53-4	49.00
5	Octadecanamide	130204	000124-26-5	47.00



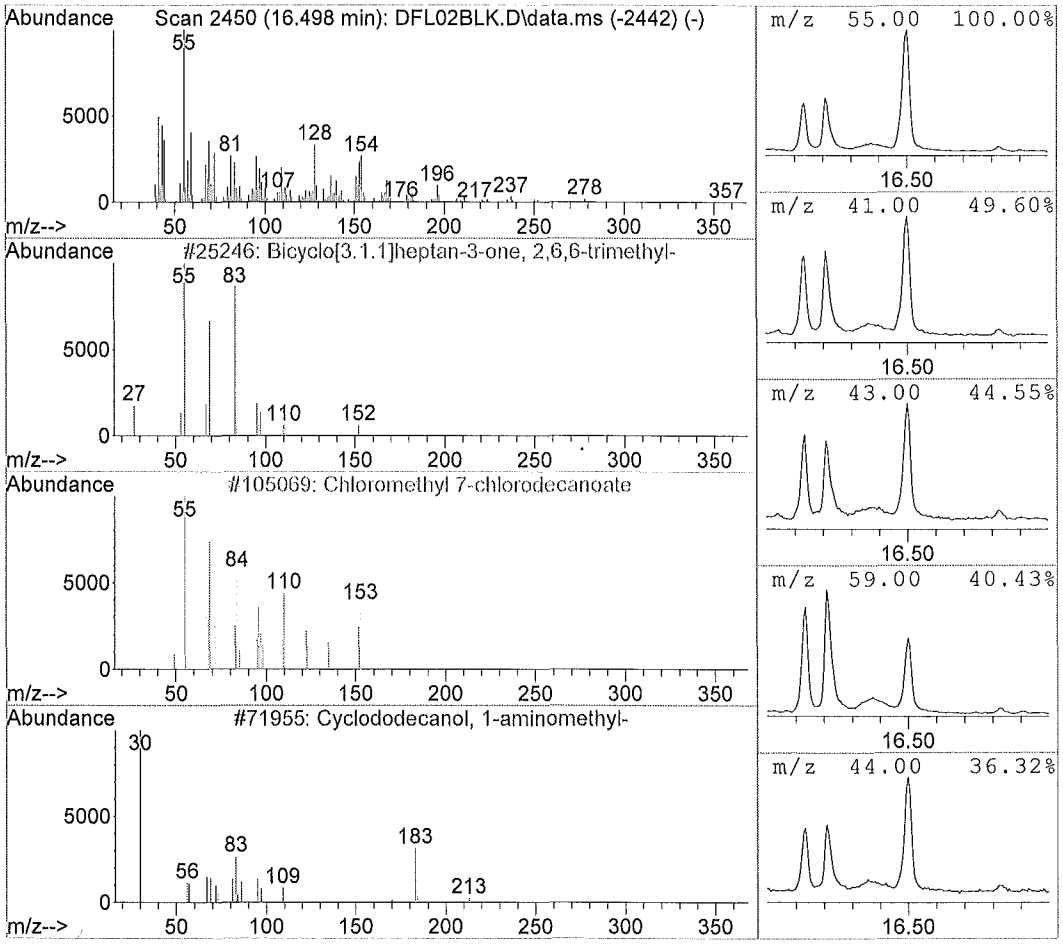
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	4.62 ug/ml	2063107	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25246	018358-53-7	15.00
2	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	12.00
3	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	12.00
4	5-Undecene, (E)-	27037	000764-97-6	11.00
5	Cyclohexanecarboxamide	11823	001122-56-1	11.00



ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	1513978 1514052 1514071	**Horizon Batch ID:**	**149235**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	8181346-1 690492-1	**Flow Rate:**	**5mL/min.**
Load Date:	**5/21/15**	**Load Time:**	**16:47**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**5/11/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	448205	GPC06 Blank	
2	1513978001	F9KW7	
3	1513978002	F9KW8	
4	1513978003	F9KW9	
5	1513978004	F9KX0	
6	1513978005	F9KX1	
7	1513978006	F9KX5	
8	1513978007	F9KY4	
9	1513978008	F9KY5	
10	1513978009	F9KY6	
11	1513978010	F9KY7	
12	1513978011	F9L28	
13	1513978012	F9L29	
14	1513978013	F9L30	
15	1514052001	F9K71	
16	1514052002	F9K72	
17	1514052003	F9K73	
18	1514052004	F9K77	
19	1514052005	F9K78	
20	1514071001	F9KR0	
21	1514071002	F9KX4	
22	Rinse		Column Wash
23	447823	MB for HBN 149070	
24	Rinse		Column Wash

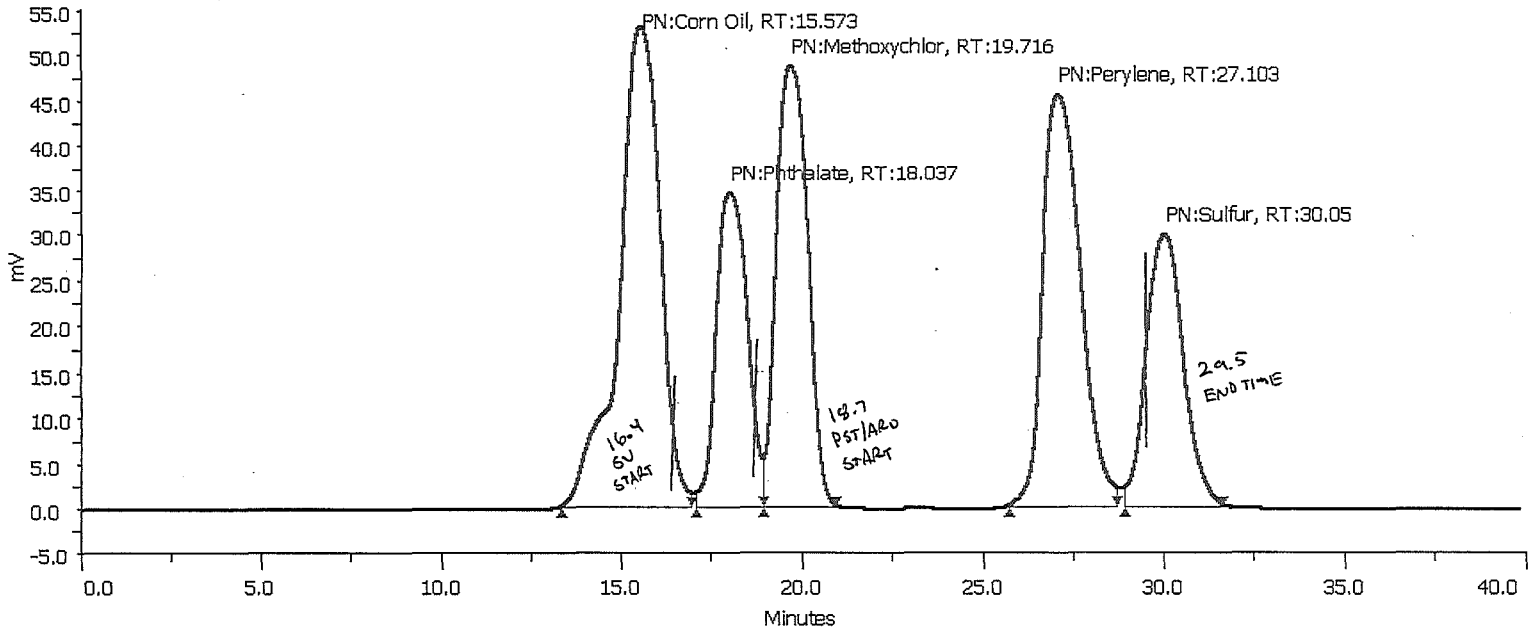
$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**16.4**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
SOMO 1.2/2.2
5/19/15
Lyle Edmb
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05192015-072841 @ 5/19/2015 7:28:45 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.347	15.573	6918660.8333	52.86	0	90.744
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.107	18.037	3413118.75	34.35	90.744	87.116
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.962	19.716	4843820	48.35	87.116	296.836
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.777	27.103	5473534.5833	45.19	296.836	103.771
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.947	30.05	3544075	29.64	103.771	0

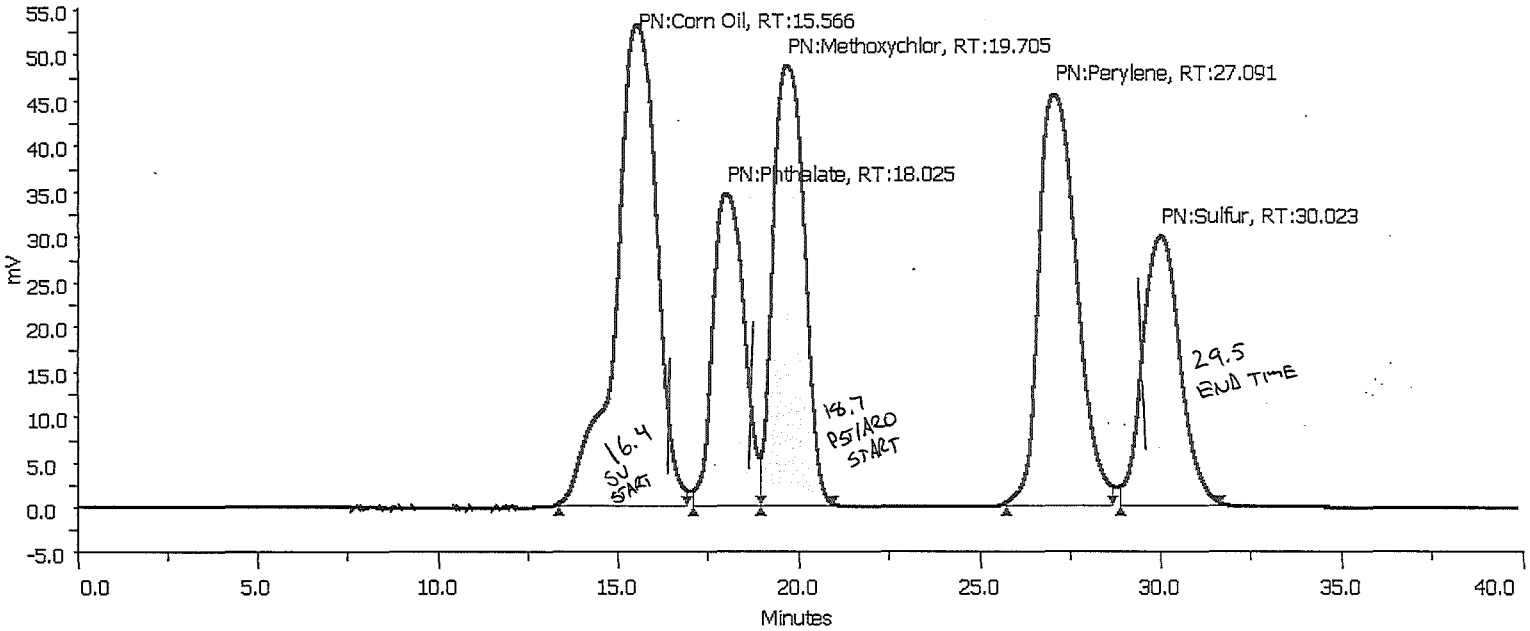
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
5/7/15
Lyle Edmonds
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05072015-081942 @ 5/7/2015 8:19:44 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.338	15.566	6938642.0833	52.96	0	90.535
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.097	18.025	3431551.25	34.39	90.535	87.084
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.958	19.705	4860551.6667	48.42	87.084	296.273
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.739	27.091	5490984.5833	45.3	296.273	103.076
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.931	30.023	3562237.9167	29.71	103.076	0

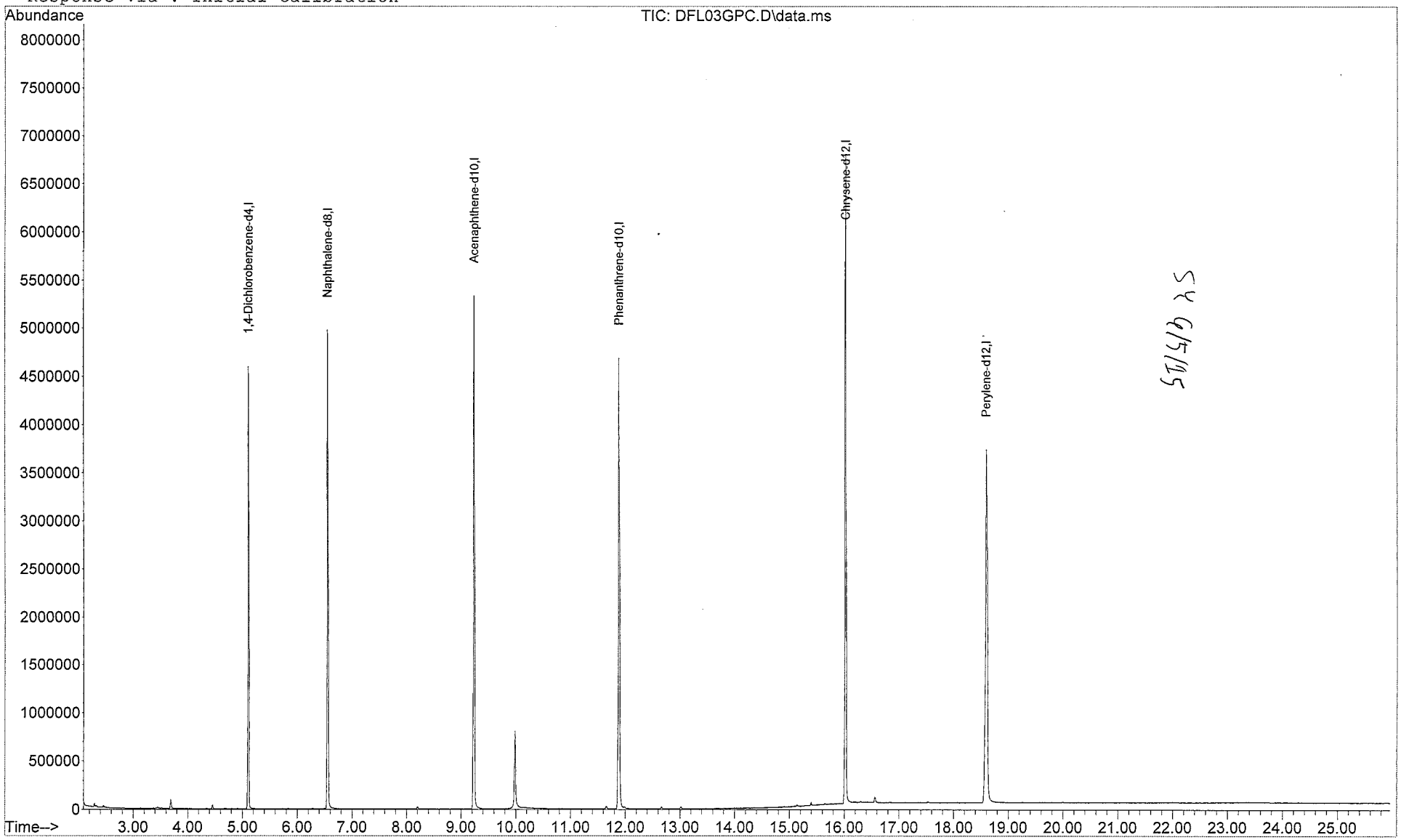
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL03GPC.D Vial: 3
Acq On : 05/27/2015 09:59 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 12:58:18 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



SY 6/5/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL03GPC.D Vial: 3
Acq On : 05/27/2015 09:59 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 12:58:18 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	868882	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2968874	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1831118	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3026154	20.00 ug/ml
73) Chrysene-d12	16.02	240	3548082	20.00 ug/ml
81) Perylene-d12	18.59	264	3442084	20.00 ug/ml

System Monitoring Compounds				
2) Phenol-d5	0.00	99	0	0.000ug/ml
6) bis-(2-chloroethyl)ether-d	0.00	67	0	0.000ug/mL
7) 2-Chlorophenol-d4	0.00	132	0	0.000ug/ml
13) 4-Methylphenol-d8	0.00	113	0	0.000ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	0.00	143	0	0.000ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	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	0.00	176	0	0.000ug/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)\27MAY15\DFL03GPC.D Vial: 3
Acq On : 05/27/2015 09:59 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 12:58:18 2015 Results File: DSOM01D5.RES

Method : R:\D\METHODS\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 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.: F9KW7

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9K71	89	83	0
02	F9K72	81	67	0
03	F9K73	80	60	0
04	F9K77	84	77	0
05	F9K78	78	69	0
06	F9KR0	77	66	0
07	F9KW7	81	74	0
08	F9KW8	68	68	0
09	F9KW9	74	76	0
10	F9KX0	90	85	0
11	F9KX1	92	84	0
12	F9KX4	78	63	0
13	F9KX5	85	76	0
14	F9KY4	83	77	0
15	F9KY5	81	70	0
16	F9KY6	86	76	0
17	F9KY7	92	86	0
18	F9L28	84	76	0
19	F9L29	97	82	0
20	F9L30	90	86	0
21	SBLK23	76	69	0
22				
23				
24				
25				
26				
27				
28				
29				
30				

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFT02BLK Lab Sample ID: 447823

Instrument ID: 5975-D Date Extracted: 05/21/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/04/2015

Time Analyzed: 13:31 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9K71	1514052001	DFT24F01	06/05/2015
02	F9K72	1514052002	DFT09F02	06/04/2015
03	F9K73	1514052003	DFT10F03	06/04/2015
04	F9K77	1514052004	DFT25F04	06/05/2015
05	F9K78	1514052005	DFT11F05	06/04/2015
06	F9KR0	1514071001	DFT12F01	06/04/2015
07	F9KW7	1513978001	DFT16F01	06/04/2015
08	F9KW8	1513978002	DFT04F02	06/04/2015
09	F9KW9	1513978003	DFT05F03	06/04/2015
10	F9KX0	1513978004	DFT17F04	06/04/2015
11	F9KX1	1513978005	DFT18F05	06/04/2015
12	F9KX4	1514071002	DFT13F02	06/04/2015
13	F9KX5	1513978006	DFT06F06	06/04/2015
14	F9KY4	1513978007	DFT19F07	06/04/2015
15	F9KY5	1513978008	DFT07F08	06/04/2015
16	F9KY6	1513978009	DFT20F09	06/04/2015
17	F9KY7	1513978010	DFT21F10	06/04/2015
18	F9L28	1513978011	DFT22F11	06/04/2015
19	F9L29	1513978012	DFT08F12	06/04/2015
20	F9L30	1513978013	DFT23F13	06/04/2015
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

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

EPA SAMPLE NO.

SSTD0.1DG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

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.

SSTD0.4DT

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFT01SP4 DFTPP Injection Date: 06/04/2015

Instrument ID: 5975-D DFTPP Injection Time: 13:01

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	SSTD0.4DT	SSTD0.4DT	DFT01SP4	06/04/2015	13:01
02	SBLK23	447823	DFT02BLK	06/04/2015	13:31
03	F9KW8	1513978002	DFT04F02	06/04/2015	14:32
04	F9KW9	1513978003	DFT05F03	06/04/2015	15:02
05	F9KX5	1513978006	DFT06F06	06/04/2015	15:32
06	F9KY5	1513978008	DFT07F08	06/04/2015	16:03
07	F9L29	1513978012	DFT08F12	06/04/2015	16:33
08	F9K72	1514052002	DFT09F02	06/04/2015	17:03
09	F9K73	1514052003	DFT10F03	06/04/2015	17:33
10	F9K78	1514052005	DFT11F05	06/04/2015	18:03
11	F9KR0	1514071001	DFT12F01	06/04/2015	18:33
12	F9KX4	1514071002	DFT13F02	06/04/2015	19:03
13	SSTD0.4T1	SSTD0.4T1	DFT14SP4	06/04/2015	19:32
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO.

SSTD0.4T1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFT14SP4 DFTPP Injection Date: 06/04/2015

Instrument ID: 5975-D DFTPP Injection Time: 19:32

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	SSTD0.4T1	SSTD0.4T1	DFT14SP4	06/04/2015	19:32
02	F9KW7	1513978001	DFT16F01	06/04/2015	20:32
03	F9KX0	1513978004	DFT17F04	06/04/2015	21:01
04	F9KX1	1513978005	DFT18F05	06/04/2015	21:31
05	F9KY4	1513978007	DFT19F07	06/04/2015	22:00
06	F9KY6	1513978009	DFT20F09	06/04/2015	22:30
07	F9KY7	1513978010	DFT21F10	06/04/2015	23:00
08	F9L28	1513978011	DFT22F11	06/04/2015	23:29
09	F9L30	1513978013	DFT23F13	06/04/2015	23:59
10	F9K71	1514052001	DFT24F01	06/05/2015	00:28
11	F9K77	1514052004	DFT25F04	06/05/2015	00:58
12	SSTD0.4T2	SSTD0.4T2	DFT26SP4	06/05/2015	01:28
13					
14					
15					
16					
17					
18					
19					
20					
21					

8E - FORM VIII SV-SIM1
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DT Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT01SP4 Time Analyzed: 13:01

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			295191	6.07	188989	8.73
	UPPER LIMIT			590382	6.57	377978	9.23
	LOWER LIMIT			147596	5.57	94495	8.23
	EPA SAMPLE NO.						
01	SBLK23			305275	6.07	217806	8.72
02	F9KW8			272156	6.06	196633	8.72
03	F9KW9			280982	6.06	204668	8.72
04	F9KX5			272509	6.07	195273	8.72
05	F9KY5			258373	6.07	182792	8.73
06	F9L29			236127	6.07	169441	8.73
07	F9K72			274396	6.07	194524	8.73
08	F9K73			241539	6.07	170938	8.72
09	F9K78			265978	6.06	187539	8.72
10	F9KR0			268186	6.07	187558	8.72
11	F9KX4			251813	6.07	178019	8.73
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8F - FORM VIII SV-SIM2
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

EPA Sample No.(SSTD0.4##): SSTD0.4DT Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT01SP4 Time Analyzed: 13:01

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	340399	11.36	379287	15.52	368604	18.02
	UPPER LIMIT	680798	11.86	758574	16.02	737208	18.52
	LOWER LIMIT	170200	10.86	189644	15.02	184302	17.52
	EPA SAMPLE NO.						
01	SBLK23	393207	11.36	400860	15.51	421165	18.01
02	F9KW8	347594	11.36	358065	15.51	386722	18.01
03	F9KW9	368788	11.36	374088	15.51	407092	18.01
04	F9KX5	325691	11.36	347824	15.51	373432	18.01
05	F9KY5	312057	11.36	330591	15.51	367164	18.01
06	F9L29	285126	11.36	301168	15.51	328021	18.01
07	F9K72	348481	11.36	354502	15.52	379561	18.01
08	F9K73	298364	11.36	310929	15.51	340346	18.01
09	F9K78	329459	11.36	338562	15.51	362225	18.01
10	F9KR0	333313	11.36	336698	15.51	373888	18.01
11	F9KX4	313250	11.36	324697	15.51	355462	18.01
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.

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.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4T1 Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT14SP4 Time Analyzed: 19:32

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			252575	6.07	160689	8.72
	UPPER LIMIT			505150	6.57	321378	9.22
	LOWER LIMIT			126288	5.57	80345	8.22
	EPA SAMPLE NO.						
01	F9KW7			254188	6.07	164673	8.72
02	F9KX0			231766	6.07	150362	8.72
03	F9KX1			291780	6.07	189512	8.72
04	F9KY4			262725	6.07	173076	8.72
05	F9KY6			277859	6.07	180801	8.72
06	F9KY7			241292	6.07	156272	8.72
07	F9L28			232485	6.06	150196	8.72
08	F9L30			243707	6.07	157676	8.72
09	F9K71			234526	6.07	150801	8.72
10	F9K77			257398	6.07	166068	8.72
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8F - FORM VIII SV-SIM2
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

EPA Sample No.(SSTD0.4##): SSTD0.4T1 Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT14SP4 Time Analyzed: 19:32

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	290853	11.36	326996	15.51	342999	18.01
	UPPER LIMIT	581706	11.86	653992	16.01	685998	18.51
	LOWER LIMIT	145427	10.86	163498	15.01	171500	17.51
	EPA SAMPLE NO.						
01	F9KW7	301307	11.36	330439	15.51	341826	18.01
02	F9KX0	271222	11.36	299038	15.51	306513	18.01
03	F9KX1	340729	11.36	379543	15.51	380140	18.01
04	F9KY4	310968	11.36	339190	15.51	344339	18.00
05	F9KY6	328420	11.36	362076	15.51	373128	18.00
06	F9KY7	284353	11.36	310845	15.51	314590	18.00
07	F9L28	271280	11.36	298236	15.51	308389	18.00
08	F9L30	285441	11.36	320422	15.51	329665	18.00
09	F9K71	268535	11.36	301489	15.51	303016	18.00
10	F9K77	300507	11.36	335791	15.51	341658	18.01
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.

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT24F01

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/05/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 10.0

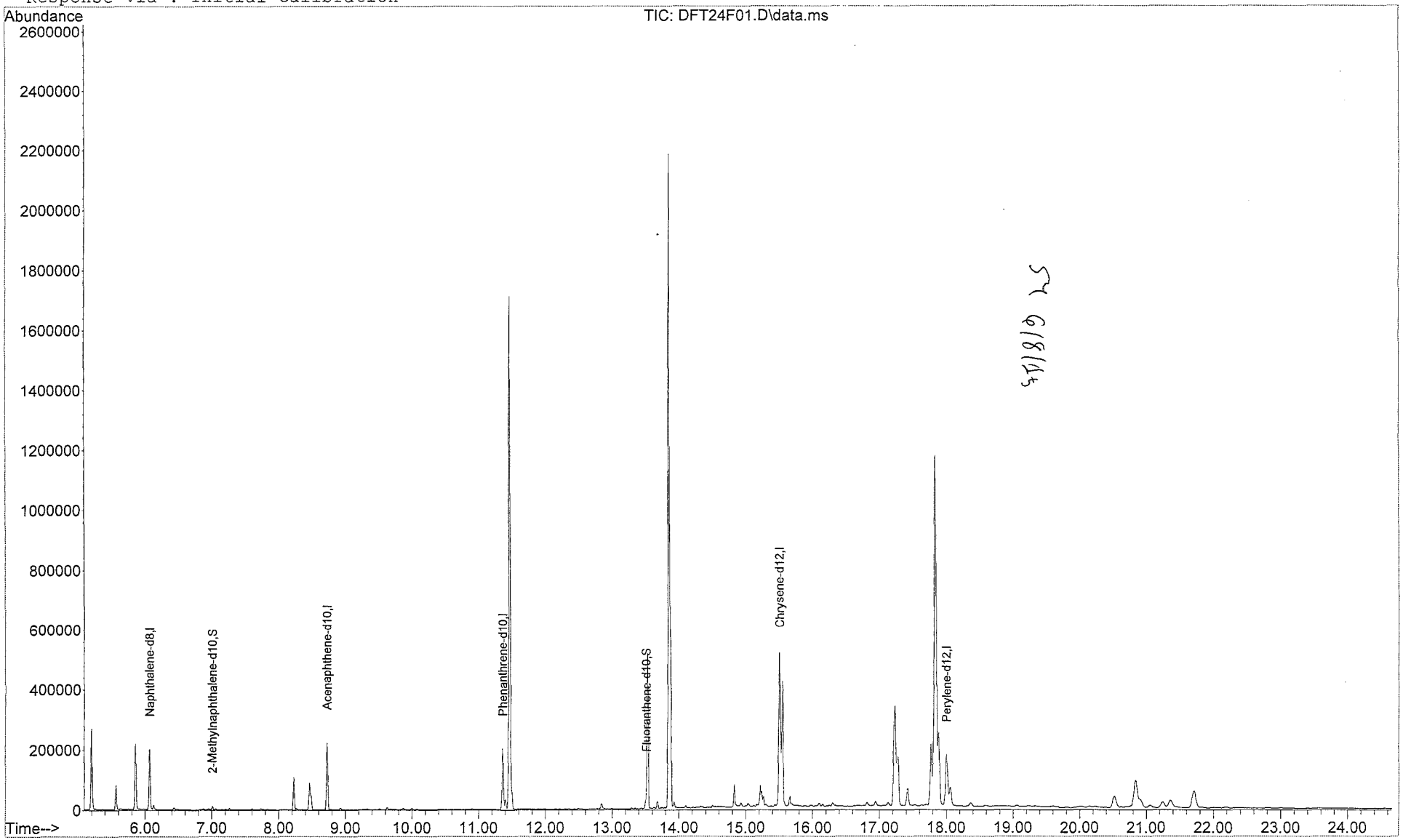
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	37.	U
91-57-6	2-Methylnaphthalene	37.	U
208-96-8	Acenaphthylene	23.	J
83-32-9	Acenaphthene	37.	U
86-73-7	Fluorene	37.	U
87-86-5	Pentachlorophenol	75.	U
85-01-8	Phenanthrene	16.	J
120-12-7	Anthracene	28.	J
206-44-0	Fluoranthene	170	
129-00-0	Pyrene	170	
56-55-3	Benzo(a)anthracene	150	
218-01-9	Chrysene	150	
205-99-2	Benzo(b)fluoranthene	190	
207-08-9	Benzo(k)fluoranthene	63.	
50-32-8	Benzo(a)pyrene	110	
193-39-5	Indeno(1,2,3-cd)pyrene	110	
53-70-3	Dibenzo(a,h)anthracene	24.	J
191-24-2	Benzo(g,h,i)perylene	63.	

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT24F01.D Vial: 22
Acq On : 06/05/2015 00:28 Operator: DJC
Sample : 1514052001 F9K71 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:58:13 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 6/8/15

Quantitation Report

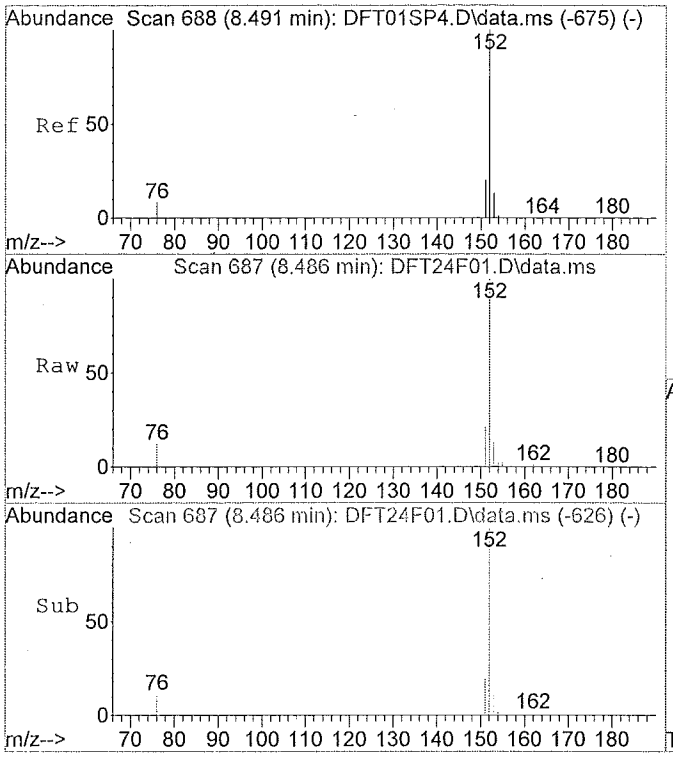
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT24F01.D Vial: 22
Acq On : 06/05/2015 00:28 Operator: DJC
Sample : 1514052001 F9K71 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:58:13 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	234526	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	150801	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	268535	0.40 ug/ml
15) Chrysene-d12	15.51	240	301489	0.40 ug/ml
19) Perylene-d12	18.00	264	303016	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	12508	0.033ug/mL
13) Fluoranthene-d10	13.50	212	26211	0.036ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	40857	0.062ug/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	11.40	178	32794	0.042ug/ml	98
12) Anthracene	11.50	178	56296	0.075ug/ml	98
14) Fluoranthene	13.53	202	408433	0.464ug/ml	88
16) Pyrene	13.87	202	422914	0.447ug/ml	88
17) Benzo(a)anthracene	15.50	228	313686	0.390ug/ml	94
18) Chrysene	15.55	228	347346	0.409ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	466775	0.494ug/ml SY	99
21) Benzo(k)fluoranthene	17.27	252	164030	0.168ug/ml m 6/8/15	99
22) Benzo(a)pyrene	17.88	252	275599	0.305ug/ml	98
23) Indeno(1,2,3-c,d)pyrene	20.84	276	235497	0.298ug/ml	100
24) Dibenzo(a,h)anthracene	20.90	278	56410	0.065ug/ml	99
25) Benzo(g,h,i)perylene	21.71	276	149243	0.168ug/ml	70

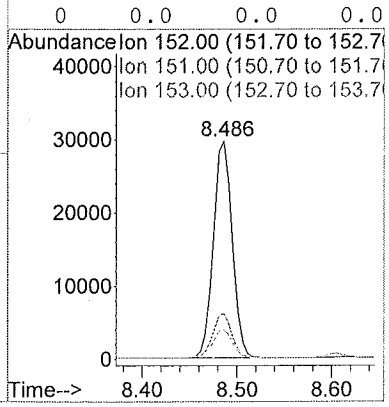
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

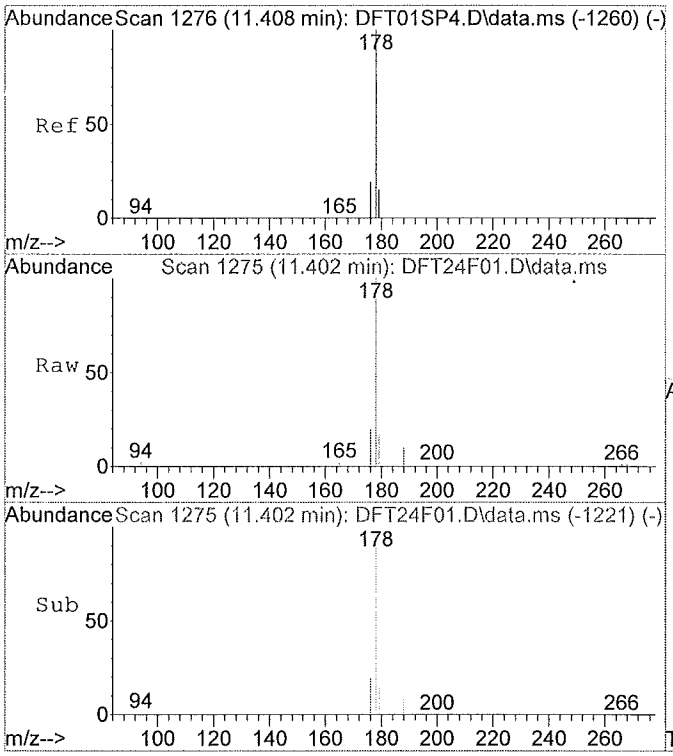


#6
Acenaphthylene
Concen: 0.06 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:152 Resp: 40857

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.5	28.7
153	14.5	8.8	16.4
0	0.0	0.0	0.0

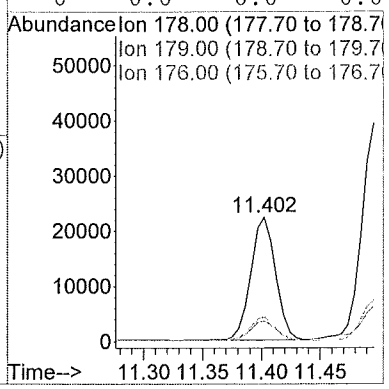


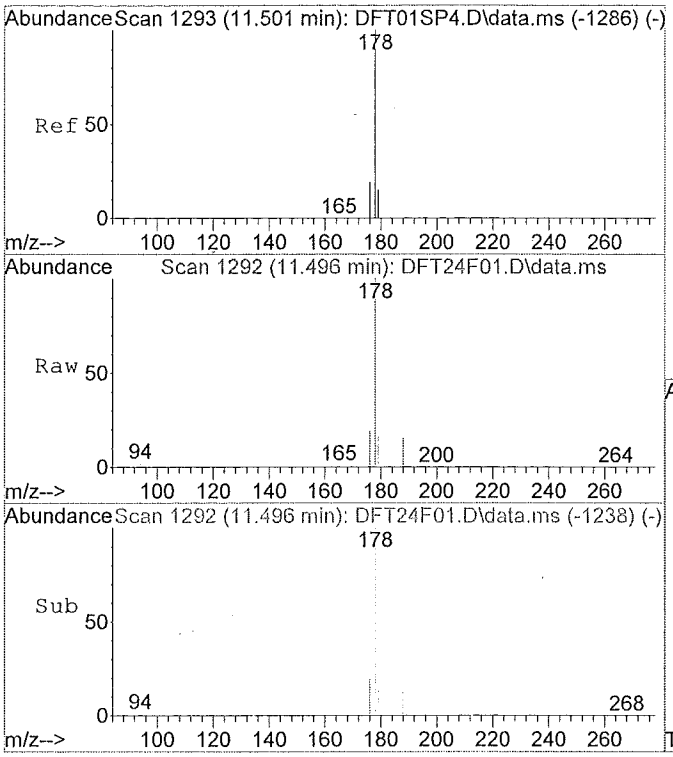


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:178 Resp: 32794

Ion	Ratio	Lower	Upper
178	100		
179	17.0	11.1	20.5
176	19.5	14.1	26.1
0	0.0	0.0	0.0

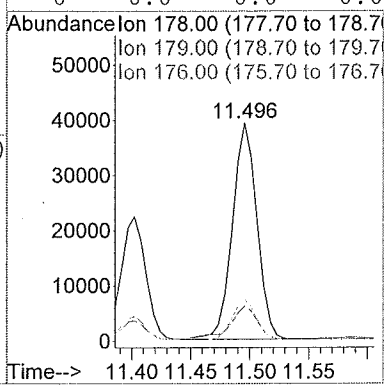


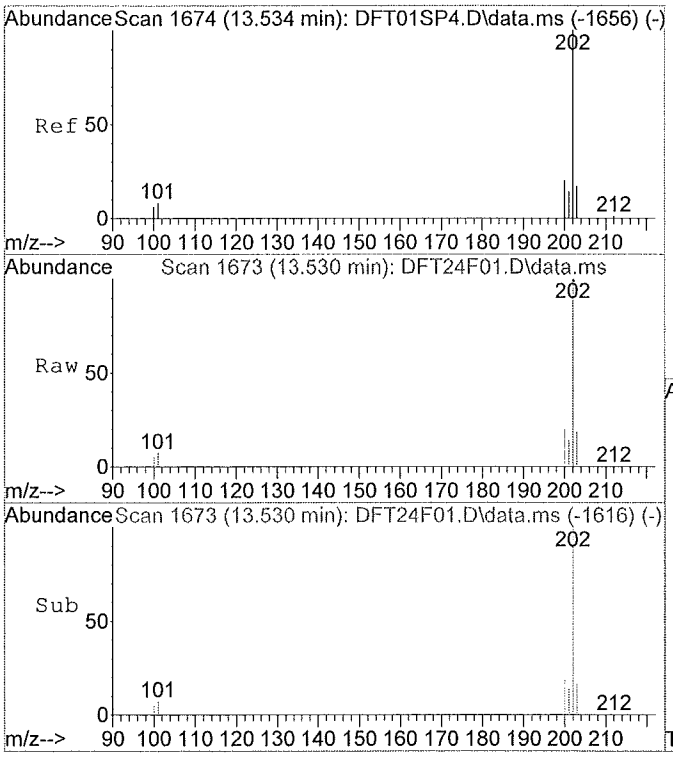


#12
Anthracene
Concen: 0.07 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:178 Resp: 56296

Ion	Ratio	Lower	Upper
178	100		
179	16.8	11.6	21.6
176	18.5	13.9	25.7
0	0.0	0.0	0.0

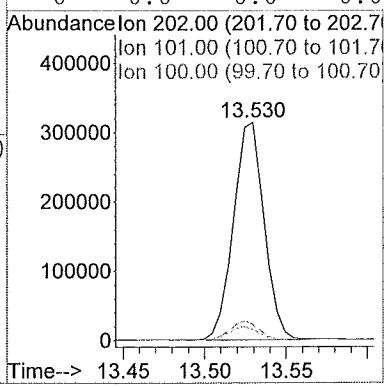


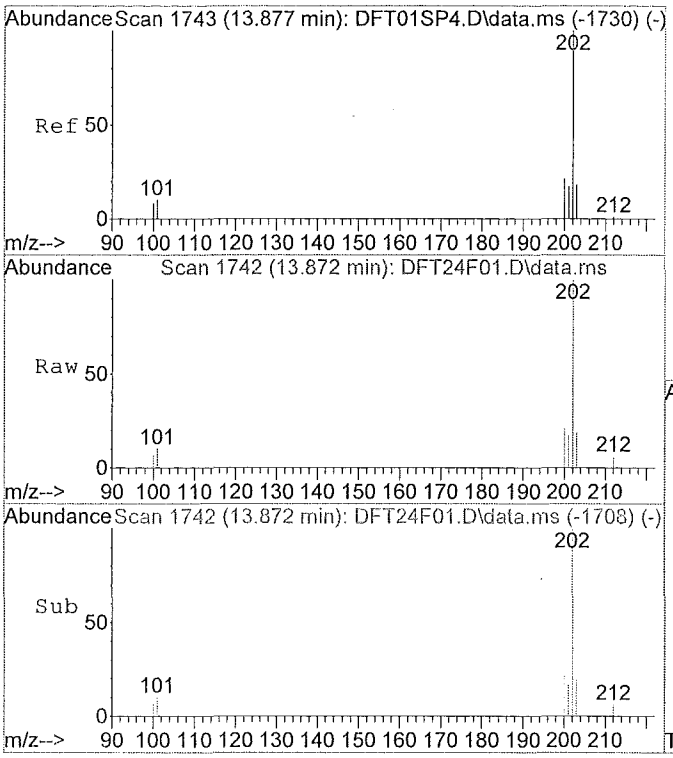


#14
Fluoranthene
Concen: 0.46 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:202 Resp: 408433

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

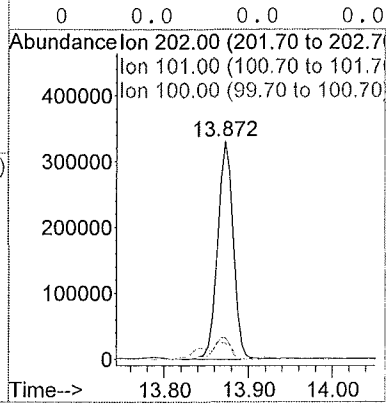


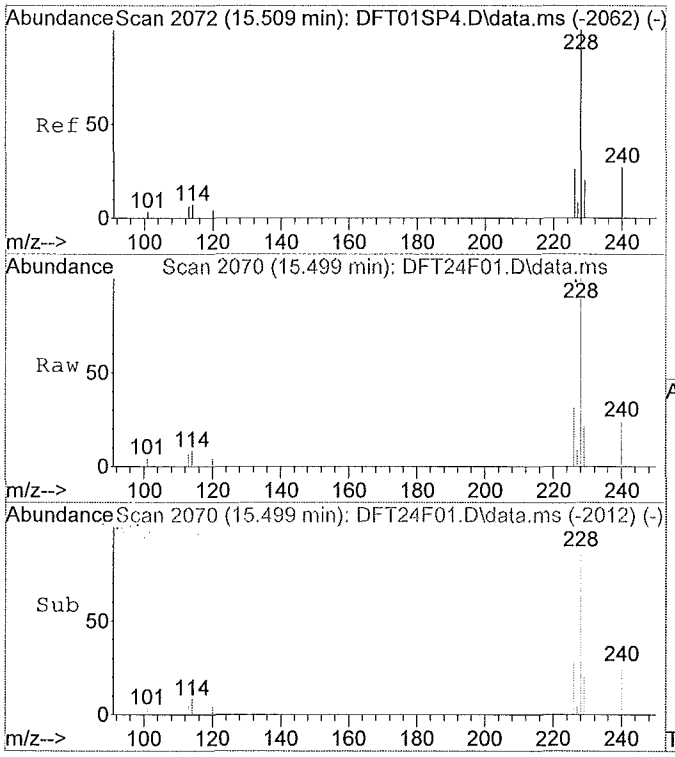


#16
Pyrene
Concen: 0.45 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:202 Resp: 422914

Ion	Ratio	Lower	Upper
202	100		
101	11.2	10.6	19.6
100	7.8	9.4	17.4#
0	0.0	0.0	0.0

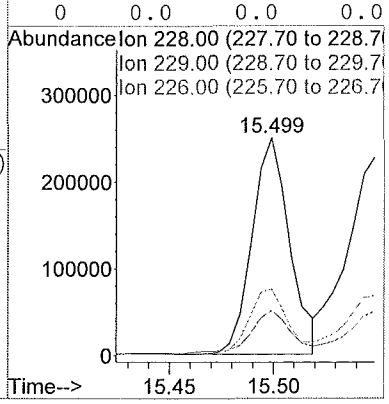


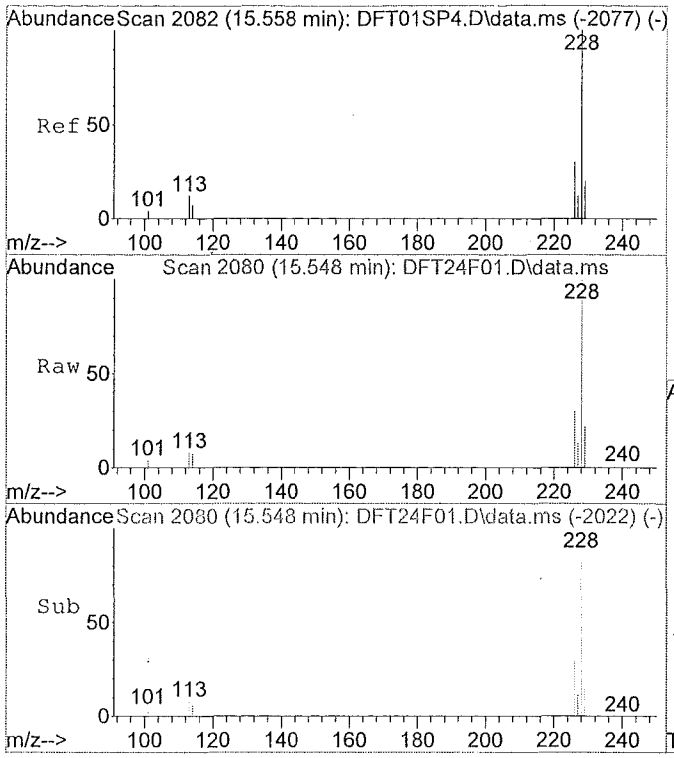


#17
Benzo(a)anthracene
Concen: 0.39 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:228 Resp: 313686

Ion	Ratio	Lower	Upper
228	100		
229	21.3	14.5	26.9
226	31.5	18.5	34.3
0	0.0	0.0	0.0

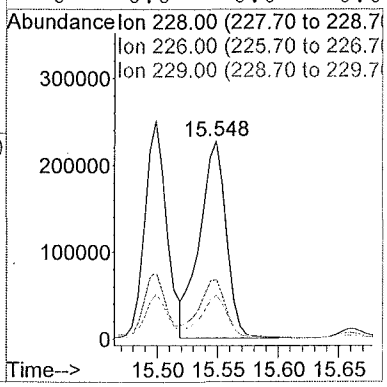


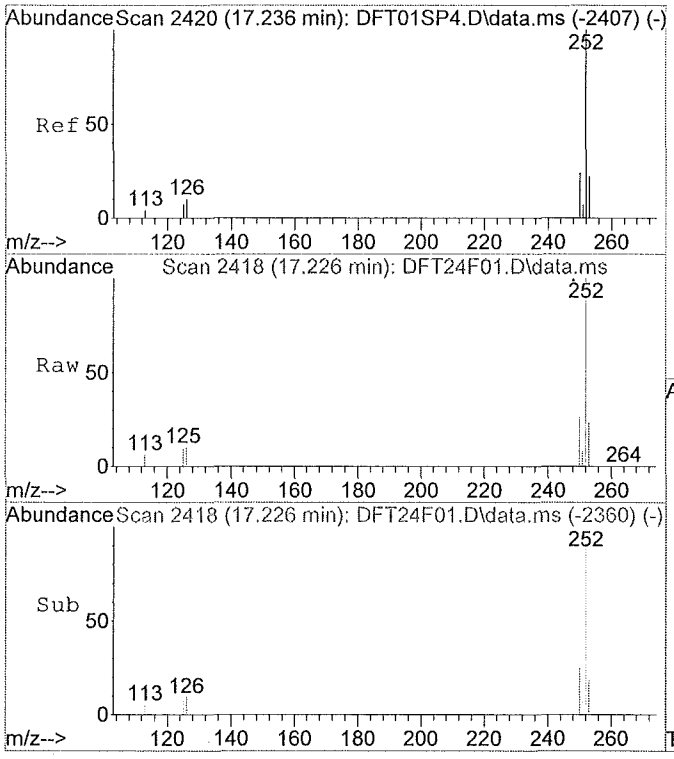


#18
Chrysene
Concen: 0.41 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:228 Resp: 347346

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	22.2	14.5	26.9
0	0.0	0.0	0.0

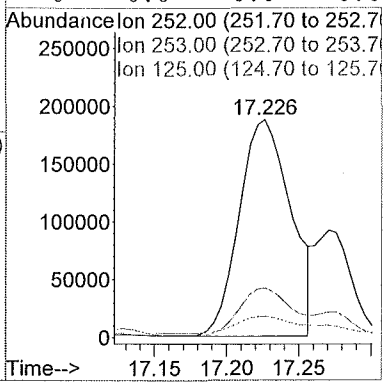


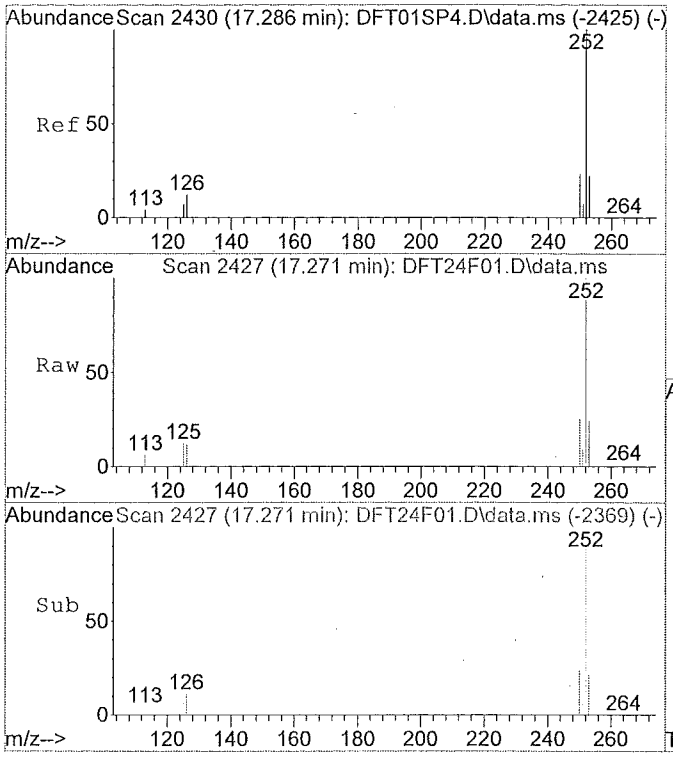


#20
Benzo(b)fluoranthene
Concen: 0.49 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:252 Resp: 466775

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	8.6	0.0	0.0#
0	0.0	0.0	0.0

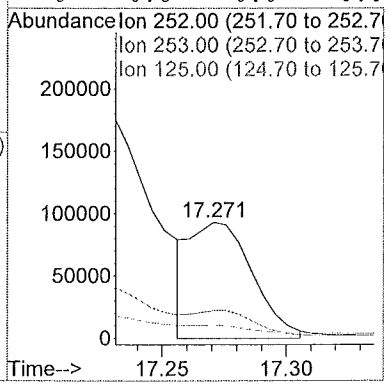


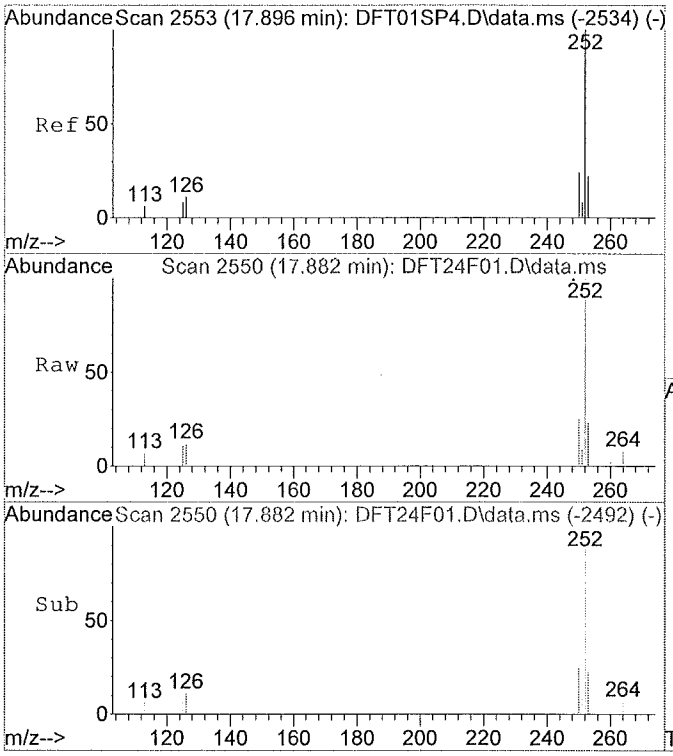


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:252 Resp: 164030

Ion	Ratio	Lower	Upper
252	100		
253	62.7	15.0	27.8#
125	24.6	0.0	0.0#
0	0.0	0.0	0.0

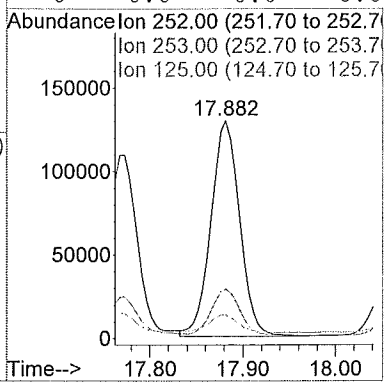


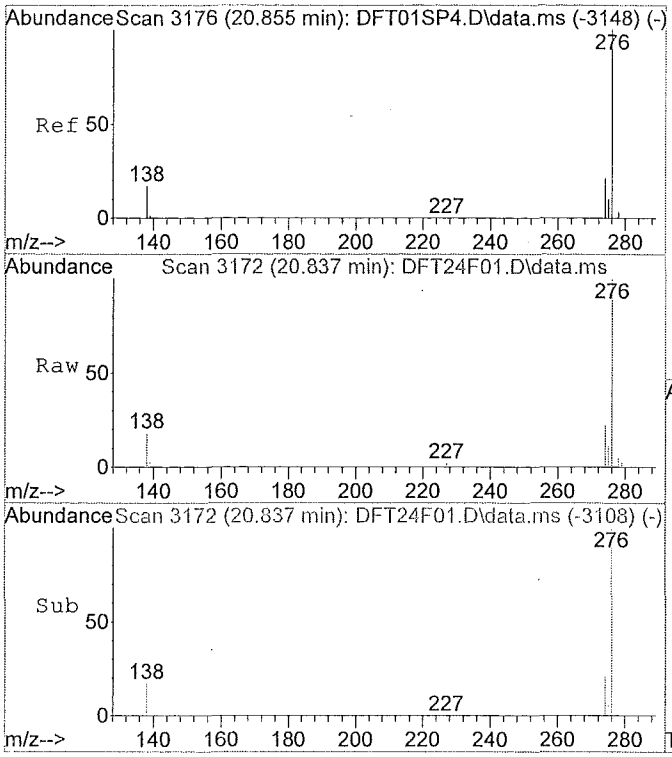


#22
Benzo(a)pyrene
Concen: 0.31 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:252 Resp: 275599

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.0	27.8
125	9.1	0.0	0.0#
0	0.0	0.0	0.0

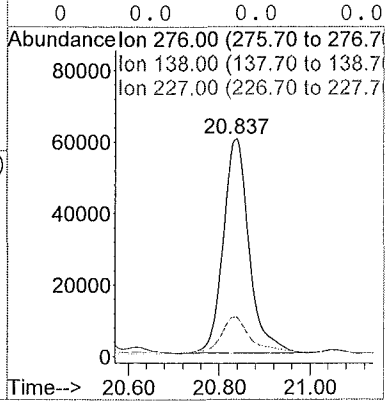


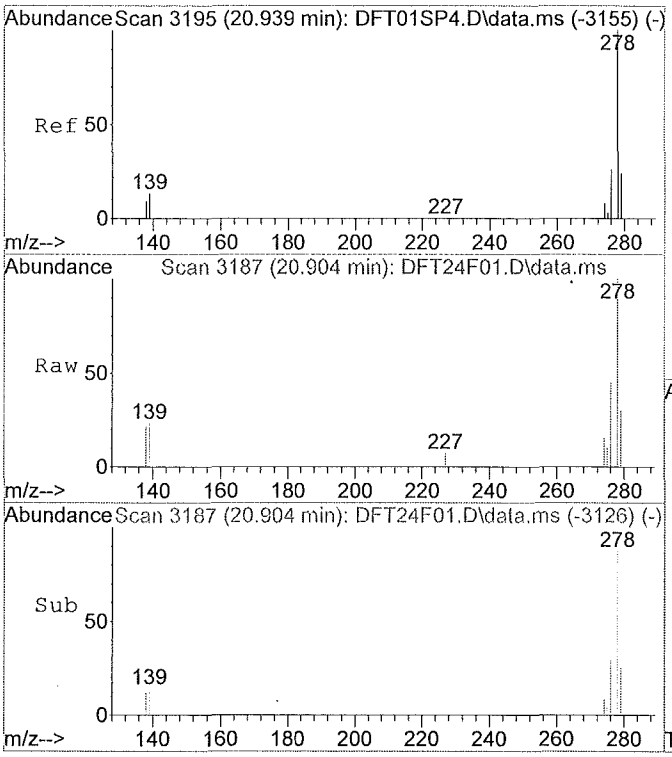


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.30 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:276 Resp: 235497

Ion	Ratio	Lower	Upper
276	100		
138	19.0	0.0	0.0#
227	0.0	0.0	0.0#
0	0.0	0.0	0.0

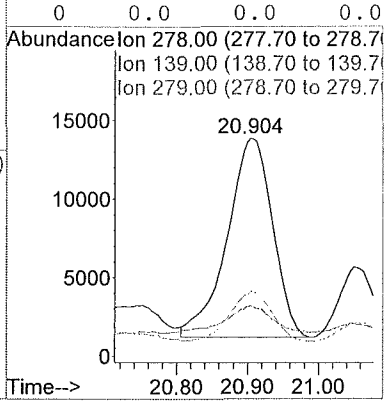


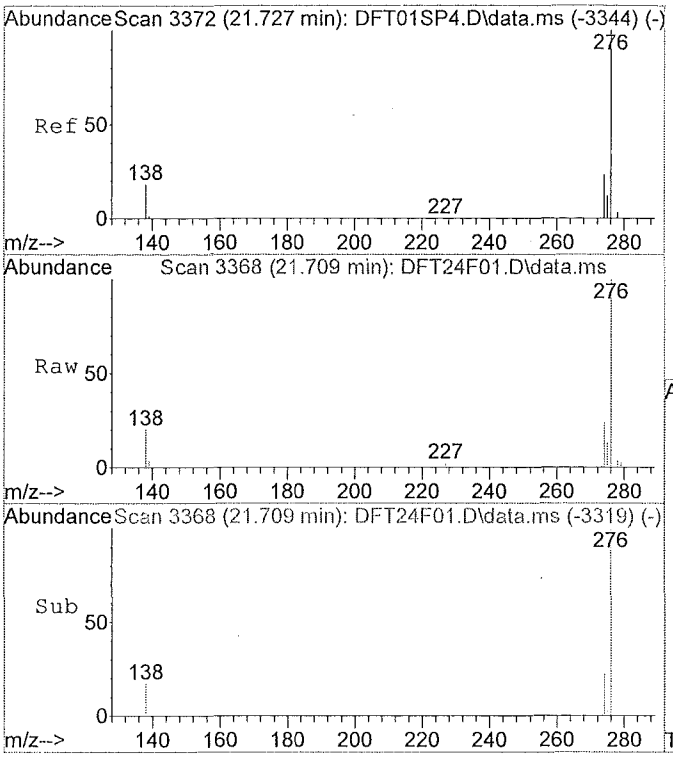


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.90 min Scan# 3187
Delta R.T. -0.03 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:278 Resp: 56410

Ion	Ratio	Lower	Upper
278	100		
139	13.1	0.0	0.0#
279	23.1	15.8	29.3
0	0.0	0.0	0.0

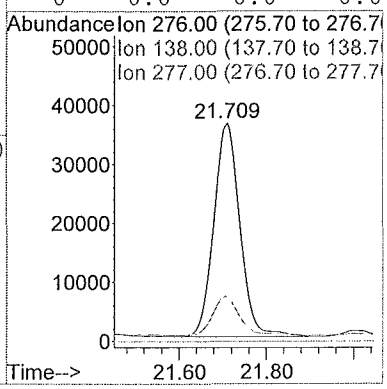




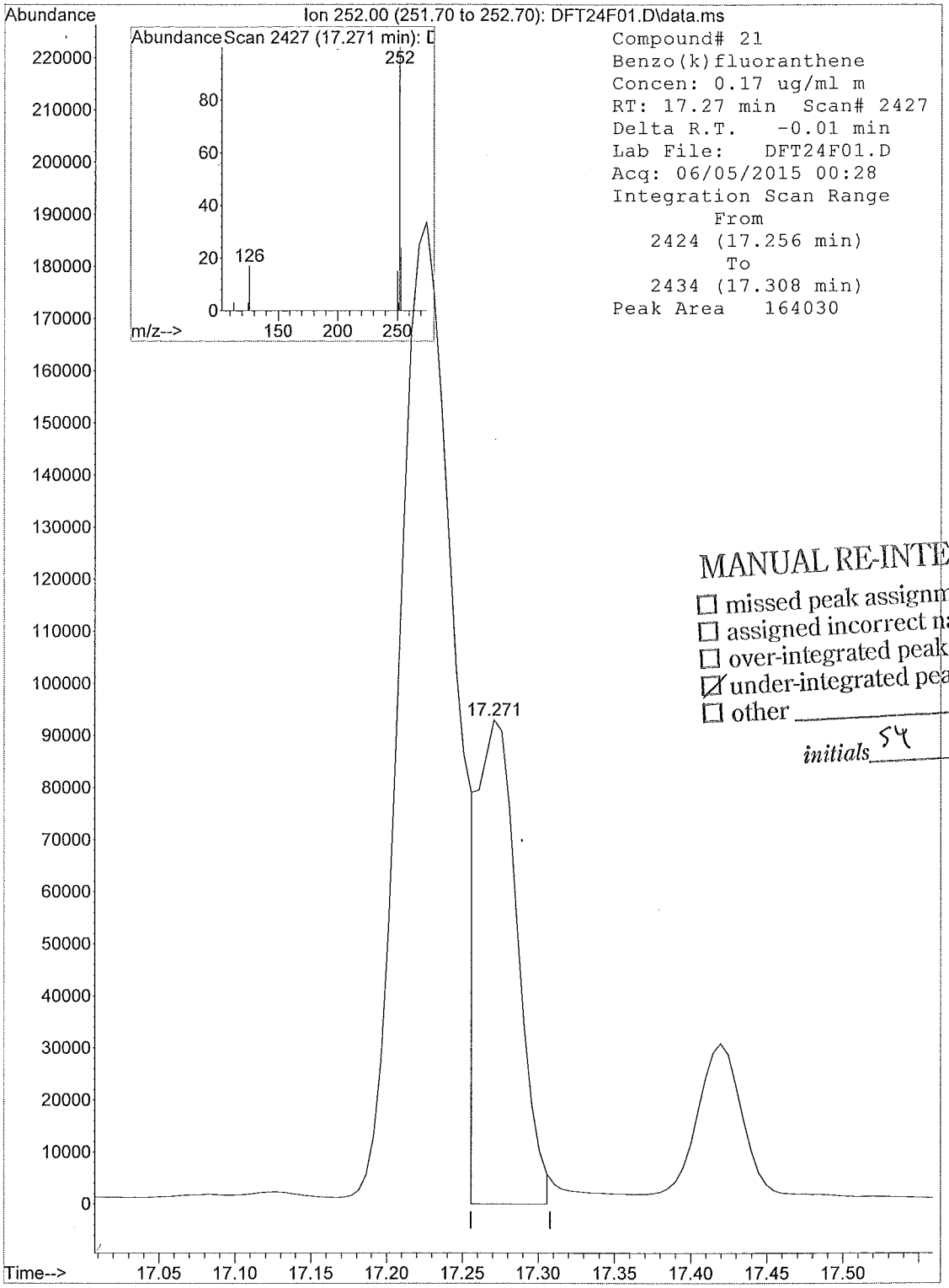
#25
Benzo(g,h,i)perylene
Concen: 0.17 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:276 Resp: 149243

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



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* 6/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFT09F02

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

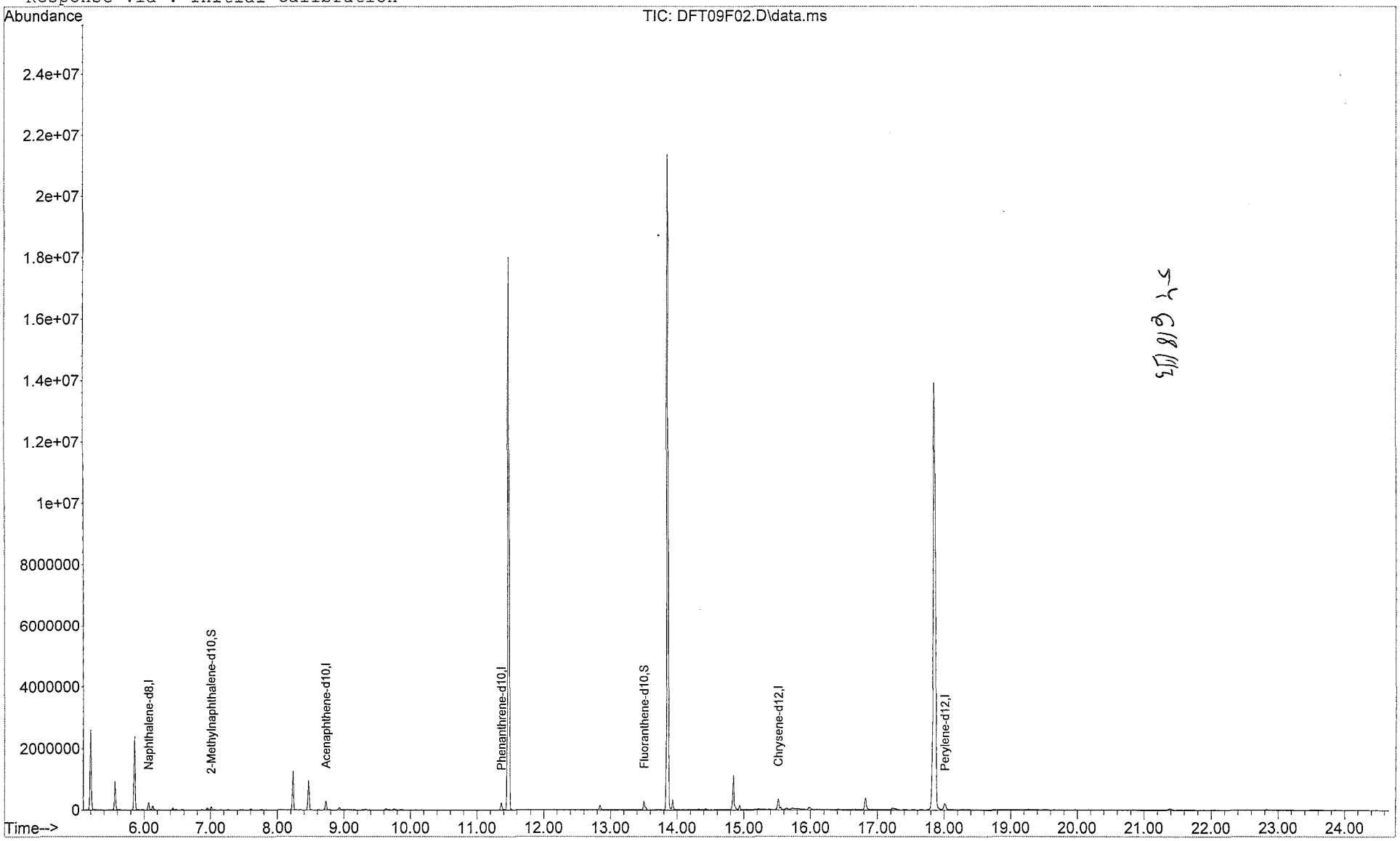
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	2.2	J
129-00-0	Pyrene	3.7	J
56-55-3	Benzo(a)anthracene	2.1	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.4	J
207-08-9	Benzo(k)fluoranthene	0.87	J
50-32-8	Benzo(a)pyrene	1.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.5	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	0.87	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT09F02.D Vial: 9
Acq On : 06/04/2015 17:03 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:57:02 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

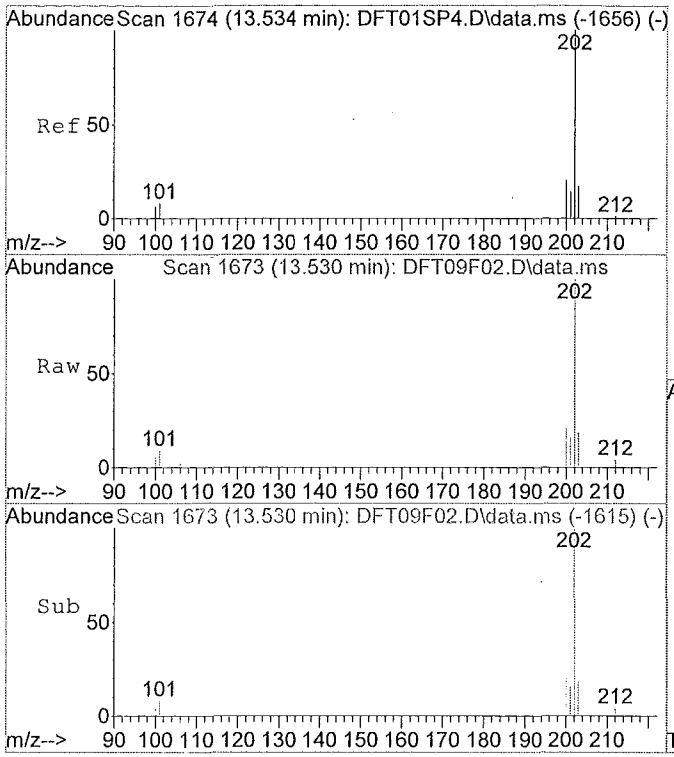
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT09F02.D Vial: 9
Acq On : 06/04/2015 17:03 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:57:02 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	274396	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	194524	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	348481	0.40 ug/ml
15) Chrysene-d12	15.52	240	354502	0.40 ug/ml
19) Perylene-d12	18.01	264	379561	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	118058	0.267ug/mL
13) Fluoranthene-d10	13.50	212	307398	0.323ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	65744	0.058ug/ml	91
16) Pyrene	13.88	202	106683	0.096ug/ml	1
17) Benzo(a)anthracene	15.50	228	52347	0.055ug/ml	93
18) Chrysene	15.55	228	56742	0.057ug/ml	95
20) Benzo(b)fluoranthene	17.23	252	75084	0.063ug/ml	99
21) Benzo(k)fluoranthene	17.28	252	27853	0.023ug/ml m SY 6/18/15	98
22) Benzo(a)pyrene	17.89	252	41994	0.037ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	37816	0.038ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.72	276	25385	0.023ug/ml	64

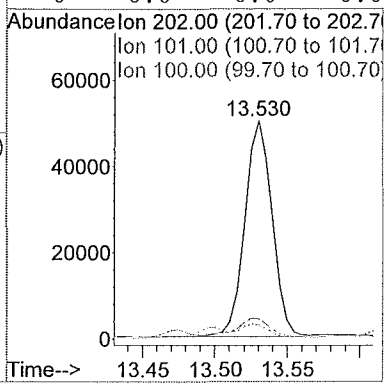
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

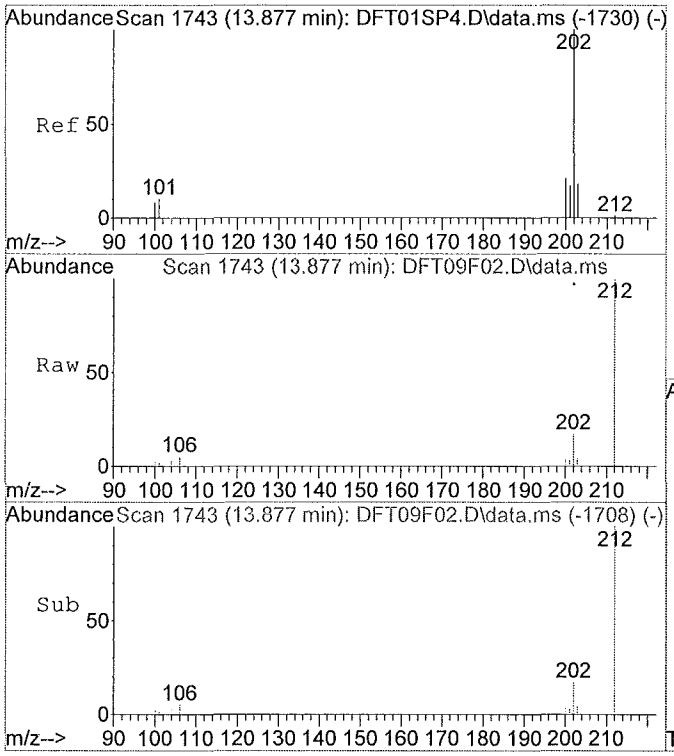


#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:202 Resp: 65744

Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

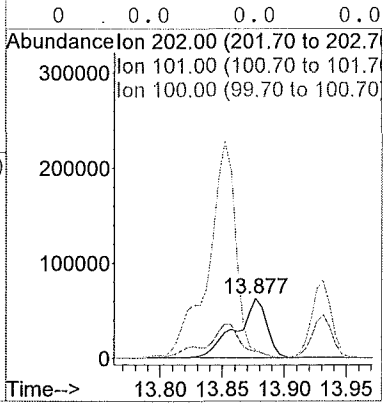


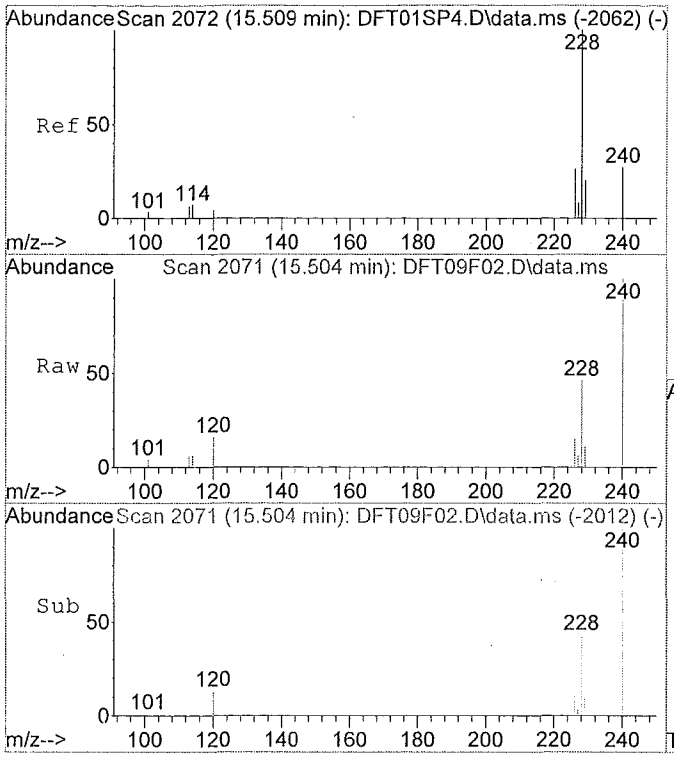


#16
Pyrene
Concen: 0.10 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:202 Resp: 106683

Ion	Ratio	Lower	Upper
202	100		
101	66.7	10.6	19.6#
100	335.3	9.4	17.4#
0	0.0	0.0	0.0

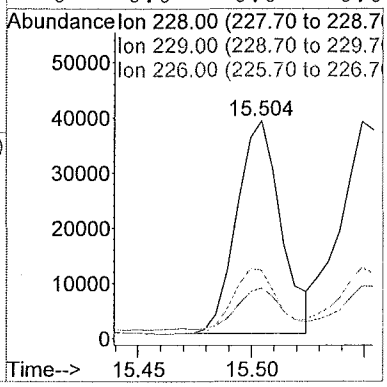


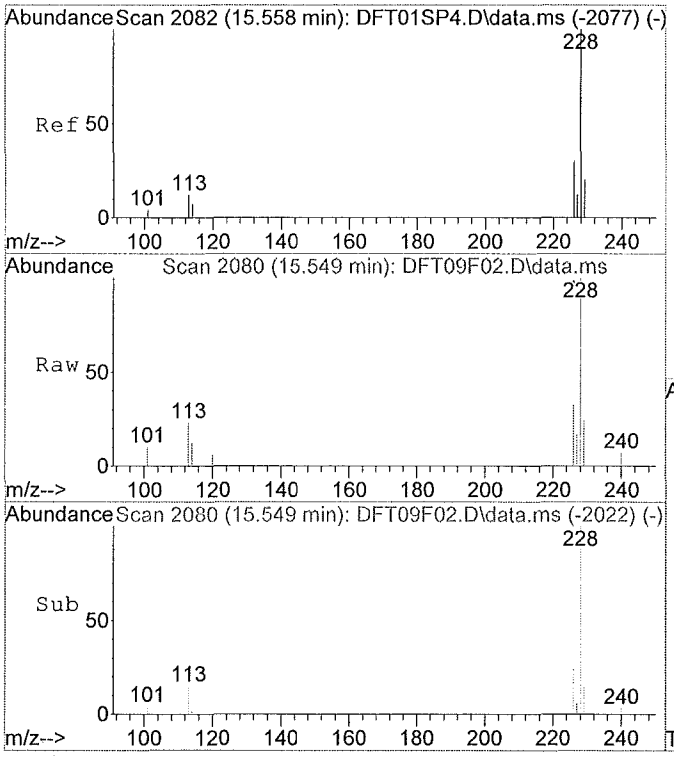


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2071
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:228 Resp: 52347

Ion	Ratio	Lower	Upper
228	100		
229	24.2	14.5	26.9
226	30.0	18.5	34.3
0	0.0	0.0	0.0

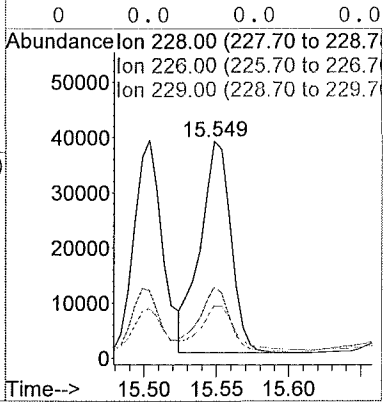


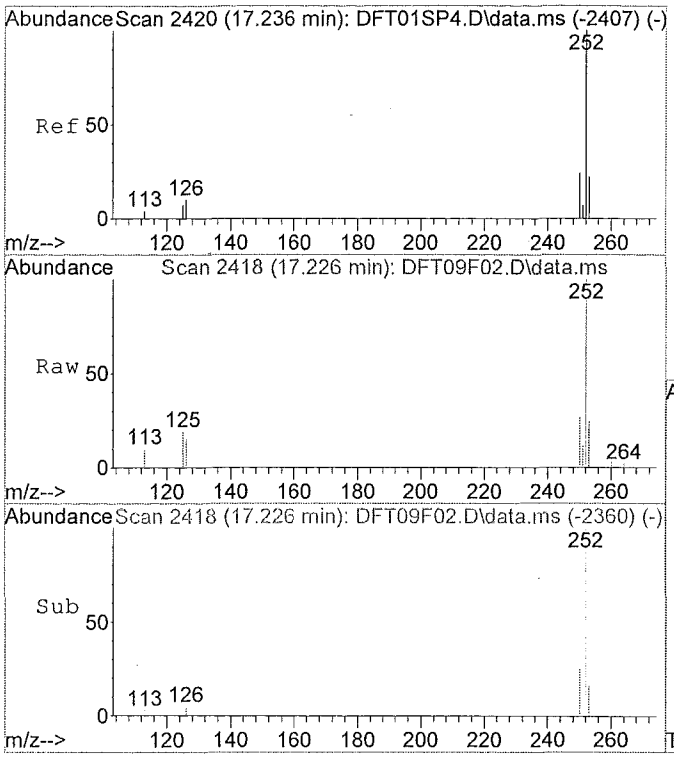


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:228 Resp: 56742

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	22.9	14.5	26.9
0	0.0	0.0	0.0

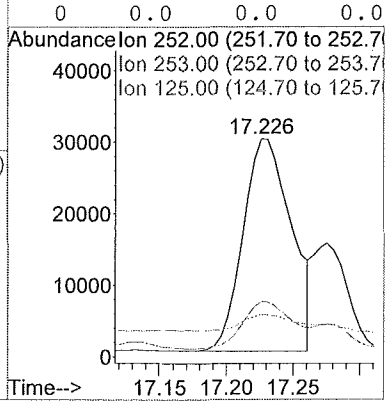


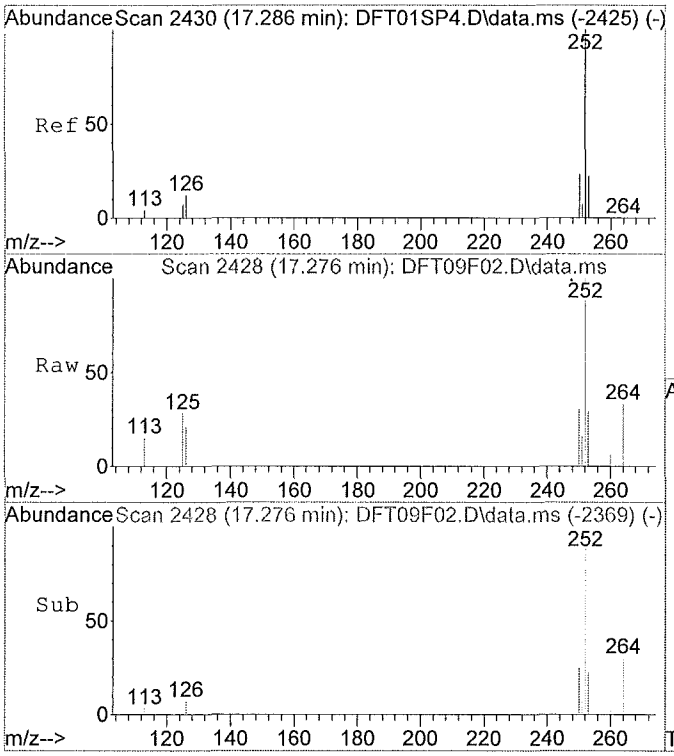


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:252 Resp: 75084

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	14.9	0.0	0.0#
0	0.0	0.0	0.0

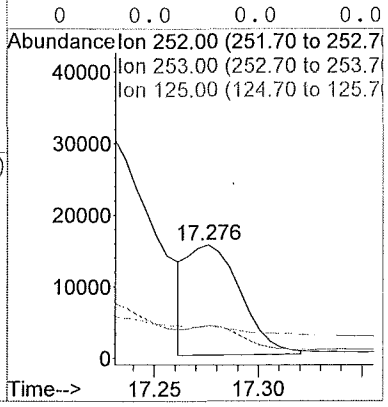


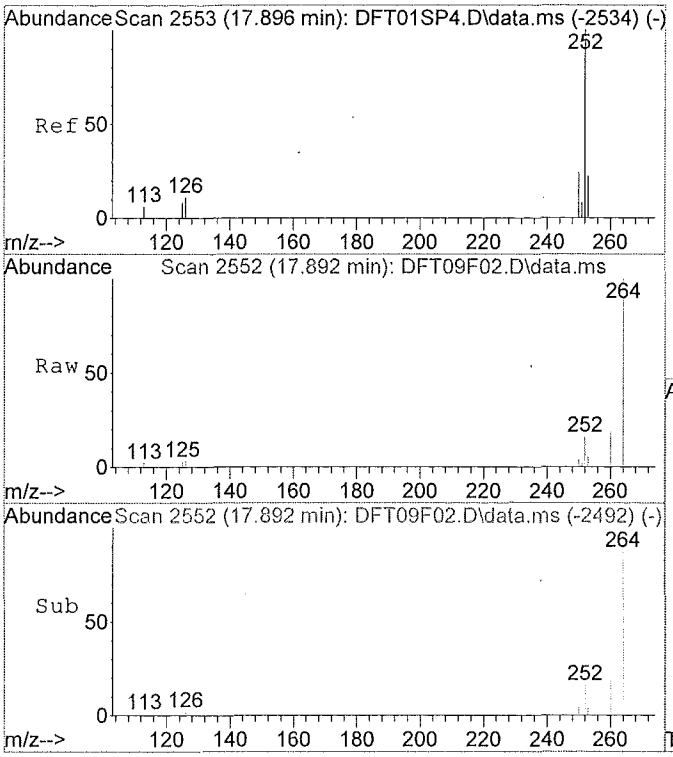


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:252 Resp: 27853

Ion	Ratio	Lower	Upper
252	100		
253	60.4	15.0	27.8#
125	40.0	0.0	0.0#
0	0.0	0.0	0.0

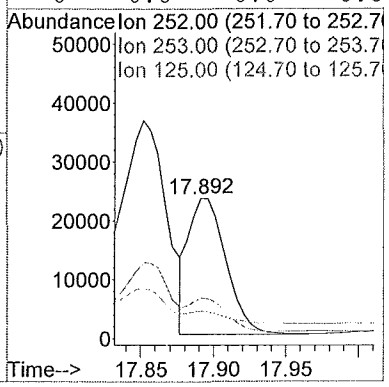


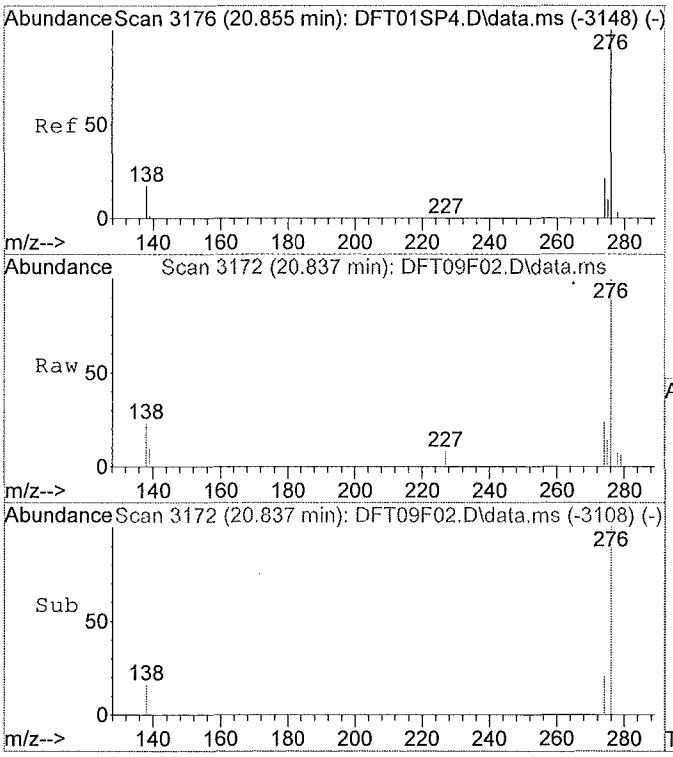


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:252 Resp: 41994

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

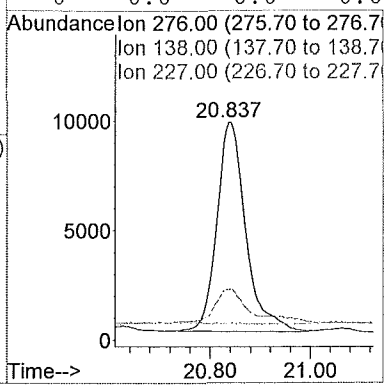


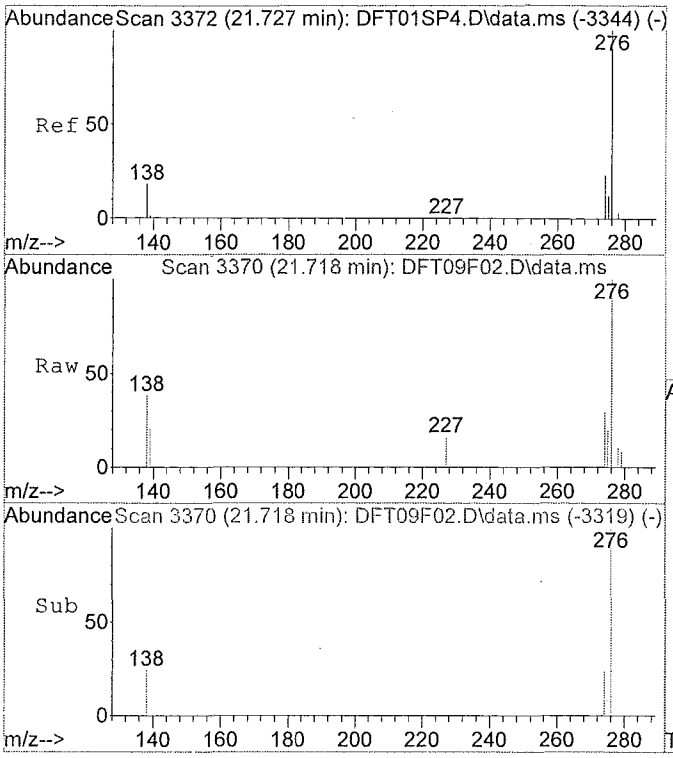


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:276 Resp: 37816

Ion	Ratio	Lower	Upper
276	100		
138	14.2	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

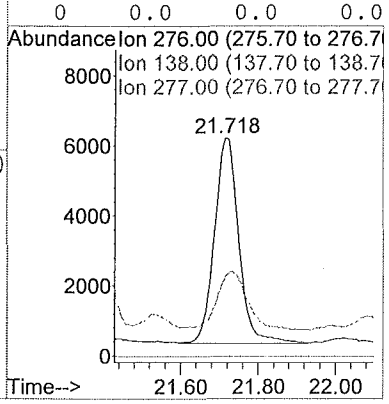




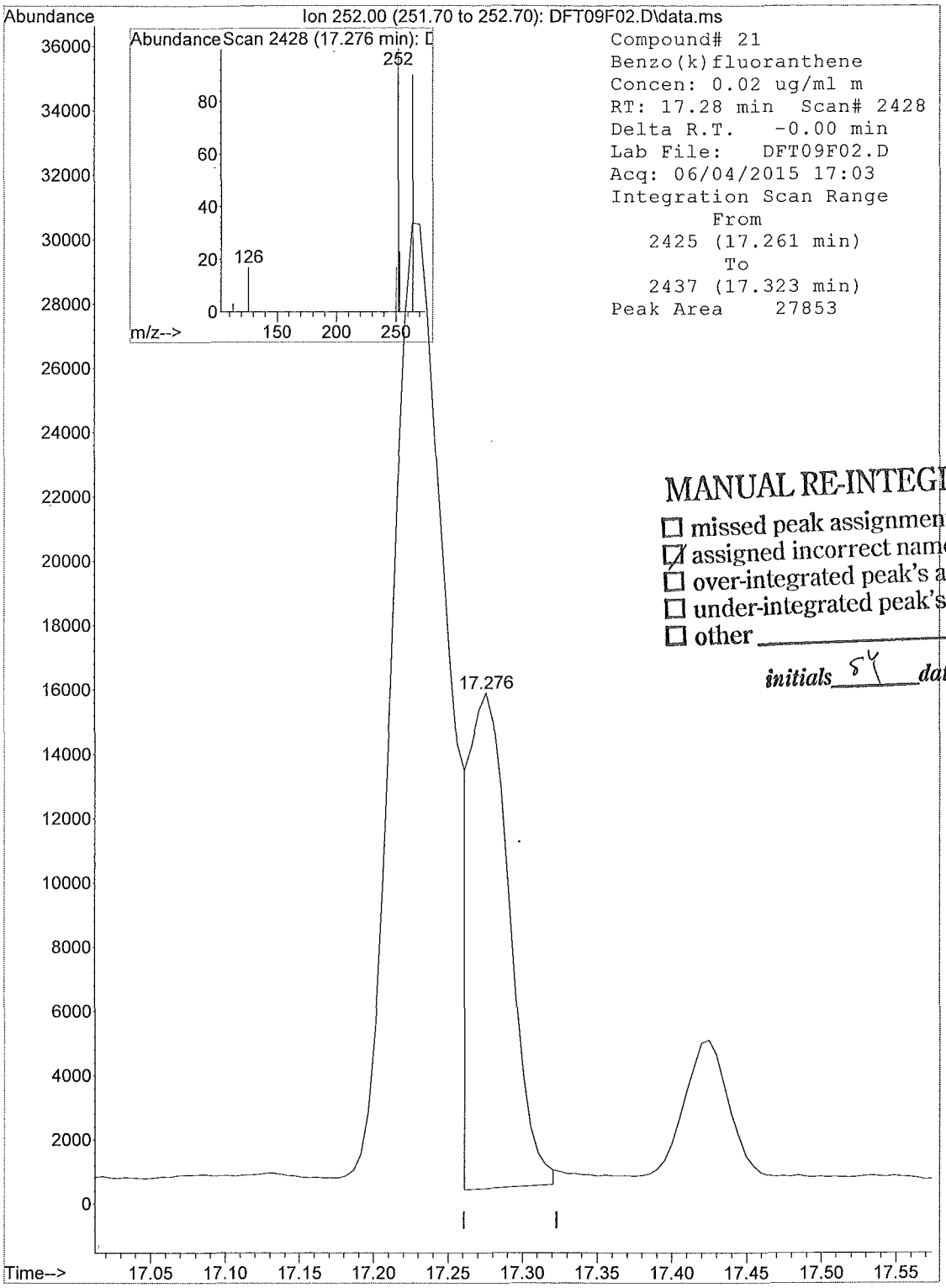
#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.72 min Scan# 3370
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:276 Resp: 25385

Ion	Ratio	Lower	Upper
276	100		
138	35.0	16.2	30.0#
277	0.0	16.5	30.7#
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* 6/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT10F03

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

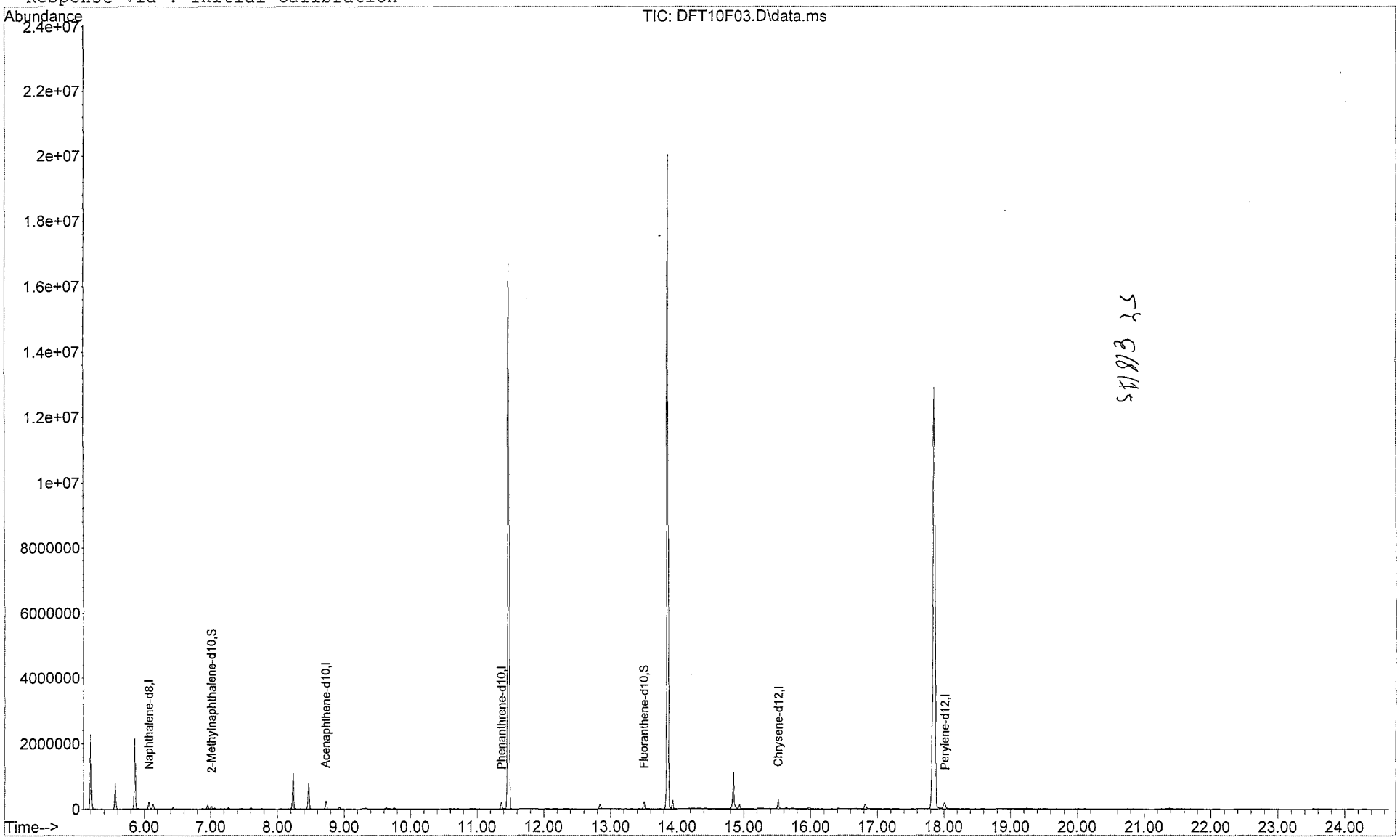
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.0	J
91-57-6	2-Methylnaphthalene	1.0	J
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT10F03.D Vial: 10
Acq On : 06/04/2015 17:33 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:58:18 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

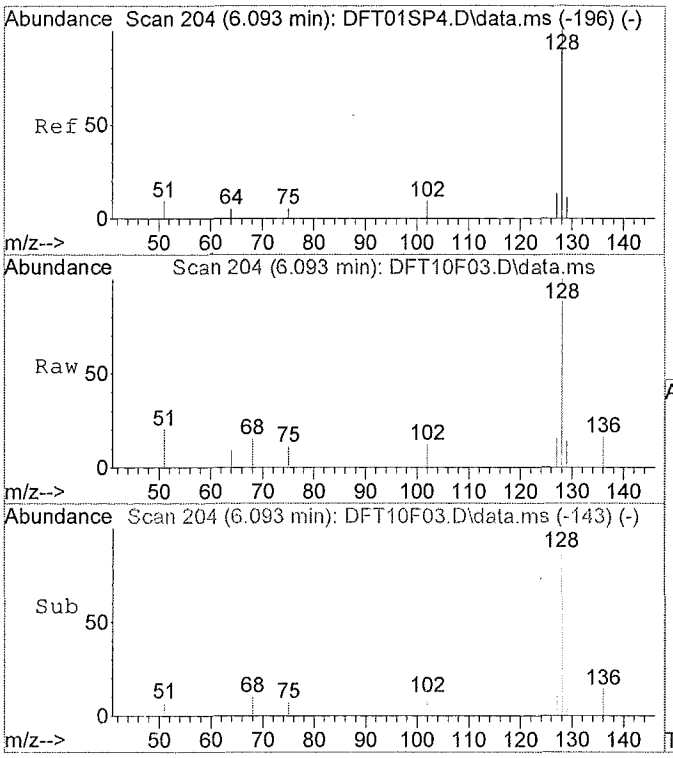
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT10F03.D Vial: 10
Acq On : 06/04/2015 17:33 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:58:18 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	241539	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	170938	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	298364	0.40 ug/ml
15) Chrysene-d12	15.51	240	310929	0.40 ug/ml
19) Perylene-d12	18.01	264	340346	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	93594	0.240ug/mL
13) Fluoranthene-d10	13.50	212	262227	0.321ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	16556	0.026ug/ml	93
4) 2-Methylnaphthalene	7.06	142	10838	0.027ug/ml	99
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	

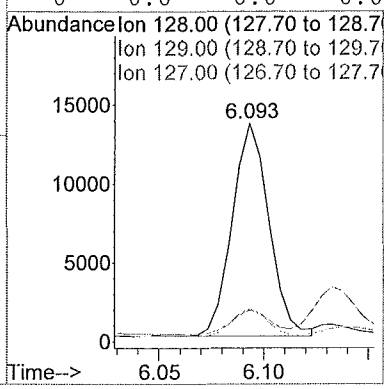
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

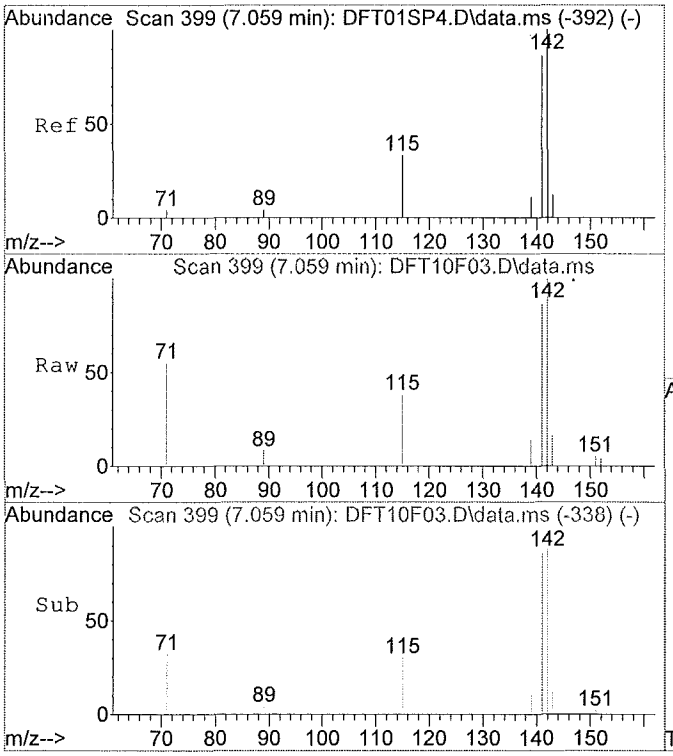


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT10F03.D
Acq: 06/04/2015 17:33

Tgt Ion:128 Resp: 16556

Ion	Ratio	Lower	Upper
128	100		
129	12.9	0.0	0.0#
127	12.8	11.1	20.5
0	0.0	0.0	0.0

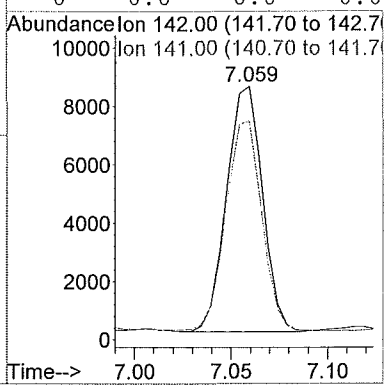




#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DFT10F03.D
Acq: 06/04/2015 17:33

Tgt Ion:142 Resp: 10838

Ion	Ratio	Lower	Upper
142	100		
141	86.3	61.1	113.5
0	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.

F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFT25F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/05/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 10.0

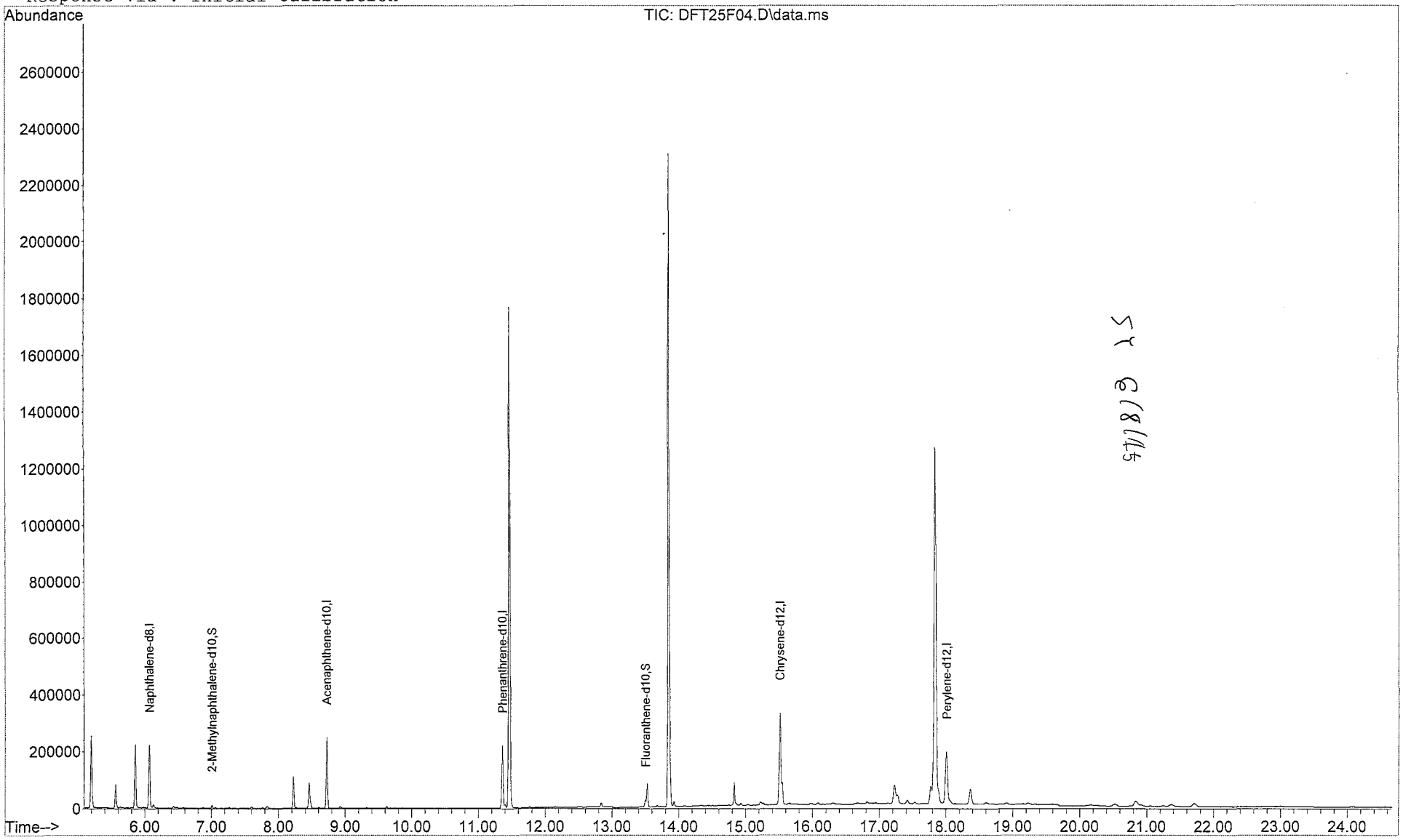
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	39.	U
91-57-6	2-Methylnaphthalene	39.	U
208-96-8	Acenaphthylene	39.	U
83-32-9	Acenaphthene	39.	U
86-73-7	Fluorene	39.	U
87-86-5	Pentachlorophenol	78.	U
85-01-8	Phenanthrene	39.	U
120-12-7	Anthracene	39.	U
206-44-0	Fluoranthene	26.	J
129-00-0	Pyrene	28.	J
56-55-3	Benzo(a)anthracene	21.	J
218-01-9	Chrysene	38.	J
205-99-2	Benzo(b)fluoranthene	32.	J
207-08-9	Benzo(k)fluoranthene	12.	J
50-32-8	Benzo(a)pyrene	19.	J
193-39-5	Indeno(1,2,3-cd)pyrene	20.	J
53-70-3	Dibenzo(a,h)anthracene	39.	U
191-24-2	Benzo(g,h,i)perylene	11.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT25F04.D Vial: 23
Acq On : 06/05/2015 00:58 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 08:40:03 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



57 of 145

Quantitation Report

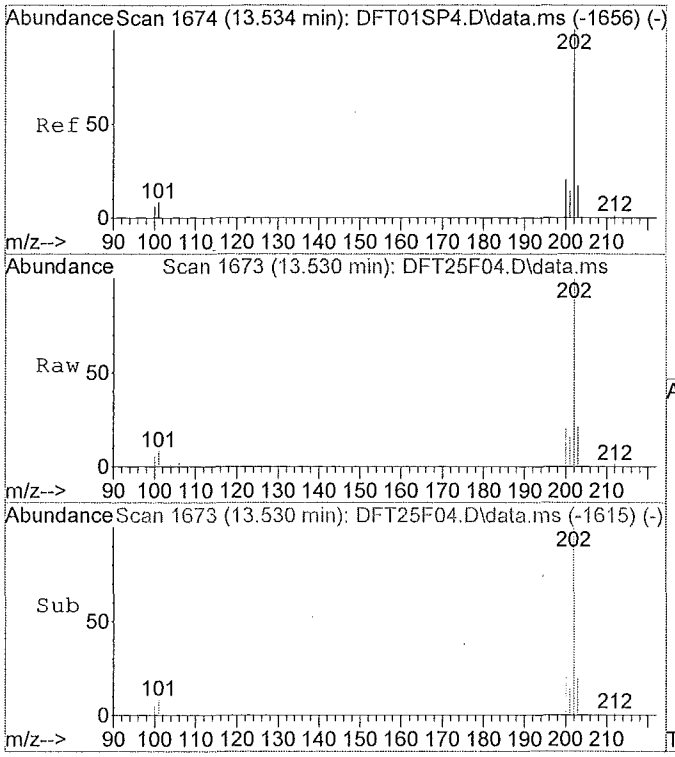
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT25F04.D Vial: 23
Acq On : 06/05/2015 00:58 Operator: DJC
Sample : 1514052004 F9K77 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 08:40:03 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	257398	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	166068	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	300507	0.40 ug/ml
15) Chrysene-d12	15.51	240	335791	0.40 ug/ml
19) Perylene-d12	18.01	264	341658	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	12748	0.031ug/mL
13) Fluoranthene-d10	13.50	212	27592	0.034ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	65002	0.066ug/ml	90
16) Pyrene	13.87	202	74819	0.071ug/ml	63
17) Benzo(a)anthracene	15.50	228	49283	0.055ug/ml	90
18) Chrysene	15.55	228	91867	0.097ug/ml	95
20) Benzo(b)fluoranthene	17.23	252	87188	0.082ug/ml	97
21) Benzo(k)fluoranthene	17.27	252	33849	0.031ug/ml m SY 6/8/15	96
22) Benzo(a)pyrene	17.88	252	48733	0.048ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.83	276	46560	0.052ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	28678	0.029ug/ml	70

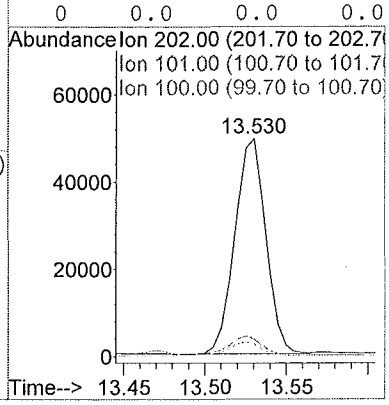
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

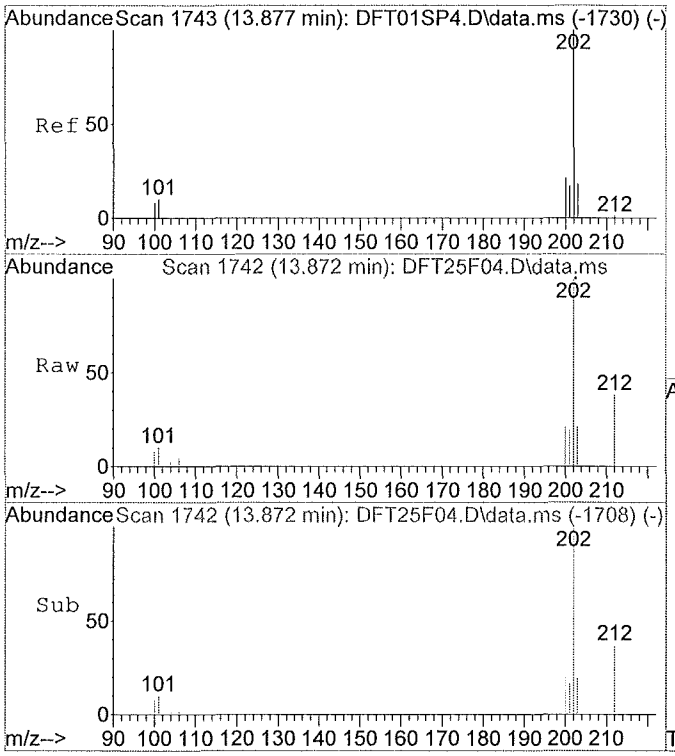


#14
Fluoranthene
Concen: 0.07 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:202 Resp: 65002

Ion	Ratio	Lower	Upper
202	100		
101	9.3	9.4	17.6#
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

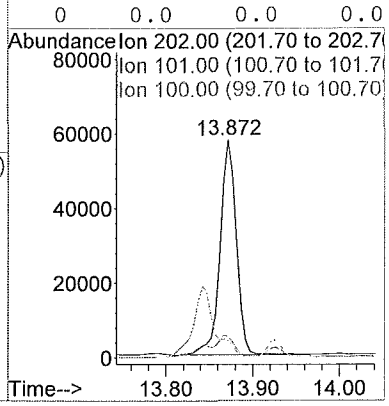


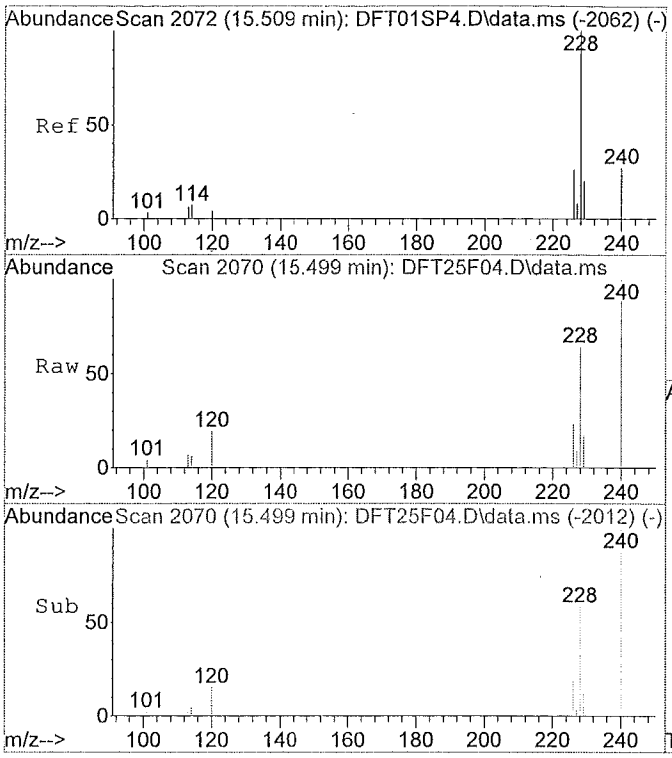


#16
Pyrene
Concen: 0.07 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:202 Resp: 74819

Ion	Ratio	Lower	Upper
202	100		
101	15.9	10.6	19.6
100	44.6	9.4	17.4#
0	0.0	0.0	0.0

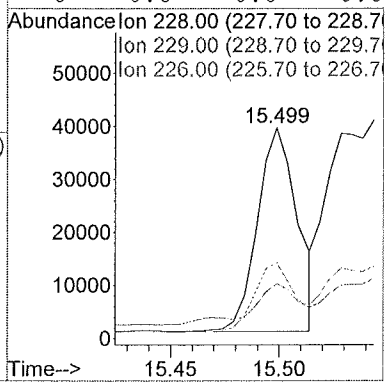


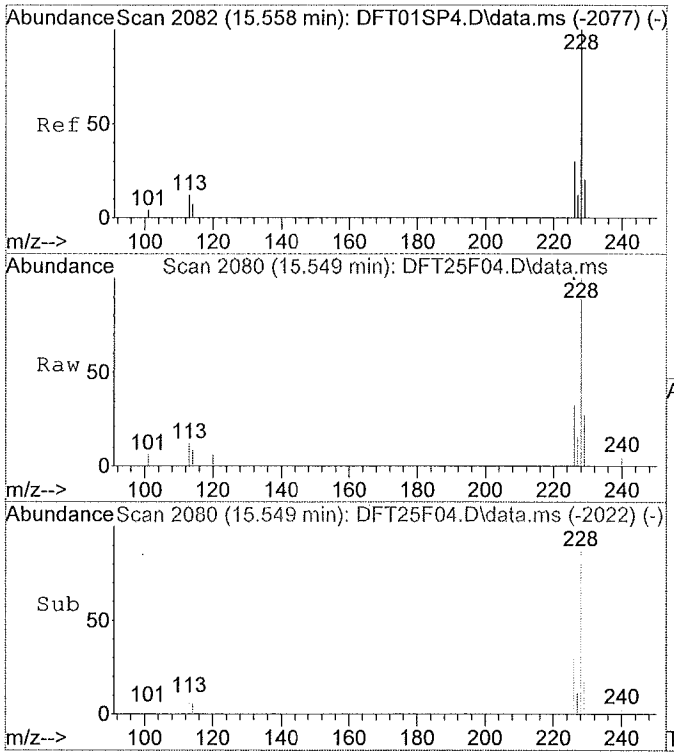


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:228 Resp: 49283

Ion	Ratio	Lower	Upper
228	100		
229	20.0	14.5	26.9
226	35.1	18.5	34.3#
0	0.0	0.0	0.0

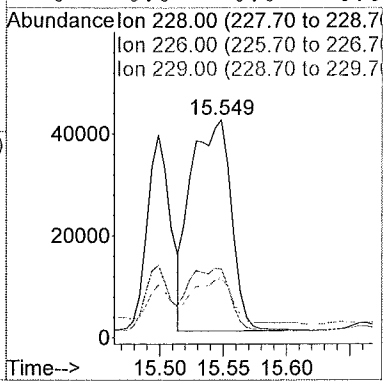


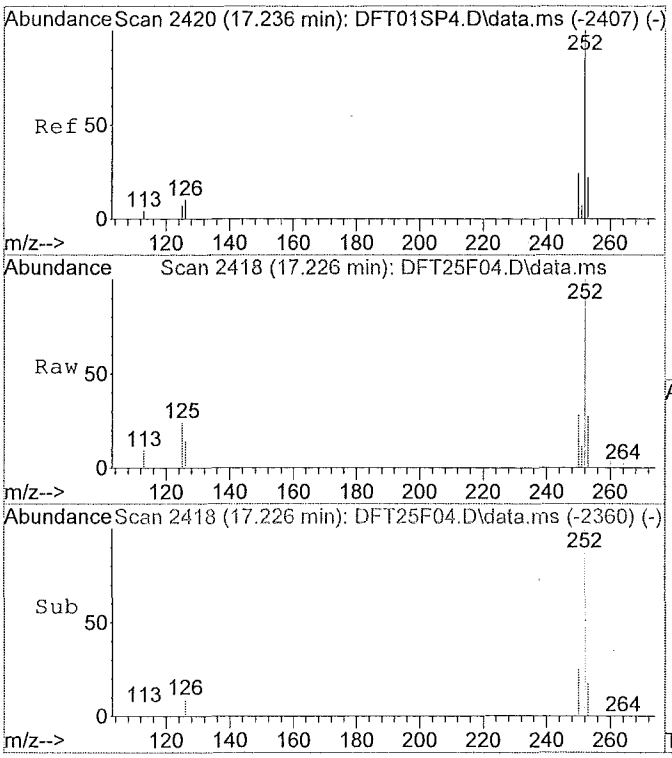


#18
Chrysene
Concen: 0.10 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:228 Resp: 91867

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	22.3	14.5	26.9
0	0.0	0.0	0.0

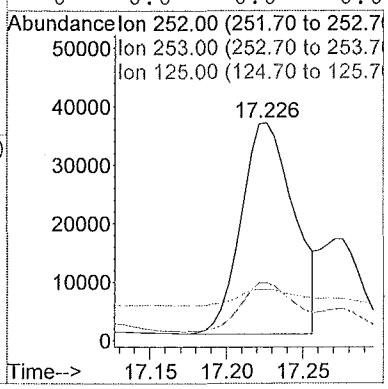


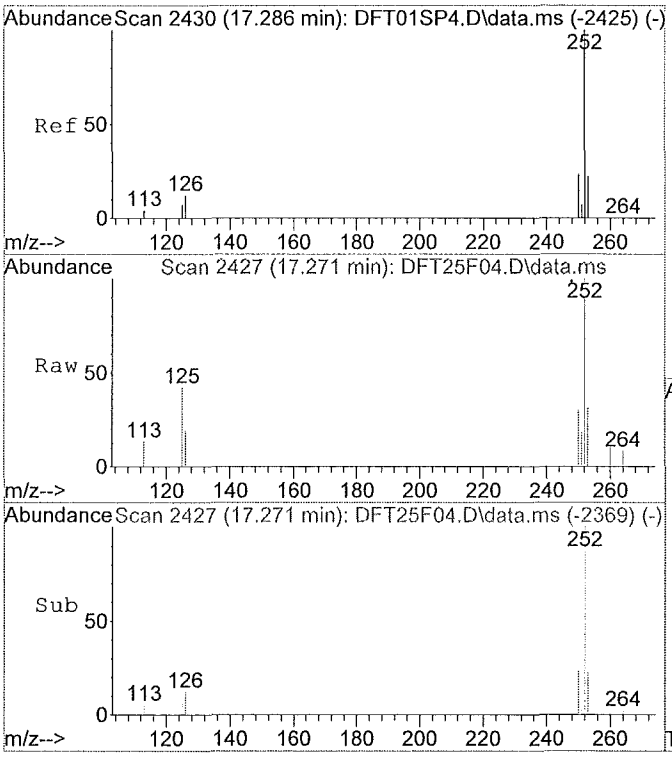


#20
Benzo(b)fluoranthene
Concen: 0.08 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:252 Resp: 87188

Ion	Ratio	Lower	Upper
252	100		
253	23.2	15.3	28.3
125	8.9	0.0	0.0#
0	0.0	0.0	0.0

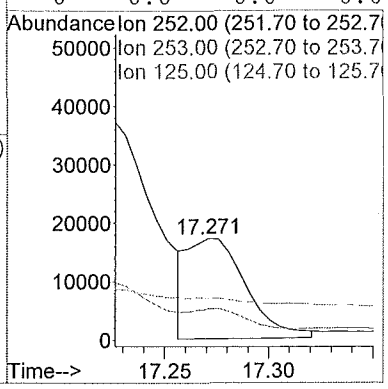


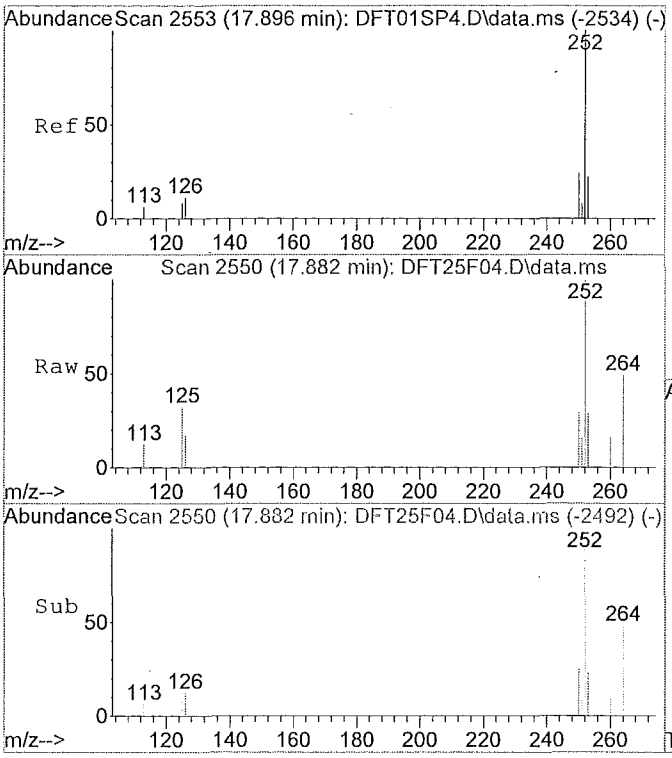


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:252 Resp: 33849

Ion	Ratio	Lower	Upper
252	100		
253	59.7	15.0	27.8#
125	22.8	0.0	0.0#
0	0.0	0.0	0.0

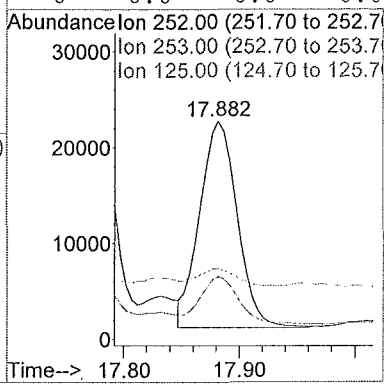


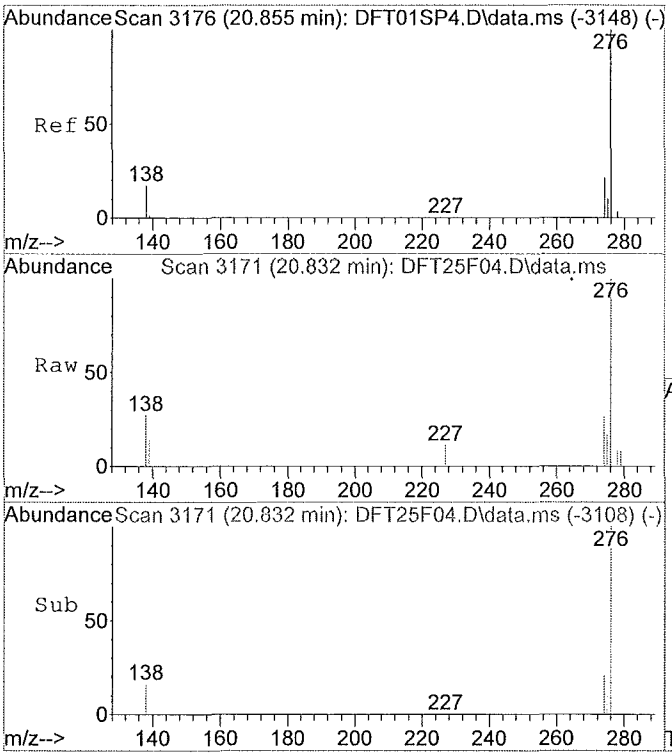


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:252 Resp: 48733

Ion	Ratio	Lower	Upper
252	100		
253	23.9	15.0	27.8
125	8.8	0.0	0.0#
0	0.0	0.0	0.0

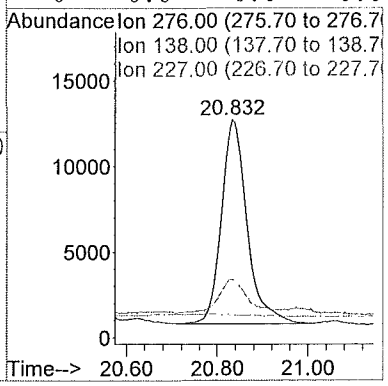


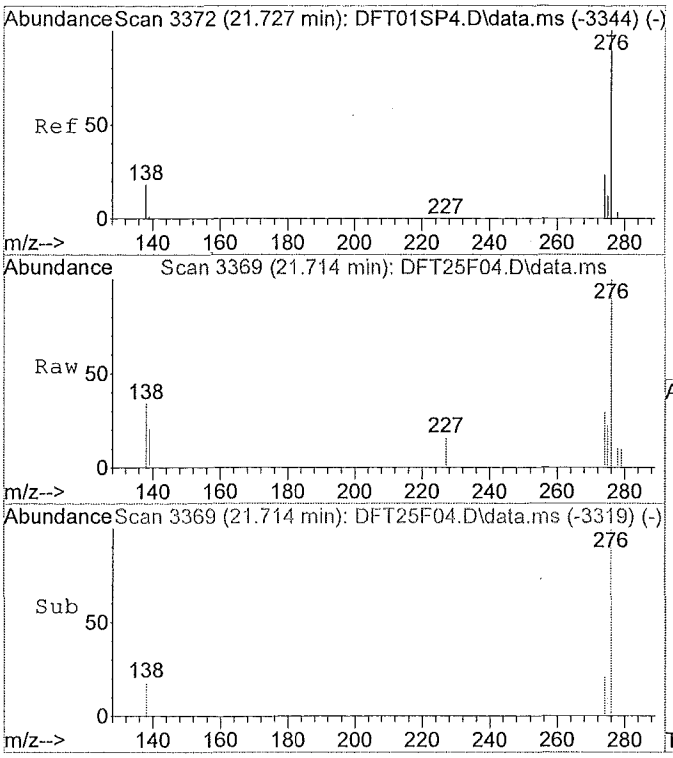


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:276 Resp: 46560

Ion	Ratio	Lower	Upper
276	100		
138	18.0	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

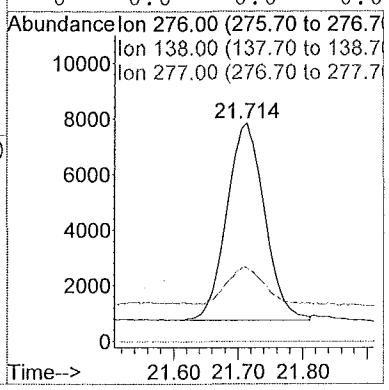




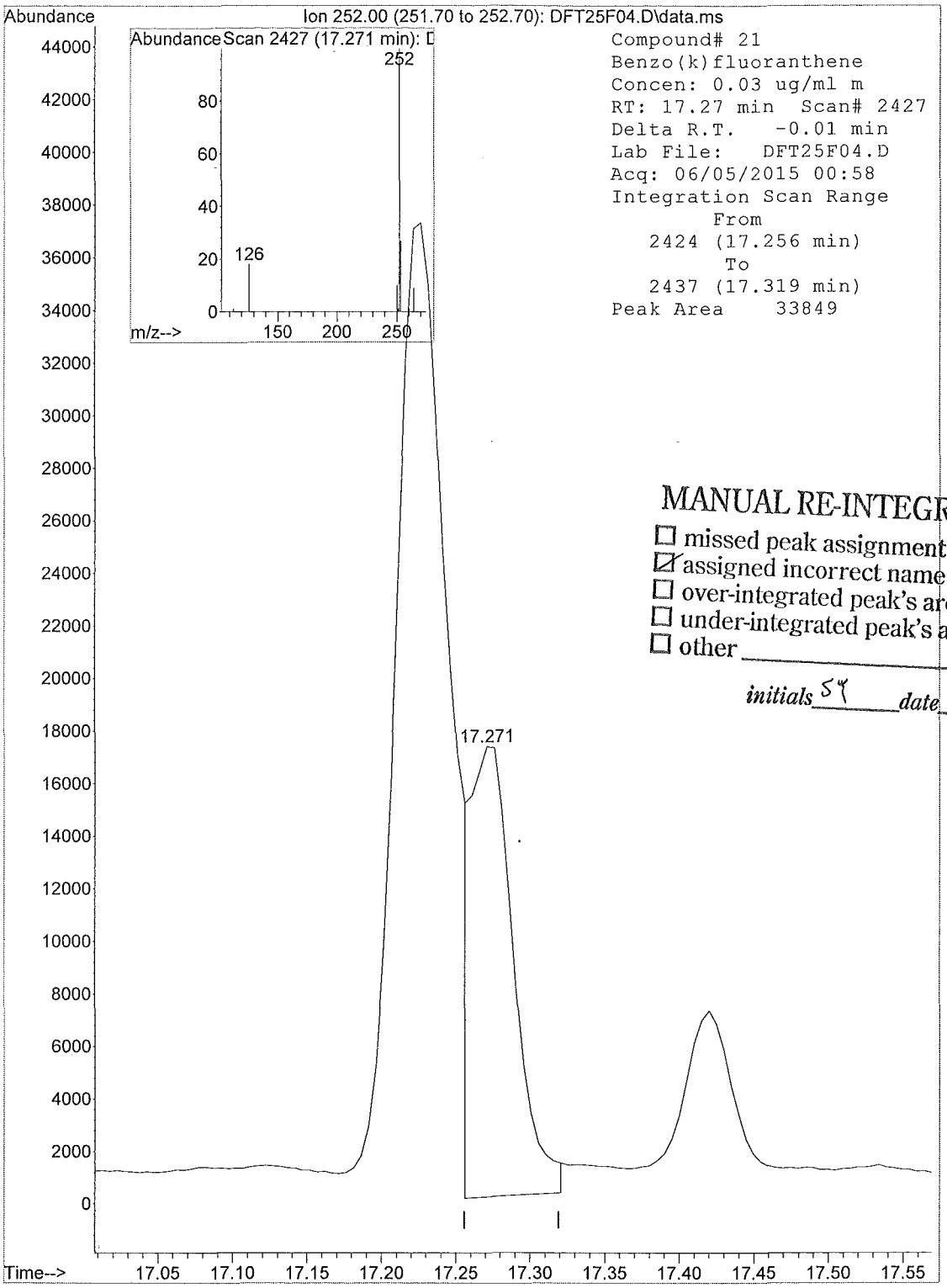
#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT25F04.D
Acq: 06/05/2015 00:58

Tgt Ion:276 Resp: 28678

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



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



MANUAL RE-INTEGRATI

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

initials SY *date* 9/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFT11F05

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

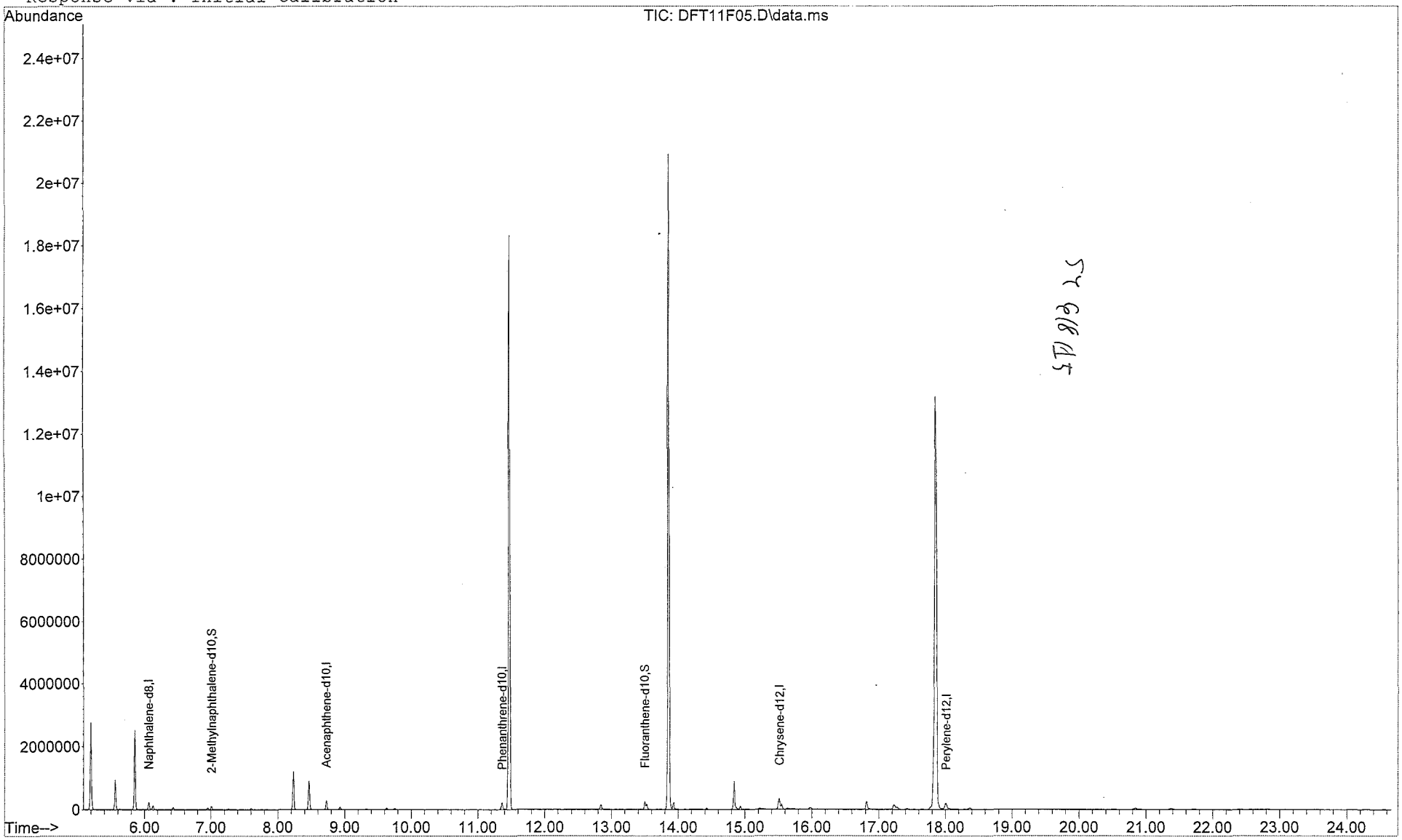
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	4.1	U
91-57-6	2-Methylnaphthalene	4.1	U
208-96-8	Acenaphthylene	1.5	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	8.2	U
85-01-8	Phenanthrene	4.1	U
120-12-7	Anthracene	1.3	J
206-44-0	Fluoranthene	5.0	
129-00-0	Pyrene	6.7	
56-55-3	Benzo(a)anthracene	4.7	
218-01-9	Chrysene	5.5	
205-99-2	Benzo(b)fluoranthene	6.8	
207-08-9	Benzo(k)fluoranthene	2.2	J
50-32-8	Benzo(a)pyrene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	4.3	
53-70-3	Dibenzo(a,h)anthracene	0.88	J
191-24-2	Benzo(g,h,i)perylene	2.1	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT11F05.D Vial: 11
Acq On : 06/04/2015 18:03 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:02:05 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



STD 818 25

Quantitation Report

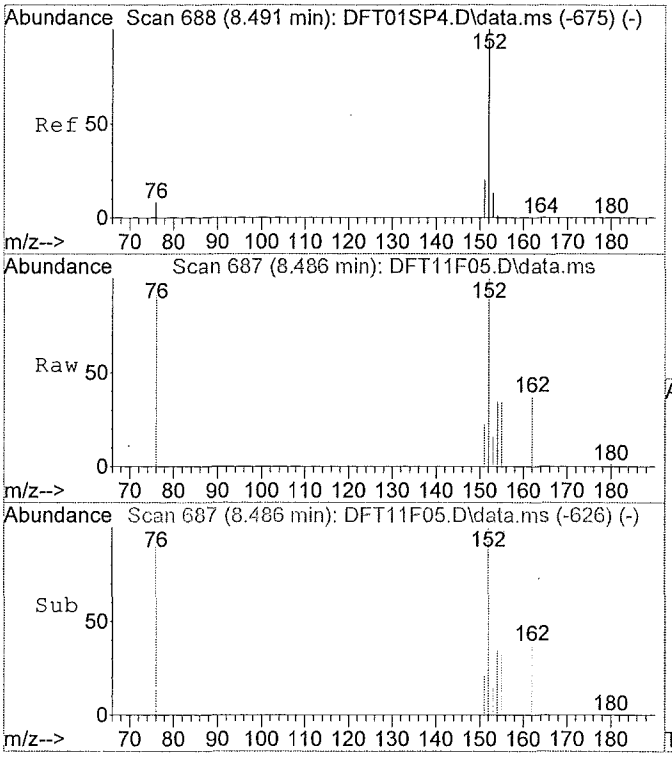
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT11F05.D Vial: 11
Acq On : 06/04/2015 18:03 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:02:05 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	265978	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	187539	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	329459	0.40 ug/ml
15) Chrysene-d12	15.51	240	338562	0.40 ug/ml
19) Perylene-d12	18.01	264	362225	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	118952	0.277ug/mL
13) Fluoranthene-d10	13.50	212	281110	0.312ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	29396	0.036ug/ml	83
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	11.50	178	28215	0.031ug/ml	94
14) Fluoranthene	13.53	202	132575	0.123ug/ml	89
16) Pyrene	13.88	202	174288	0.164ug/ml	1
17) Benzo(a)anthracene	15.50	228	102675	0.114ug/ml	91
18) Chrysene	15.55	228	127586	0.134ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	187190	0.166ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	61483	0.053ug/ml m SY	99
22) Benzo(a)pyrene	17.89	252	109592	0.102ug/ml 6/8/15	98
23) Indeno(1,2,3-c,d)pyrene	20.84	276	100013	0.106ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	22528	0.022ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	55662	0.052ug/ml	75

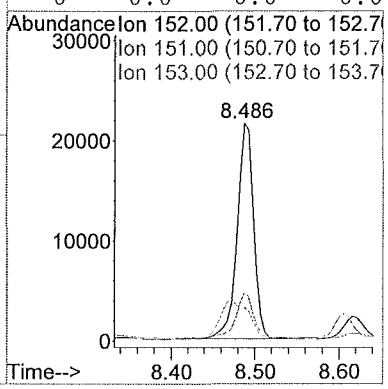
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

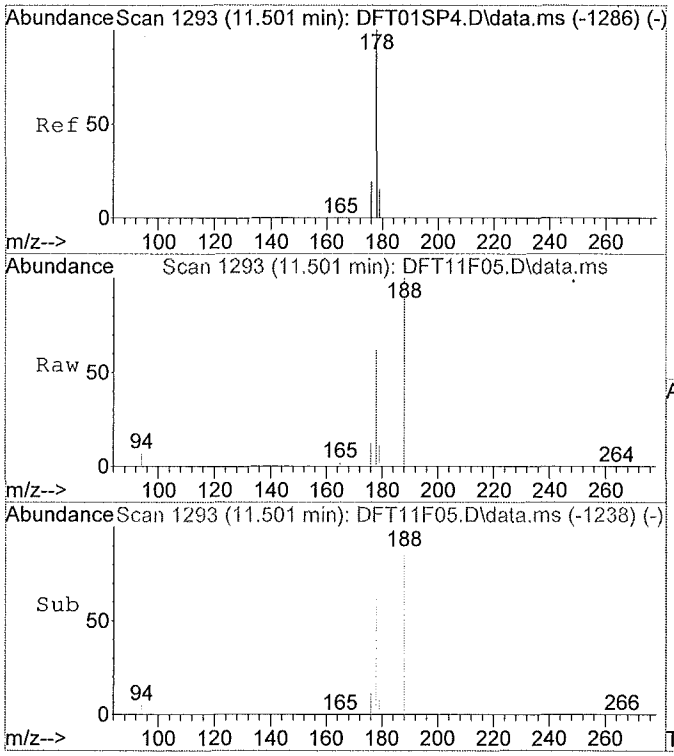


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:152 Resp: 29396

Ion	Ratio	Lower	Upper
152	100		
151	21.6	15.5	28.7
153	30.2	8.8	16.4#
0	0.0	0.0	0.0

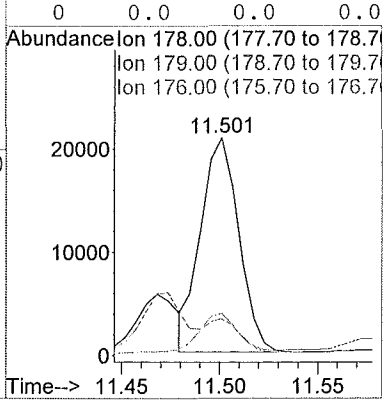


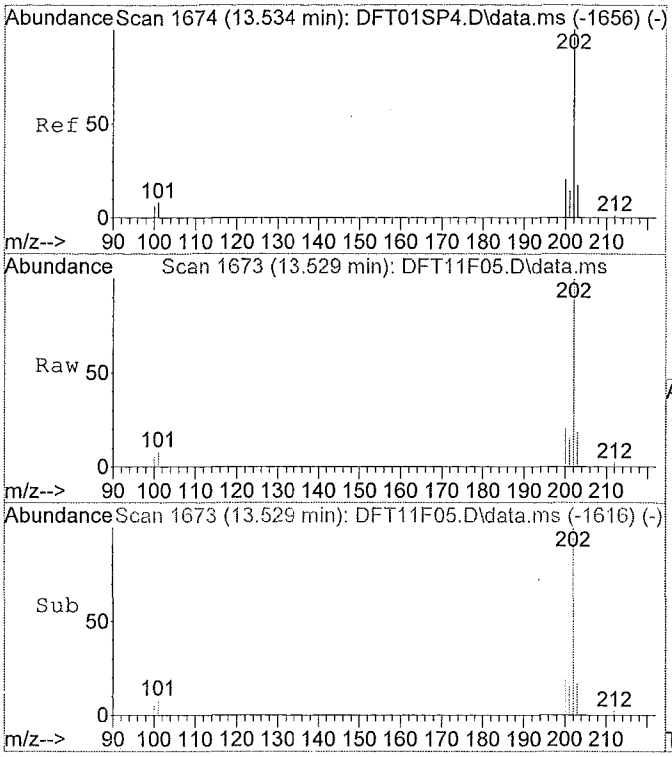


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:178 Resp: 28215

Ion	Ratio	Lower	Upper
178	100		
179	12.0	11.6	21.6
176	20.4	13.9	25.7
0	0.0	0.0	0.0

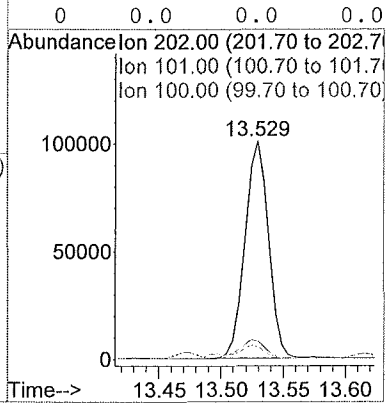


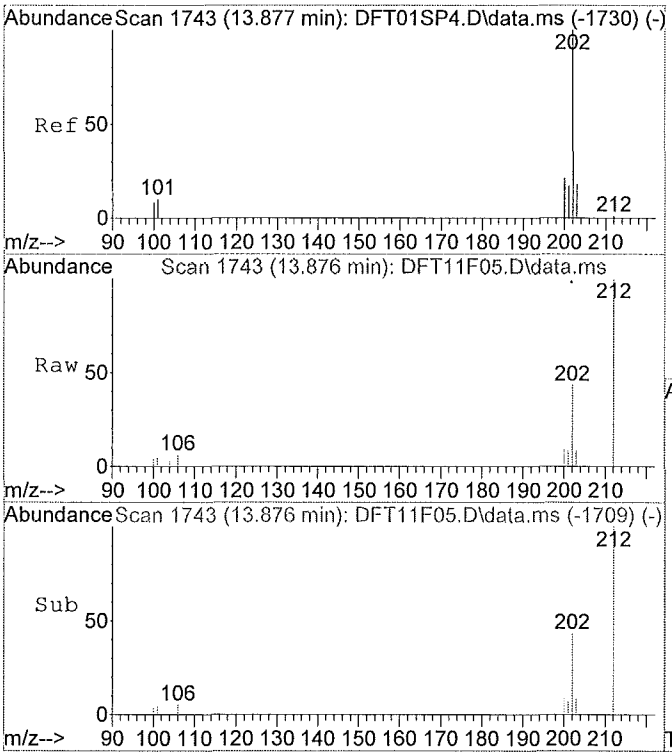


#14
Fluoranthene
Concen: 0.12 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:202 Resp: 132575

Ion	Ratio	Lower	Upper
202	100		
101	9.3	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

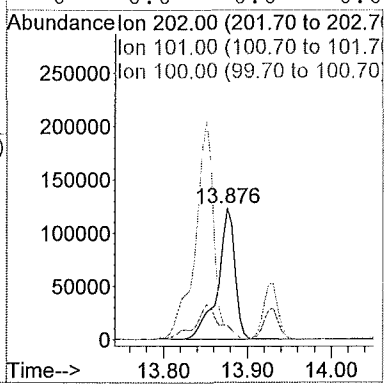


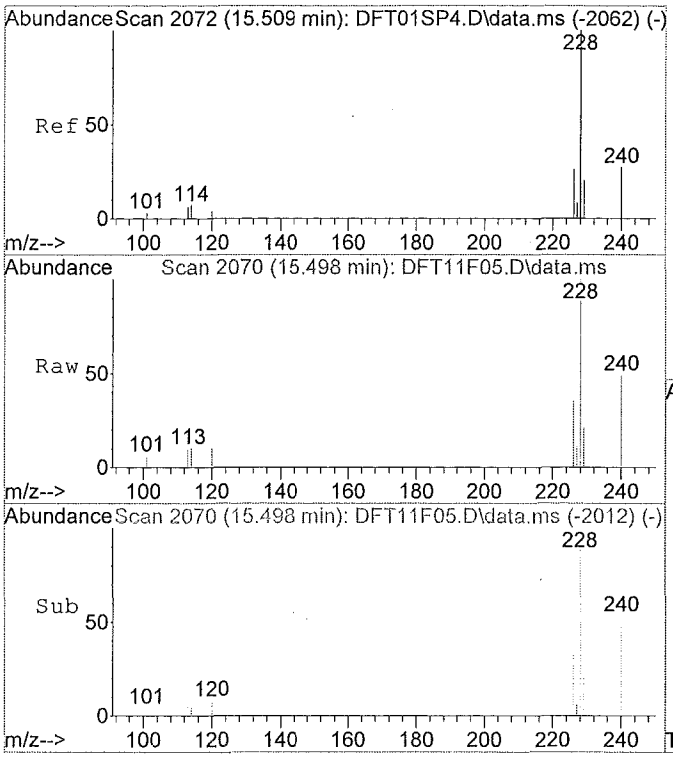


#16
Pyrene
Concen: 0.16 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. -0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:202 Resp: 174288

Ion	Ratio	Lower	Upper
202	100		
101	39.4	10.6	19.6#
100	184.4	9.4	17.4#
0	0.0	0.0	0.0

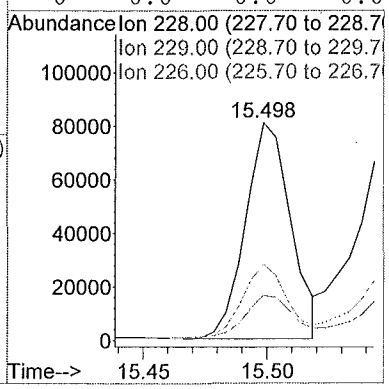


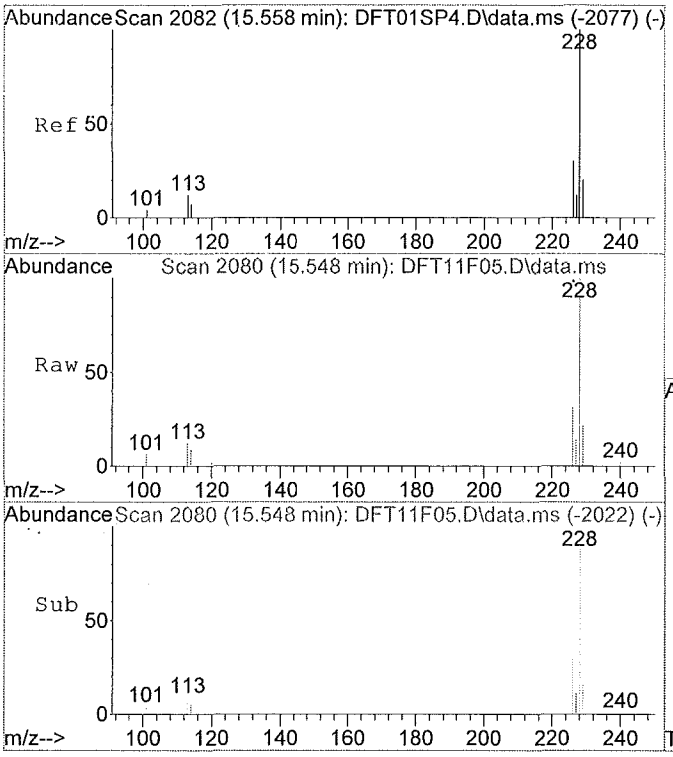


#17
Benzo(a)anthracene
Concen: 0.11 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:228 Resp: 102675

Ion	Ratio	Lower	Upper
228	100		
229	20.4	14.5	26.9
226	34.2	18.5	34.3
0	0.0	0.0	0.0

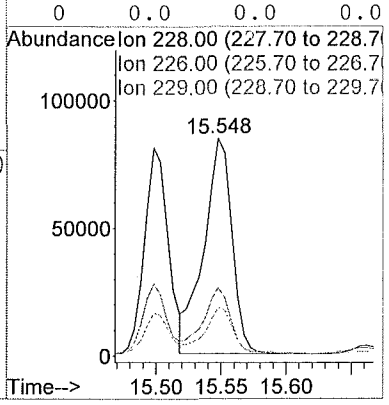


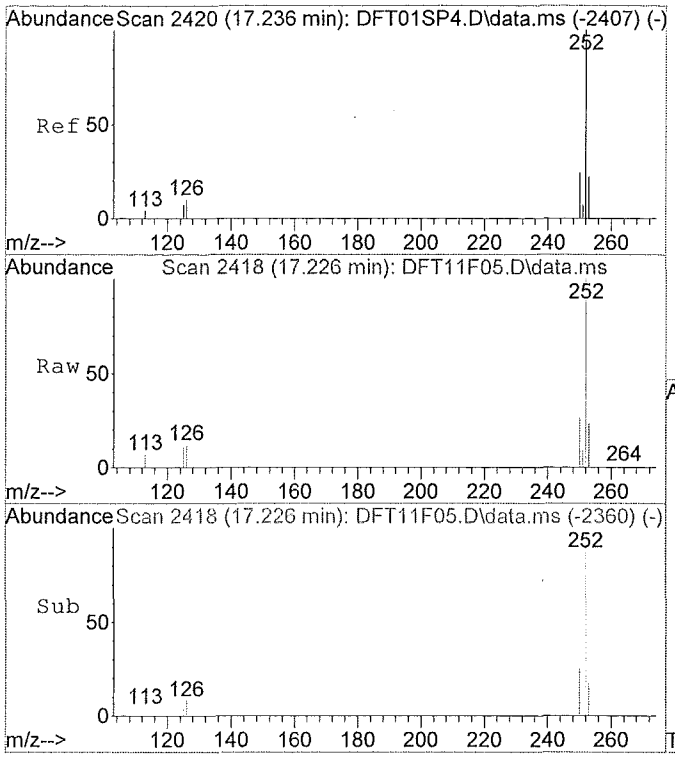


#18
Chrysene
Concen: 0.13 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:228 Resp: 127586

Ion	Ratio	Lower	Upper
228	100		
226	30.6	19.7	36.7
229	21.4	14.5	26.9
0	0.0	0.0	0.0

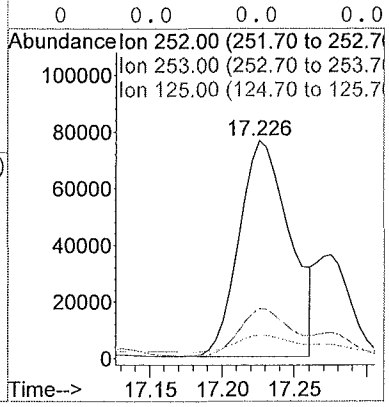


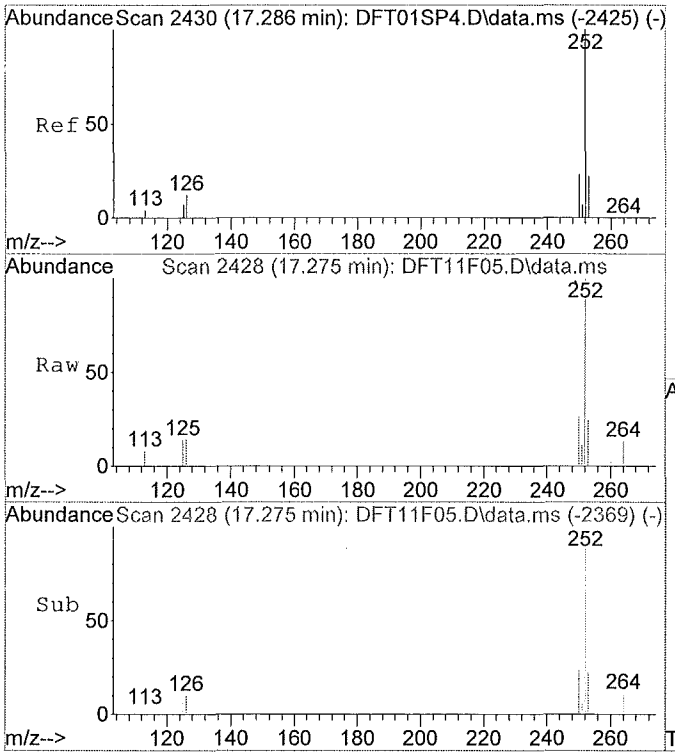


#20
Benzo(b)fluoranthene
Concen: 0.17 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:252 Resp: 187190

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.3	28.3
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

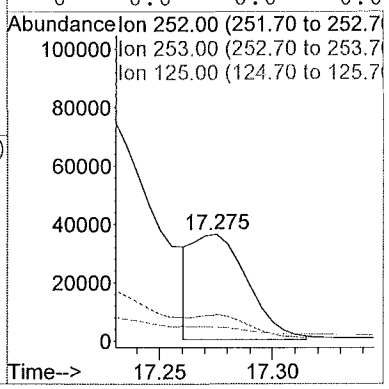


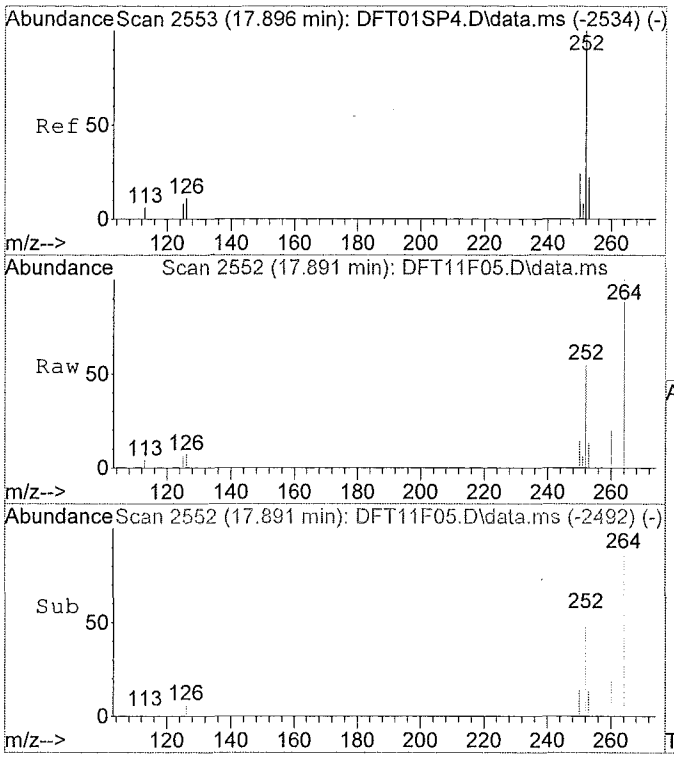


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:252 Resp: 61483

Ion	Ratio	Lower	Upper
252	100		
253	66.4	15.0	27.8#
125	24.9	0.0	0.0#
0	0.0	0.0	0.0

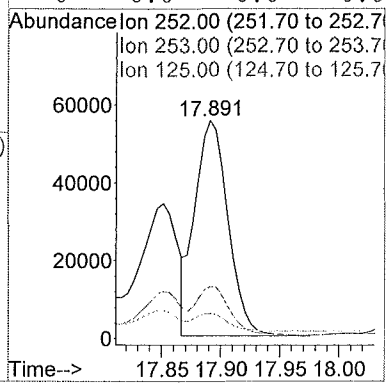


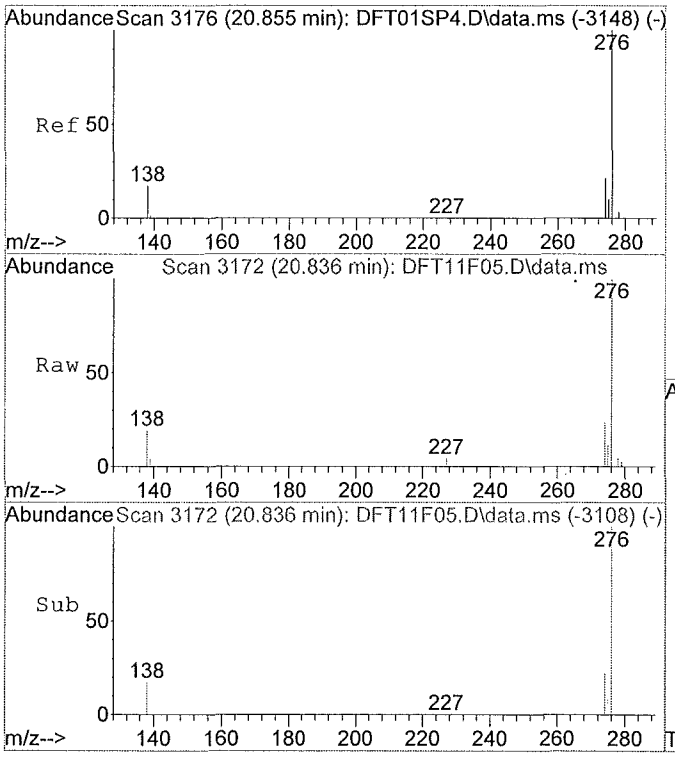


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. -0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:252 Resp: 109592

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.0	27.8
125	8.0	0.0	0.0#
0	0.0	0.0	0.0

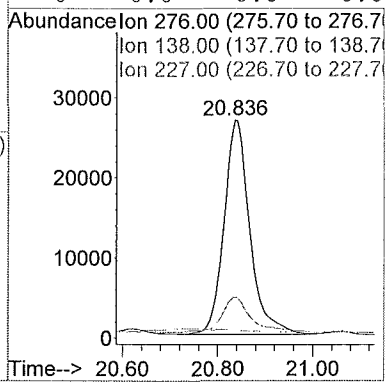


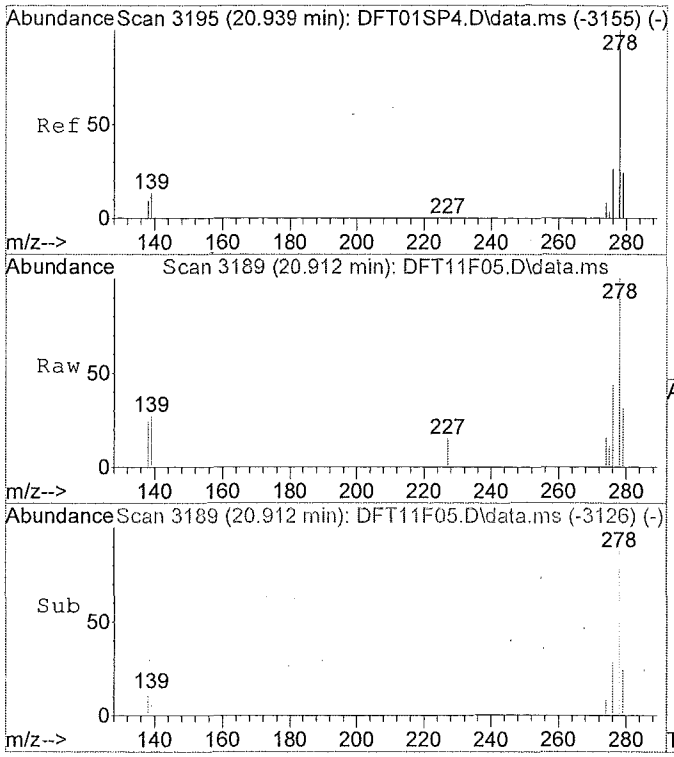


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.11 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:276 Resp: 100013

Ion	Ratio	Lower	Upper
276	100		
138	18.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

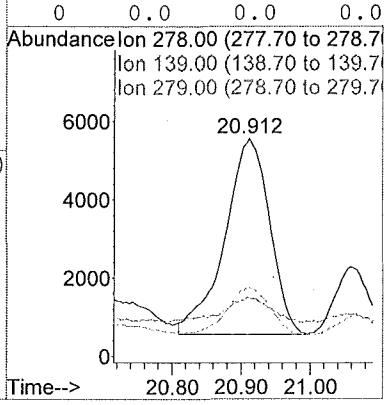


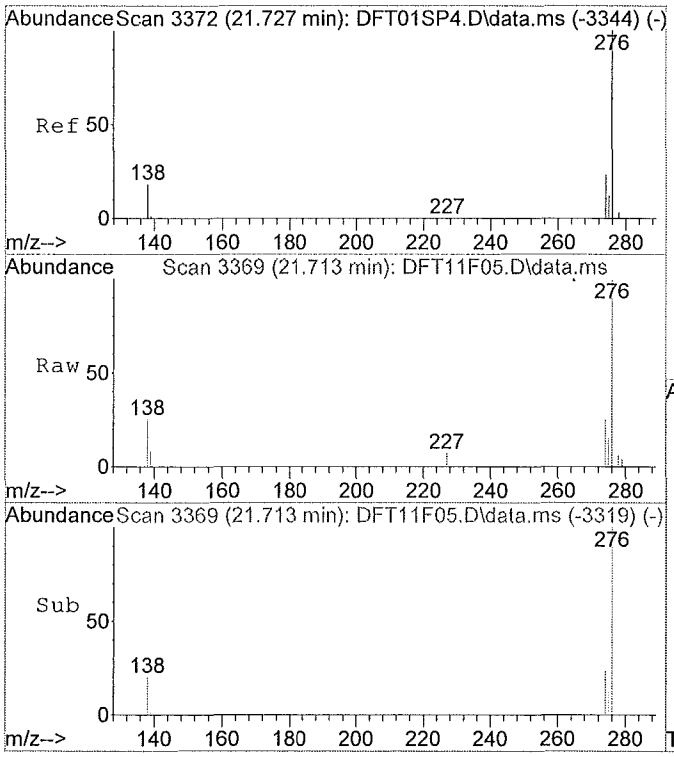


#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.91 min Scan# 3189
Delta R.T. -0.02 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:278 Resp: 22528

Ion	Ratio	Lower	Upper
278	100		
139	11.4	0.0	0.0#
279	23.3	15.8	29.3
0	0.0	0.0	0.0

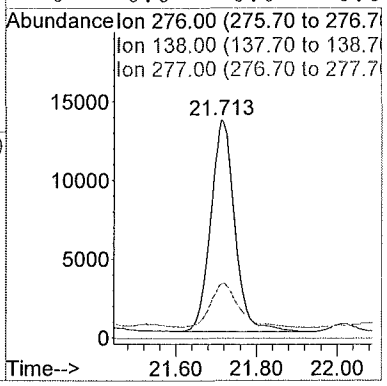




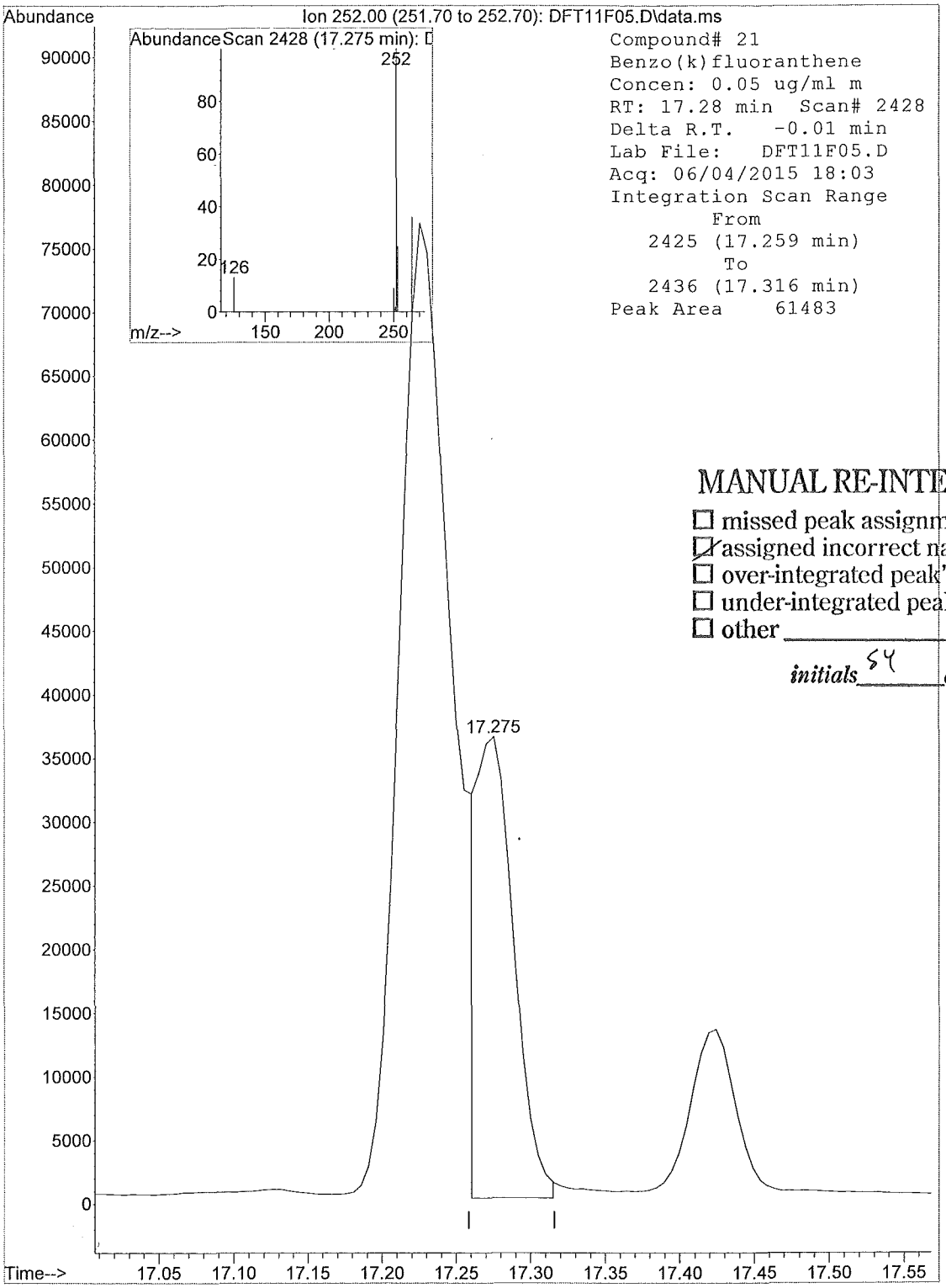
#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:276 Resp: 55662

Ion	Ratio	Lower	Upper
276	100		
138	22.2	16.2	30.0
277	0.0	16.5	30.7#
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* 6/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT12F01

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

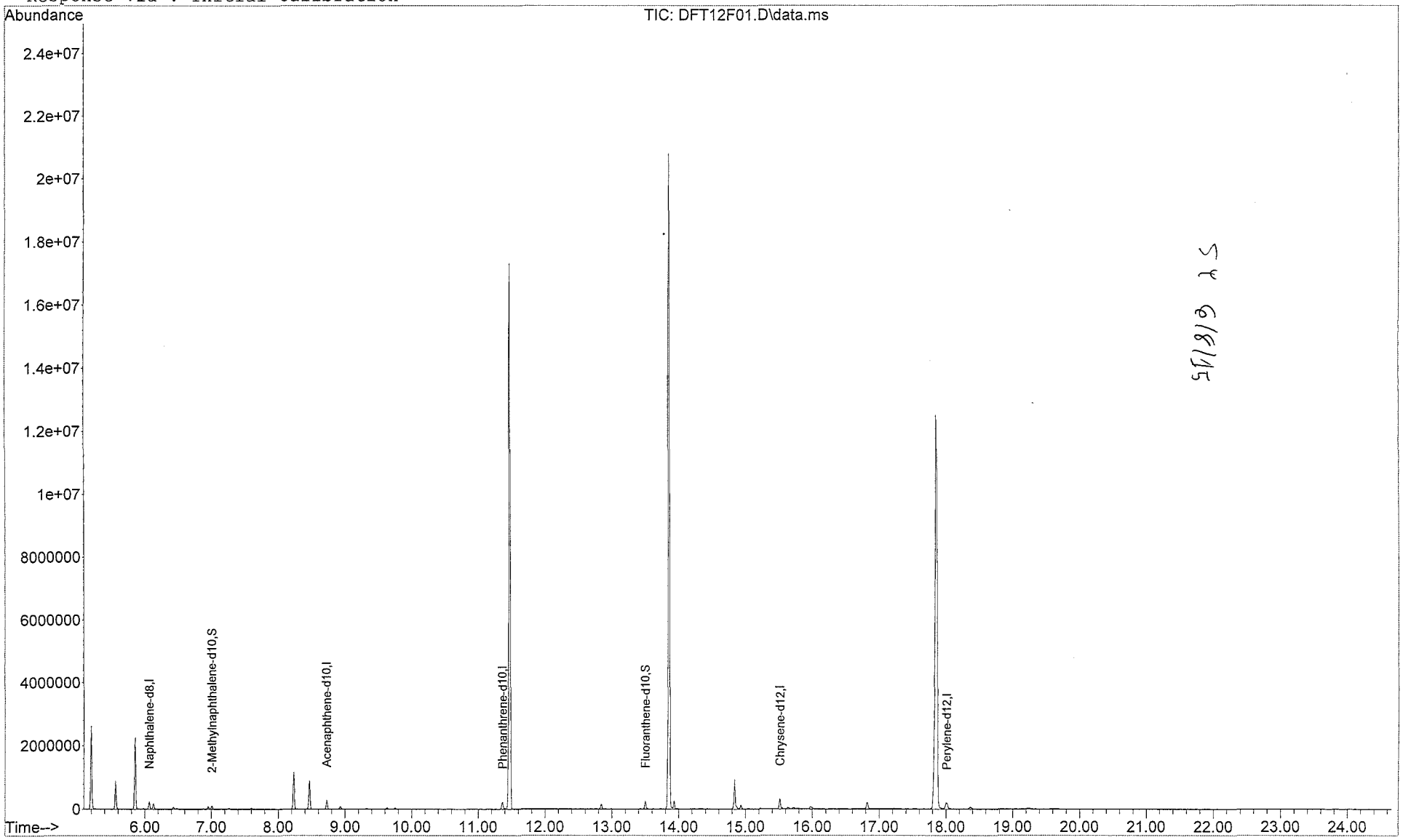
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	3.7	U
129-00-0	Pyrene	3.7	U
56-55-3	Benzo(a)anthracene	3.7	U
218-01-9	Chrysene	3.7	U
205-99-2	Benzo(b)fluoranthene	3.7	U
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT12F01.D Vial: 12
Acq On : 06/04/2015 18:33 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 08:29:44 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



5 of 8/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT12F01.D Vial: 12
Acq On : 06/04/2015 18:33 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 08:29:44 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	268186	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	187558	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	333313	0.40 ug/ml
15) Chrysene-d12	15.51	240	336698	0.40 ug/ml
19) Perylene-d12	18.01	264	373888	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	113913	0.263ug/mL
13) Fluoranthene-d10	13.50	212	280395	0.308ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

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

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT16F01

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 10.0

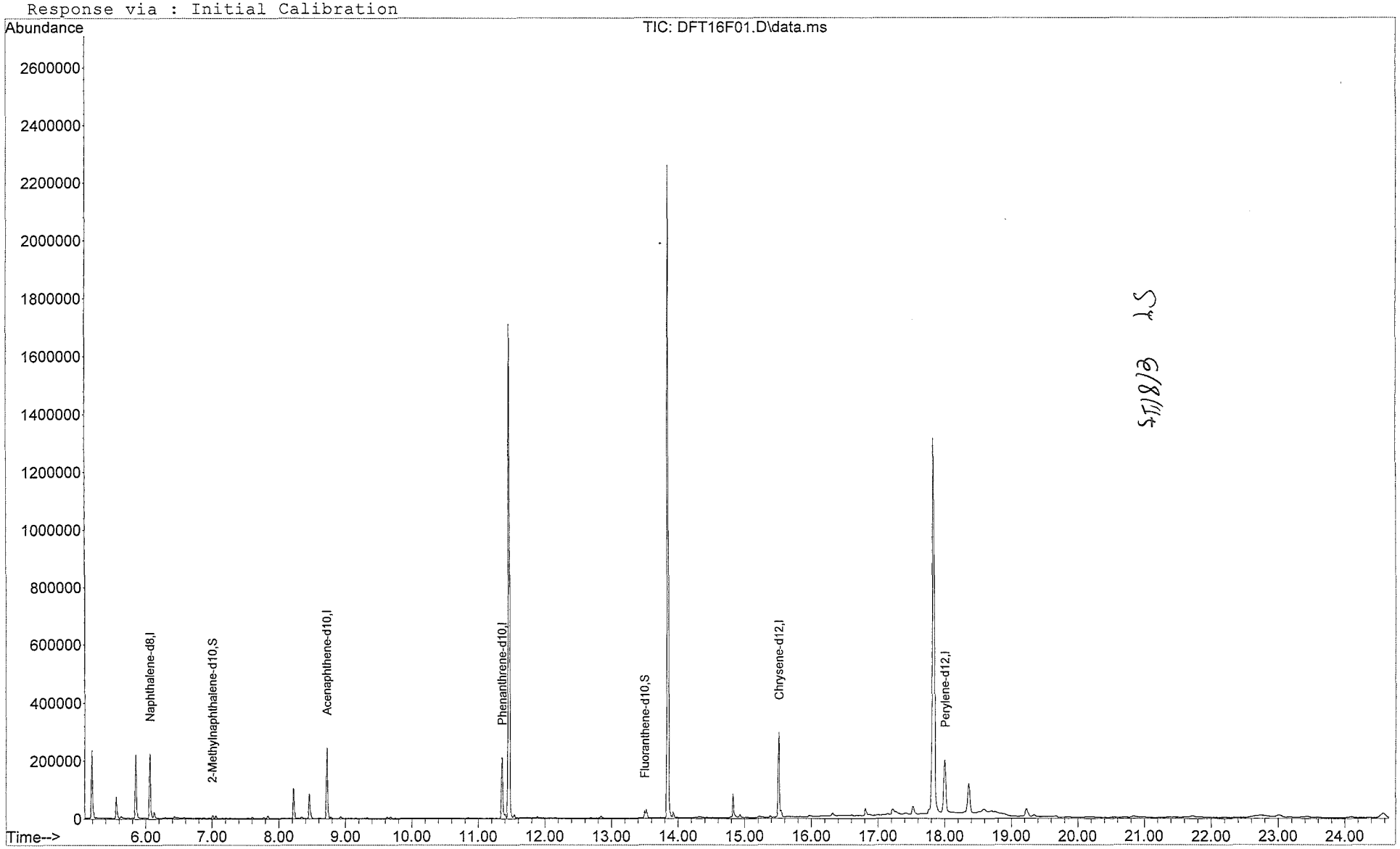
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	81.	U
85-01-8	Phenanthrene	40.	U
120-12-7	Anthracene	40.	U
206-44-0	Fluoranthene	9.3	J
129-00-0	Pyrene	9.8	J
56-55-3	Benzo(a)anthracene	40.	U
218-01-9	Chrysene	8.1	J
205-99-2	Benzo(b)fluoranthene	10.	J
207-08-9	Benzo(k)fluoranthene	40.	U
50-32-8	Benzo(a)pyrene	40.	U
193-39-5	Indeno(1,2,3-cd)pyrene	40.	U
53-70-3	Dibenzo(a,h)anthracene	40.	U
191-24-2	Benzo(g,h,i)perylene	40.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT16F01.D Vial: 14
Acq On : 06/04/2015 20:32 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:54:29 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



5ng/ml

Quantitation Report

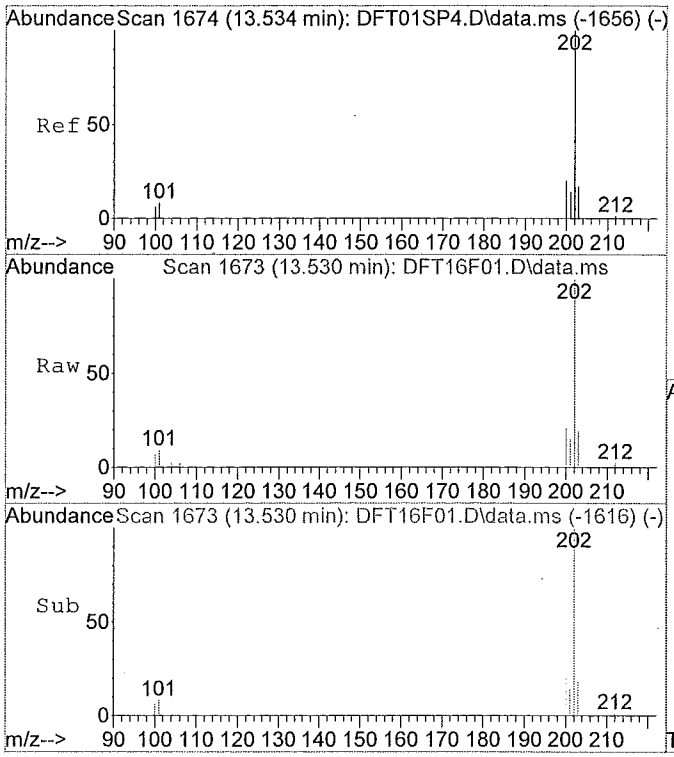
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT16F01.D Vial: 14
Acq On : 06/04/2015 20:32 Operator: DJC
Sample : 1513978001 F9KW7 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:54:29 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	254188	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	164673	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	301307	0.40 ug/ml
15) Chrysene-d12	15.51	240	330439	0.40 ug/ml
19) Perylene-d12	18.01	264	341826	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	12070	0.029ug/mL
13) Fluoranthene-d10	13.50	212	26716	0.032ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	22793	0.023ug/ml	93
16) Pyrene	13.87	202	25209	0.024ug/ml	1
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.55	228	18826	0.020ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	26713	0.025ug/ml	96
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	

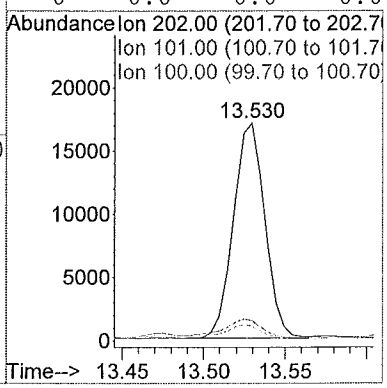
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

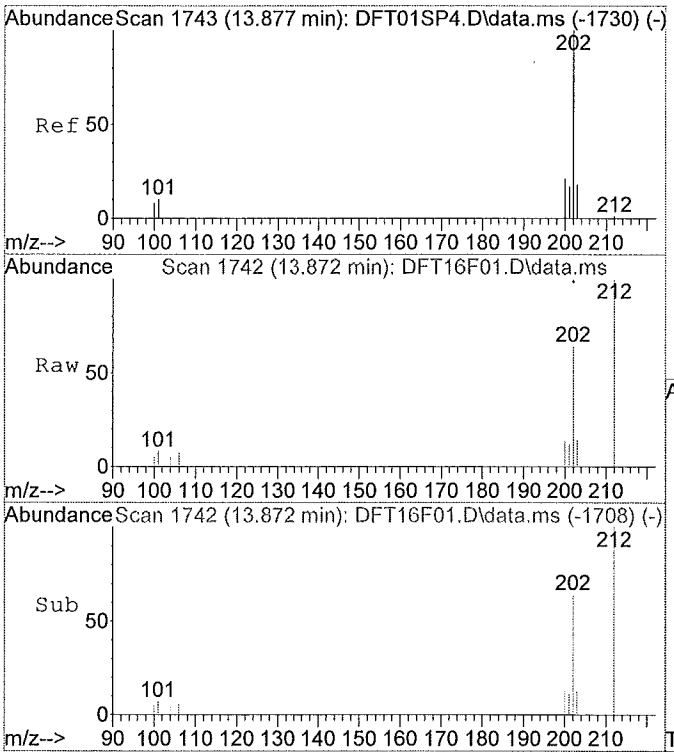


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT16F01.D
Acq: 06/04/2015 20:32

Tgt Ion:202 Resp: 22793

Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.4	17.6
100	8.6	0.0	0.0#
0	0.0	0.0	0.0

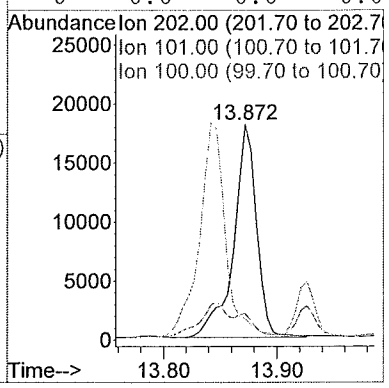


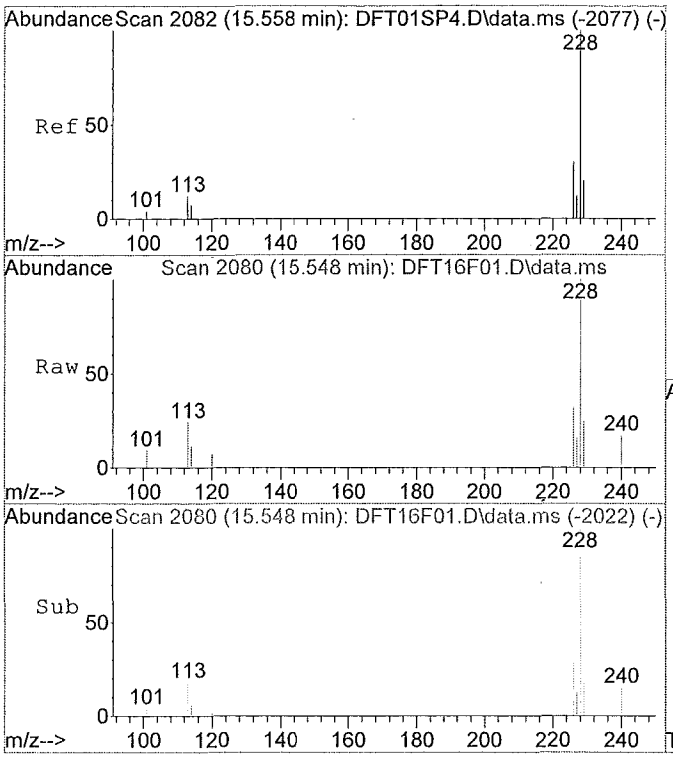


#16
Pyrene
Concen: 0.02 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT16F01.D
Acq: 06/04/2015 20:32

Tgt Ion:202 Resp: 25209

Ion	Ratio	Lower	Upper
202	100		
101	20.7	10.6	19.6#
100	117.7	9.4	17.4#
0	0.0	0.0	0.0

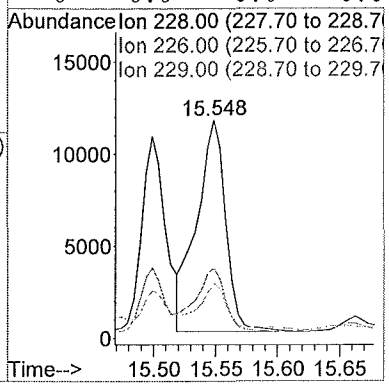


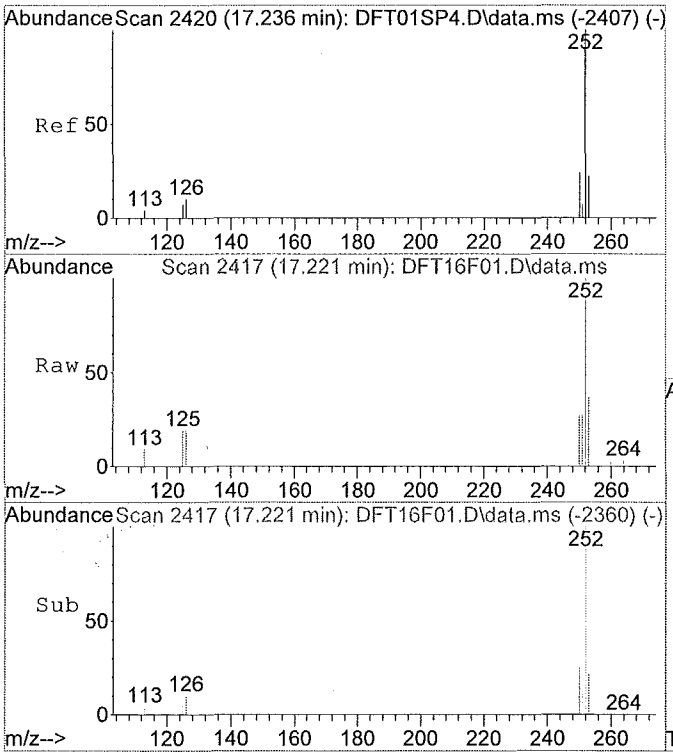


#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT16F01.D
Acq: 06/04/2015 20:32

Tgt Ion:228 Resp: 18826

Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	18.0	14.5	26.9
0	0.0	0.0	0.0

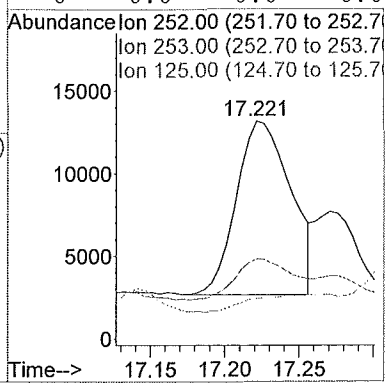




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT16F01.D
Acq: 06/04/2015 20:32

Tgt Ion:252 Resp: 26713

Ion	Ratio	Lower	Upper
252	100		
253	23.7	15.3	28.3
125	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.

F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT04F02

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

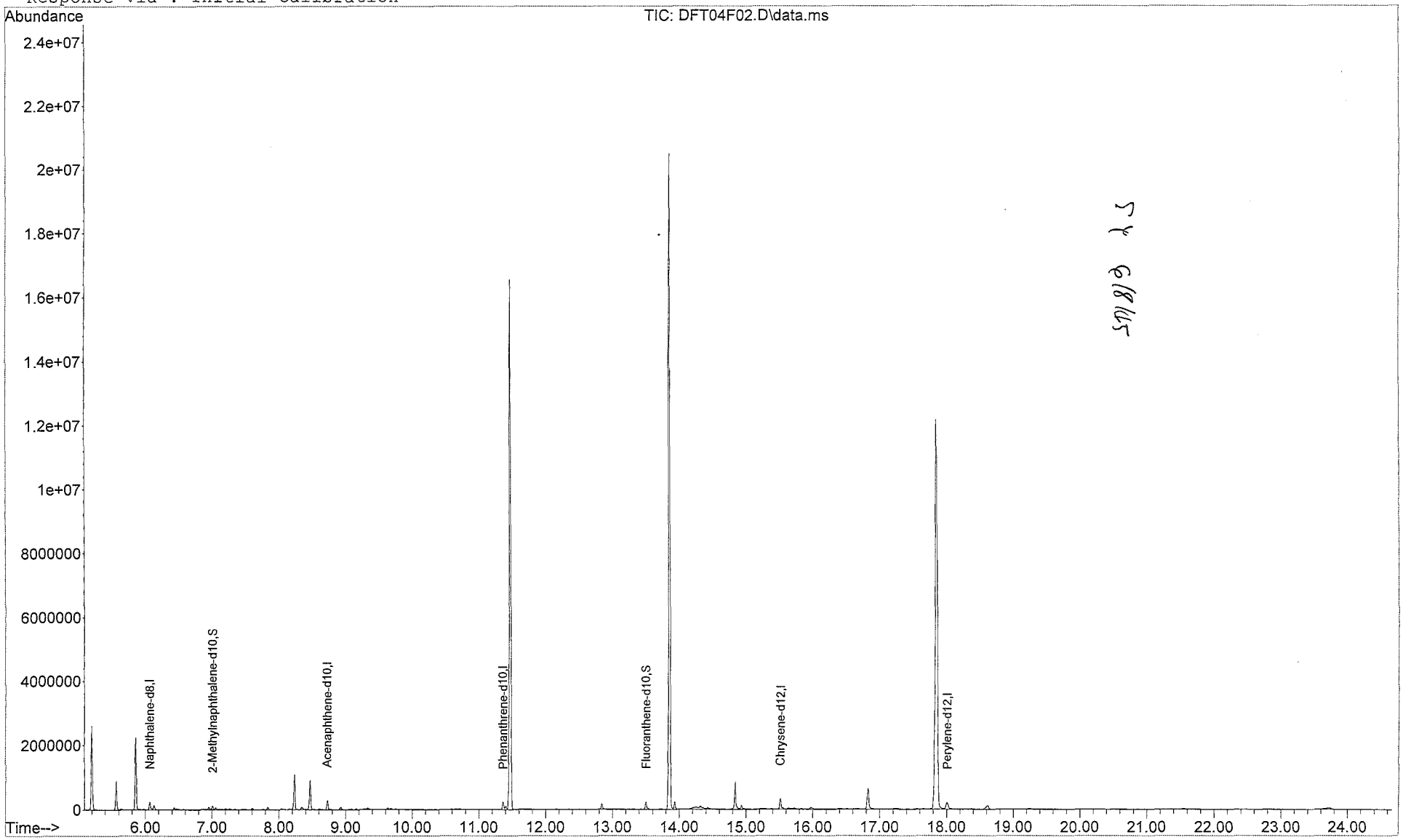
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.5	J
91-57-6	2-Methylnaphthalene	2.3	J
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	1.1	J
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	3.6	J
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	1.1	J
129-00-0	Pyrene	1.3	J
56-55-3	Benzo(a)anthracene	0.80	J
218-01-9	Chrysene	1.2	J
205-99-2	Benzo(b)fluoranthene	1.2	J
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT04F02.D Vial: 4
Acq On : 06/04/2015 14:32 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 04 14:56:51 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 6/18/15

Quantitation Report

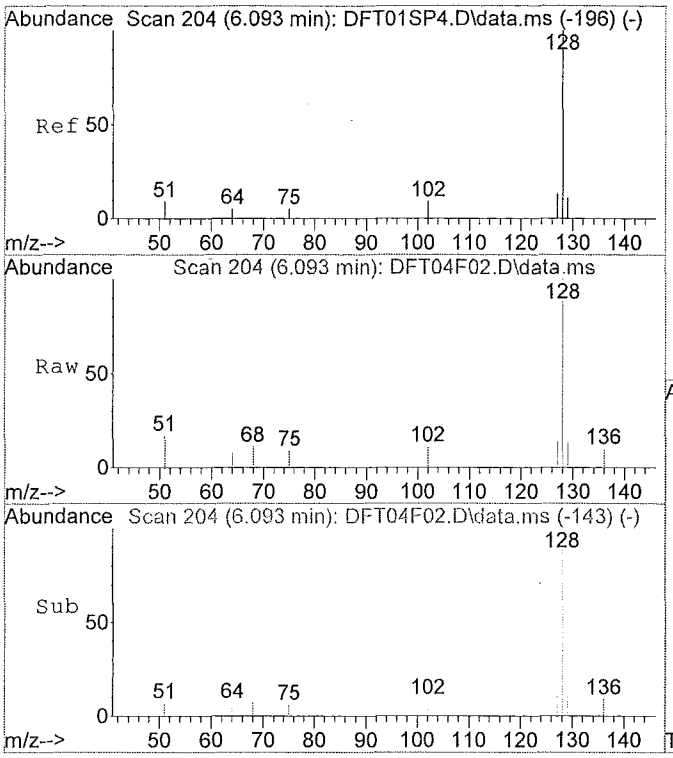
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT04F02.D Vial: 4
Acq On : 06/04/2015 14:32 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 04 14:56:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	272156	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	196633	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	347594	0.40 ug/ml
15) Chrysene-d12	15.51	240	358065	0.40 ug/ml
19) Perylene-d12	18.01	264	386722	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	119297	0.272ug/mL
13) Fluoranthene-d10	13.50	212	258955	0.272ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	27706	0.039ug/ml	94
4) 2-Methylnaphthalene	7.05	142	28126	0.062ug/ml	98
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.68	166	18396	0.029ug/ml	94
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	95437	0.095ug/ml	98
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	32240	0.028ug/ml	97
16) Pyrene	13.88	202	38552	0.034ug/ml	65
17) Benzo(a)anthracene	15.50	228	20540	0.022ug/ml	91
18) Chrysene	15.55	228	31853	0.032ug/ml	93
20) Benzo(b)fluoranthene	17.22	252	40195	0.033ug/ml	96
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	

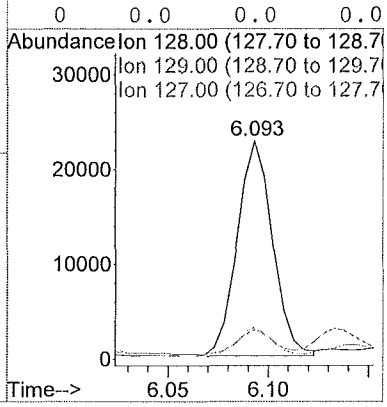
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

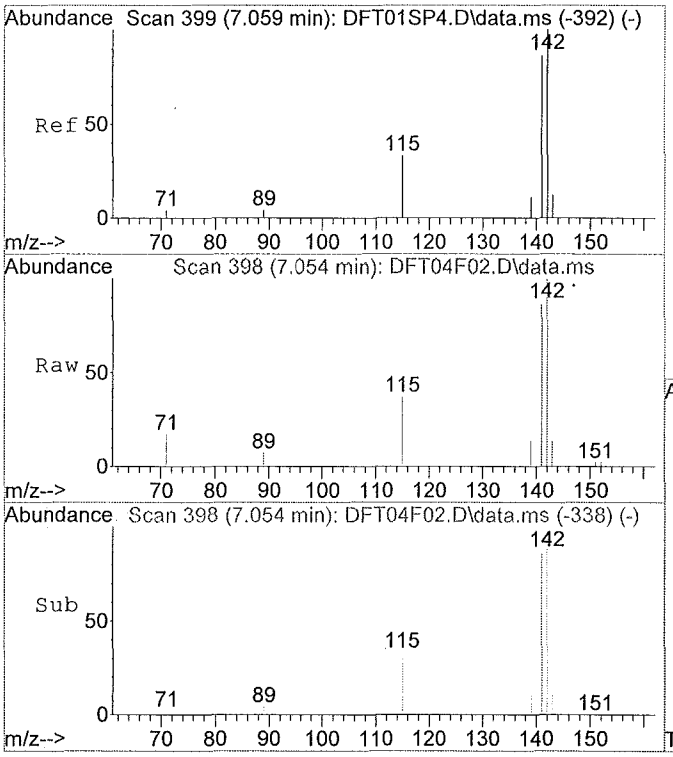


#2
Naphthalene
Concen: 0.04 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:128 Resp: 27706

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	0.0#
127	13.3	11.1	20.5
0	0.0	0.0	0.0

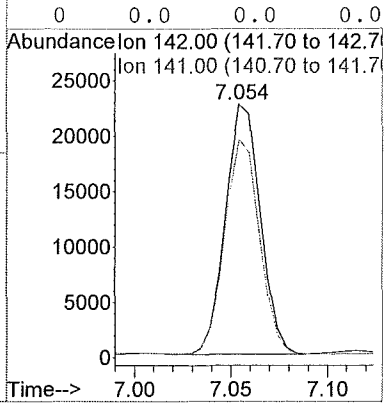


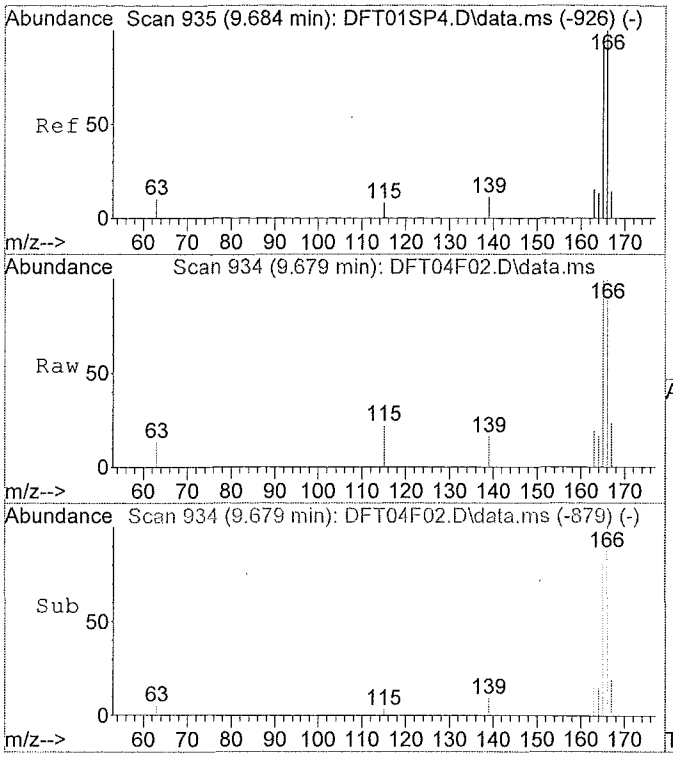


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:142 Resp: 28126

Ion	Ratio	Lower	Upper
142	100		
141	85.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

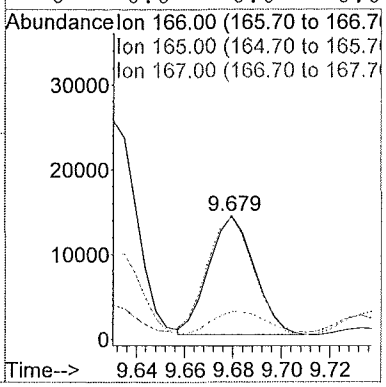


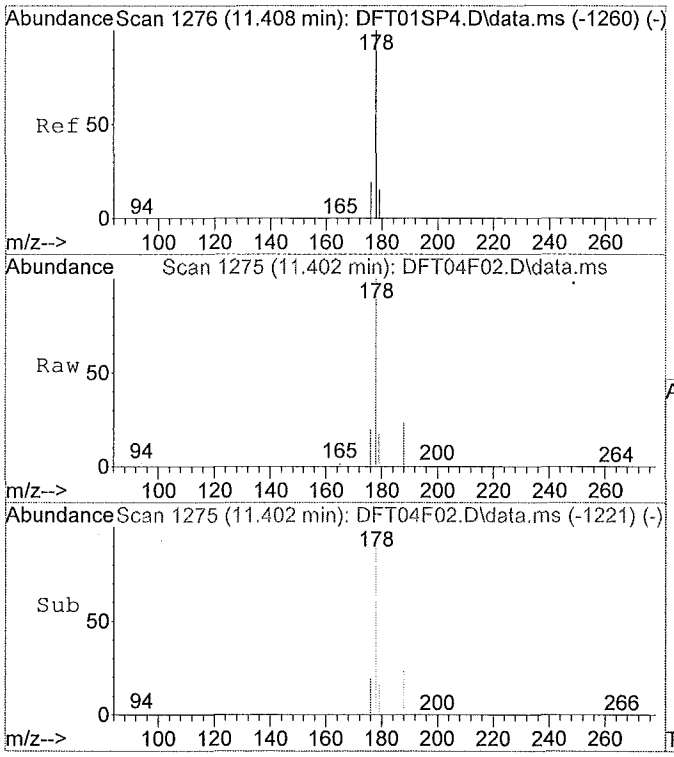


#8
Fluorene
Concen: 0.03 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:166 Resp: 18396

Ion	Ratio	Lower	Upper
166	100		
165	100.2	66.3	123.1
167	23.4	0.0	0.0#
0	0.0	0.0	0.0

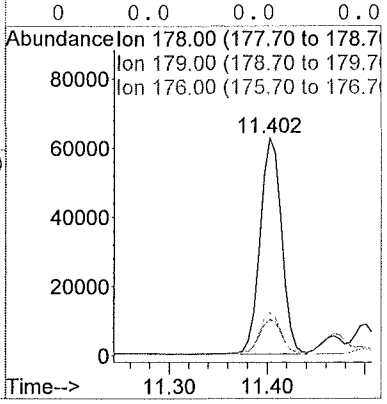


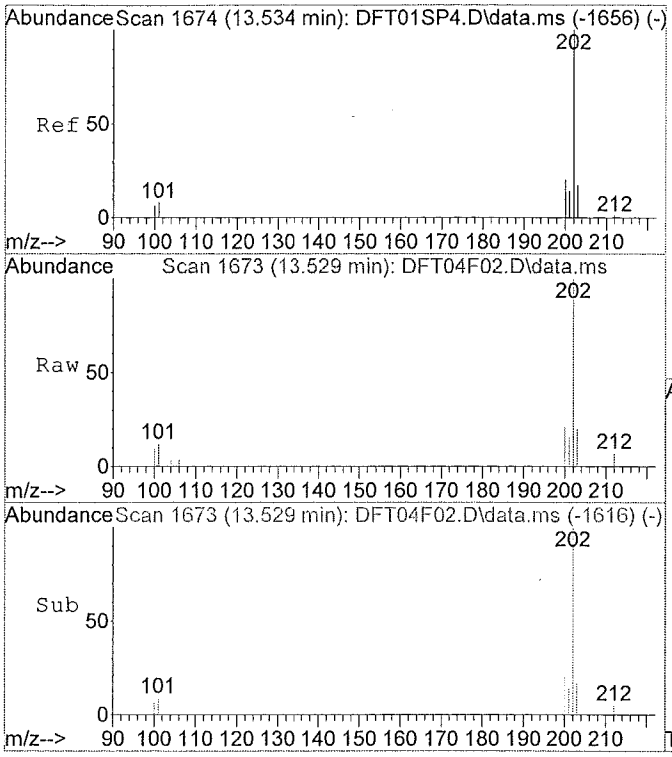


#11
Phenanthrene
Concen: 0.10 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:178 Resp: 95437

Ion	Ratio	Lower	Upper
178	100		
179	16.9	11.1	20.5
176	19.7	14.1	26.1
0	0.0	0.0	0.0

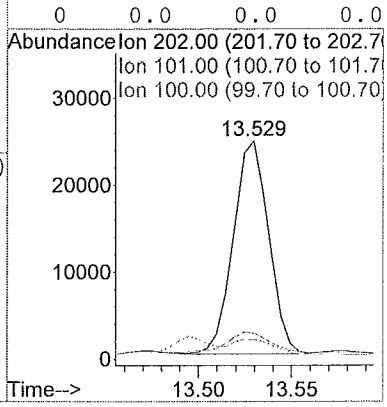


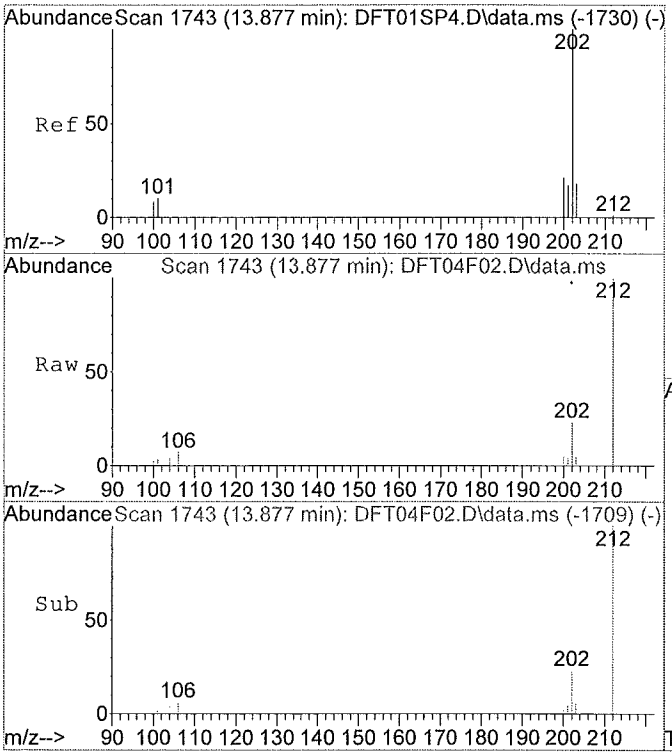


#14
Fluoranthene
Concen: 0.03 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:202 Resp: 32240

Ion	Ratio	Lower	Upper
202	100		
101	14.6	9.4	17.6
100	8.9	0.0	0.0#
0	0.0	0.0	0.0

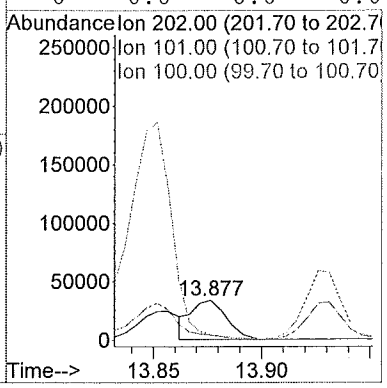


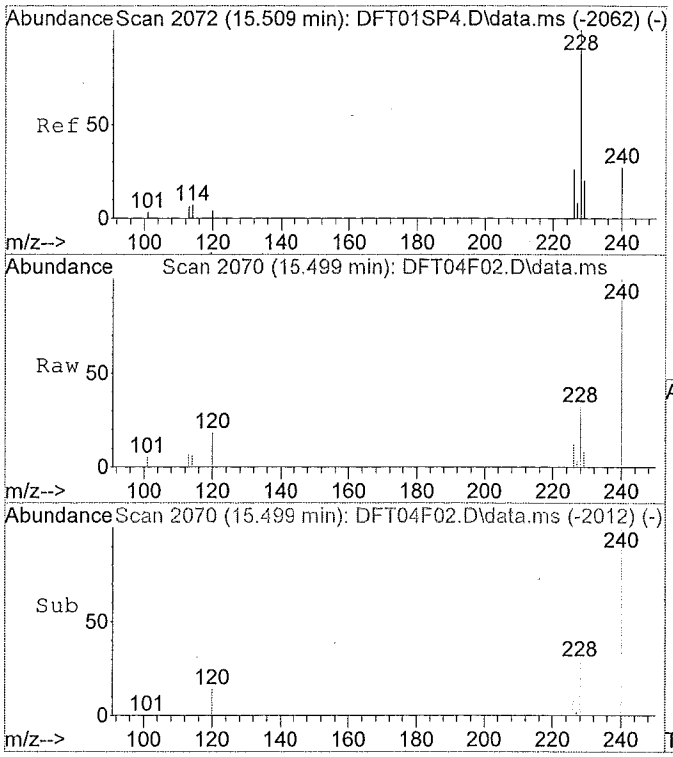


#16
Pyrene
Concen: 0.03 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:202 Resp: 38552

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

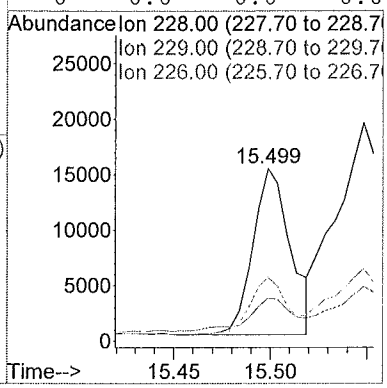


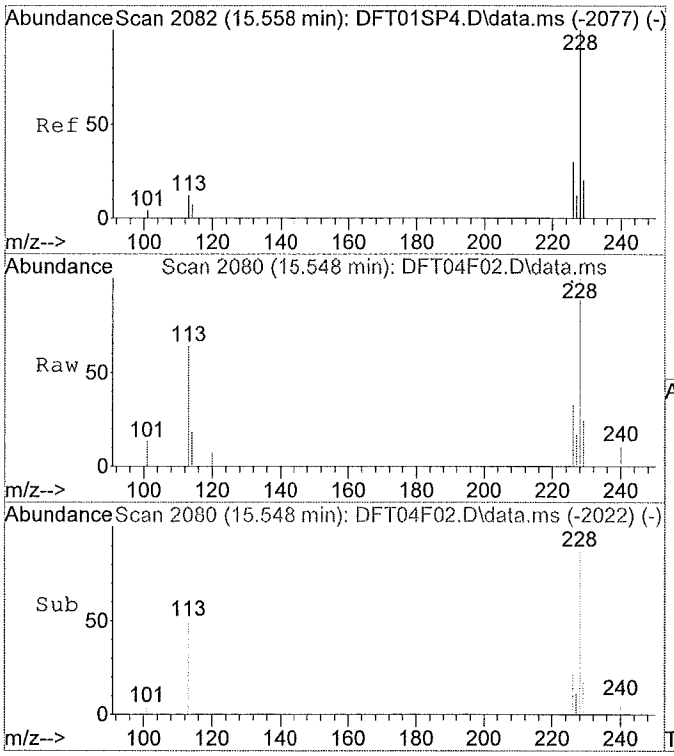


#17
Benzo(a)anthracene
Concen: 0.02 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:228 Resp: 20540

Ion	Ratio	Lower	Upper
228	100		
229	24.0	14.5	26.9
226	32.0	18.5	34.3
0	0.0	0.0	0.0

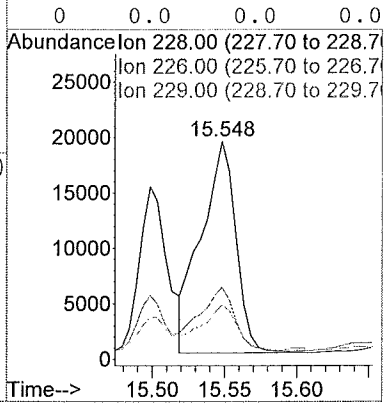


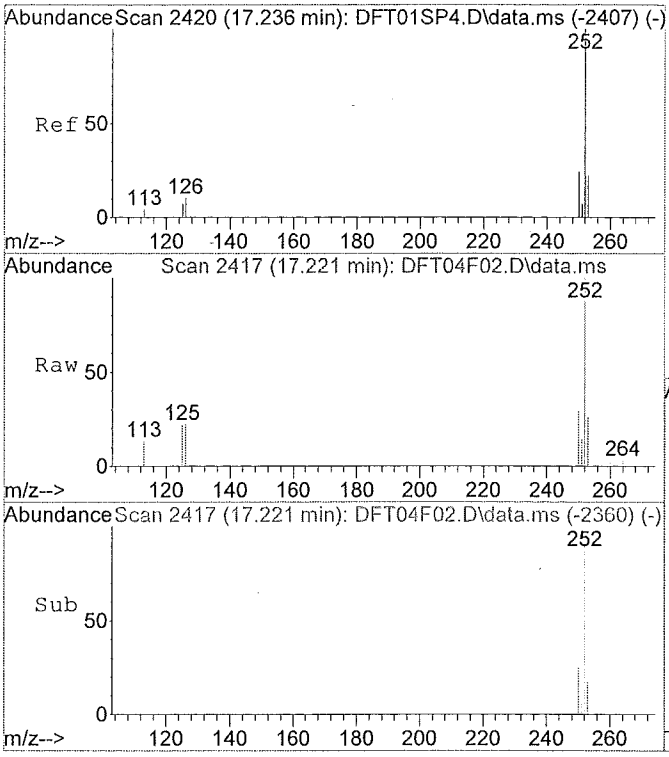


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:228 Resp: 31853

Ion	Ratio	Lower	Upper
228	100		
226	32.6	19.7	36.7
229	23.6	14.5	26.9
0	0.0	0.0	0.0

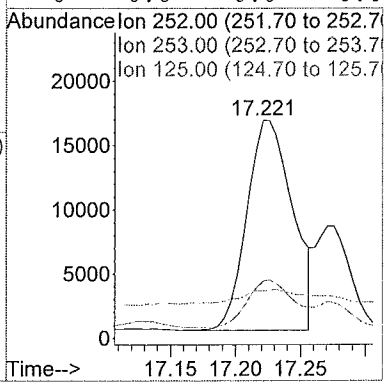




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:252 Resp: 40195

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.3	28.3
125	8.4	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.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT05F03

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

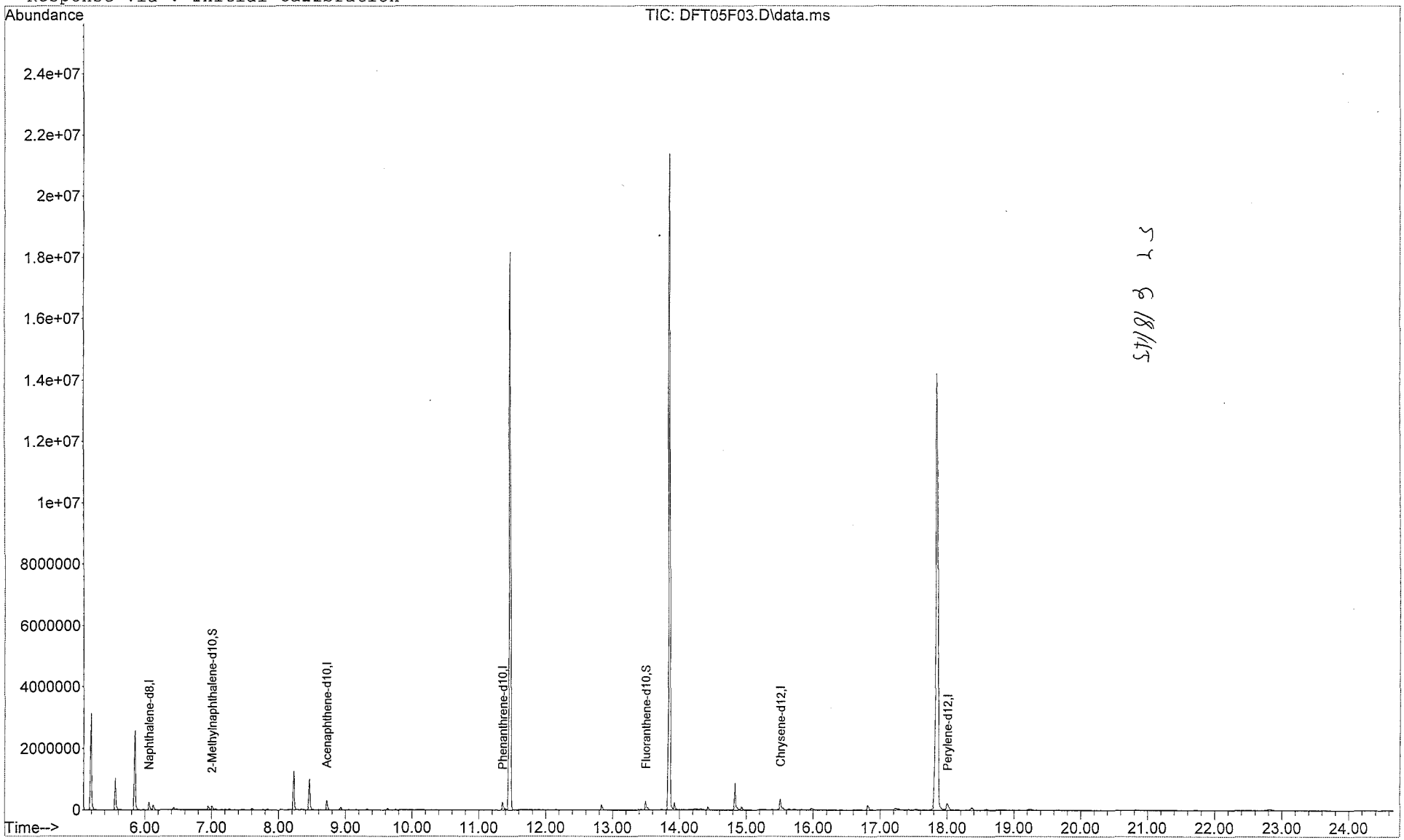
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.4	J
91-57-6	2-Methylnaphthalene	1.5	J
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.9	U
85-01-8	Phenanthrene	1.1	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	1.5	J
129-00-0	Pyrene	1.7	J
56-55-3	Benzo(a)anthracene	1.5	J
218-01-9	Chrysene	1.8	J
205-99-2	Benzo(b)fluoranthene	2.3	J
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	3.9	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT05F03.D Vial: 5
Acq On : 06/04/2015 15:02 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:54:09 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

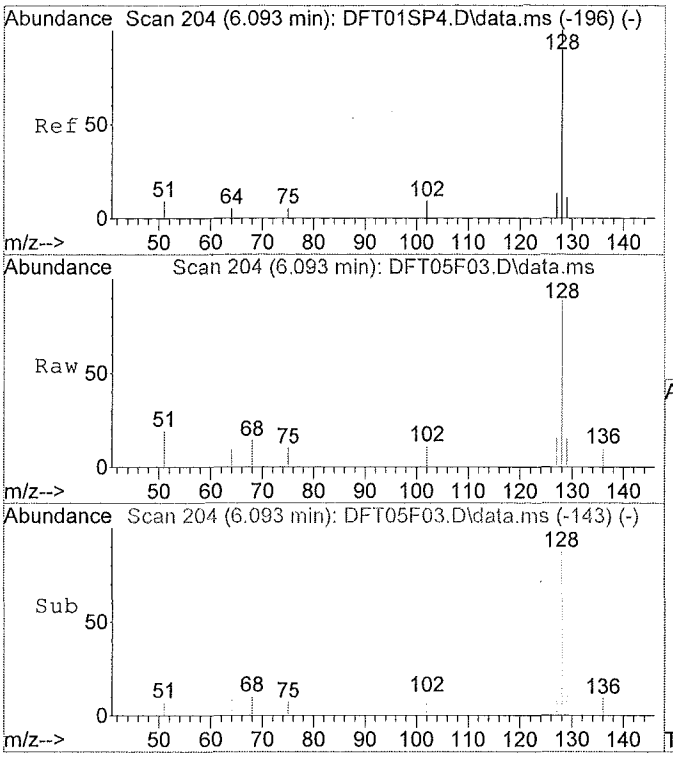
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT05F03.D Vial: 5
Acq On : 06/04/2015 15:02 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:54:09 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	280982	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	204668	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	368788	0.40 ug/ml
15) Chrysene-d12	15.51	240	374088	0.40 ug/ml
19) Perylene-d12	18.01	264	407092	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	137987	0.304ug/mL
13) Fluoranthene-d10	13.50	212	300229	0.298ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	25291	0.035ug/ml	94
4) 2-Methylnaphthalene	7.05	142	17503	0.037ug/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	11.40	178	30145	0.028ug/ml	97
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	47052	0.039ug/ml	92
16) Pyrene	13.88	202	49144	0.042ug/ml	65
17) Benzo(a)anthracene	15.50	228	37248	0.037ug/ml	89
18) Chrysene	15.55	228	48101	0.046ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	74665	0.059ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.89	252	38632	0.032ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	35542	0.033ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

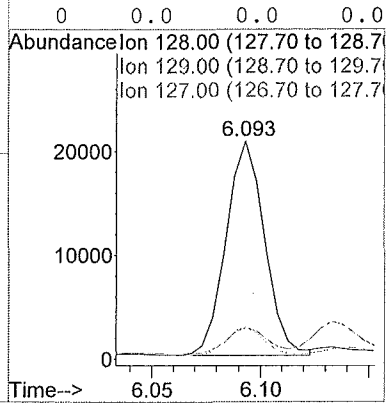
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

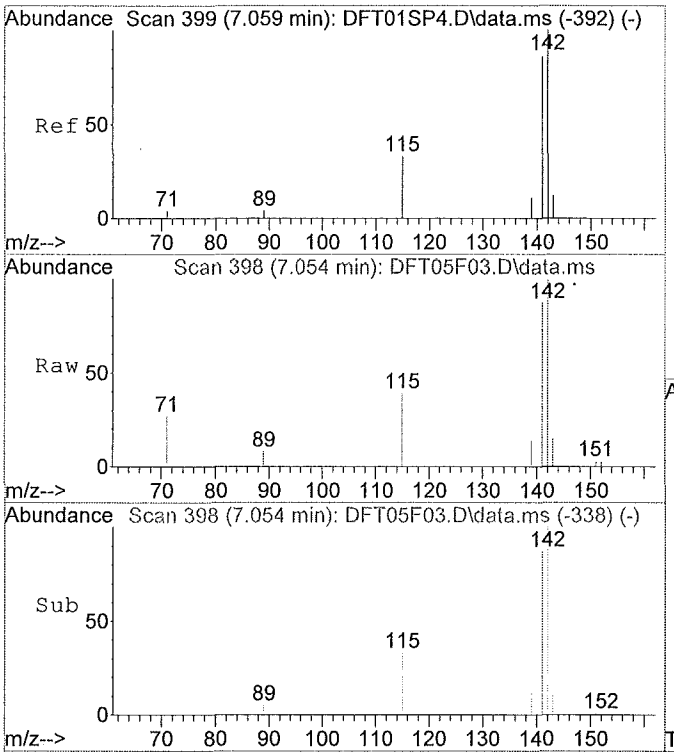


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:128 Resp: 25291

Ion	Ratio	Lower	Upper
128	100		
129	12.9	0.0	0.0#
127	13.3	11.1	20.5
0	0.0	0.0	0.0

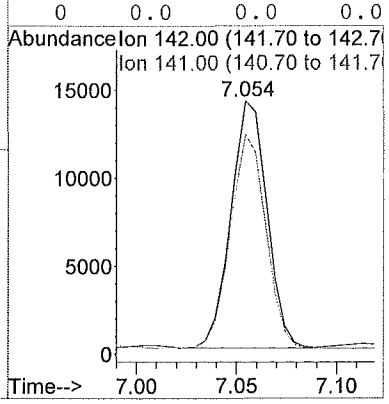


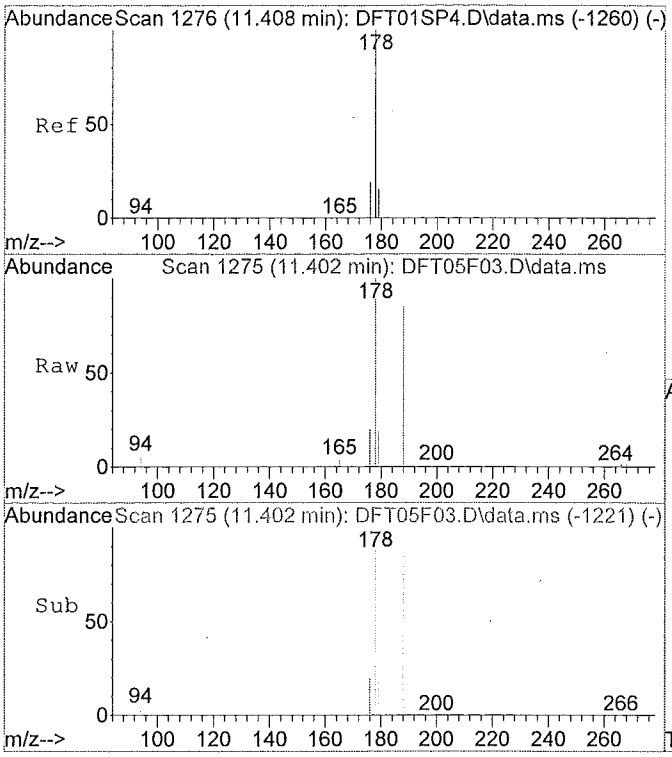


#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:142 Resp: 17503

Ion	Ratio	Lower	Upper
142	100		
141	85.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

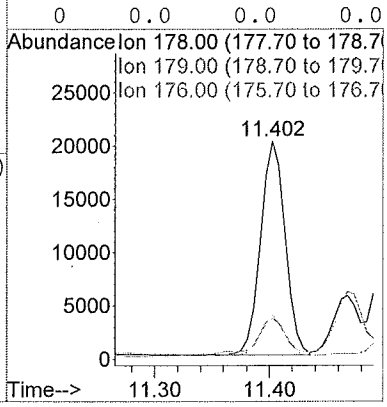


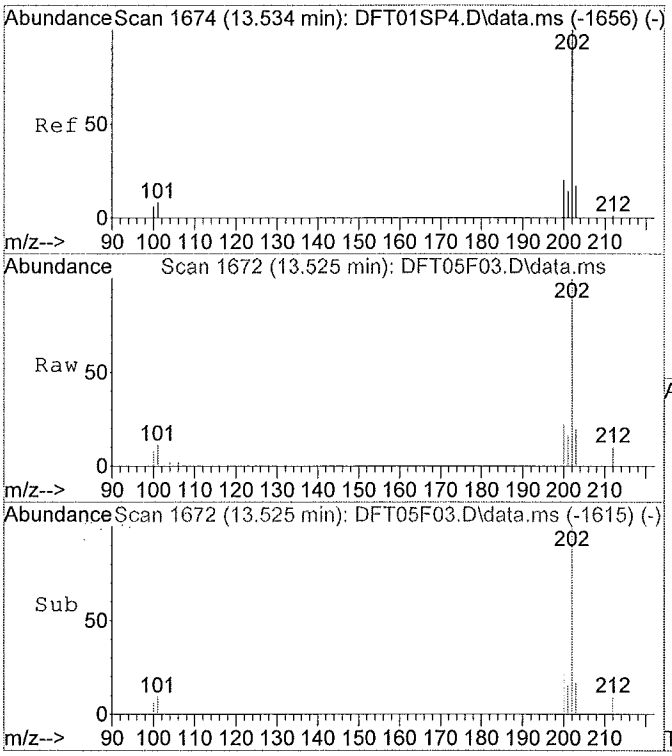


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:178 Resp: 30145

Ion	Ratio	Lower	Upper
178	100		
179	19.0	11.1	20.5
176	19.9	14.1	26.1
0	0.0	0.0	0.0

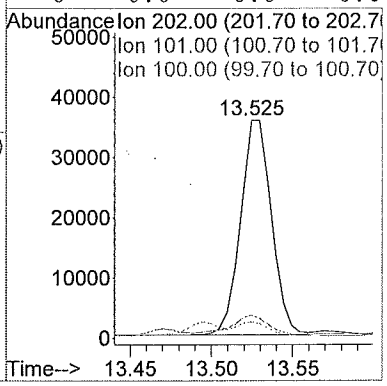


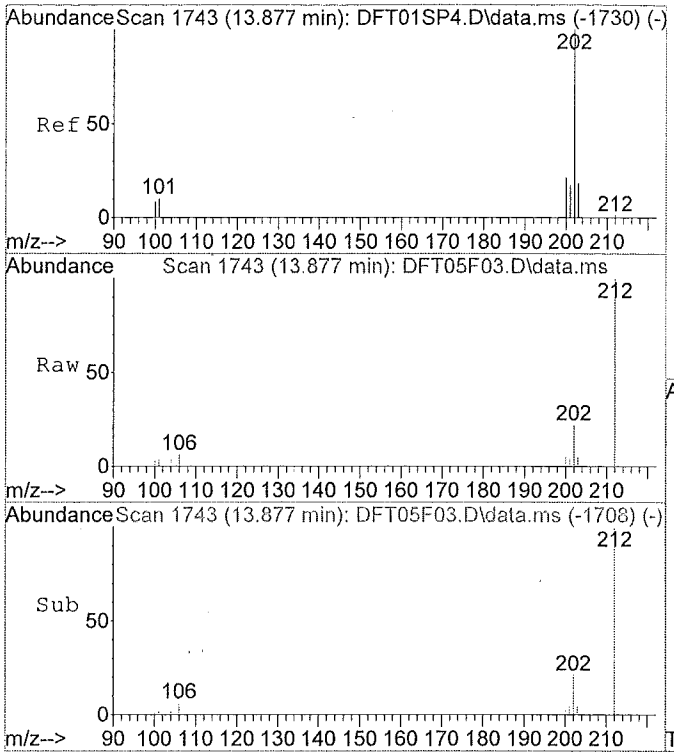


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:202 Resp: 47052

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	17.6
100	6.9	0.0	0.0#
0	0.0	0.0	0.0

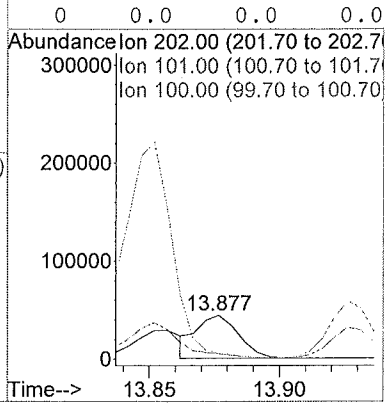


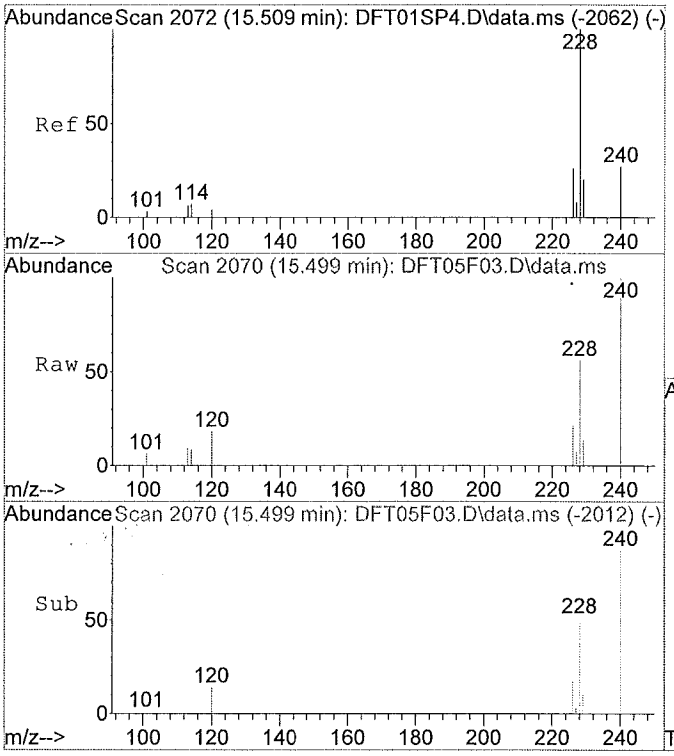


#16
Pyrene
Concen: 0.04 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:202 Resp: 49144

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

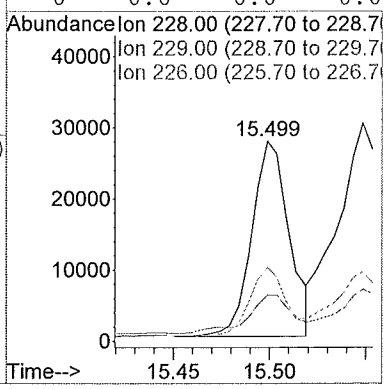


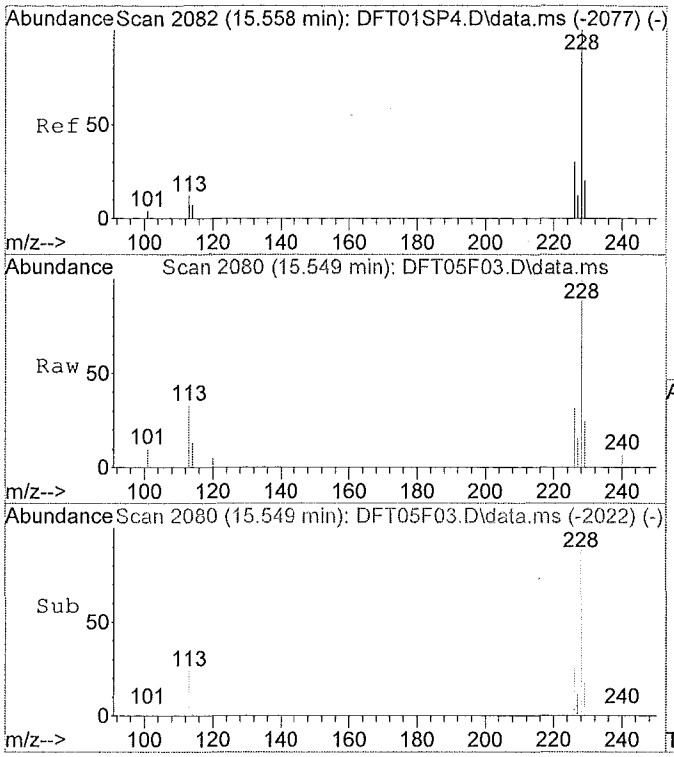


#17
Benzo(a)anthracene
Concen: 0.04 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:228 Resp: 37248

Ion	Ratio	Lower	Upper
228	100		
229	22.8	14.5	26.9
226	34.8	18.5	34.3#
0	0.0	0.0	0.0

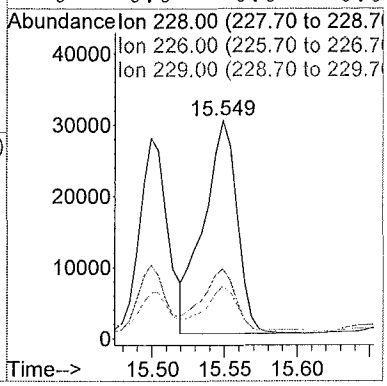


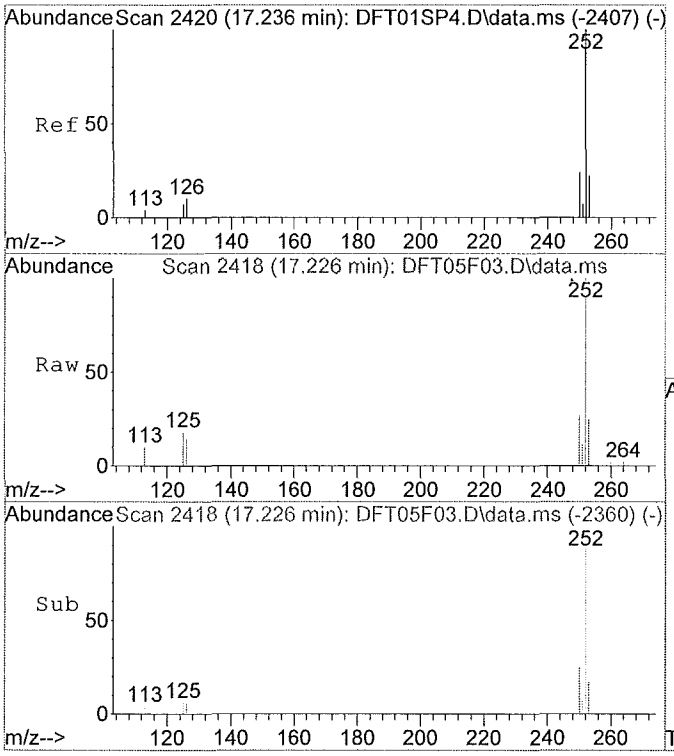


#18
Chrysene
Concen: 0.05 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:228 Resp: 48101

Ion	Ratio	Lower	Upper
228	100		
226	30.3	19.7	36.7
229	19.6	14.5	26.9
0	0.0	0.0	0.0

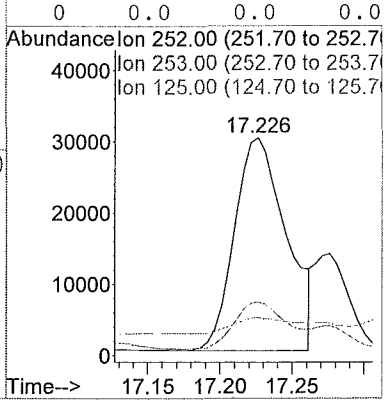


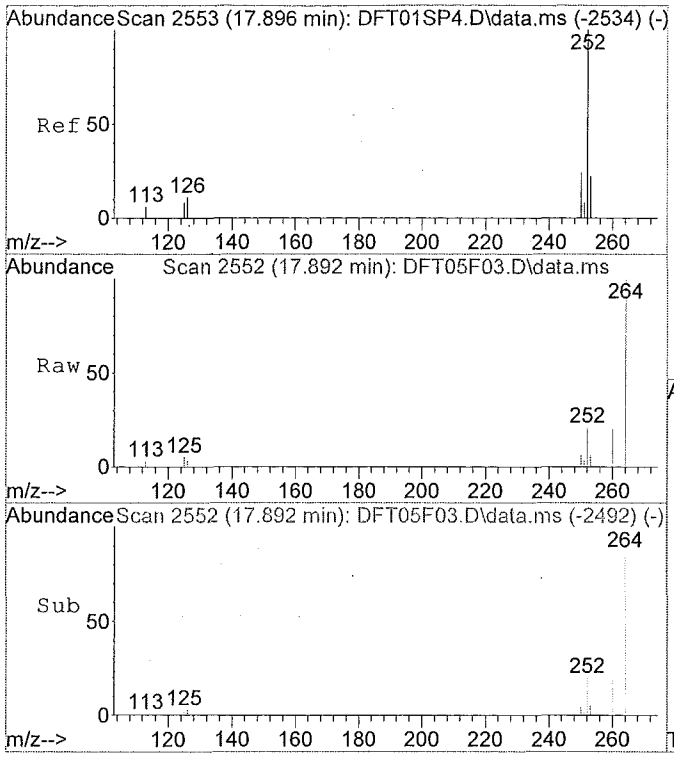


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:252 Resp: 74665

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

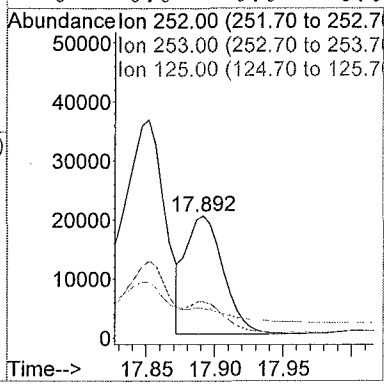


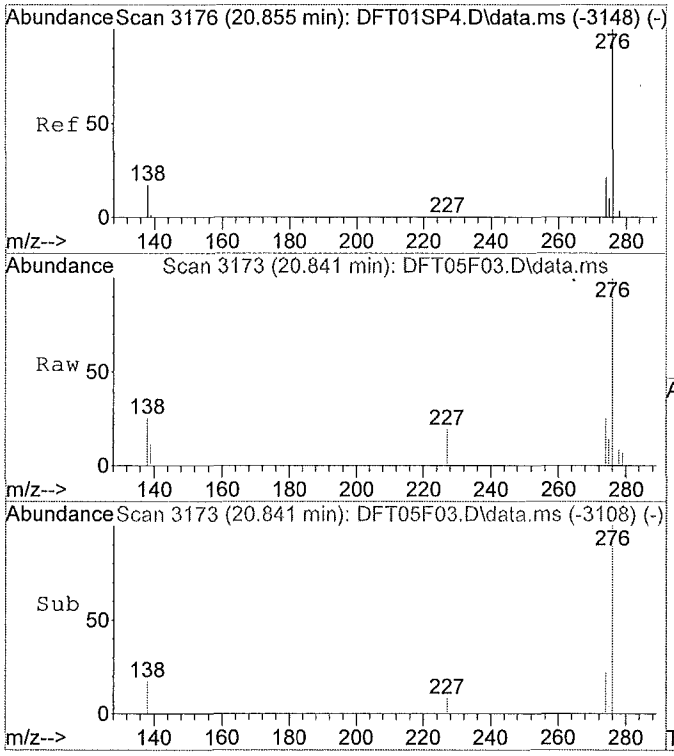


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:252 Resp: 38632

Ion	Ratio	Lower	Upper
252	100		
253	24.4	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

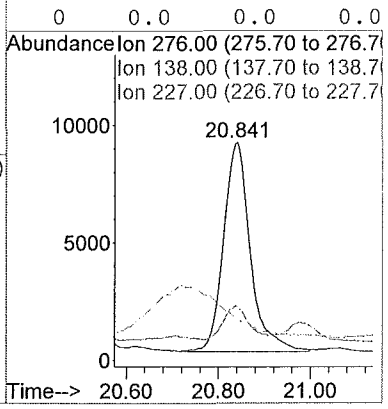




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.03 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:276 Resp: 35542

Ion	Ratio	Lower	Upper
276	100		
138	14.3	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.

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT17F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 10.0

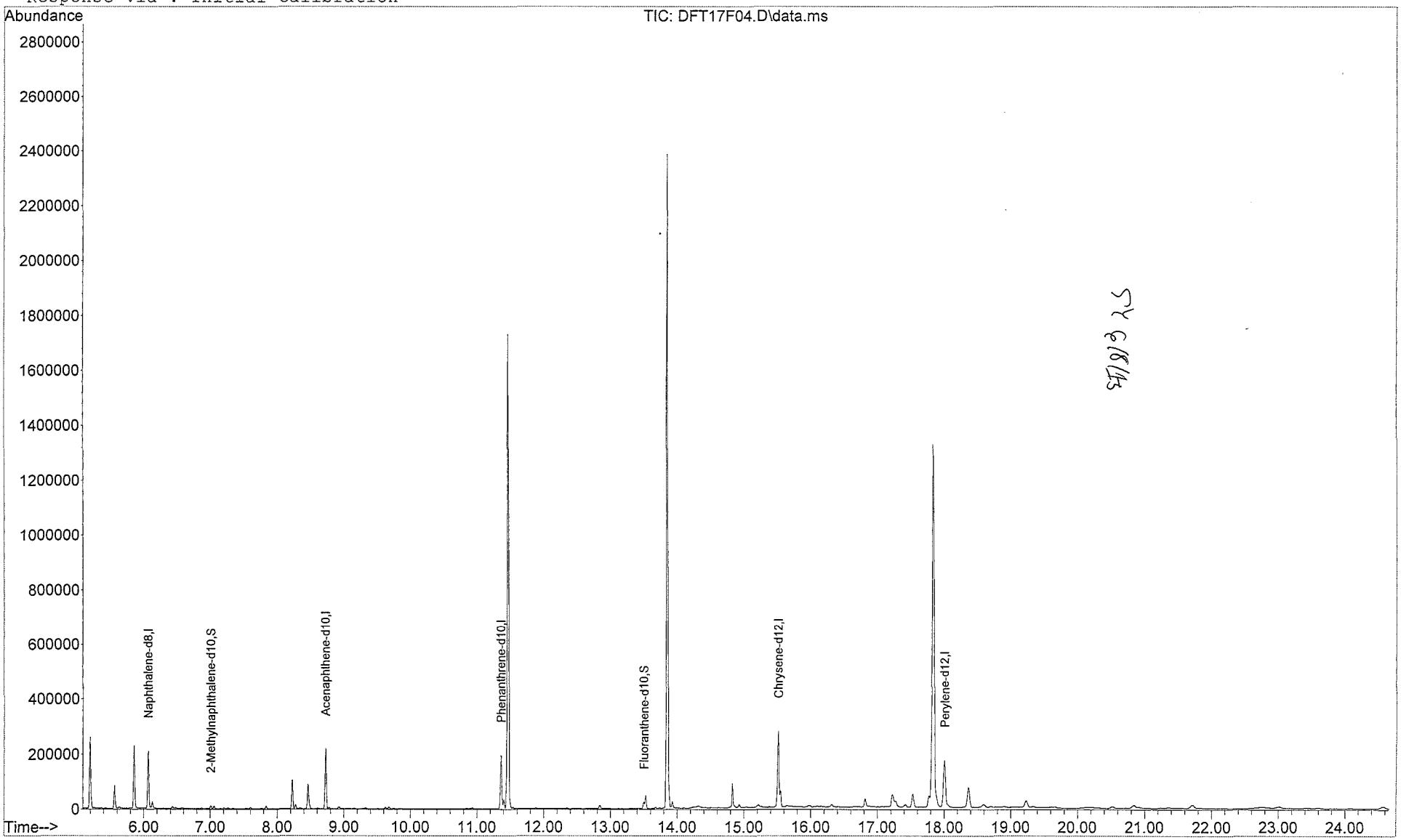
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	39.	U
91-57-6	2-Methylnaphthalene	39.	U
208-96-8	Acenaphthylene	39.	U
83-32-9	Acenaphthene	39.	U
86-73-7	Fluorene	39.	U
87-86-5	Pentachlorophenol	79.	U
85-01-8	Phenanthrene	16.	J
120-12-7	Anthracene	39.	U
206-44-0	Fluoranthene	17.	J
129-00-0	Pyrene	26.	J
56-55-3	Benzo(a)anthracene	17.	J
218-01-9	Chrysene	23.	J
205-99-2	Benzo(b)fluoranthene	24.	J
207-08-9	Benzo(k)fluoranthene	39.	U
50-32-8	Benzo(a)pyrene	15.	J
193-39-5	Indeno(1,2,3-cd)pyrene	14.	J
53-70-3	Dibenzo(a,h)anthracene	39.	U
191-24-2	Benzo(g,h,i)perylene	13.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT17F04.D Vial: 15
Acq On : 06/04/2015 21:01 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:54:56 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 6/8/15

Quantitation Report

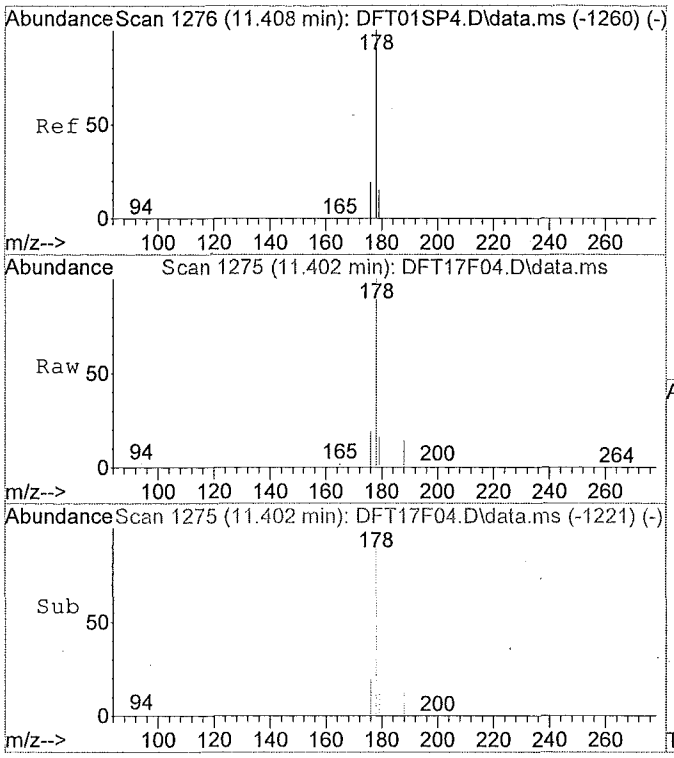
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT17F04.D Vial: 15
Acq On : 06/04/2015 21:01 Operator: DJC
Sample : 1513978004 F9KX0 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:54:56 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	231766	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	150362	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	271222	0.40 ug/ml
15) Chrysene-d12	15.51	240	299038	0.40 ug/ml
19) Perylene-d12	18.01	264	306513	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	12675	0.034ug/mL
13) Fluoranthene-d10	13.50	212	26804	0.036ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	31232	0.040ug/ml	98
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	37648	0.042ug/ml	91
16) Pyrene	13.87	202	61536	0.066ug/ml	77
17) Benzo(a)anthracene	15.50	228	33717	0.042ug/ml	86
18) Chrysene	15.55	228	48866	0.058ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	58351	0.061ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	35348	0.039ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.84	276	28548	0.036ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	29034	0.032ug/ml	75

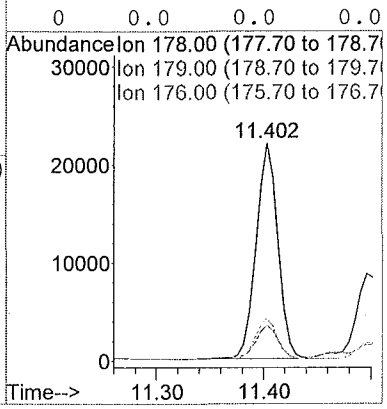
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

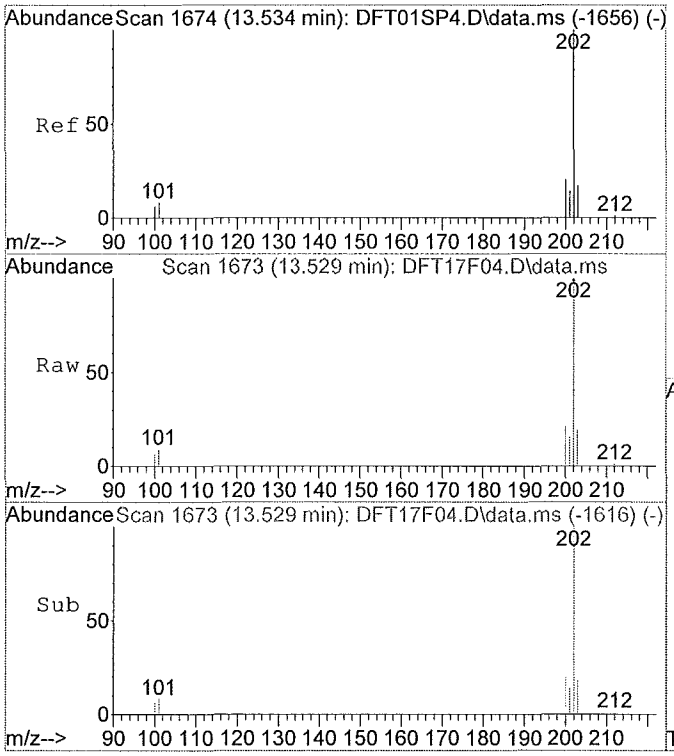


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:178 Resp: 31232

Ion	Ratio	Lower	Upper
178	100		
179	16.6	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

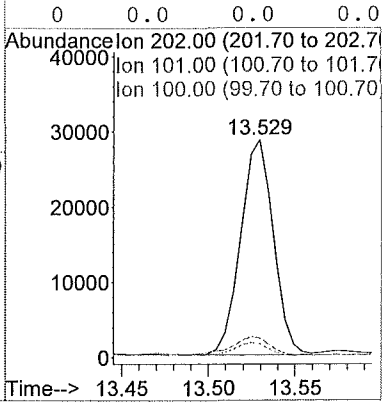


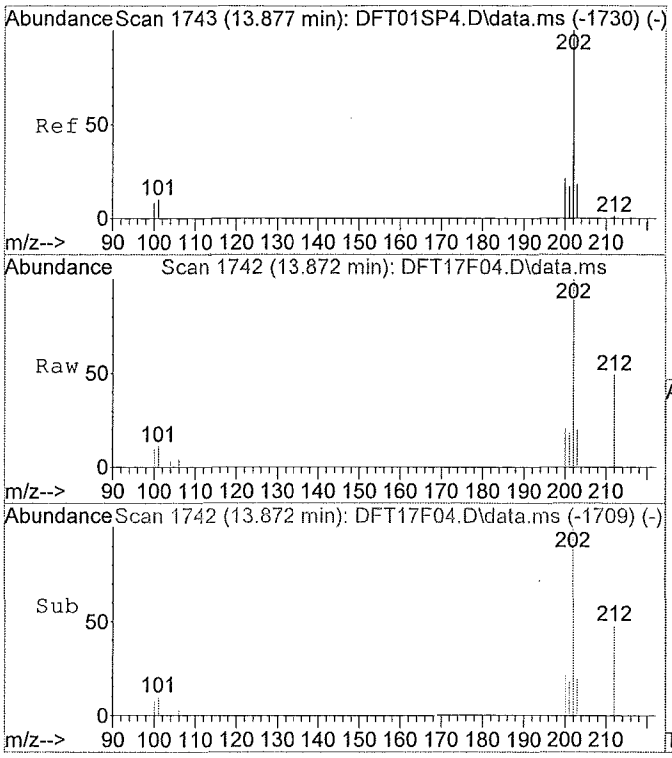


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:202 Resp: 37648

Ion	Ratio	Lower	Upper
202	100		
101	10.0	9.4	17.6
100	8.0	0.0	0.0#
0	0.0	0.0	0.0

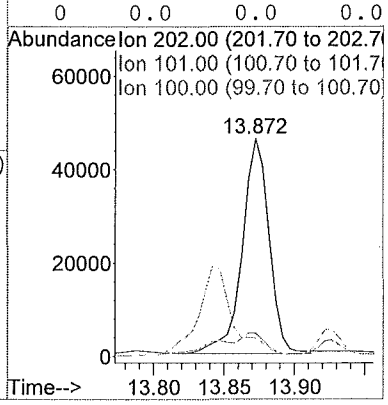


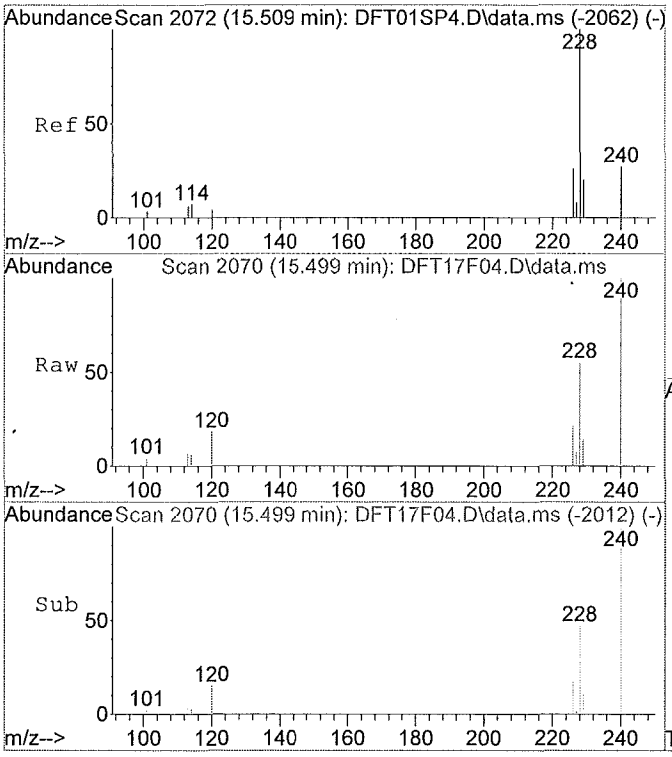


#16
Pyrene
Concen: 0.07 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:202 Resp: 61536

Ion	Ratio	Lower	Upper
202	100		
101	9.4	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

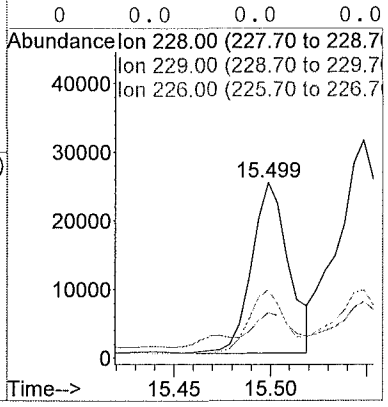


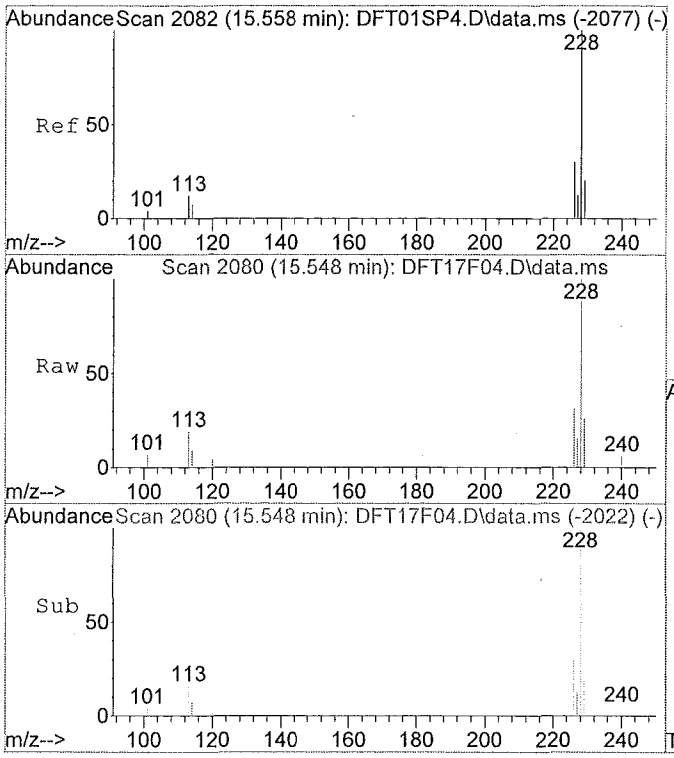


#17
Benzo(a)anthracene
Concen: 0.04 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:228 Resp: 33717

Ion	Ratio	Lower	Upper
228	100		
229	22.5	14.5	26.9
226	38.1	18.5	34.3#
0	0.0	0.0	0.0

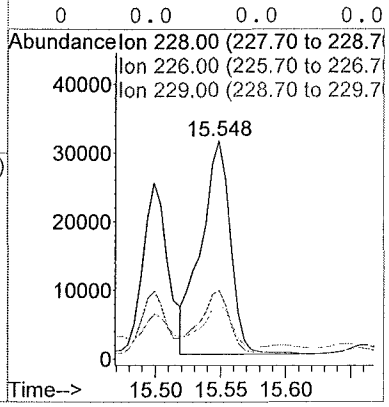


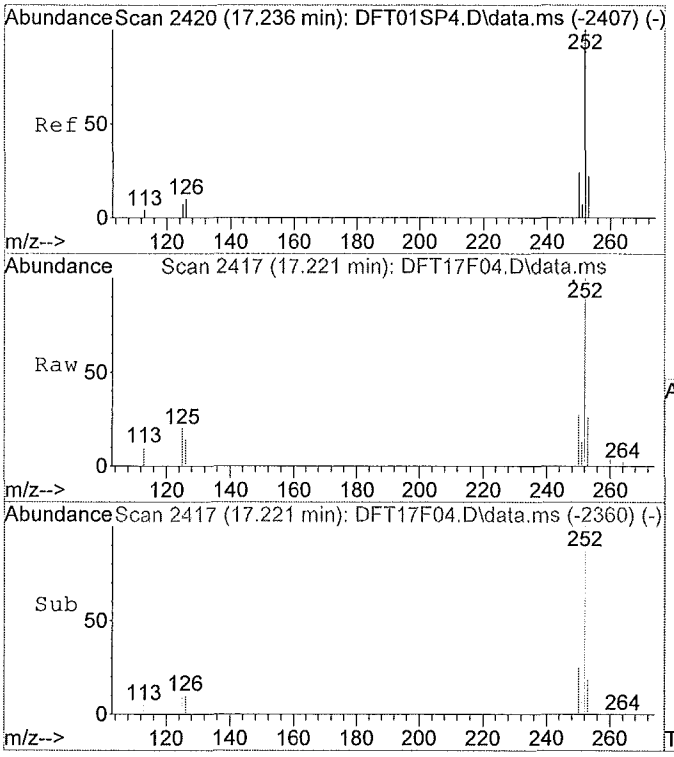


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:228 Resp: 48866

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	21.6	14.5	26.9
0	0.0	0.0	0.0

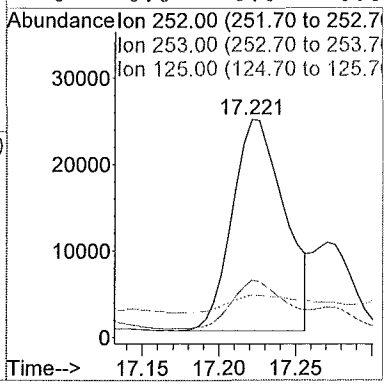


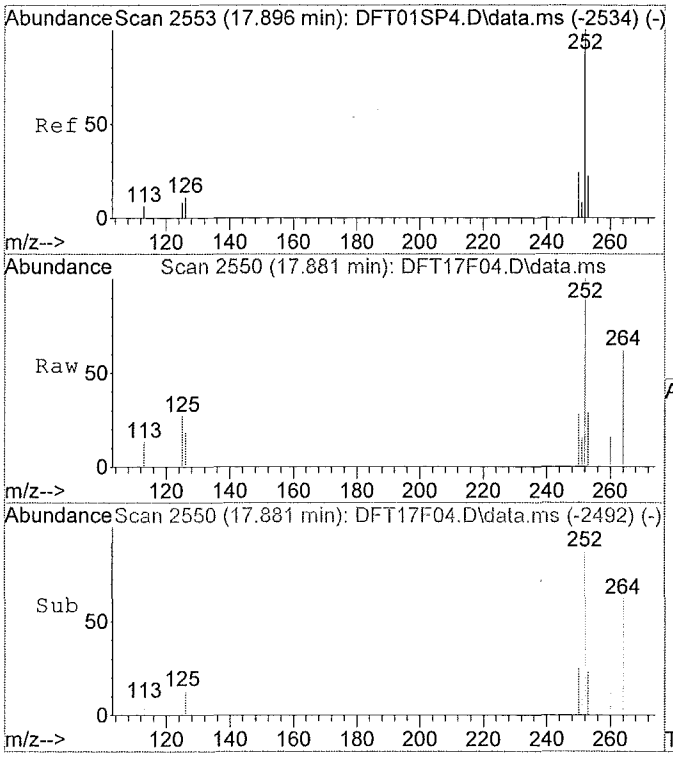


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:252 Resp: 58351

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	17.0	0.0	0.0#
0	0.0	0.0	0.0

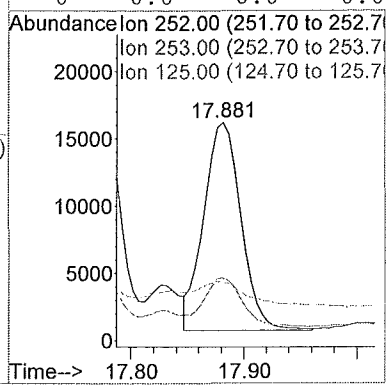


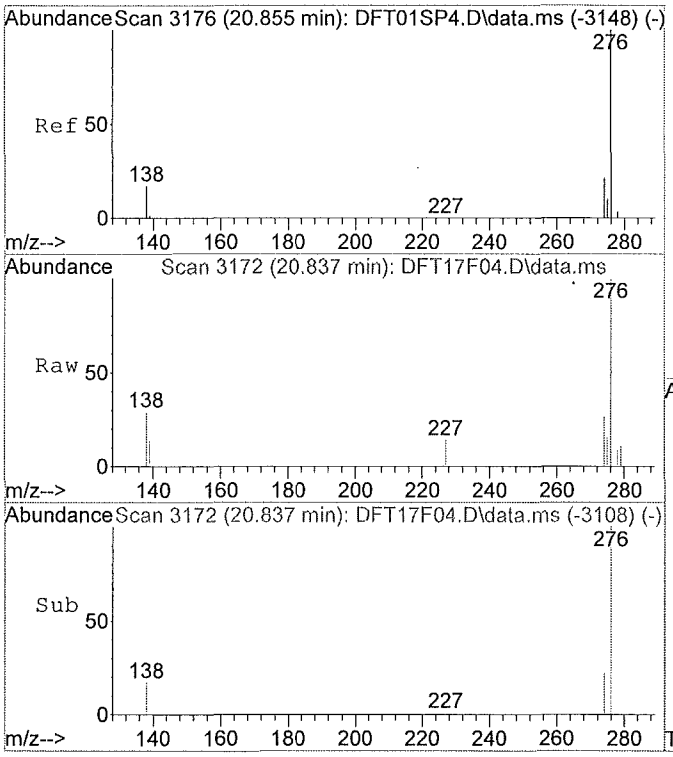


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:252 Resp: 35348

Ion	Ratio	Lower	Upper
252	100		
253	24.6	15.0	27.8
125	14.7	0.0	0.0#
0	0.0	0.0	0.0

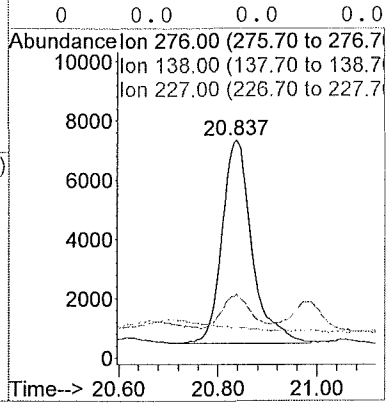


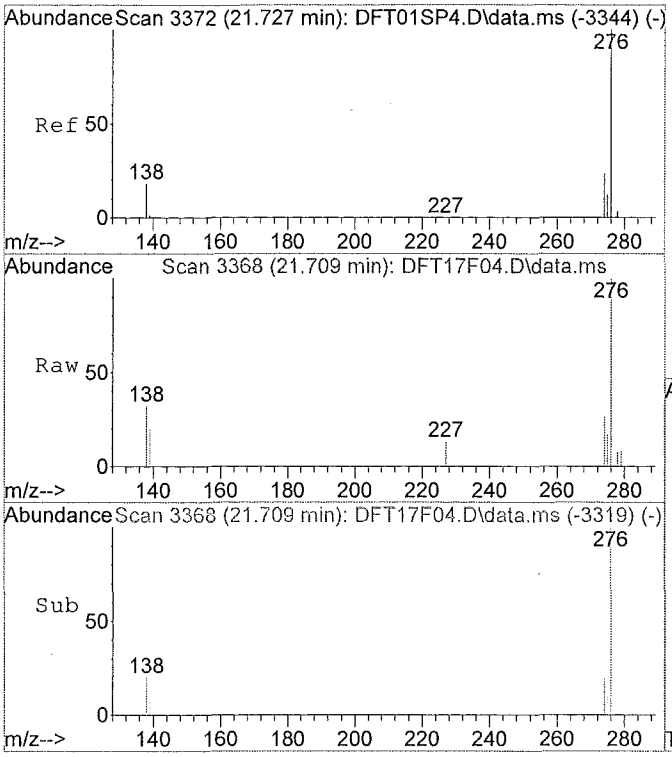


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:276 Resp: 28548

Ion	Ratio	Lower	Upper
276	100		
138	15.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

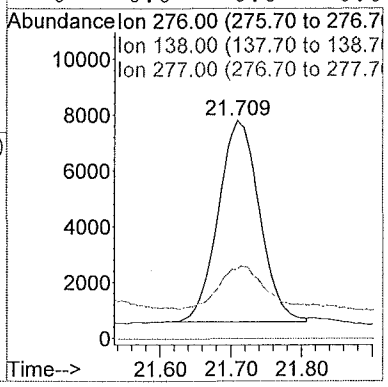




#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFT17F04.D
Acq: 06/04/2015 21:01

Tgt Ion:276 Resp: 29034

Ion	Ratio	Lower	Upper
276	100		
138	22.2	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.

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT18F05

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 10.0

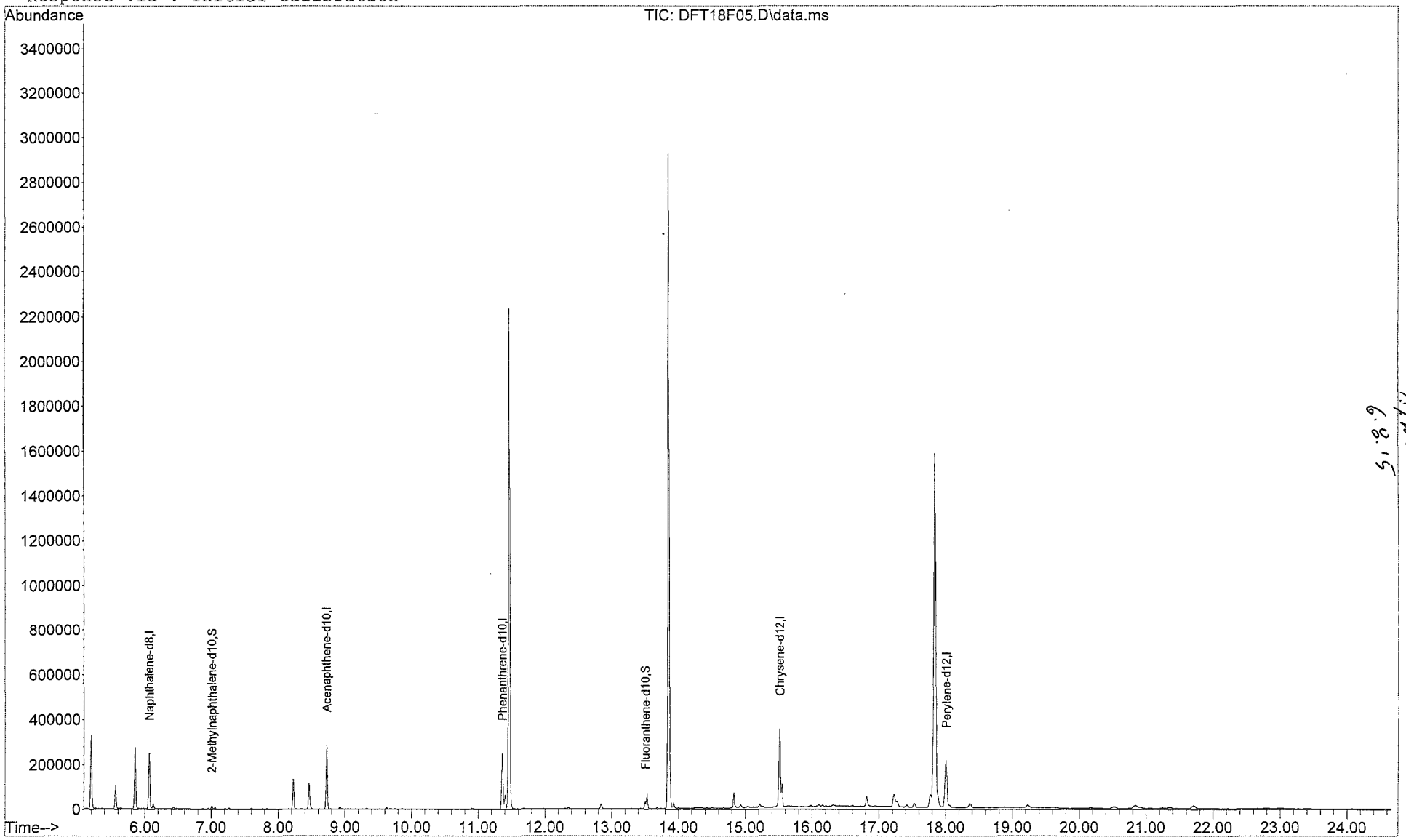
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	37.	U
91-57-6	2-Methylnaphthalene	37.	U
208-96-8	Acenaphthylene	37.	U
83-32-9	Acenaphthene	37.	U
86-73-7	Fluorene	37.	U
87-86-5	Pentachlorophenol	75.	U
85-01-8	Phenanthrene	25.	J
120-12-7	Anthracene	37.	U
206-44-0	Fluoranthene	17.	J
129-00-0	Pyrene	32.	J
56-55-3	Benzo(a)anthracene	21.	J
218-01-9	Chrysene	29.	J
205-99-2	Benzo(b)fluoranthene	23.	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	14.	J
53-70-3	Dibenzo(a,h)anthracene	37.	U
191-24-2	Benzo(g,h,i)perylene	11.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT18F05.D Vial: 16
Acq On : 06/04/2015 21:31 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 09:10:47 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



5.8.9

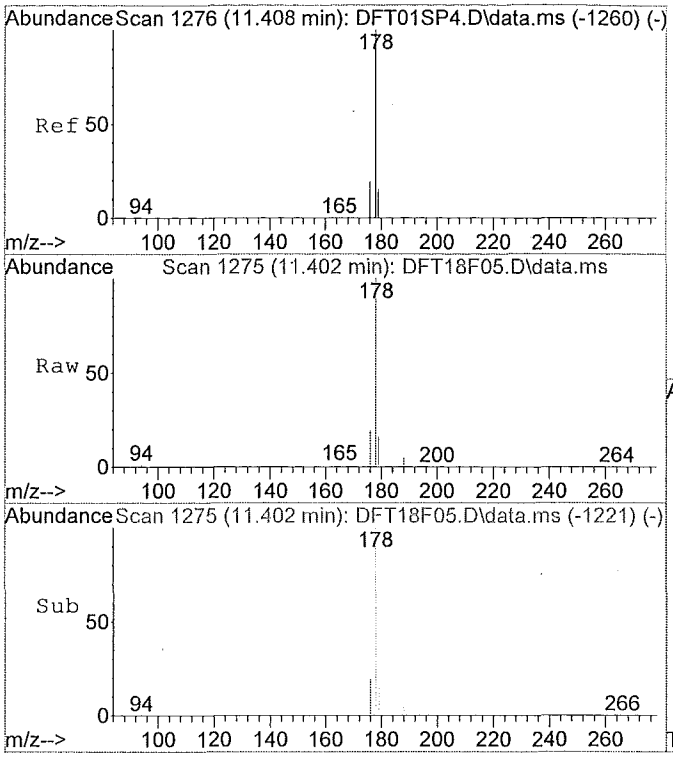
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT18F05.D Vial: 16
Acq On : 06/04/2015 21:31 Operator: DJC
Sample : 1513978005 F9KX1 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 09:10:47 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	291780	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	189512	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	340729	0.40 ug/ml
15) Chrysene-d12	15.51	240	379543	0.40 ug/ml
19) Perylene-d12	18.01	264	380140	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	15800	0.034ug/mL
13) Fluoranthene-d10	13.50	212	34250	0.037ug/mL m 5Y 6/8/15
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	11.40	178	64668	0.066ug/ml 99
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	13.53	202	50944	0.046ug/ml 89
16) Pyrene	13.87	202	101113	0.085ug/ml 66
17) Benzo(a)anthracene	15.50	228	58107	0.057ug/ml 84
18) Chrysene	15.55	228	84401	0.079ug/ml 93
20) Benzo(b)fluoranthene	17.22	252	73513	0.062ug/ml 100
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	17.88	252	47118	0.042ug/ml 94
23) Indeno(1,2,3-c,d)pyrene	20.83	276	37034	0.037ug/ml 100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	21.71	276	32913	0.030ug/ml 72

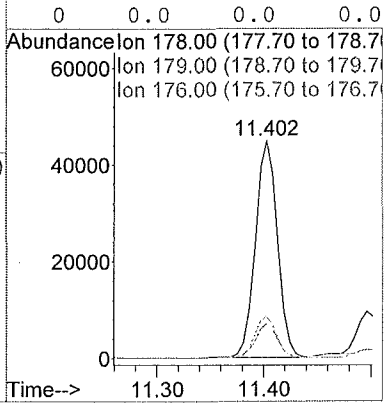
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

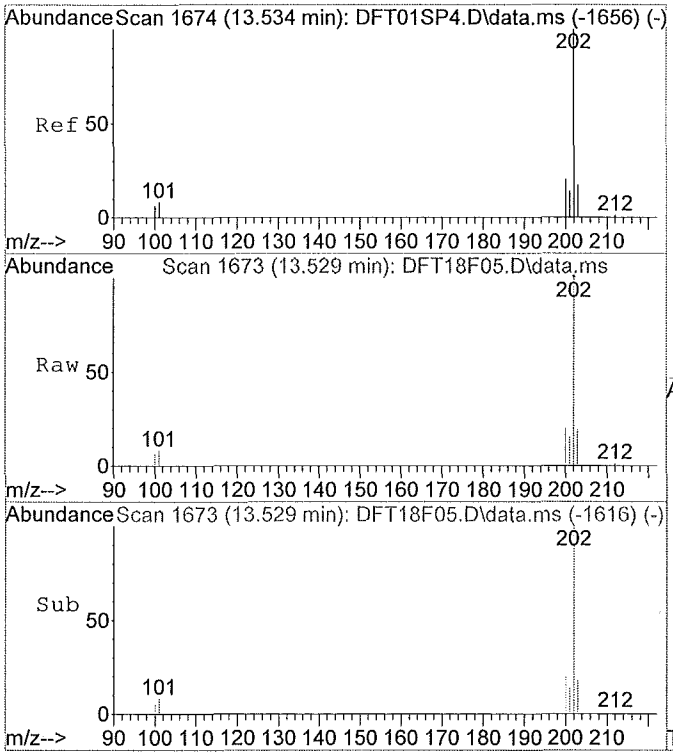


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:178 Resp: 64668

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

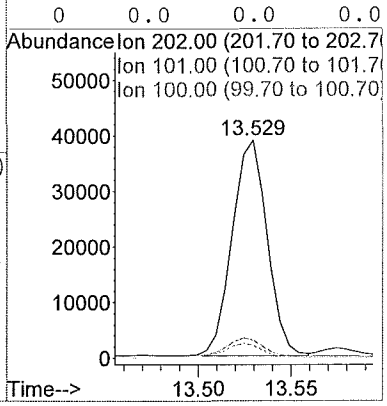


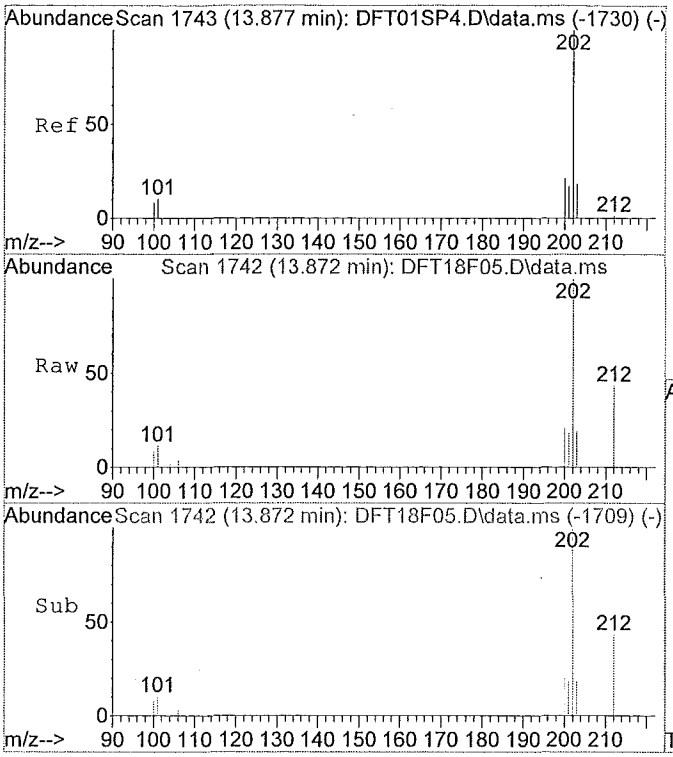


#14
Fluoranthene
Concen: 0.05 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:202 Resp: 50944

Ion	Ratio	Lower	Upper
202	100		
101	8.9	9.4	17.6#
100	7.1	0.0	0.0#
0	0.0	0.0	0.0

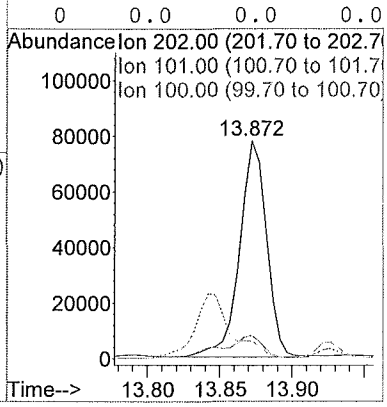


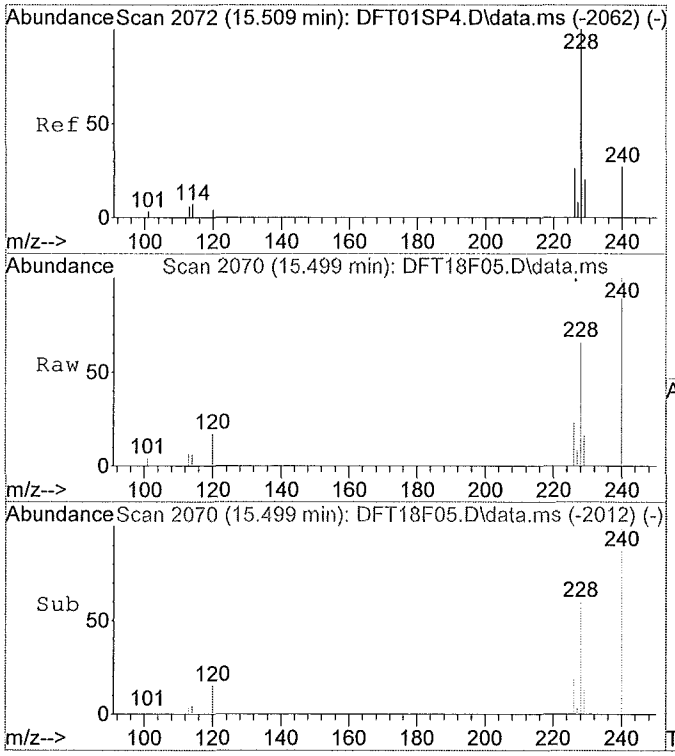


#16
Pyrene
Concen: 0.08 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:202 Resp: 101113

Ion	Ratio	Lower	Upper
202	100		
101	16.2	10.6	19.6
100	41.4	9.4	17.4#
0	0.0	0.0	0.0

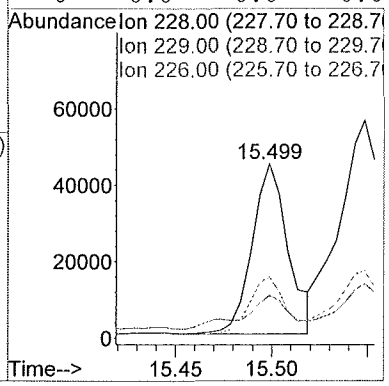


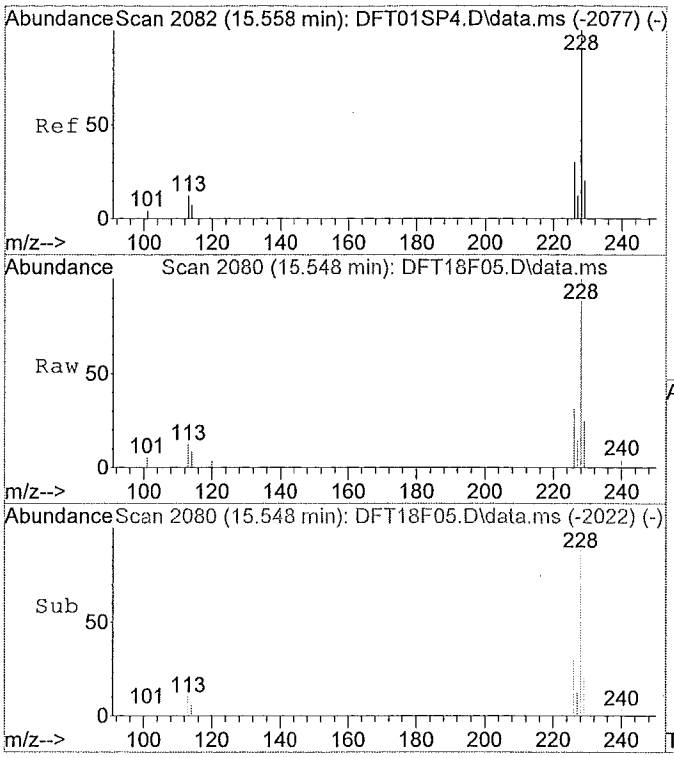


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:228 Resp: 58107

Ion	Ratio	Lower	Upper
228	100		
229	29.7	14.5	26.9#
226	33.5	18.5	34.3
0	0.0	0.0	0.0

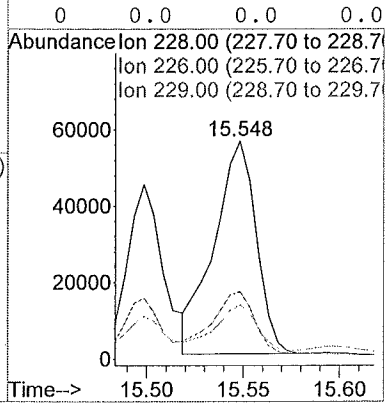


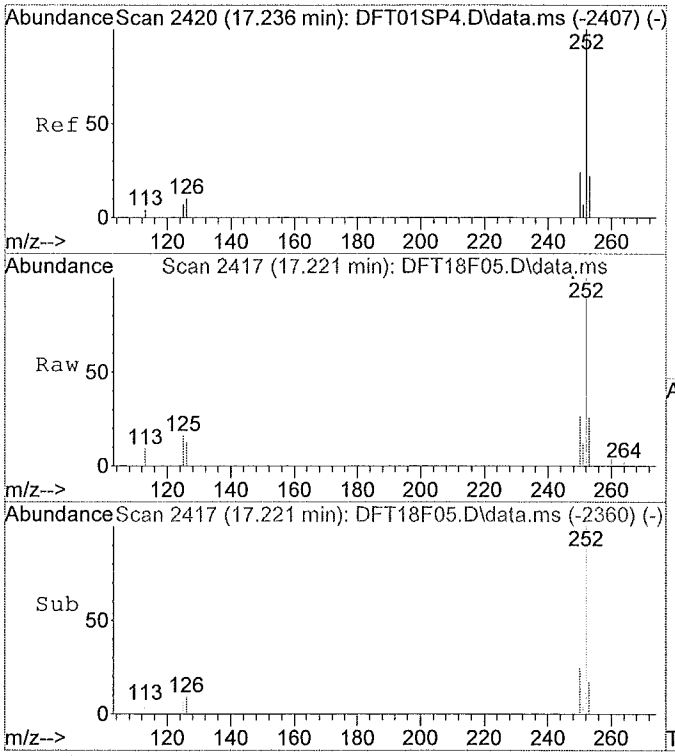


#18
Chrysene
Concen: 0.08 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:228 Resp: 84401

Ion	Ratio	Lower	Upper
228	100		
226	32.1	19.7	36.7
229	23.4	14.5	26.9
0	0.0	0.0	0.0

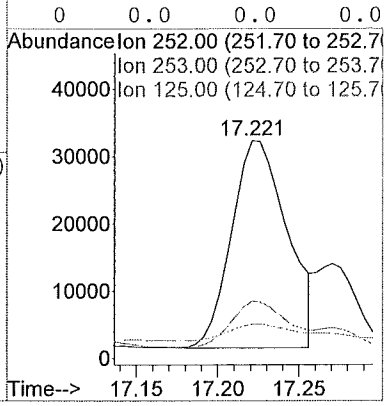


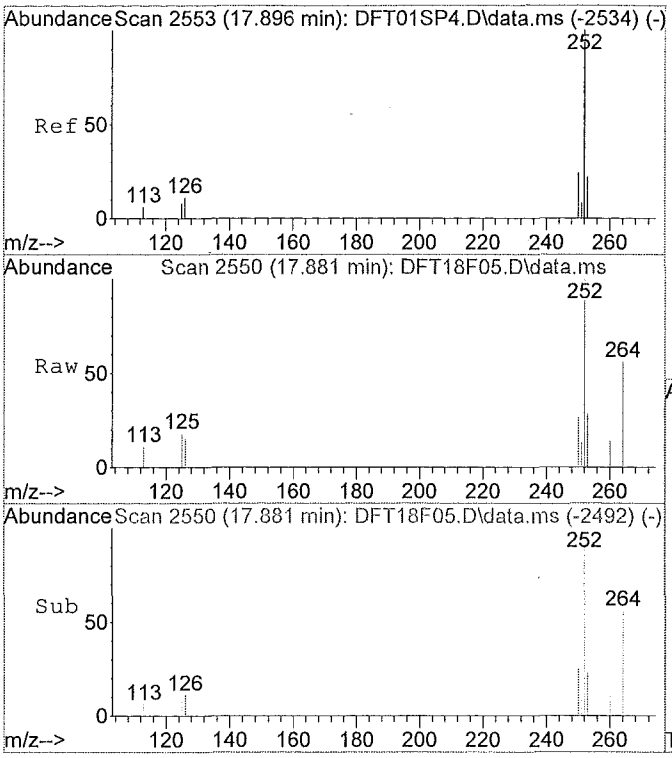


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:252 Resp: 73513

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	11.0	0.0	0.0#
0	0.0	0.0	0.0

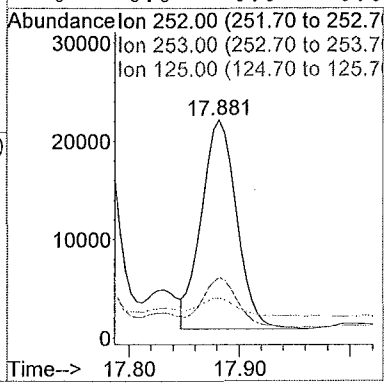


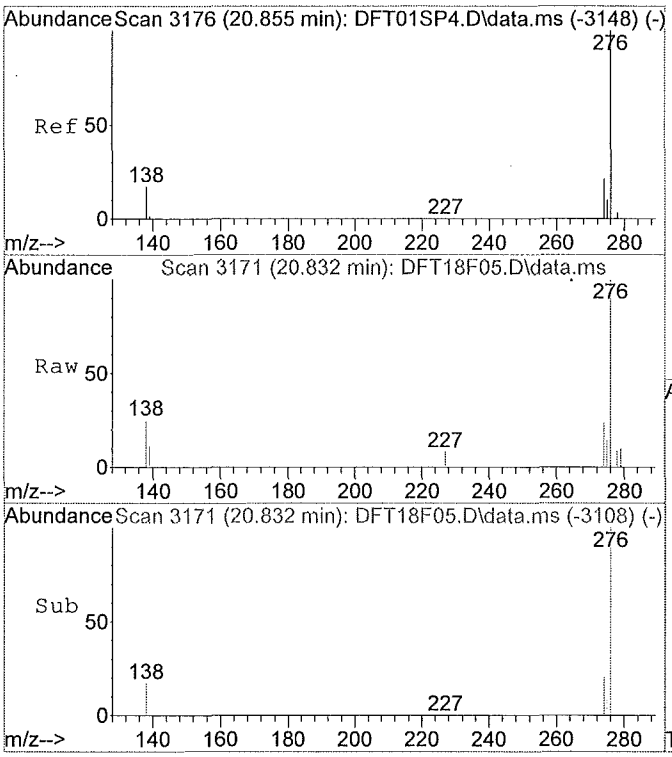


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:252 Resp: 47118

Ion	Ratio	Lower	Upper
252	100		
253	24.1	15.0	27.8
125	8.8	0.0	0.0#
0	0.0	0.0	0.0

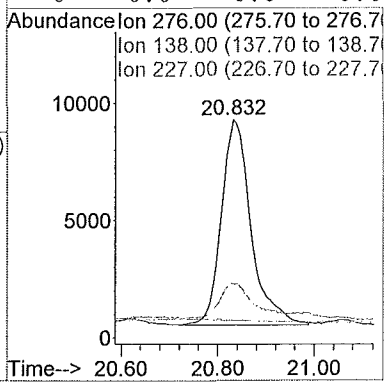


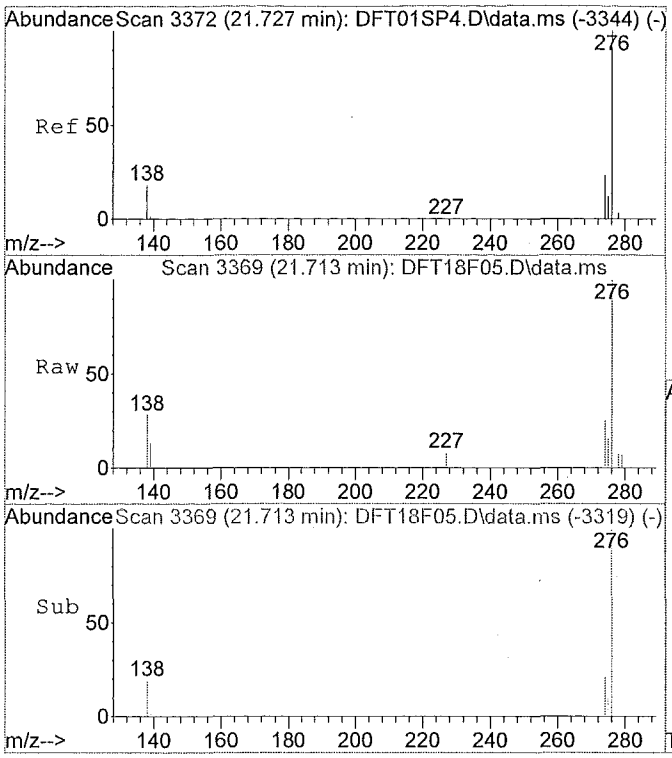


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:276 Resp: 37034

Ion	Ratio	Lower	Upper
276	100		
138	18.0	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

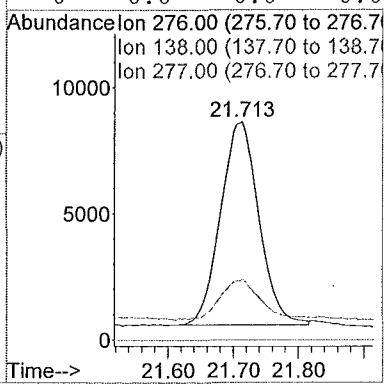




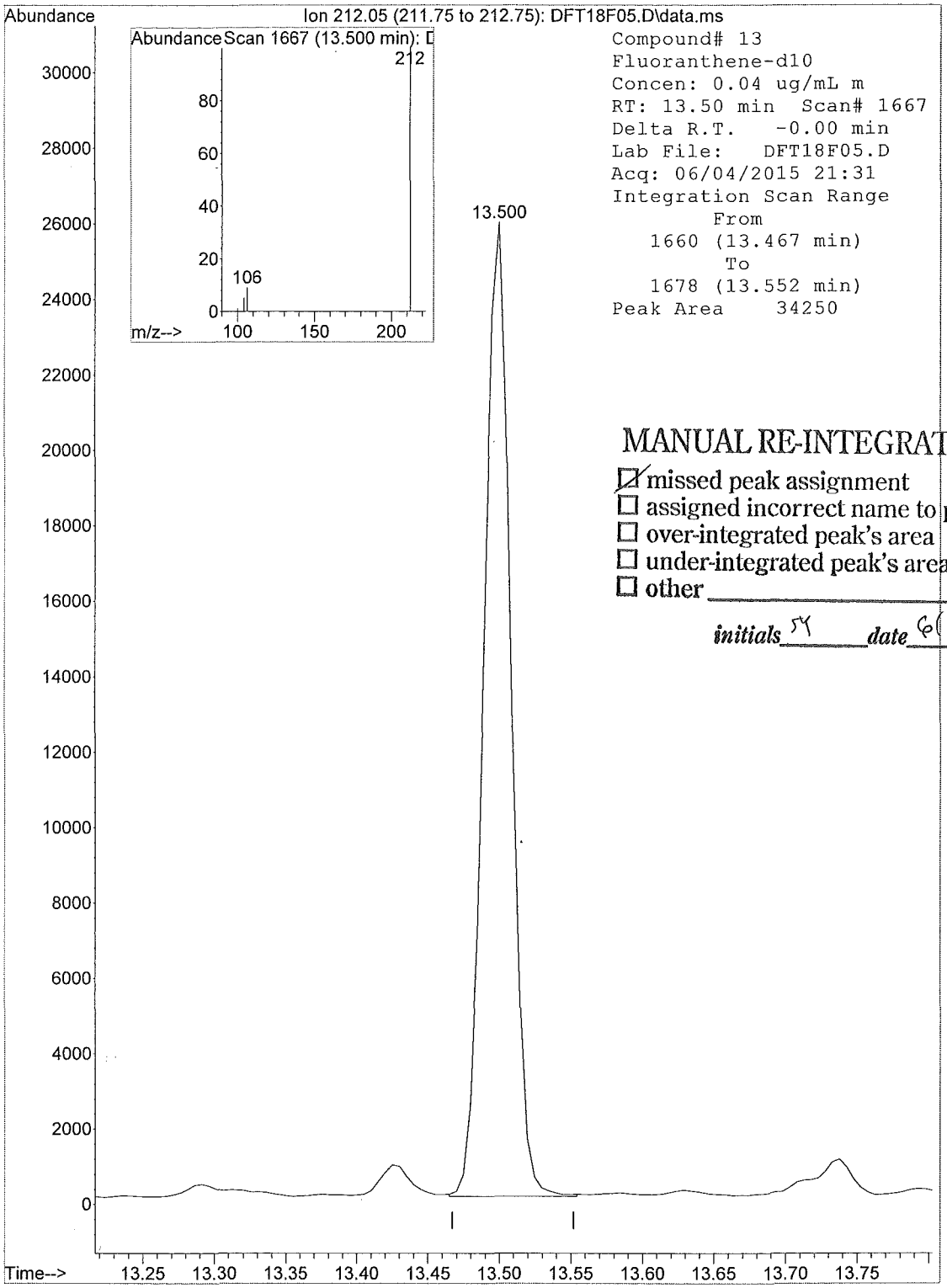
#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31

Tgt Ion:276 Resp: 32913

Ion	Ratio	Lower	Upper
276	100		
138	19.9	16.2	30.0
277	0.0	16.5	30.7#
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 Fluoranthene-d10



Compound# 13
Fluoranthene-d10
Concen: 0.04 ug/mL m
RT: 13.50 min Scan# 1667
Delta R.T. -0.00 min
Lab File: DFT18F05.D
Acq: 06/04/2015 21:31
Integration Scan Range
From
1660 (13.467 min)
To
1678 (13.552 min)
Peak Area 34250

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* 6/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT13F02

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

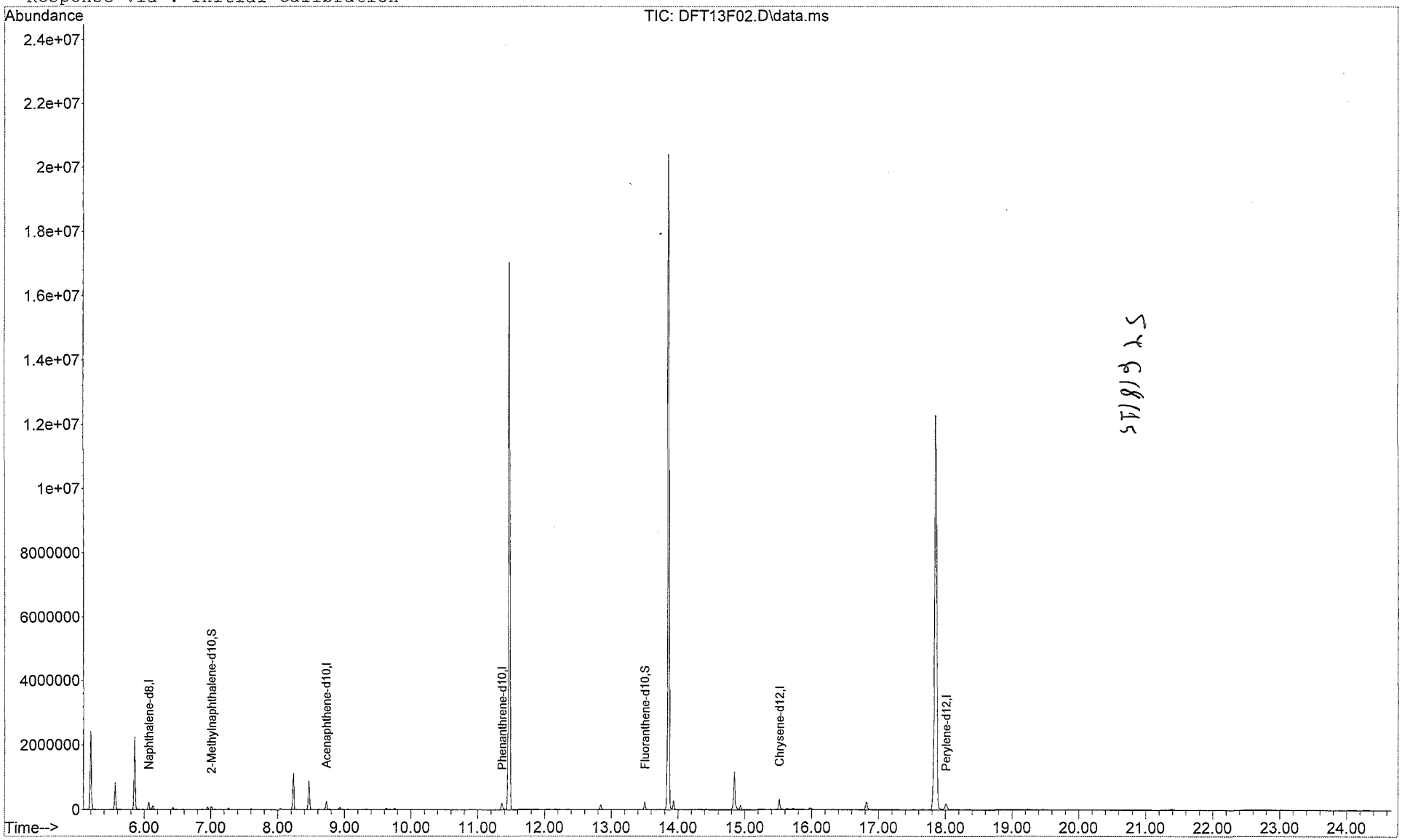
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT13F02.D Vial: 13
Acq On : 06/04/2015 19:03 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:02:39 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT13F02.D Vial: 13
Acq On : 06/04/2015 19:03 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:02:39 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	251813	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	178019	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	313250	0.40 ug/ml
15) Chrysene-d12	15.51	240	324697	0.40 ug/ml
19) Perylene-d12	18.01	264	355462	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	102823	0.253ug/mL
13) Fluoranthene-d10	13.50	212	266206	0.311ug/mL

Target Compounds				Qvalue
2) Naphthalene	0.00	128	Not Detected	
4) 2-Methylnaphthalene	0.00	142	Not Detected	
6) Acenaphthylene	0.00	152	Not Detected	
7) Acenaphthene	0.00	153	Not Detected	
8) Fluorene	0.00	166	Not Detected	
10) Pentachlorophenol	0.00	266	Not Detected	
11) Phenanthrene	0.00	178	Not Detected	
12) Anthracene	0.00	178	Not Detected	
14) Fluoranthene	0.00	202	Not Detected	
16) Pyrene	0.00	202	Not Detected	
17) Benzo(a)anthracene	0.00	228	Not Detected	
18) Chrysene	0.00	228	Not Detected	
20) Benzo(b)fluoranthene	0.00	252	Not Detected	
21) Benzo(k)fluoranthene	0.00	252	Not Detected	
22) Benzo(a)pyrene	0.00	252	Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276	Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278	Not Detected	
25) Benzo(g,h,i)perylene	0.00	276	Not Detected	

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

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT06F06

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

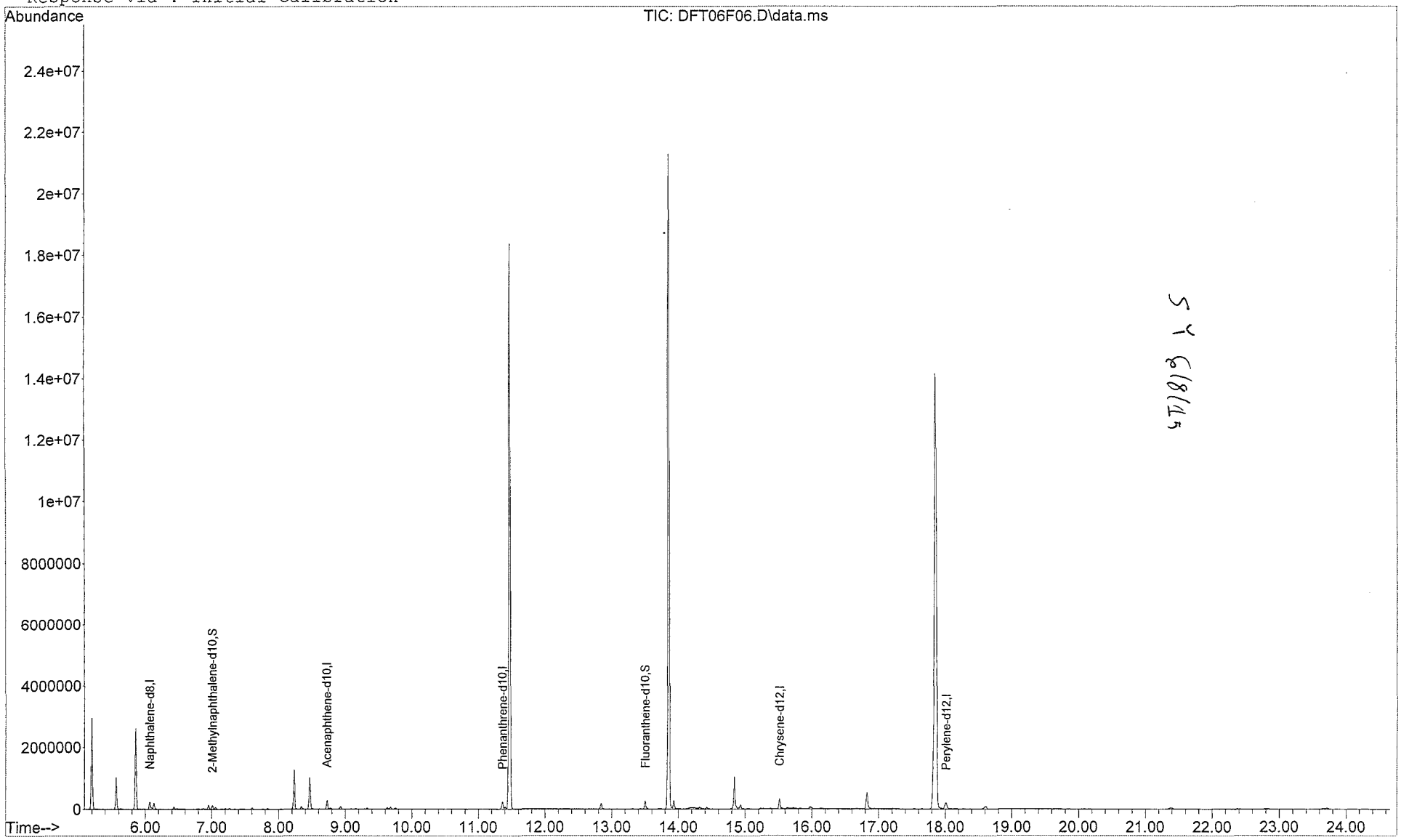
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.9	J
91-57-6	2-Methylnaphthalene	2.7	J
208-96-8	Acenaphthylene	1.5	J
83-32-9	Acenaphthene	1.6	J
86-73-7	Fluorene	2.0	J
87-86-5	Pentachlorophenol	1.5	J
85-01-8	Phenanthrene	2.6	J
120-12-7	Anthracene	1.6	J
206-44-0	Fluoranthene	0.96	J
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT06F06.D Vial: 6
Acq On : 06/04/2015 15:32 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 08:15:31 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



5Y 6/8/15

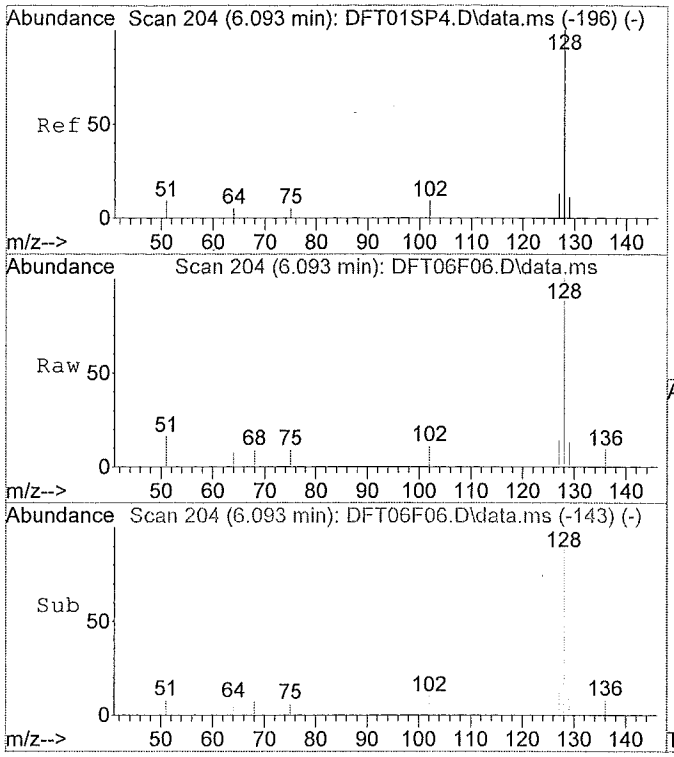
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT06F06.D Vial: 6
Acq On : 06/04/2015 15:32 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 08:15:31 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	272509	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	195273	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	325691	0.40 ug/ml	
15) Chrysene-d12	15.51	240	347824	0.40 ug/ml	
19) Perylene-d12	18.01	264	373432	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	134529	0.306ug/mL	
13) Fluoranthene-d10	13.50	212	303690	0.341ug/mL	m SY 6/8/15
Target Compounds					Qvalue
2) Naphthalene	6.09	128	34587	0.049ug/ml	94
4) 2-Methylnaphthalene	7.06	142	32357	0.071ug/ml	99
6) Acenaphthylene	8.49	152	33564	0.039ug/ml	77
7) Acenaphthene	8.78	153	22363	0.041ug/ml	94
8) Fluorene	9.68	166	33409	0.053ug/ml	99
10) Pentachlorophenol	11.02	266	1897	0.039ug/ml	100
11) Phenanthrene	11.40	178	63144	0.067ug/ml	99
12) Anthracene	11.50	178	38101	0.042ug/ml	96
14) Fluoranthene	13.53	202	26290	0.025ug/ml	97
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	

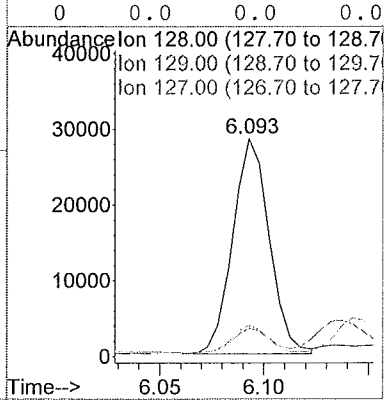
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

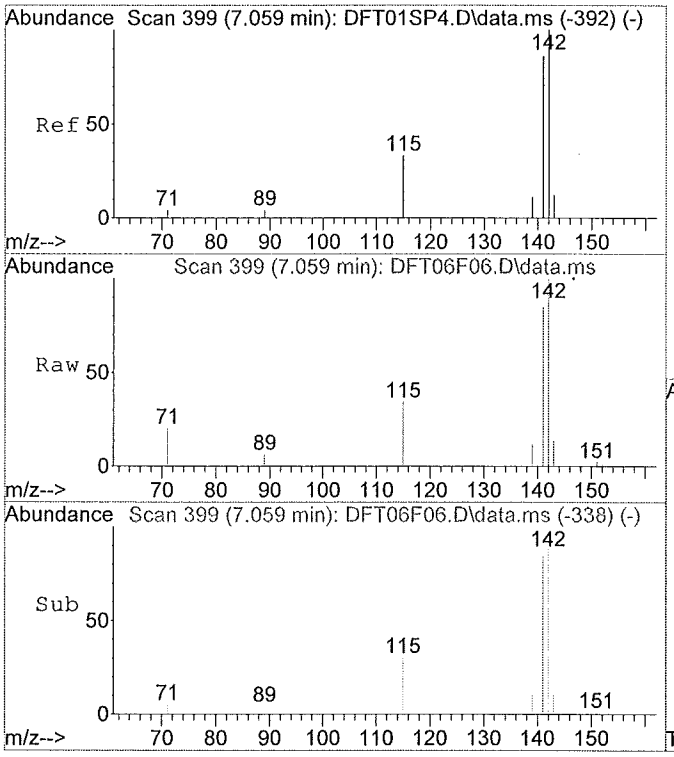


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:128 Resp: 34587

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	0.0#
127	13.4	11.1	20.5
0	0.0	0.0	0.0

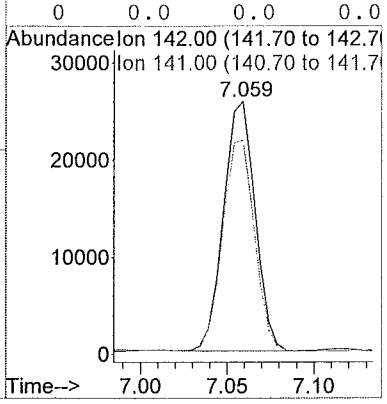


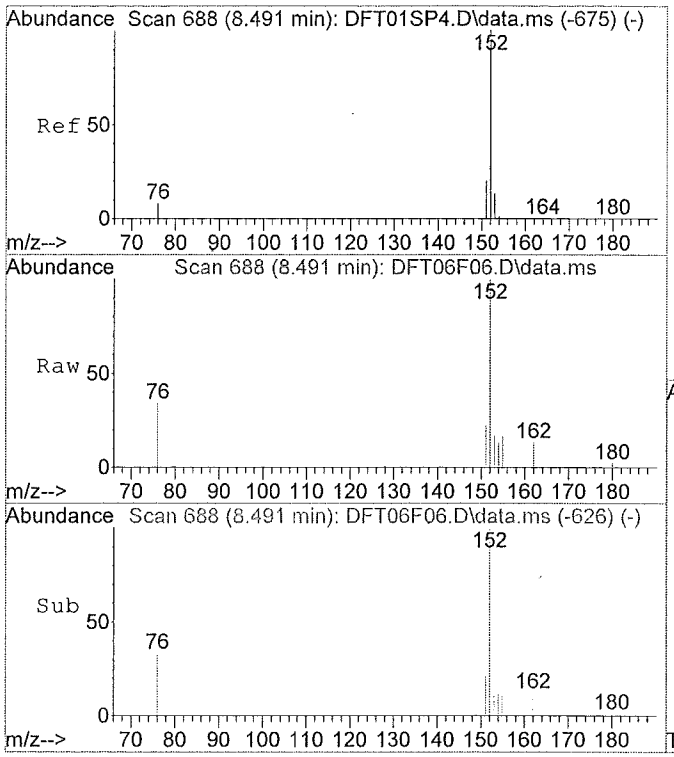


#4
2-Methylnaphthalene
Concen: 0.07 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:142 Resp: 32357

Ion	Ratio	Lower	Upper
142	100		
141	86.2	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

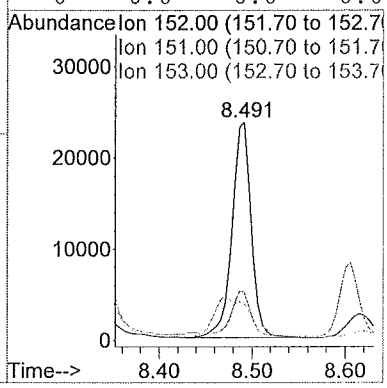


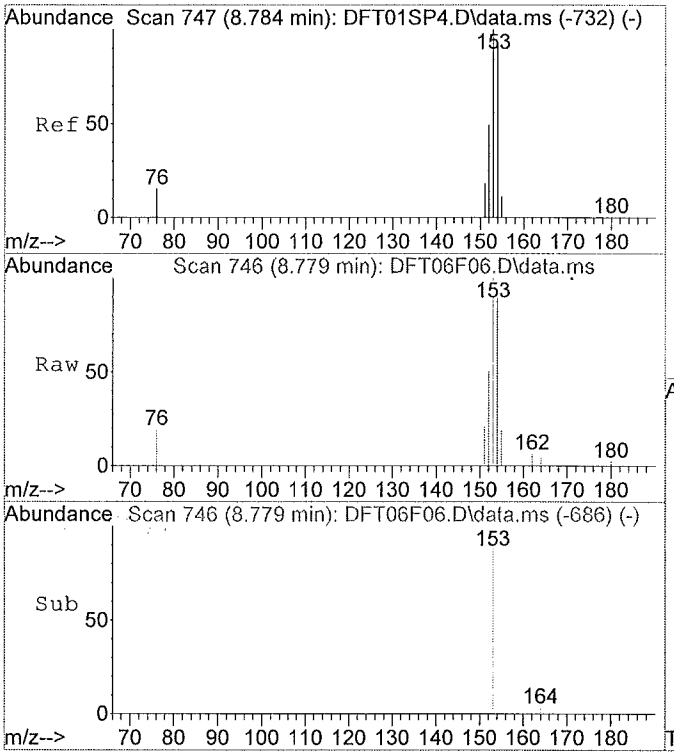


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 688
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:152 Resp: 33564

Ion	Ratio	Lower	Upper
152	100		
151	21.5	15.5	28.7
153	36.5	8.8	16.4#
0	0.0	0.0	0.0

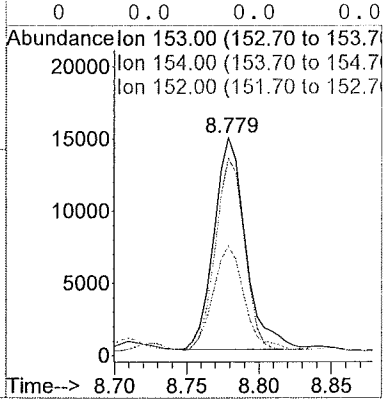


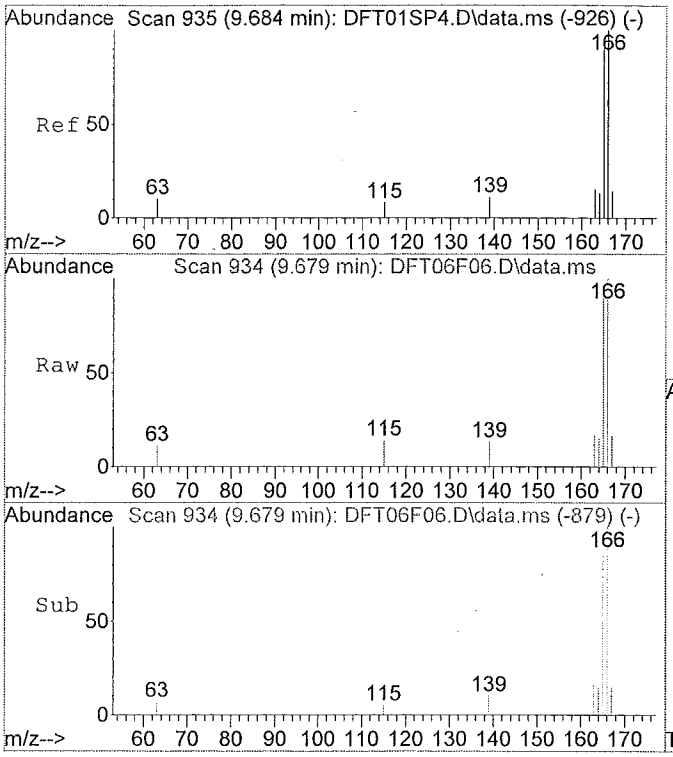


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:153 Resp: 22363

Ion	Ratio	Lower	Upper
153	100		
154	85.2	65.1	120.9
152	49.0	35.2	65.4
0	0.0	0.0	0.0

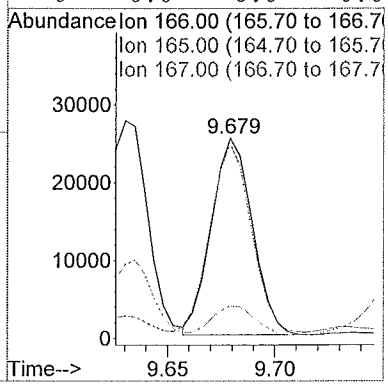


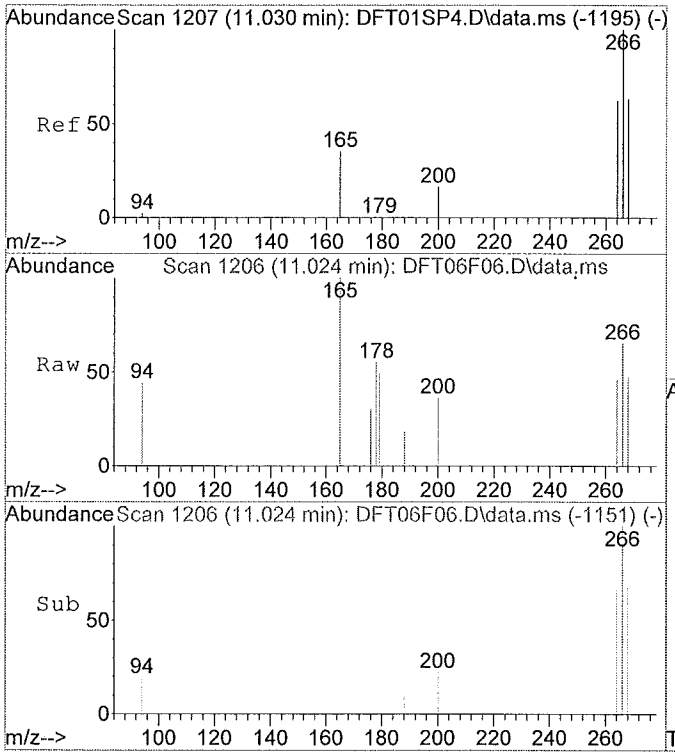


#8
Fluorene
Concen: 0.05 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:166 Resp: 33409

Ion	Ratio	Lower	Upper
166	100		
165	95.2	66.3	123.1
167	15.8	0.0	0.0#
0	0.0	0.0	0.0

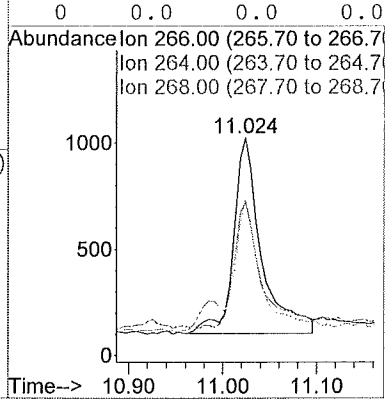


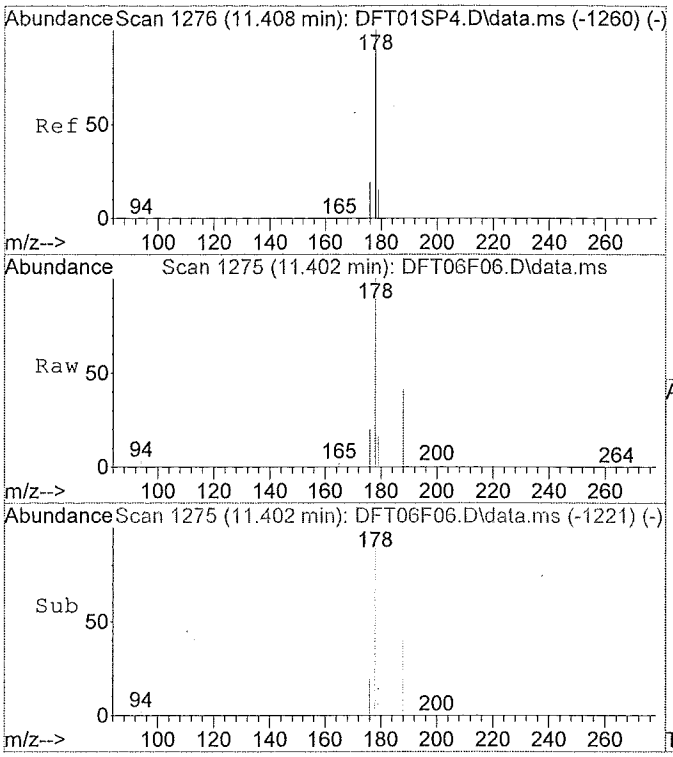


#10
Pentachlorophenol
Concen: 0.04 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:266 Resp: 1897

Ion	Ratio	Lower	Upper
266	100		
264	64.2	0.0	0.0#
268	57.7	0.0	0.0#
0	0.0	0.0	0.0

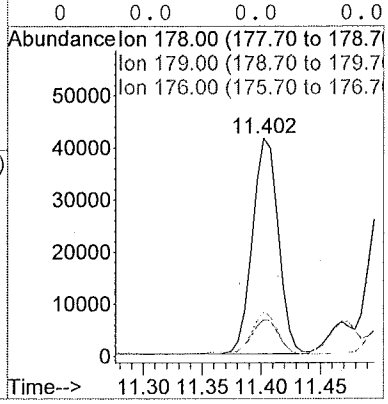


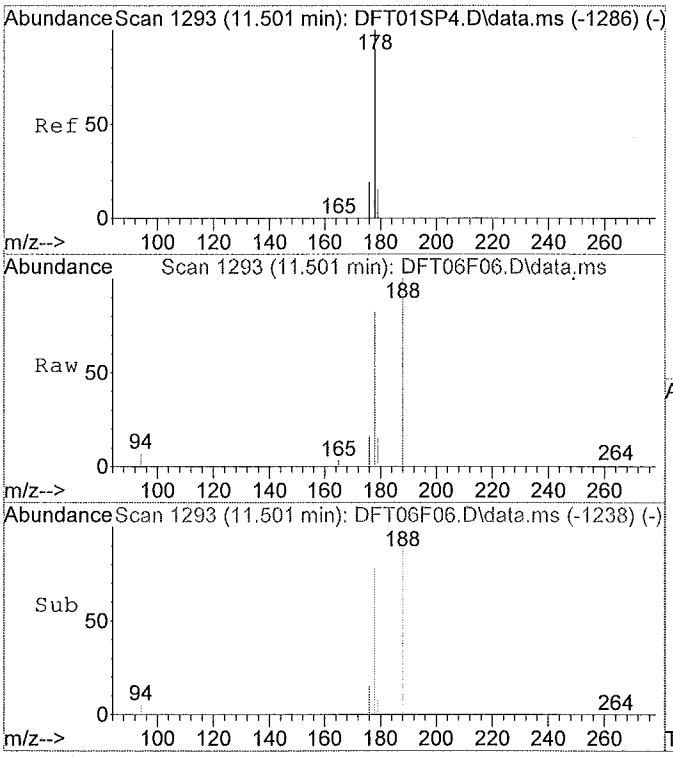


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:178 Resp: 63144

Ion	Ratio	Lower	Upper
178	100		
179	16.8	11.1	20.5
176	20.0	14.1	26.1
0	0.0	0.0	0.0

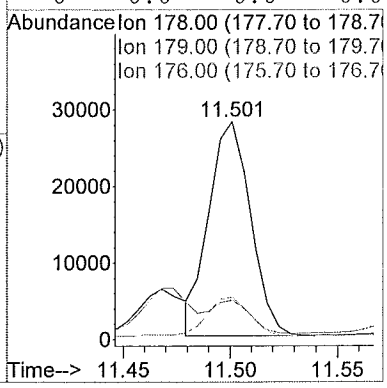


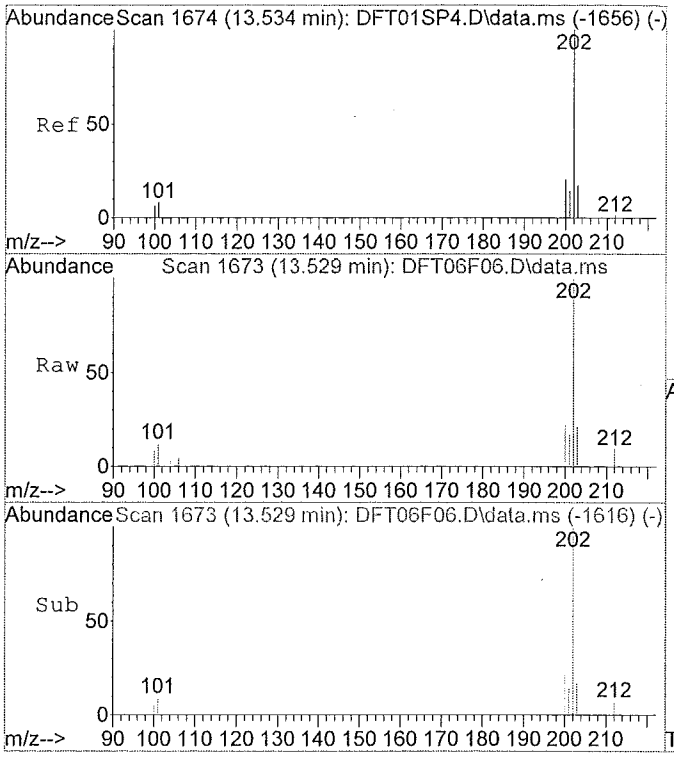


#12
Anthracene
Concen: 0.04 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:178 Resp: 38101

Ion	Ratio	Lower	Upper
178	100		
179	12.4	11.6	21.6
176	19.8	13.9	25.7
0	0.0	0.0	0.0

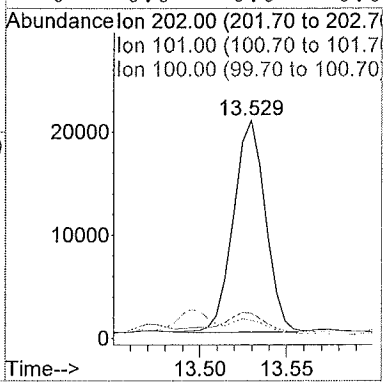




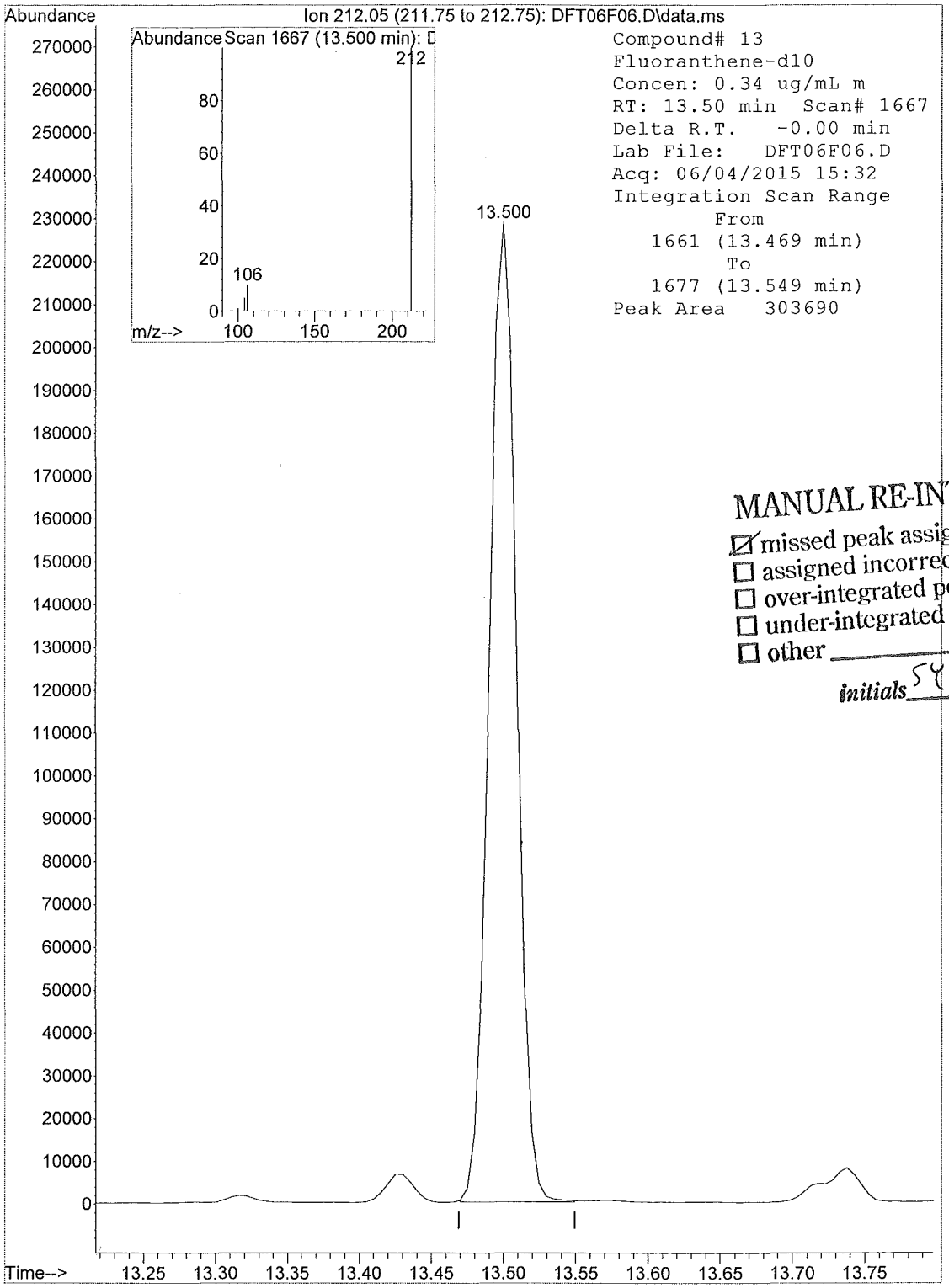
#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:202 Resp: 26290

Ion	Ratio	Lower	Upper
202	100		
101	12.5	9.4	17.6
100	7.9	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 Fluoranthene-d10



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* 6/8/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1513978006 F9KX5 . SOIL SIM

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT19F07

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 5.0

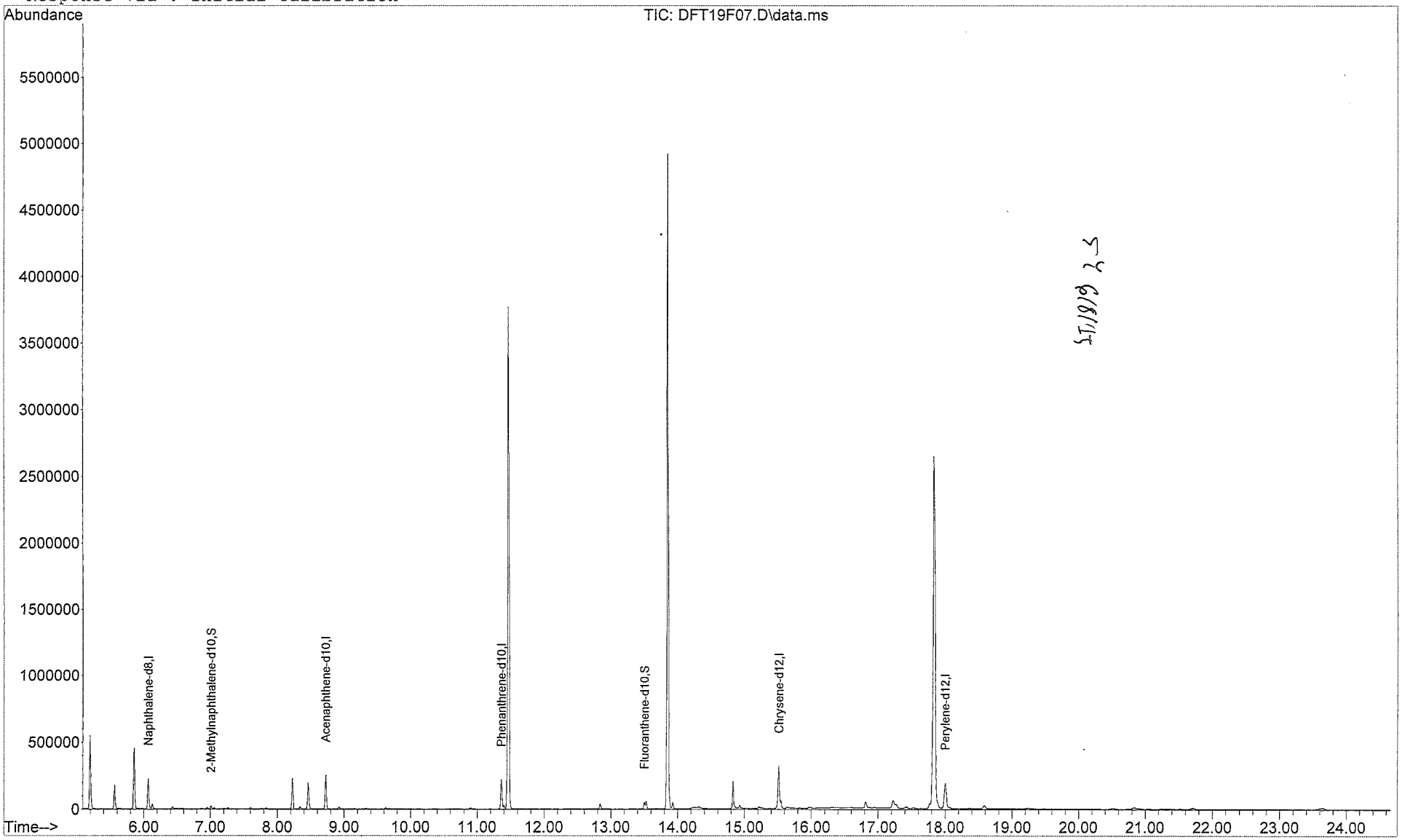
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	19.	U
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	38.	U
85-01-8	Phenanthrene	4.5	J
120-12-7	Anthracene	19.	U
206-44-0	Fluoranthene	8.2	J
129-00-0	Pyrene	12.	J
56-55-3	Benzo(a)anthracene	8.5	J
218-01-9	Chrysene	9.9	J
205-99-2	Benzo(b)fluoranthene	14.	J
207-08-9	Benzo(k)fluoranthene	19.	U
50-32-8	Benzo(a)pyrene	7.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	6.9	J
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	4.0	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT19F07.D Vial: 17
Acq On : 06/04/2015 22:00 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:55:44 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

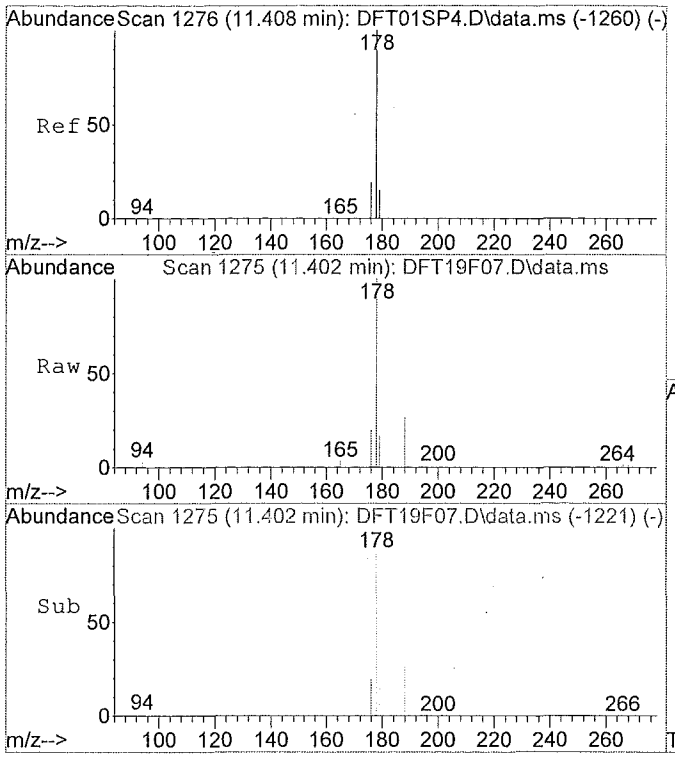
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT19F07.D Vial: 17
Acq On : 06/04/2015 22:00 Operator: DJC
Sample : 1513978007 F9KY4 (5) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:55:44 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	262725	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	173076	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	310968	0.40 ug/ml
15) Chrysene-d12	15.51	240	339190	0.40 ug/ml
19) Perylene-d12	18.00	264	344339	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	26113	0.062ug/mL
13) Fluoranthene-d10	13.50	212	56790	0.067ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	21574	0.024ug/ml	97
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	44828	0.044ug/ml	89
16) Pyrene	13.87	202	69175	0.065ug/ml	2
17) Benzo(a)anthracene	15.50	228	40929	0.045ug/ml	89
18) Chrysene	15.55	228	50517	0.053ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	78994	0.074ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	39712	0.039ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.83	276	33260	0.037ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.70	276	21662	0.021ug/ml	70

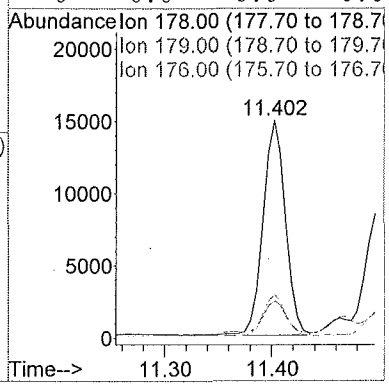
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

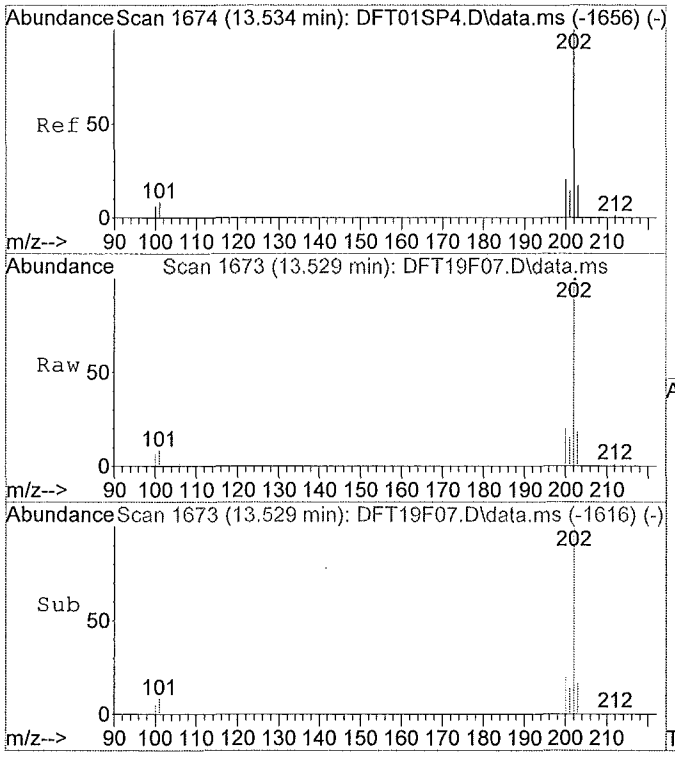


#11
Phenanthrene
Concen: 0.02 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:178 Resp: 21574

Ion	Ratio	Lower	Upper
178	100		
179	17.5	11.1	20.5
176	18.9	14.1	26.1
0	0.0	0.0	0.0

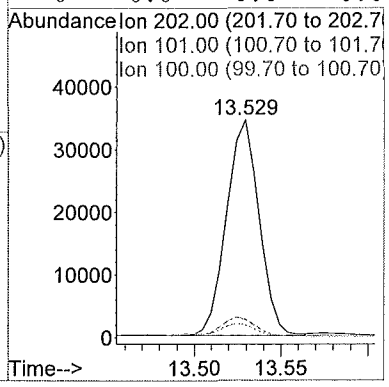


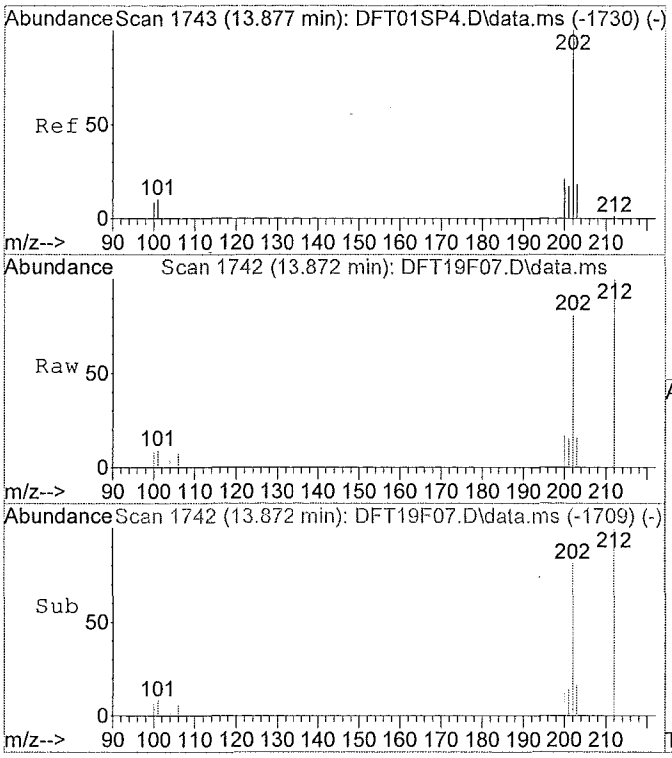


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:202 Resp: 44828

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	8.2	0.0	0.0#
0	0.0	0.0	0.0

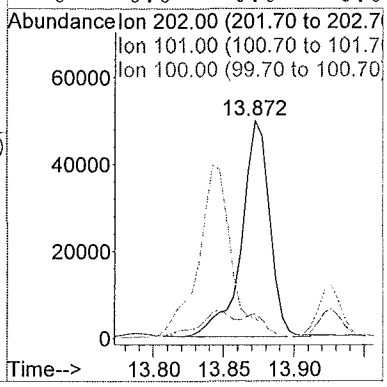


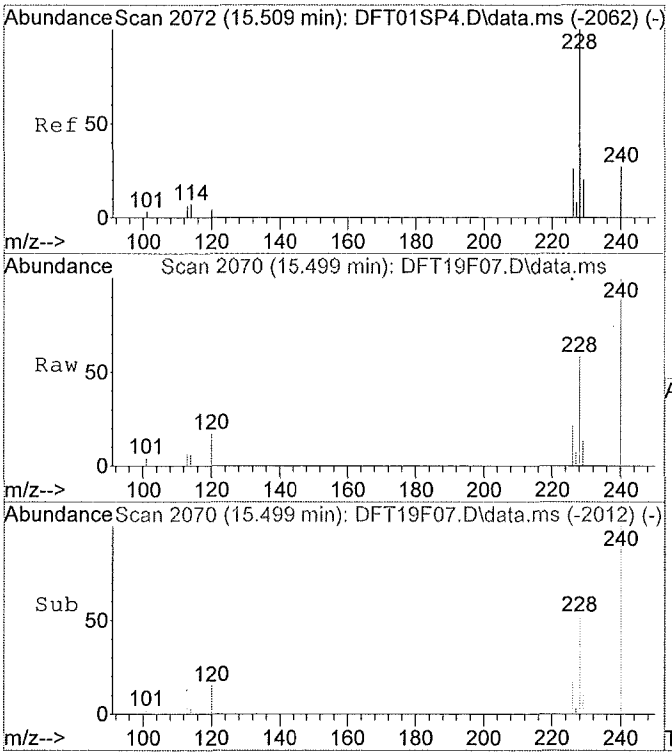


#16
Pyrene
Concen: 0.06 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:202 Resp: 69175

Ion	Ratio	Lower	Upper
202	100		
101	16.7	10.6	19.6
100	95.6	9.4	17.4#
0	0.0	0.0	0.0

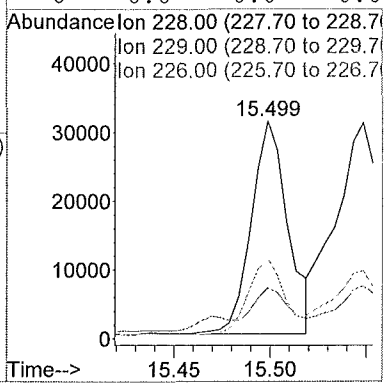


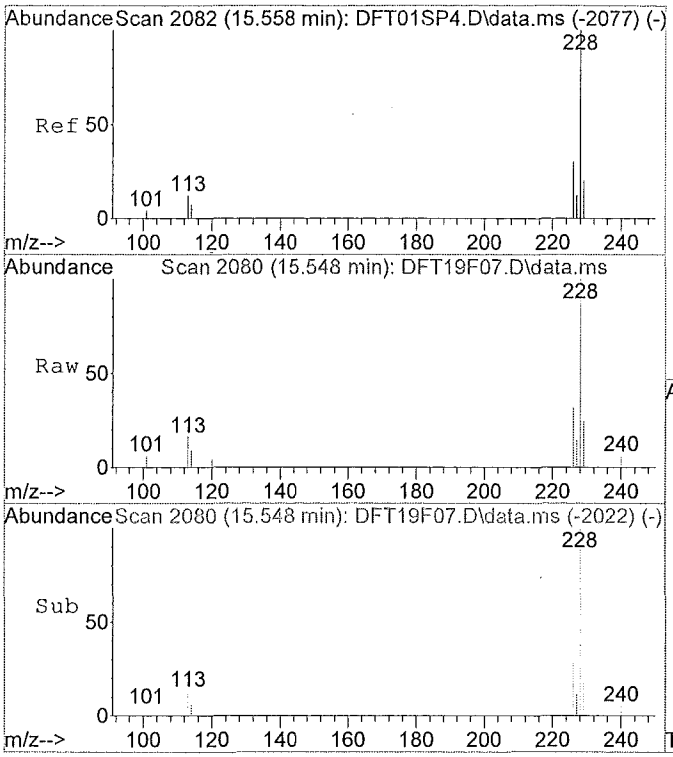


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:228 Resp: 40929

Ion	Ratio	Lower	Upper
228	100		
229	20.2	14.5	26.9
226	36.4	18.5	34.3#
0	0.0	0.0	0.0

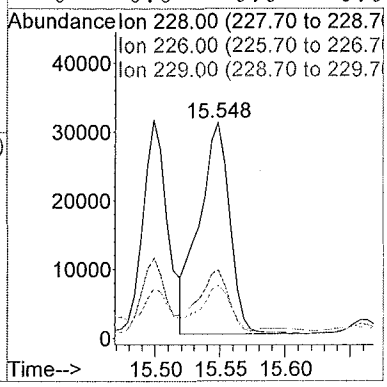


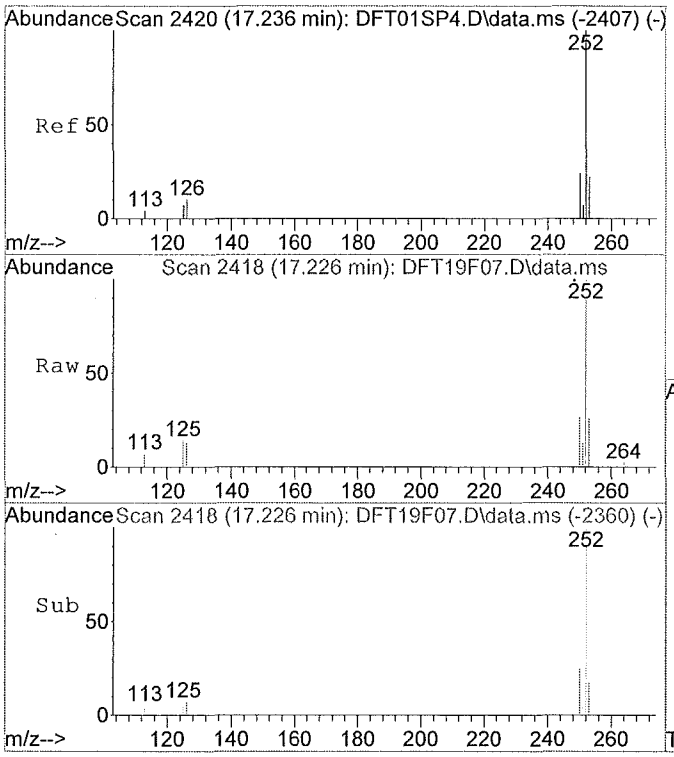


#18
Chrysene
Concen: 0.05 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:228 Resp: 50517

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	19.8	14.5	26.9
0	0.0	0.0	0.0

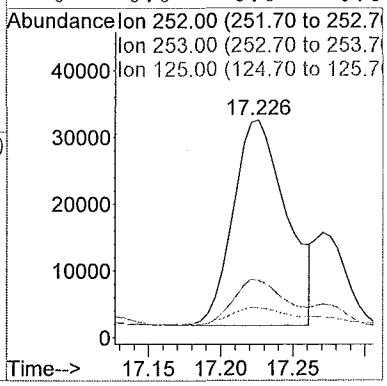


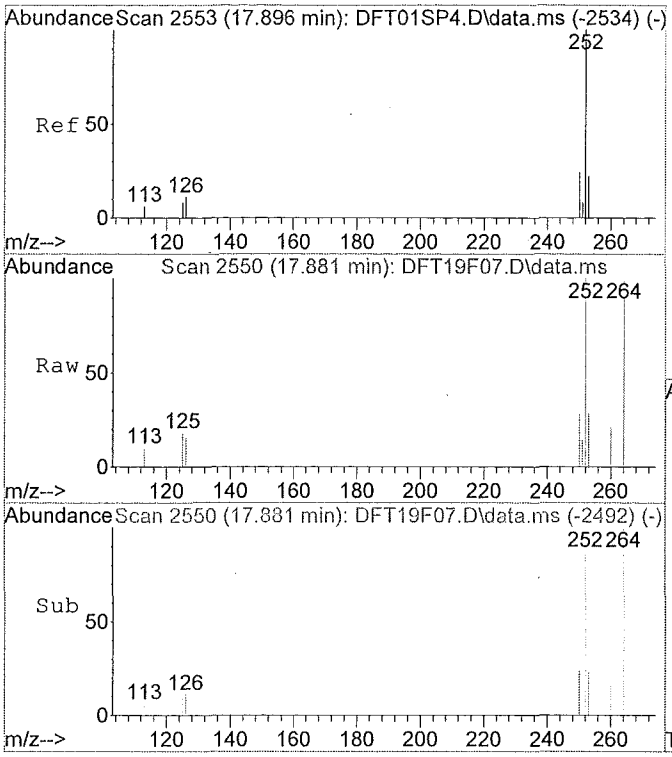


#20
Benzo(b)fluoranthene
Concen: 0.07 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:252 Resp: 78994

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	12.4	0.0	0.0#
0	0.0	0.0	0.0

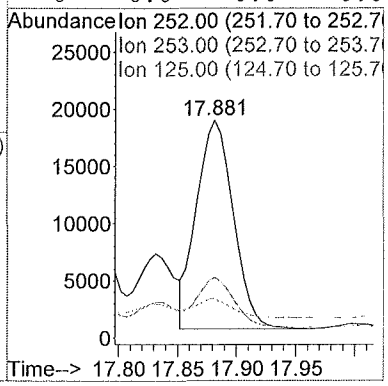


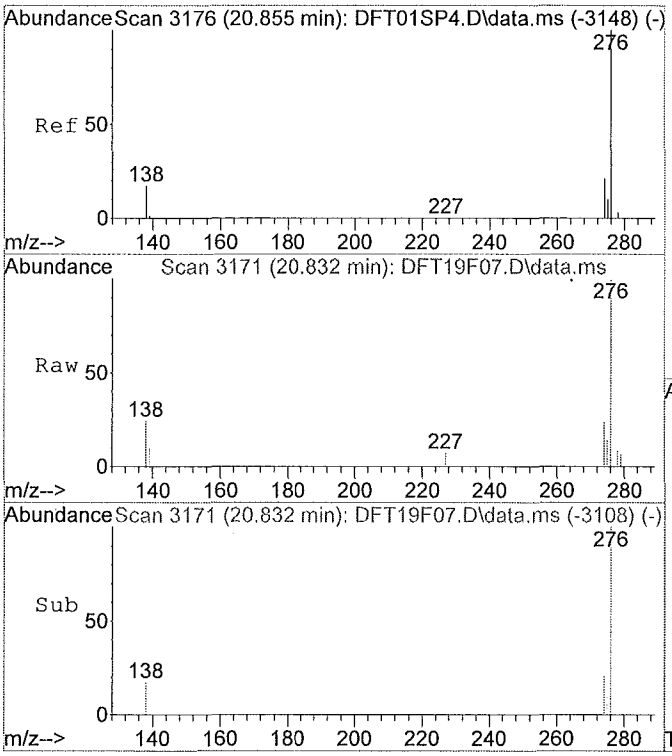


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:252 Resp: 39712

Ion	Ratio	Lower	Upper
252	100		
253	24.9	15.0	27.8
125	9.4	0.0	0.0#
0	0.0	0.0	0.0

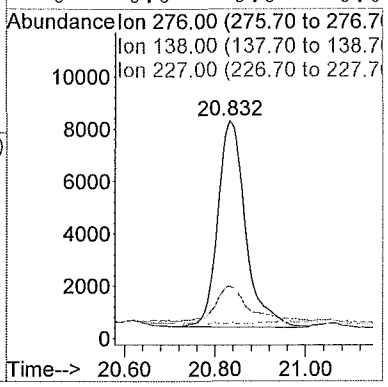


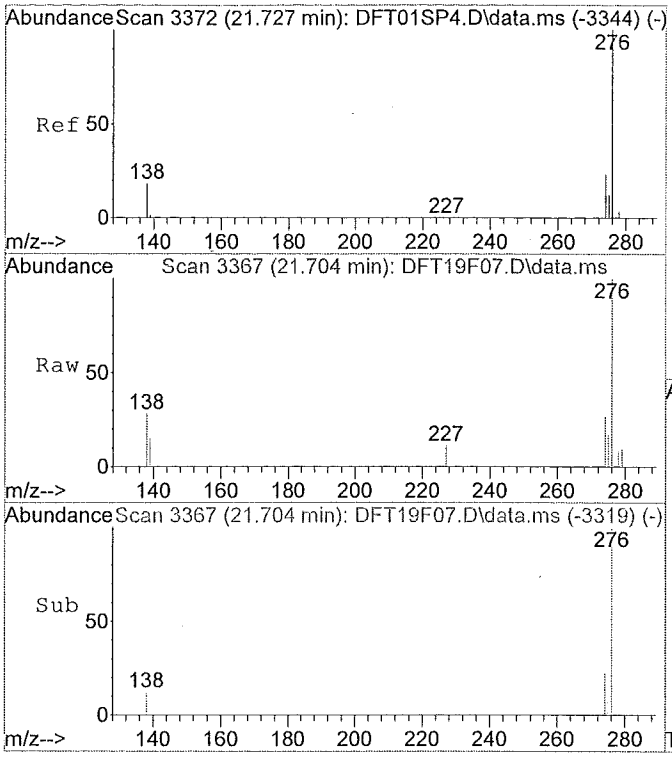


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:276 Resp: 33260

Ion	Ratio	Lower	Upper
276	100		
138	18.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

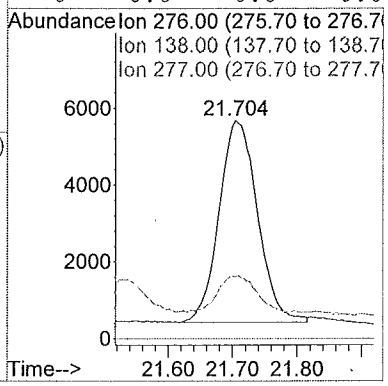




#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.70 min Scan# 3367
Delta R.T. -0.02 min
Lab File: DFT19F07.D
Acq: 06/04/2015 22:00

Tgt Ion:276 Resp: 21662

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.

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT07F08

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

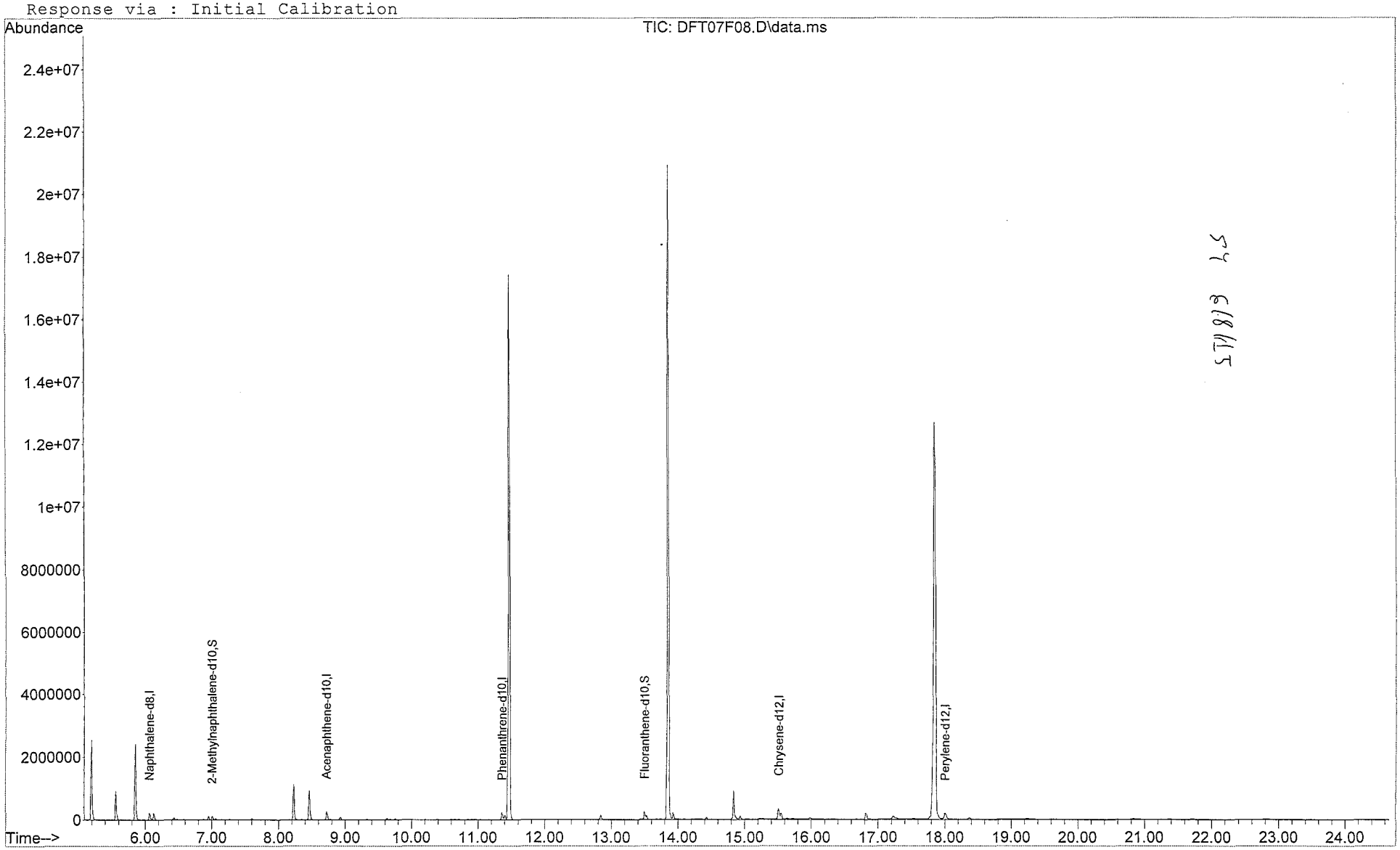
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.81	J
91-57-6	2-Methylnaphthalene	1.2	J
208-96-8	Acenaphthylene	1.0	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	5.4	
120-12-7	Anthracene	1.2	J
206-44-0	Fluoranthene	3.4	J
129-00-0	Pyrene	7.4	
56-55-3	Benzo(a)anthracene	3.9	
218-01-9	Chrysene	5.8	
205-99-2	Benzo(b)fluoranthene	4.0	
207-08-9	Benzo(k)fluoranthene	1.2	J
50-32-8	Benzo(a)pyrene	2.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.4	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT07F08.D Vial: 7
Acq On : 06/04/2015 16:03 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:55:59 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT07F08.D Vial: 7
Acq On : 06/04/2015 16:03 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:55:59 2015 Results File: DSOM_SIMJ2.RES

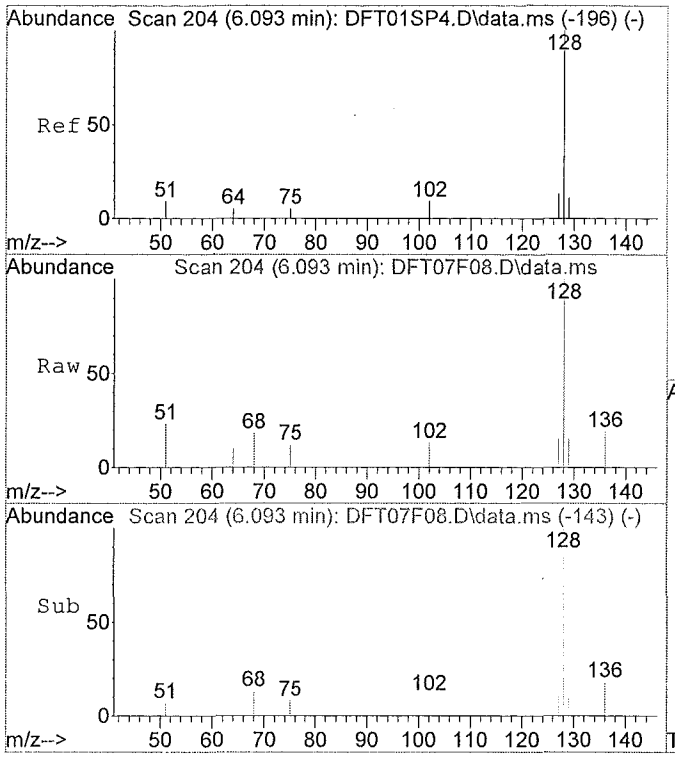
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	258373	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	182792	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	312057	0.40 ug/ml	
15) Chrysene-d12	15.51	240	330591	0.40 ug/ml	
19) Perylene-d12	18.01	264	367164	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	116257	0.279ug/mL	
13) Fluoranthene-d10	13.50	212	277065	0.325ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	14579	0.022ug/ml	93
4) 2-Methylnaphthalene	7.06	142	14407	0.033ug/ml	100
6) Acenaphthylene	8.49	152	21520	0.027ug/ml	77
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	129910	0.145ug/ml	99
12) Anthracene	11.50	178	27388	0.031ug/ml	82
14) Fluoranthene	13.53	202	92046	0.090ug/ml	94
16) Pyrene	13.88	202	203824	0.197ug/ml	1
17) Benzo(a)anthracene	15.50	228	92001	0.104ug/ml	87
18) Chrysene	15.55	228	145469	0.156ug/ml	94
20) Benzo(b)fluoranthene	17.23	252	122540	0.107ug/ml	98
21) Benzo(k)fluoranthene	17.27	252	37022	0.031ug/ml	97
22) Benzo(a)pyrene	17.89	252	72938	0.067ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.84	276	60267	0.063ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	47867	0.044ug/ml	72

SY m 6/18/15

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

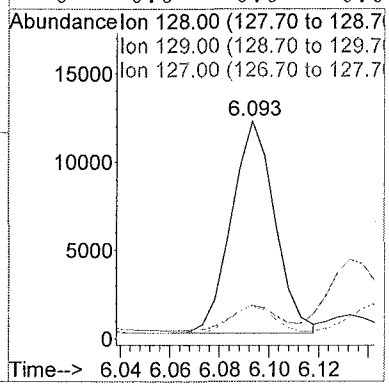
00547

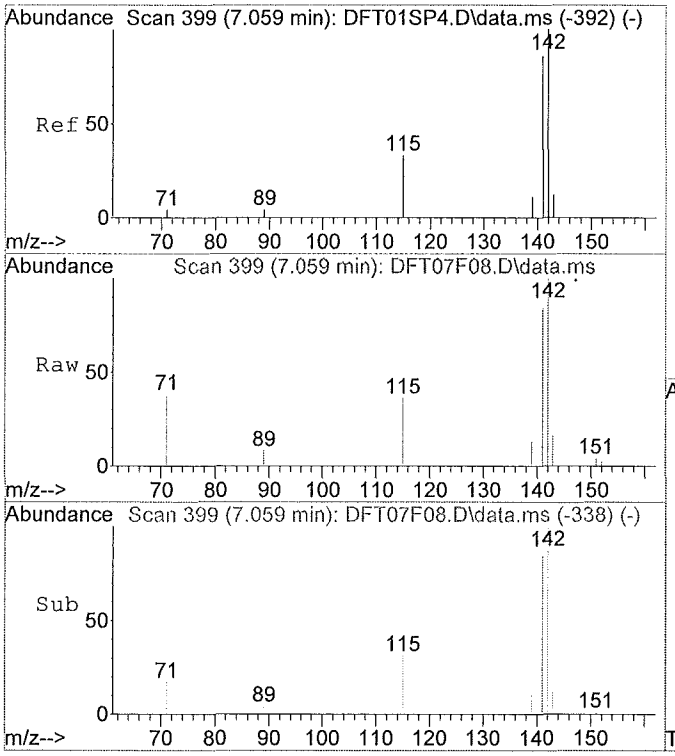


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:128 Resp: 14579

Ion	Ratio	Lower	Upper
128	100		
129	13.0	0.0	0.0#
127	12.7	11.1	20.5
0	0.0	0.0	0.0

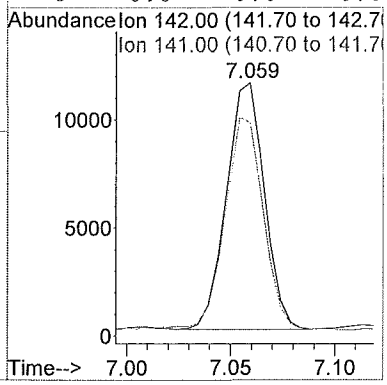


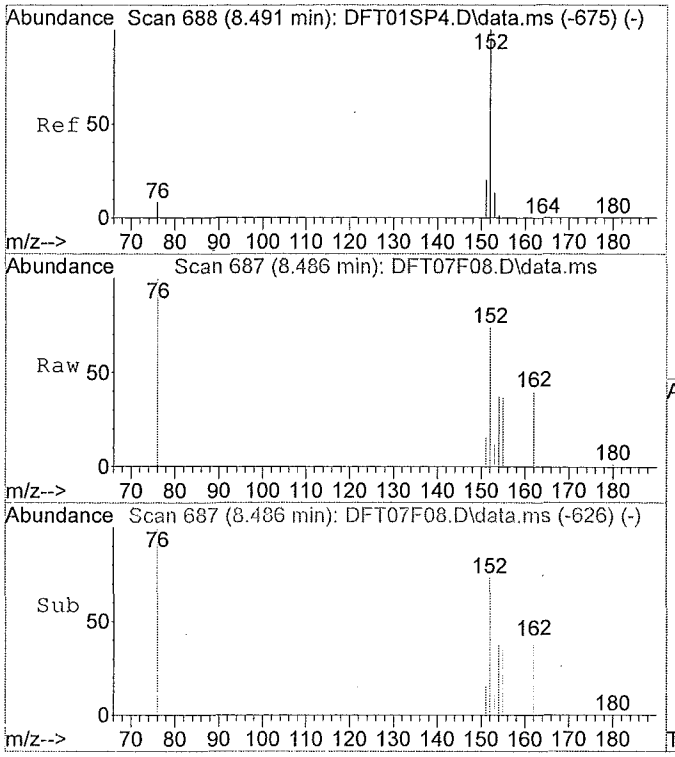


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:142 Resp: 14407

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

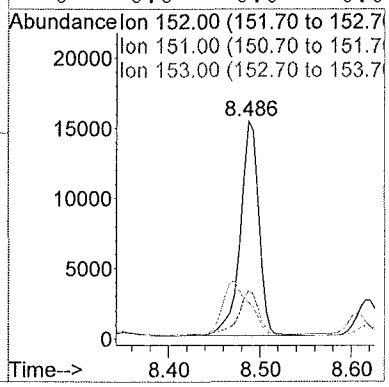


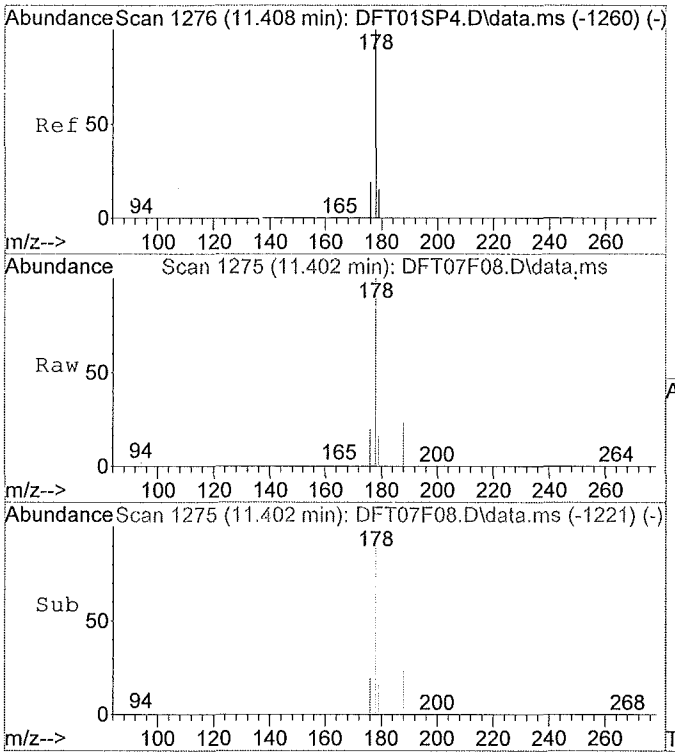


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:152 Resp: 21520

Ion	Ratio	Lower	Upper
152	100		
151	22.5	15.5	28.7
153	37.0	8.8	16.4#
0	0.0	0.0	0.0

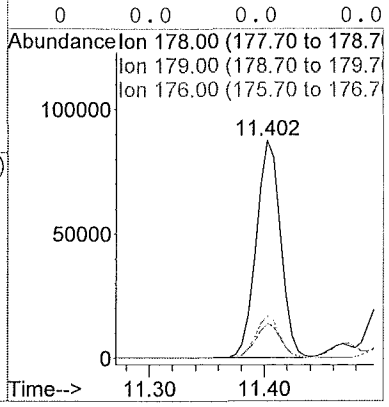


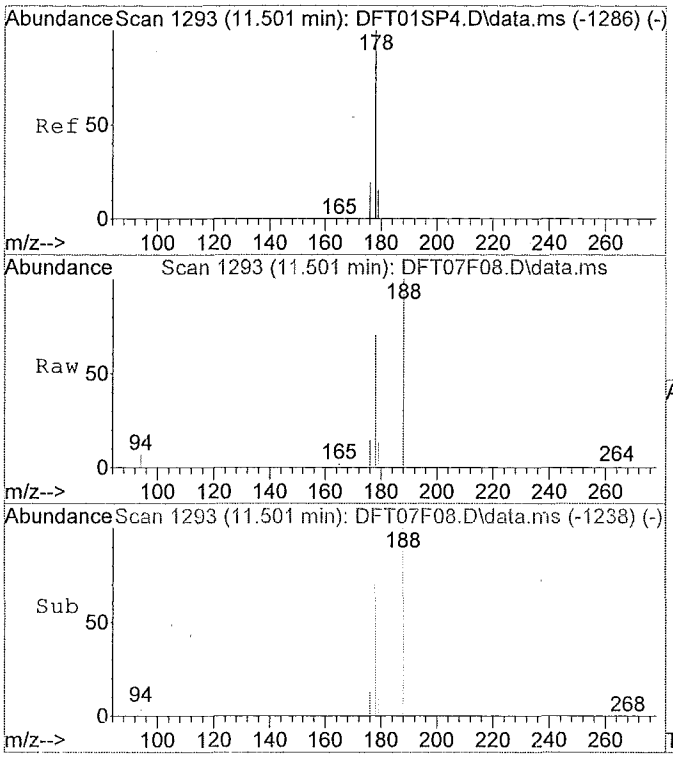


#11
Phenanthrene
Concen: 0.14 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:178 Resp: 129910

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

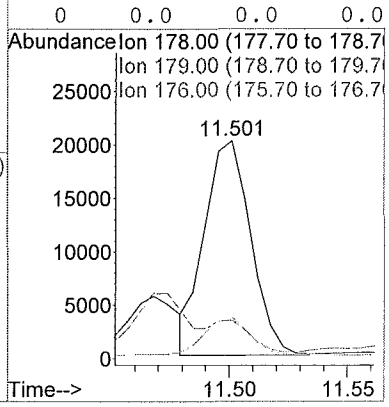


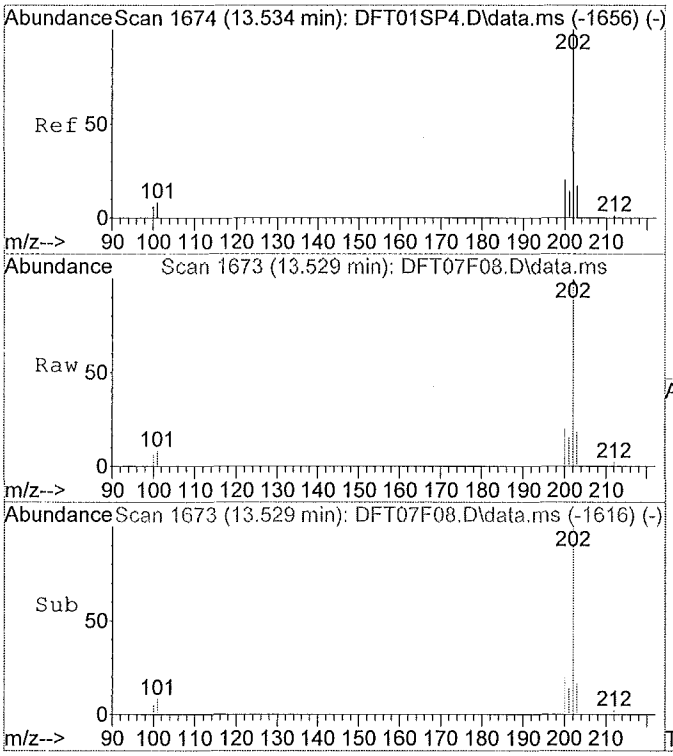


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:178 Resp: 27388

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	19.8	13.9	25.7
0	0.0	0.0	0.0

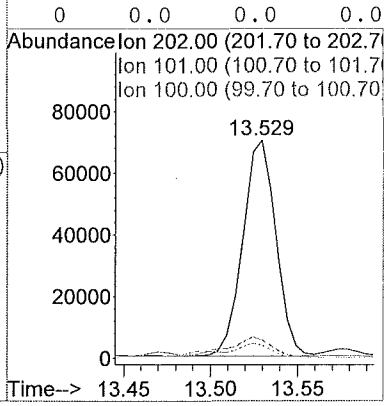


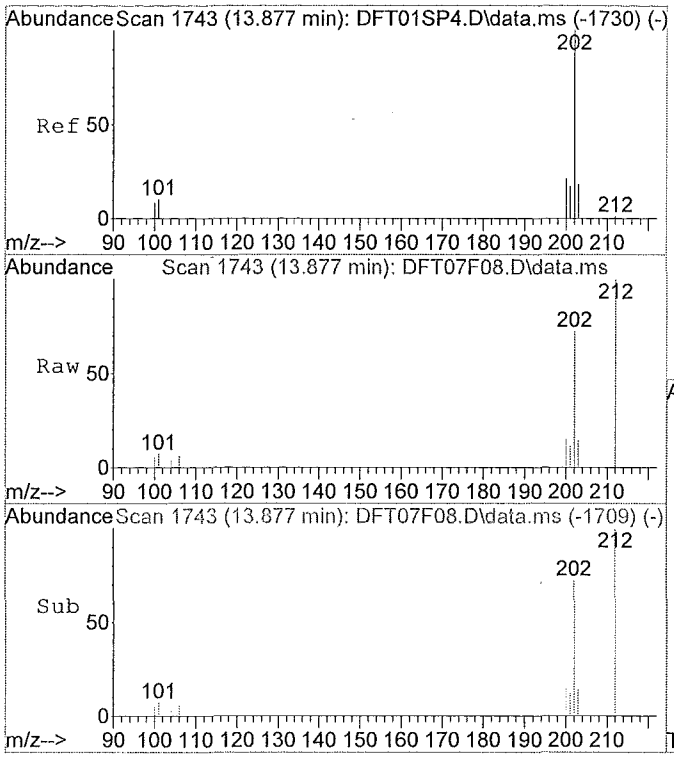


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:202 Resp: 92046

Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.4	17.6
100	5.9	0.0	0.0#
0	0.0	0.0	0.0

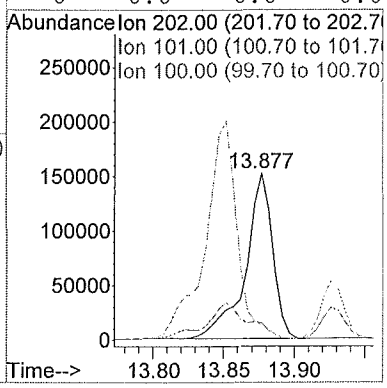


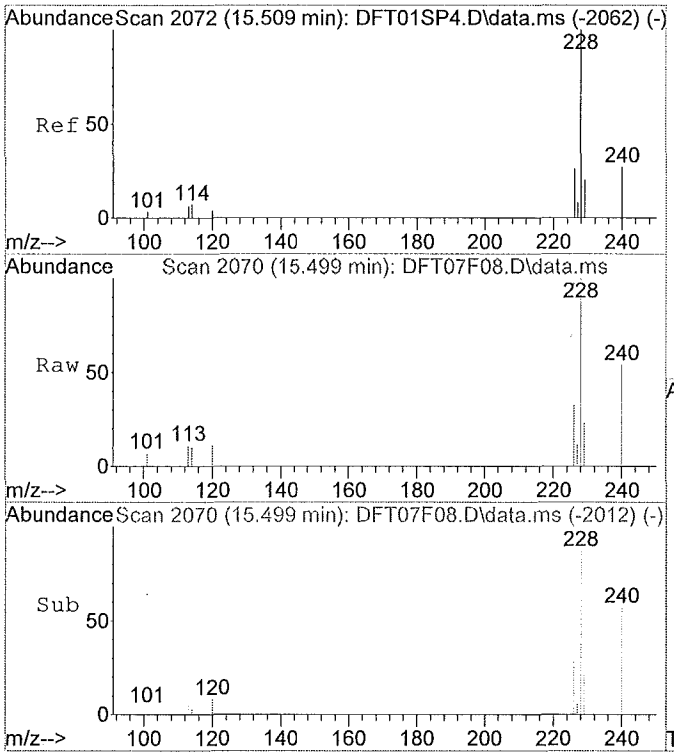


#16
Pyrene
Concen: 0.20 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:202 Resp: 203824

Ion	Ratio	Lower	Upper
202	100		
101	34.9	10.6	19.6#
100	156.3	9.4	17.4#
0	0.0	0.0	0.0

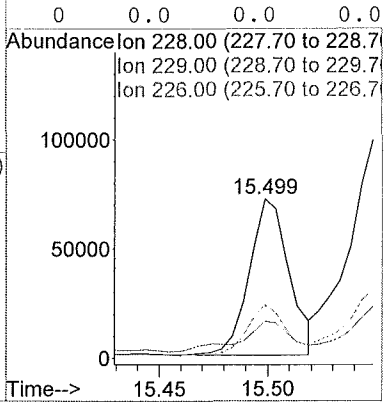


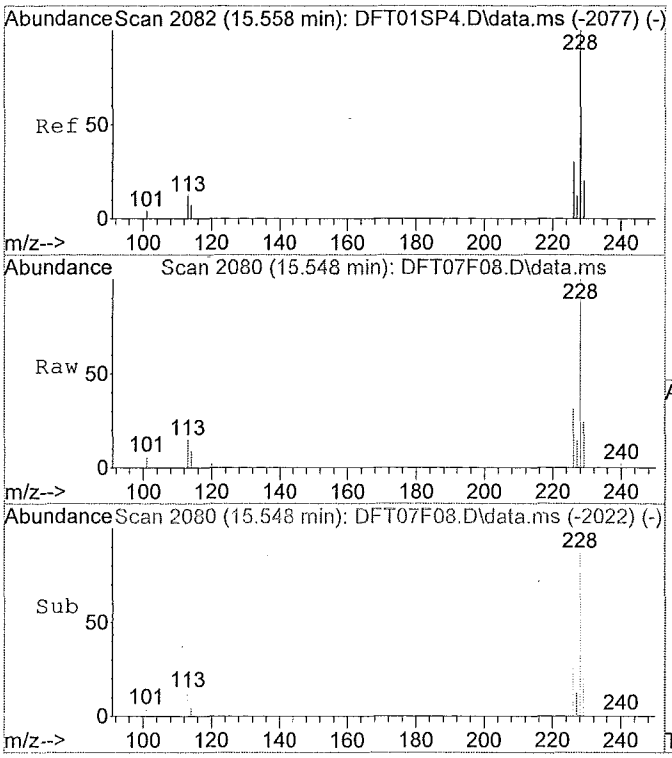


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:228 Resp: 92001

Ion	Ratio	Lower	Upper
228	100		
229	27.5	14.5	26.9#
226	32.5	18.5	34.3
0	0.0	0.0	0.0

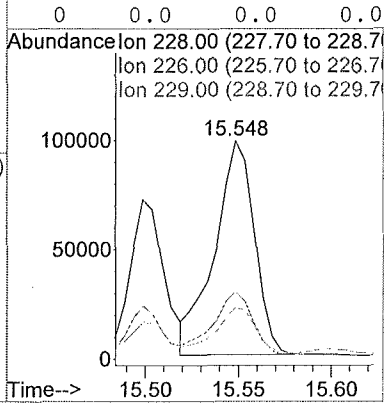


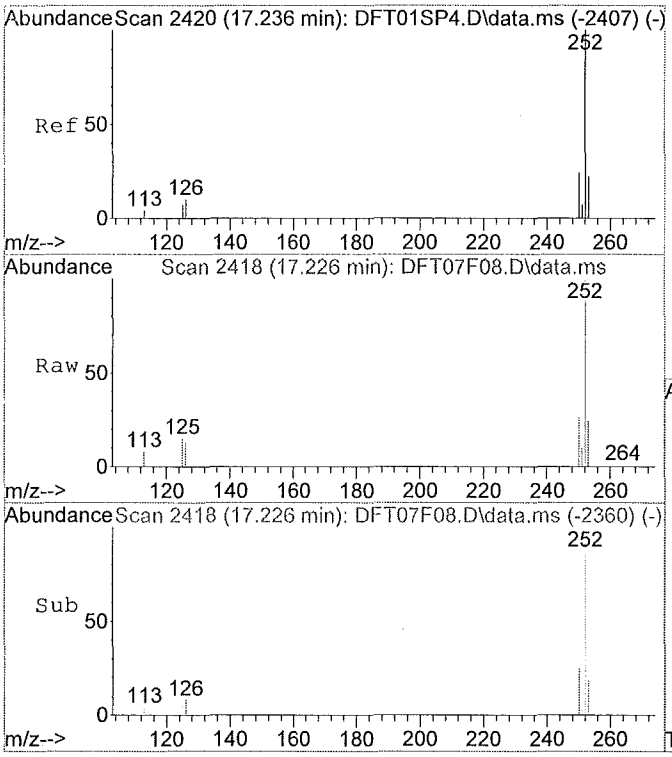


#18
Chrysene
Concen: 0.16 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:228 Resp: 145469

Ion	Ratio	Lower	Upper
228	100		
226	31.8	19.7	36.7
229	22.7	14.5	26.9
0	0.0	0.0	0.0

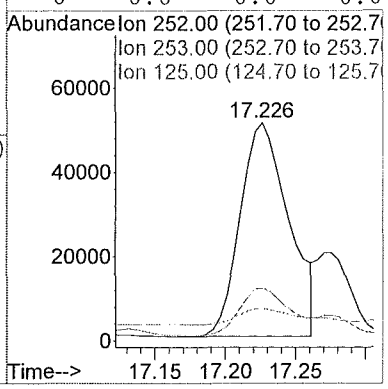


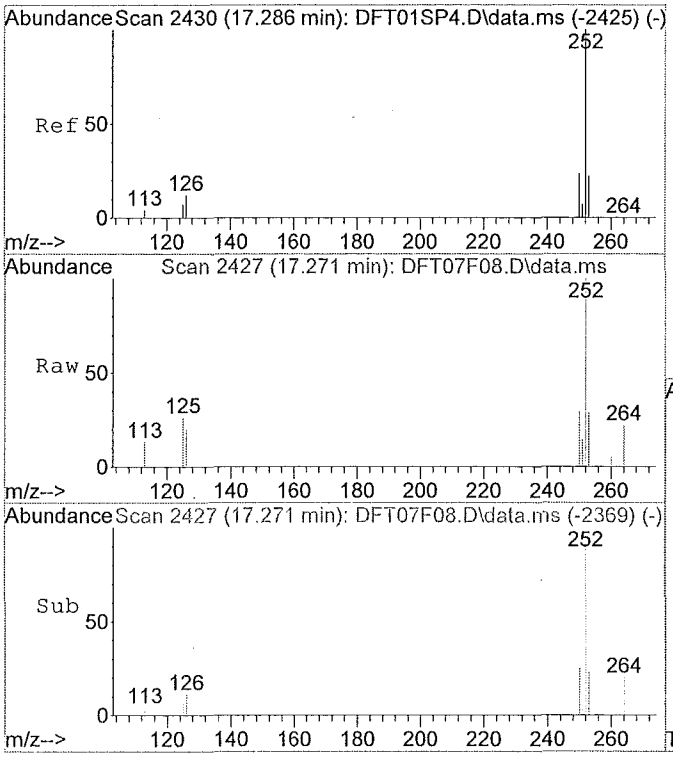


#20
Benzo(b)fluoranthene
Concen: 0.11 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:252 Resp: 122540

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	10.0	0.0	0.0#
0	0.0	0.0	0.0

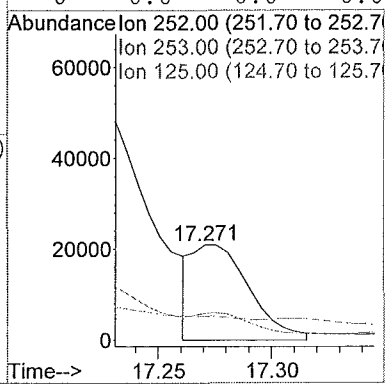


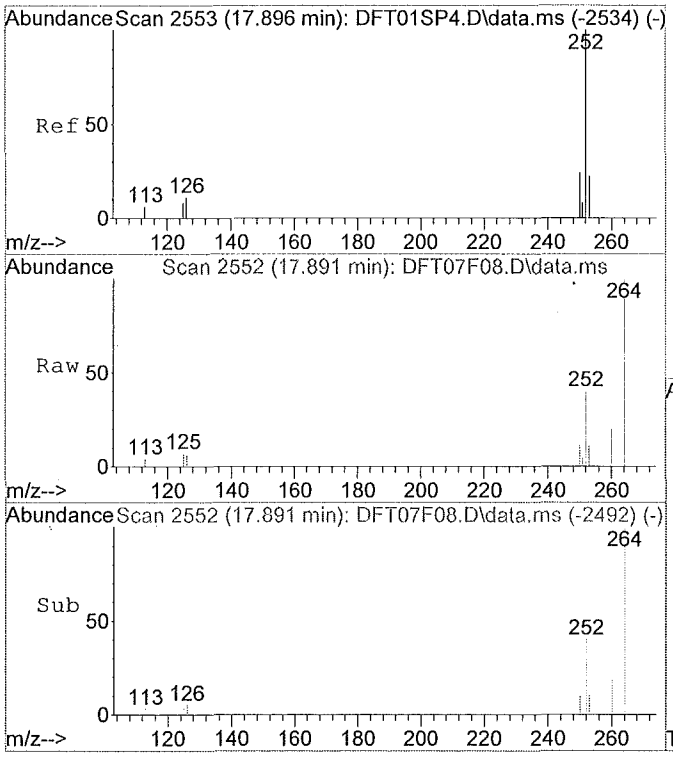


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:252 Resp: 37022

Ion	Ratio	Lower	Upper
252	100		
253	74.9	15.0	27.8#
125	33.1	0.0	0.0#
0	0.0	0.0	0.0

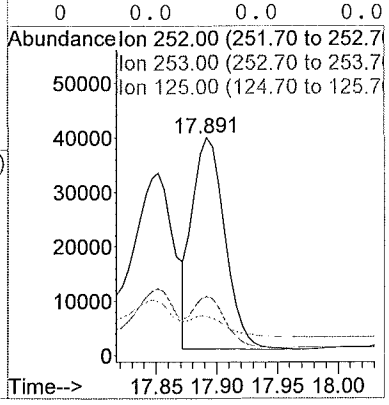


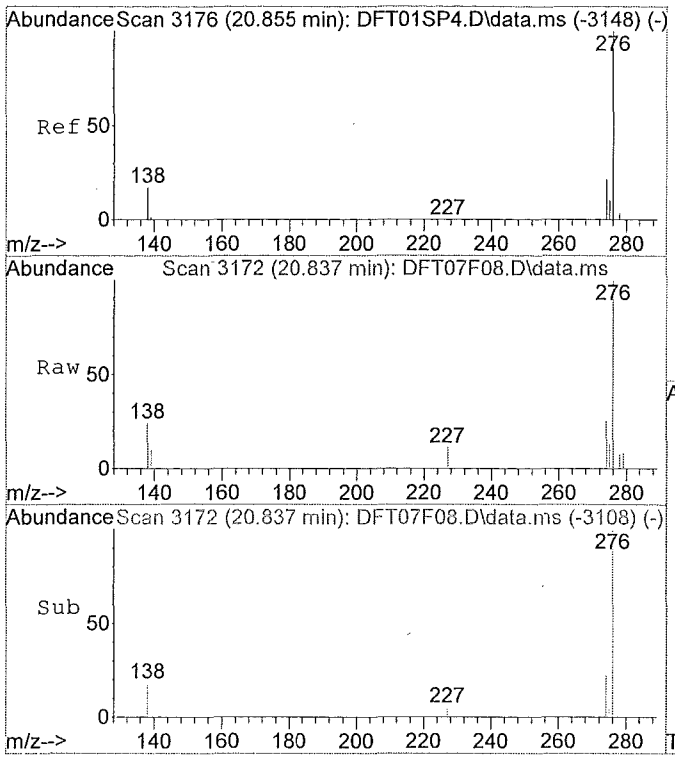


#22
Benzo(a)pyrene
Concen: 0.07 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:252 Resp: 72938

Ion	Ratio	Lower	Upper
252	100		
253	24.9	15.0	27.8
125	9.8	0.0	0.0#
0	0.0	0.0	0.0

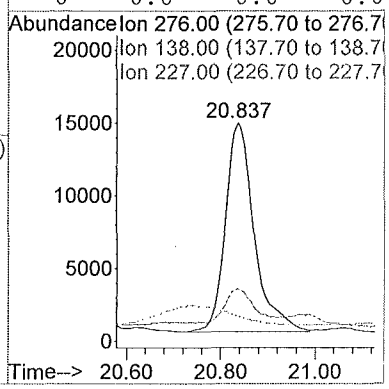


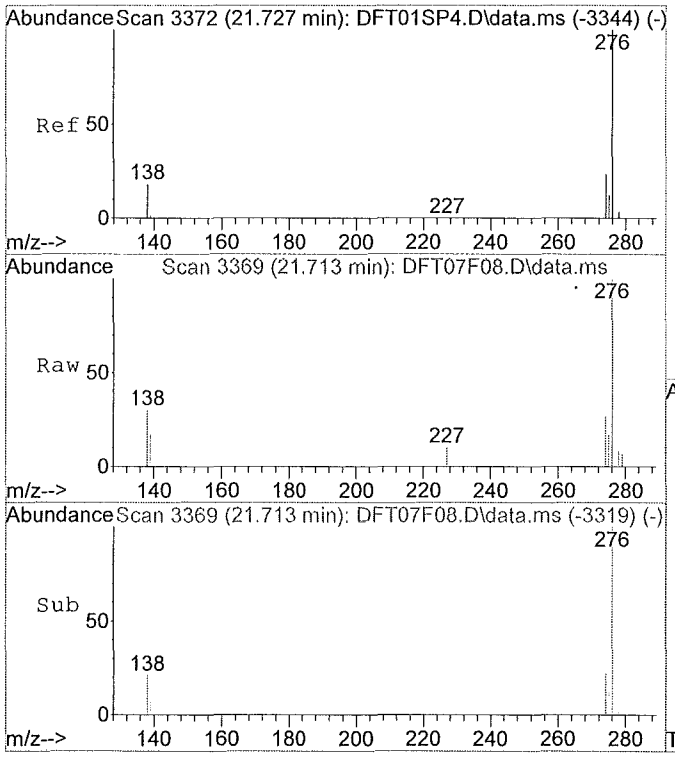


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:276 Resp: 60267

Ion	Ratio	Lower	Upper
276	100		
138	15.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

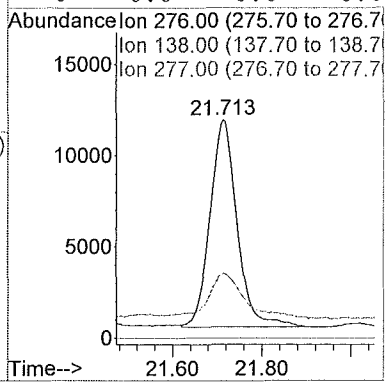




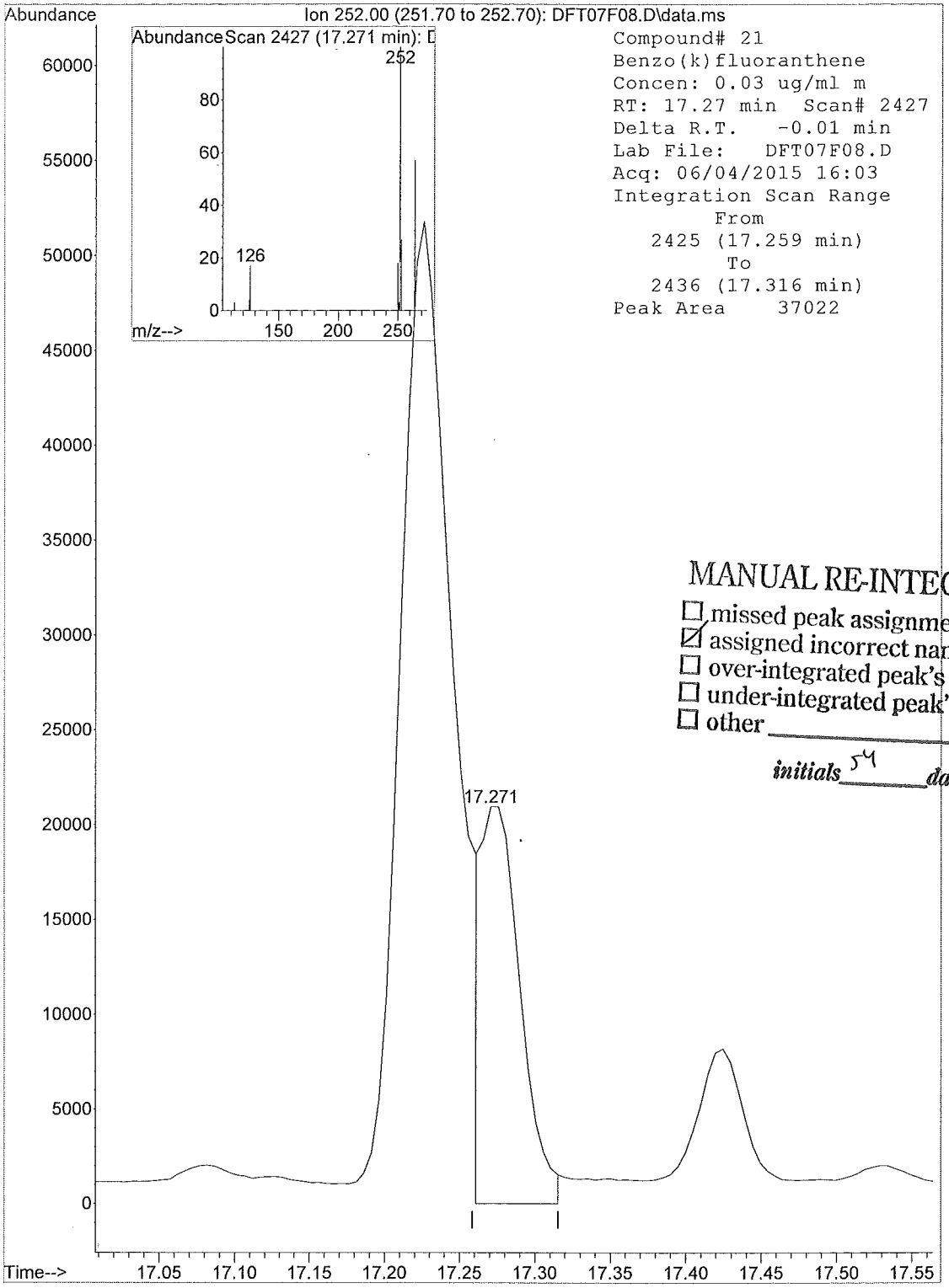
#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:276 Resp: 47867

Ion	Ratio	Lower	Upper
276	100		
138	19.5	16.2	30.0
277	0.0	16.5	30.7#
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* 6/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT20F09

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 10.0

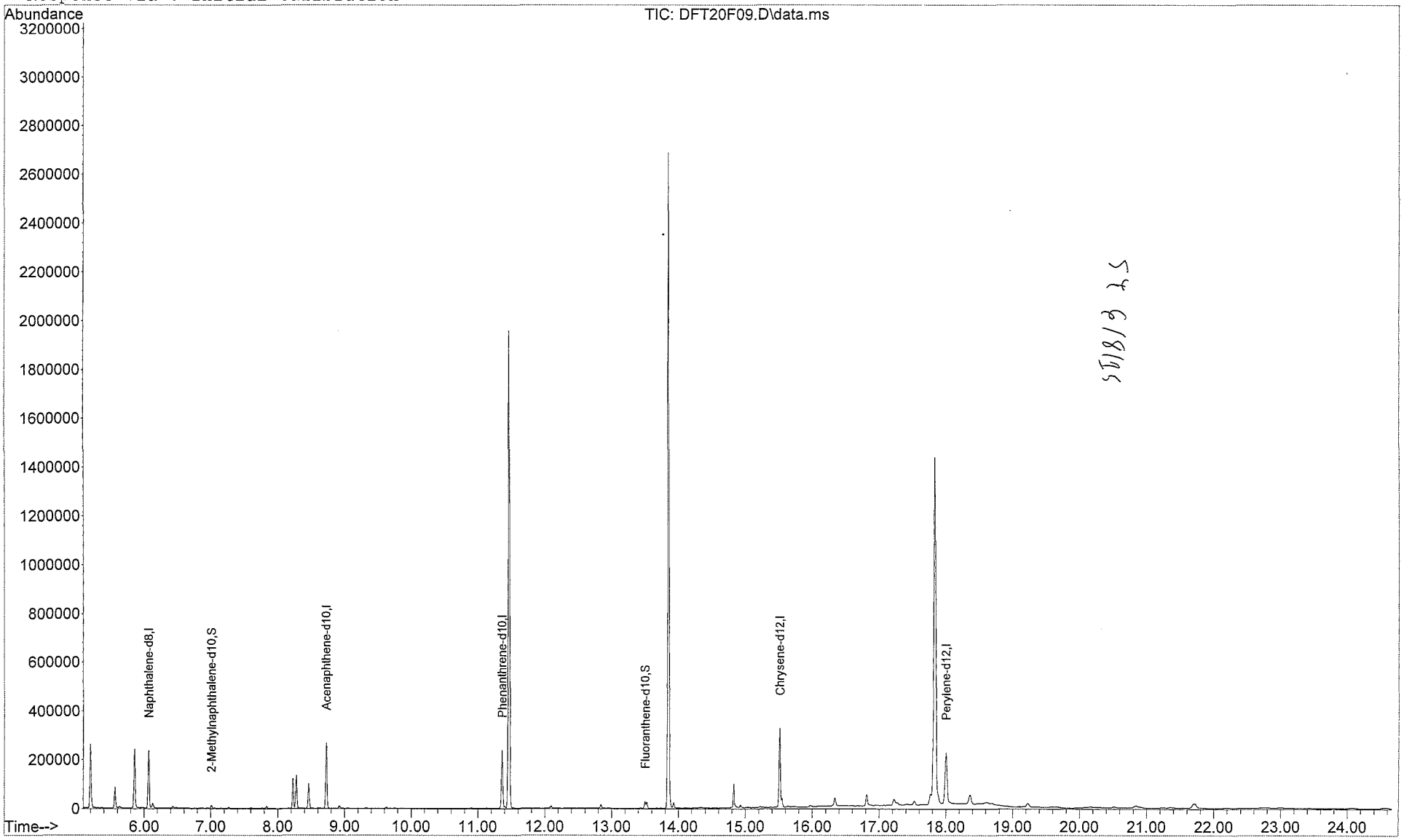
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	81.	U
85-01-8	Phenanthrene	40.	U
120-12-7	Anthracene	40.	U
206-44-0	Fluoranthene	40.	U
129-00-0	Pyrene	9.9	J
56-55-3	Benzo(a)anthracene	40.	U
218-01-9	Chrysene	11.	J
205-99-2	Benzo(b)fluoranthene	12.	J
207-08-9	Benzo(k)fluoranthene	40.	U
50-32-8	Benzo(a)pyrene	13.	J
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	J
53-70-3	Dibenzo(a,h)anthracene	40.	U
191-24-2	Benzo(g,h,i)perylene	17.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT20F09.D Vial: 18
Acq On : 06/04/2015 22:30 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:56:08 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



SDB/9 25

Quantitation Report

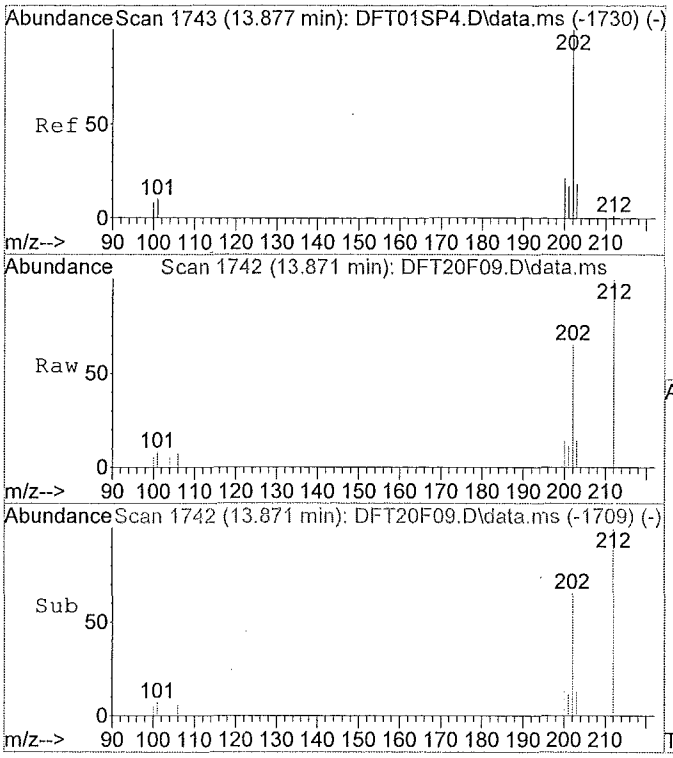
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT20F09.D Vial: 18
Acq On : 06/04/2015 22:30 Operator: DJC
Sample : 1513978009 F9KY6 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:56:08 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	277859	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	180801	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	328420	0.40 ug/ml
15) Chrysene-d12	15.51	240	362076	0.40 ug/ml
19) Perylene-d12	18.00	264	373128	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	13611	0.030ug/mL
13) Fluoranthene-d10	13.50	212	30724	0.034ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	0.00	202		Not Detected	
16) Pyrene	13.87	202	27716	0.024ug/ml	1
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.55	228	26815	0.026ug/ml	94
20) Benzo(b)fluoranthene	17.22	252	33567	0.029ug/ml	93
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	35125	0.032ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.84	276	22953	0.024ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	46918	0.043ug/ml	73

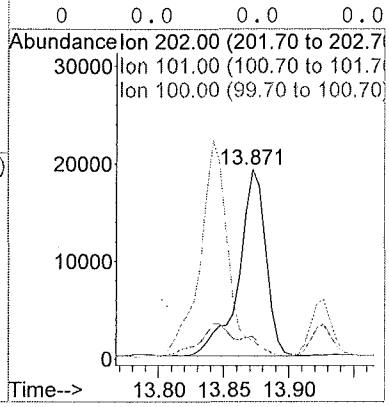
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

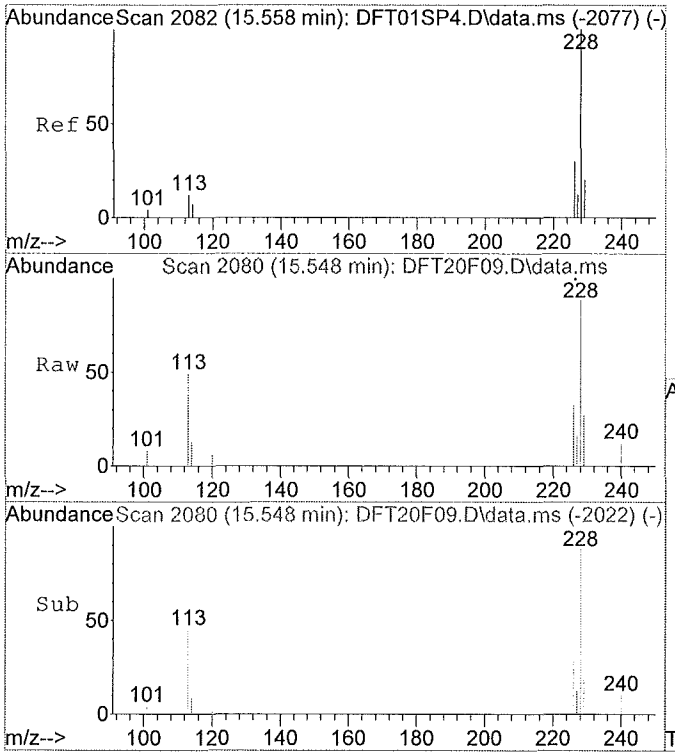


#16
Pyrene
Concen: 0.02 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.01 min
Lab File: DFT20F09.D
Acq: 06/04/2015 22:30

Tgt Ion:202 Resp: 27716

Ion	Ratio	Lower	Upper
202	100		
101	21.7	10.6	19.6#
100	123.5	9.4	17.4#
0	0.0	0.0	0.0

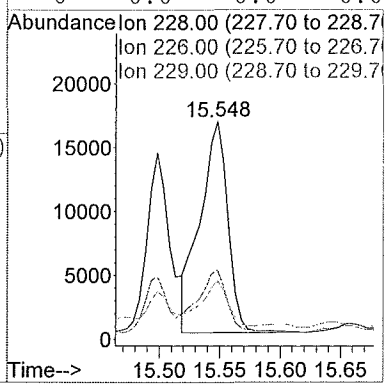


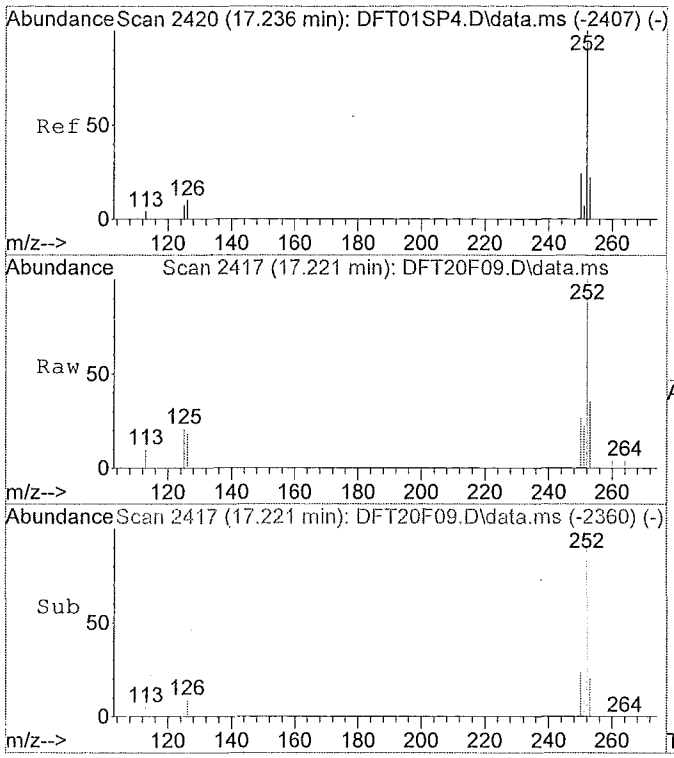


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT20F09.D
Acq: 06/04/2015 22:30

Tgt Ion:228 Resp: 26815

Ion	Ratio	Lower	Upper
228	100		
226	32.1	19.7	36.7
229	22.4	14.5	26.9
0	0.0	0.0	0.0

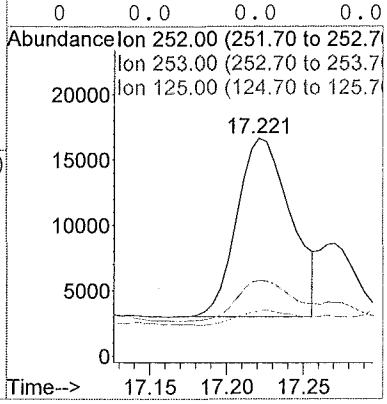


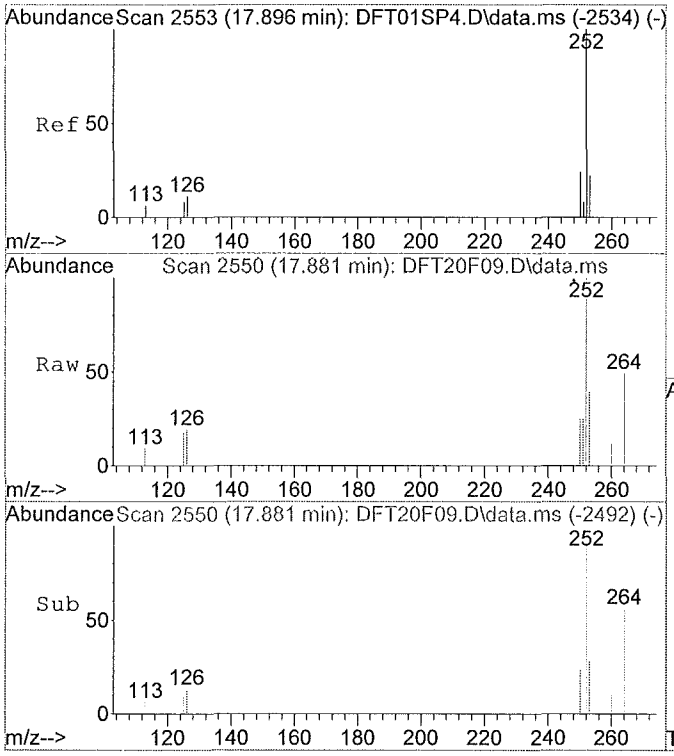


#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT20F09.D
Acq: 06/04/2015 22:30

Tgt Ion:252 Resp: 33567

Ion	Ratio	Lower	Upper
252	100		
253	25.2	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

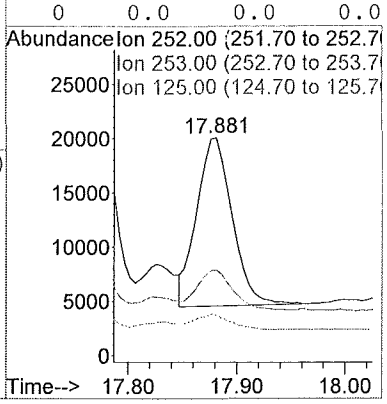


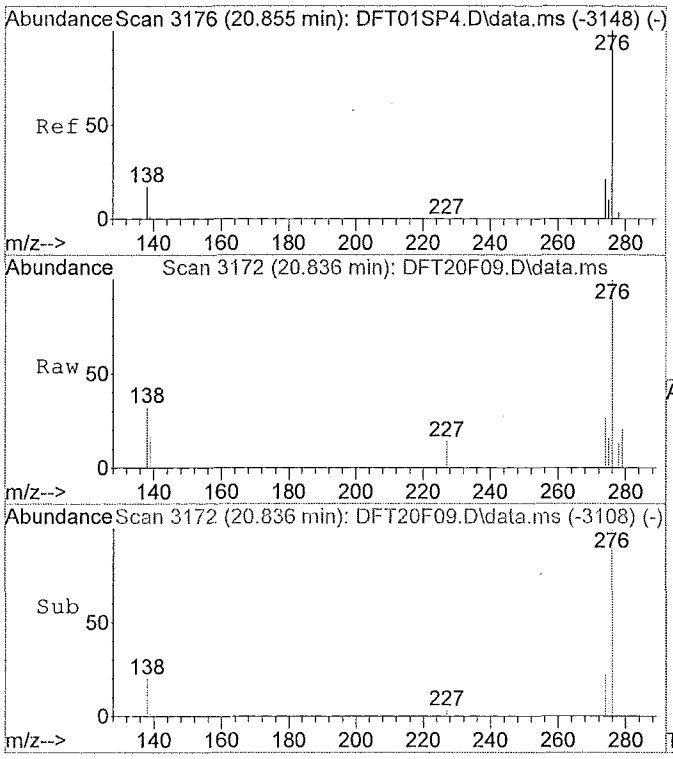


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT20F09.D
Acq: 06/04/2015 22:30

Tgt Ion:252 Resp: 35125

Ion	Ratio	Lower	Upper
252	100		
253	25.6	15.0	27.8
125	9.9	0.0	0.0#
0	0.0	0.0	0.0

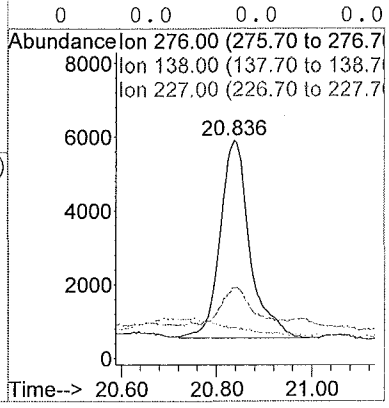


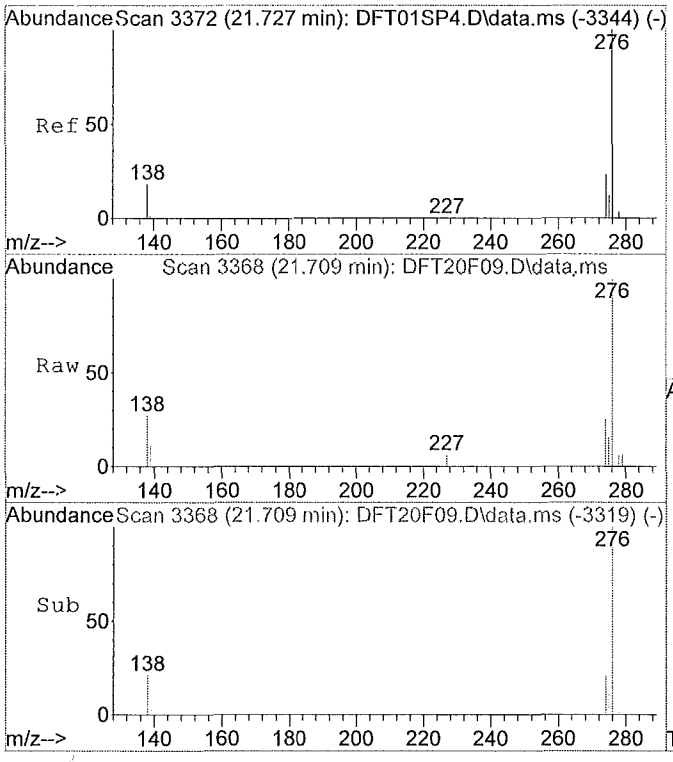


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.02 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT20F09.D
Acq: 06/04/2015 22:30

Tgt Ion:276 Resp: 22953

Ion	Ratio	Lower	Upper
276	100		
138	17.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

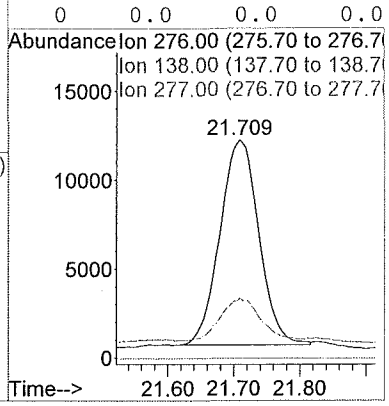




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFT20F09.D
Acq: 06/04/2015 22:30

Tgt Ion:276 Resp: 46918

Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFT21F10

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 10.0

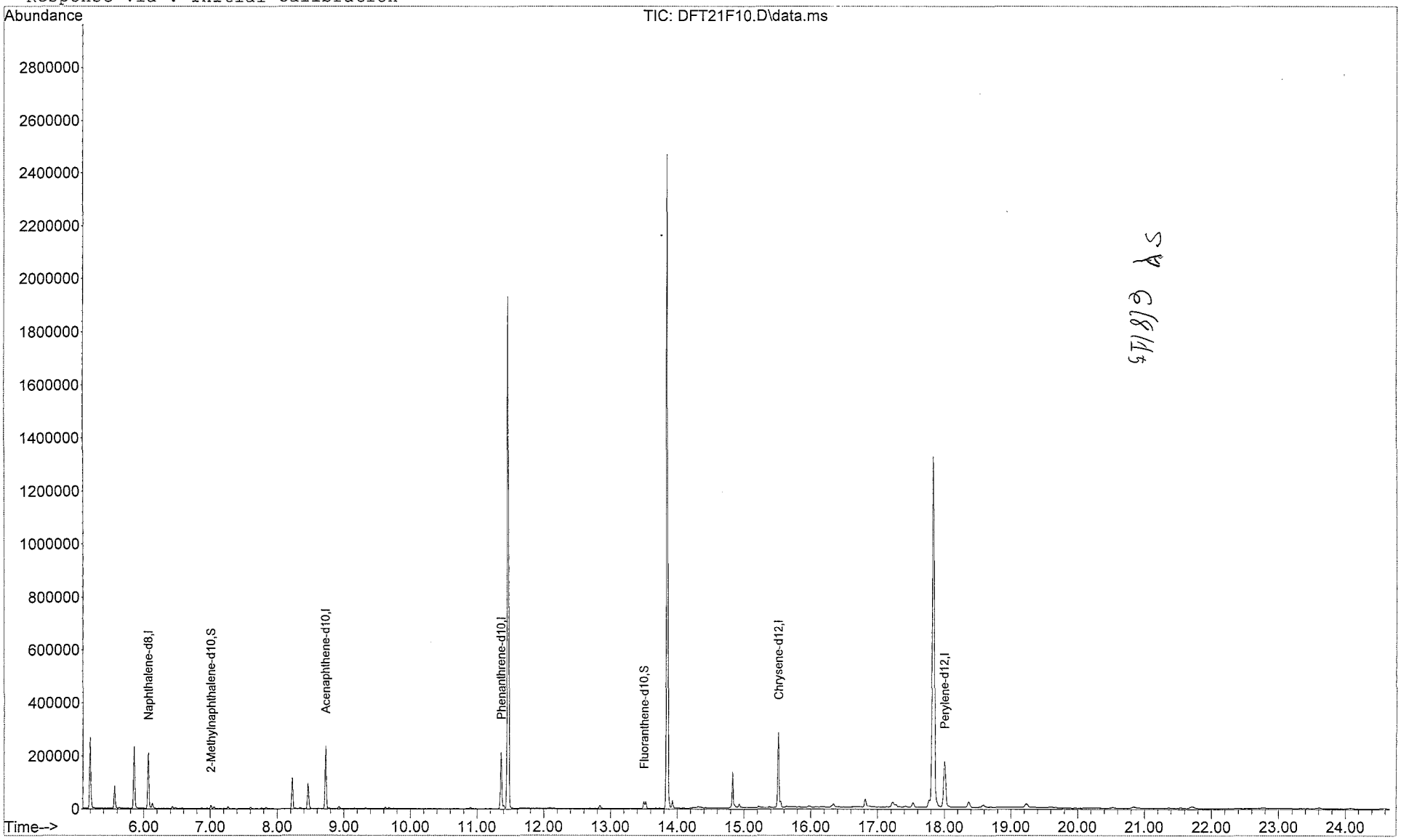
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	38.	U
91-57-6	2-Methylnaphthalene	38.	U
208-96-8	Acenaphthylene	38.	U
83-32-9	Acenaphthene	38.	U
86-73-7	Fluorene	38.	U
87-86-5	Pentachlorophenol	77.	U
85-01-8	Phenanthrene	38.	U
120-12-7	Anthracene	38.	U
206-44-0	Fluoranthene	7.9	J
129-00-0	Pyrene	9.6	J
56-55-3	Benzo(a)anthracene	38.	U
218-01-9	Chrysene	8.1	J
205-99-2	Benzo(b)fluoranthene	9.8	J
207-08-9	Benzo(k)fluoranthene	38.	U
50-32-8	Benzo(a)pyrene	38.	U
193-39-5	Indeno(1,2,3-cd)pyrene	38.	U
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\04JUN15\DFT21F10.D Vial: 19
Acq On : 06/04/2015 23:00 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:56:38 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



SV 6/8/15

Quantitation Report

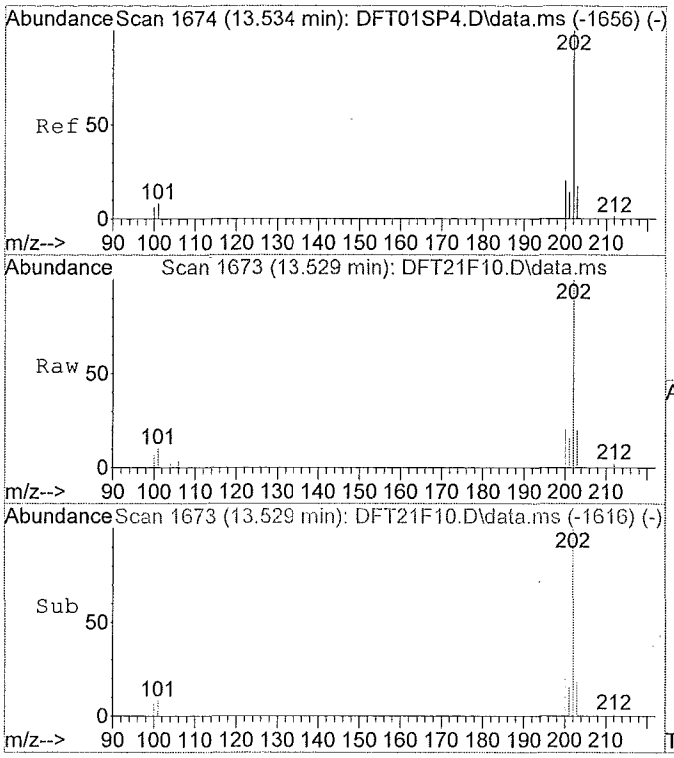
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT21F10.D Vial: 19
Acq On : 06/04/2015 23:00 Operator: DJC
Sample : 1513978010 F9KY7 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:56:38 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	241292	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	156272	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	284353	0.40 ug/ml
15) Chrysene-d12	15.51	240	310845	0.40 ug/ml
19) Perylene-d12	18.00	264	314590	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	13380	0.034ug/mL
13) Fluoranthene-d10	13.50	212	28568	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	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	19352	0.021ug/ml	97
16) Pyrene	13.87	202	24360	0.025ug/ml	1
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.55	228	18488	0.021ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	25084	0.026ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	0.00	252		Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

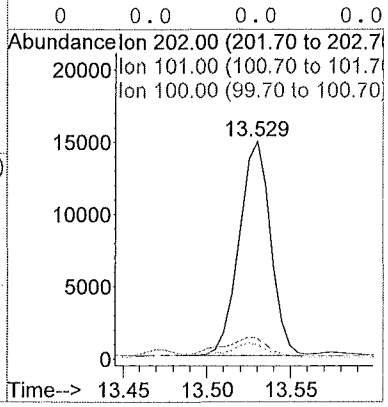
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

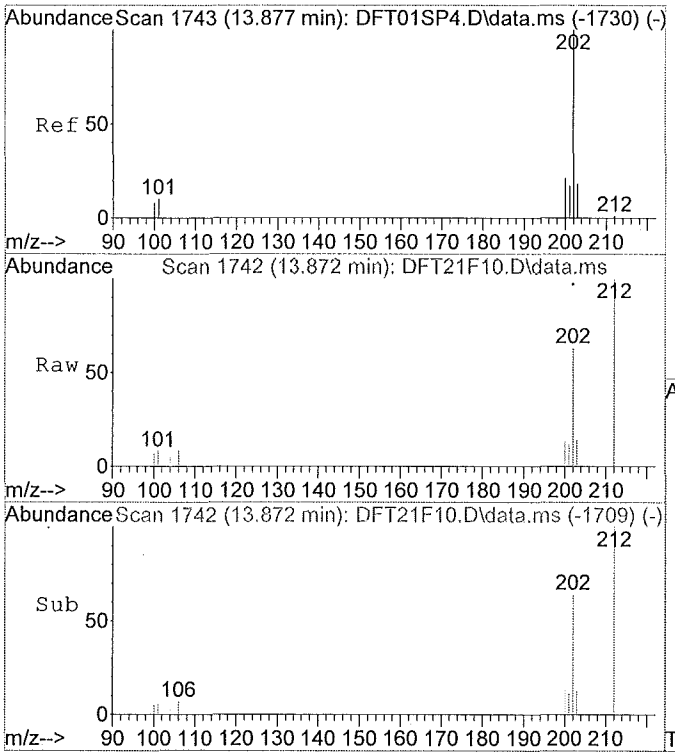


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT21F10.D
Acq: 06/04/2015 23:00

Tgt Ion:202 Resp: 19352

Ion	Ratio	Lower	Upper
202	100		
101	12.4	9.4	17.6
100	10.1	0.0	0.0#
0	0.0	0.0	0.0

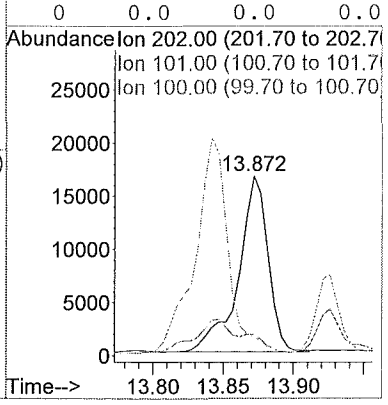


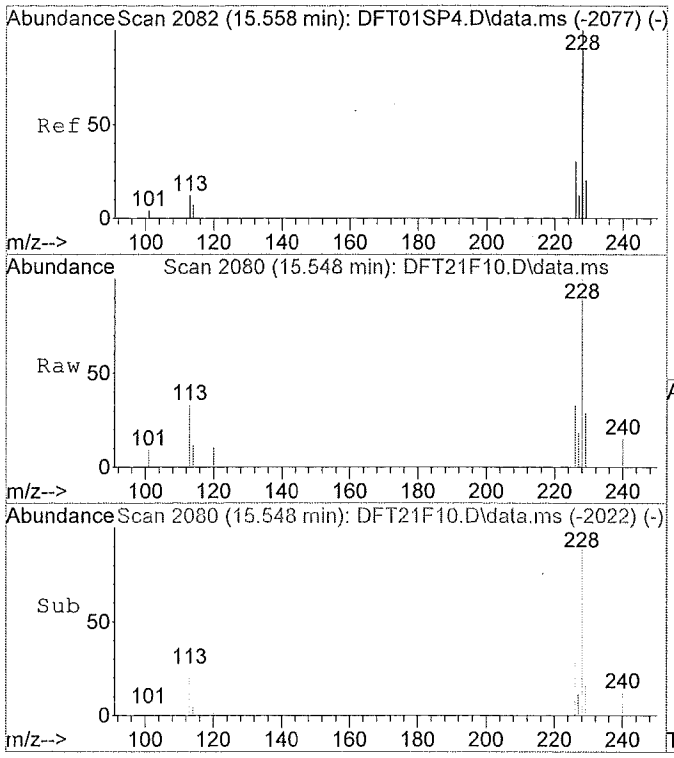


#16
Pyrene
Concen: 0.02 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT21F10.D
Acq: 06/04/2015 23:00

Tgt Ion:202 Resp: 24360

Ion	Ratio	Lower	Upper
202	100		
101	24.8	10.6	19.6#
100	139.2	9.4	17.4#
0	0.0	0.0	0.0

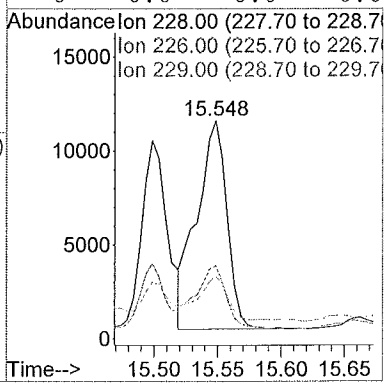


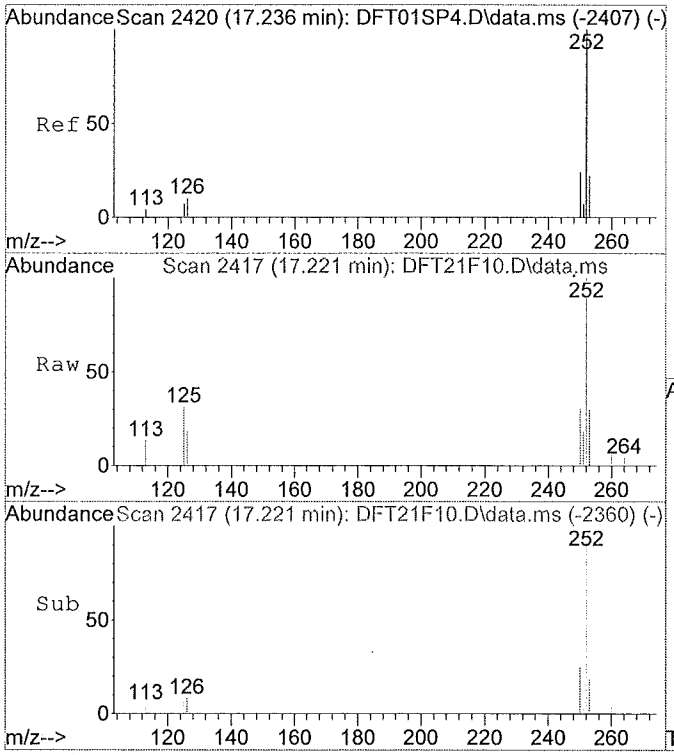


#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT21F10.D
Acq: 06/04/2015 23:00

Tgt Ion:228 Resp: 18488

Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	18.6	14.5	26.9
0	0.0	0.0	0.0

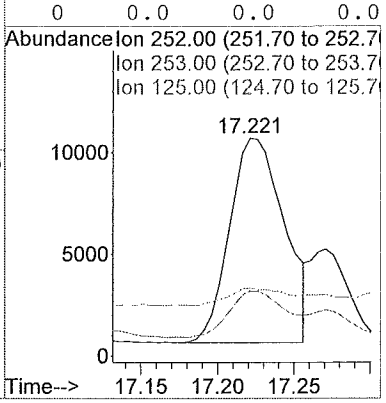




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT21F10.D
Acq: 06/04/2015 23:00

Tgt Ion:252 Resp: 25084

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT22F11

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 10.0

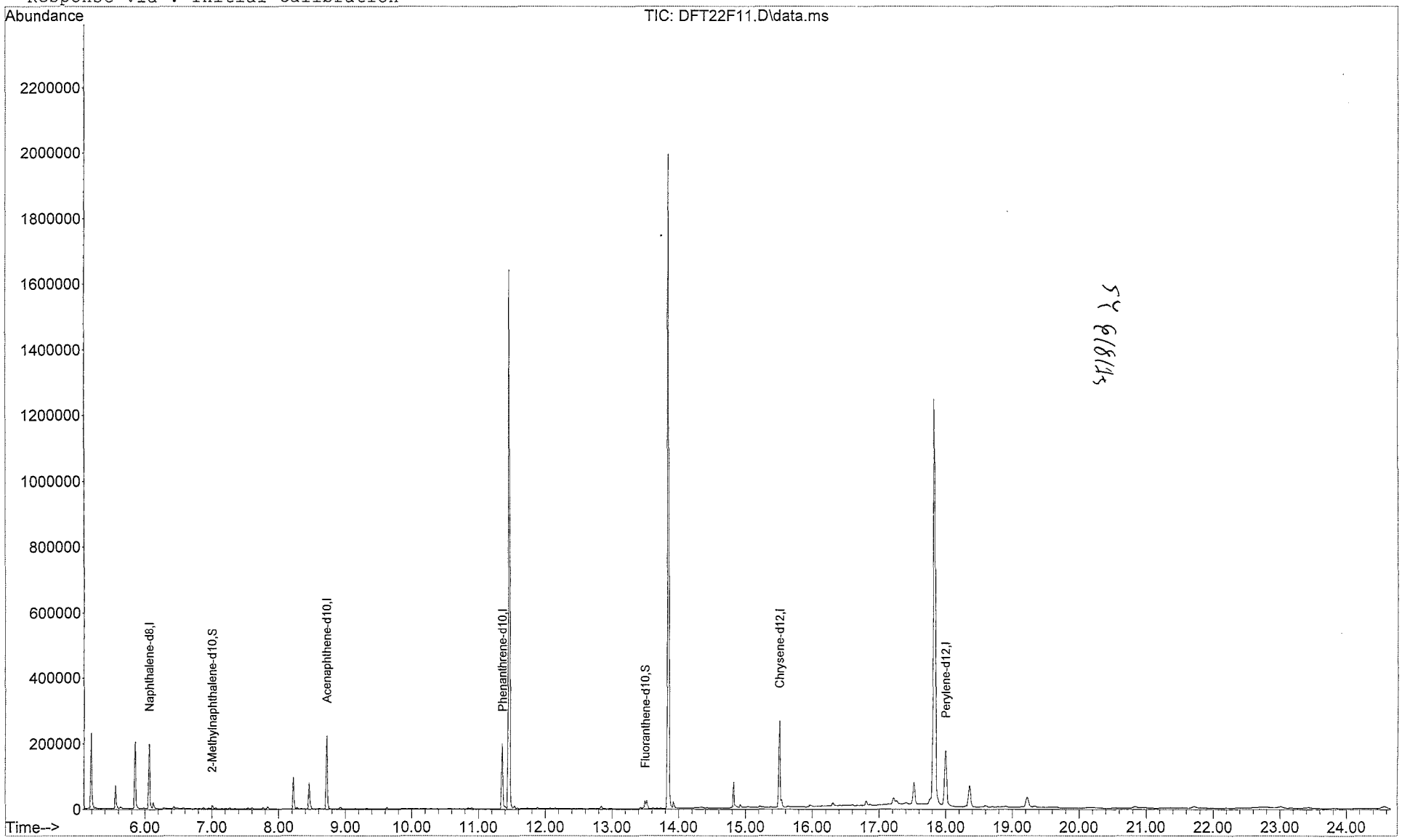
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	82.	U
85-01-8	Phenanthrene	40.	U
120-12-7	Anthracene	40.	U
206-44-0	Fluoranthene	8.6	J
129-00-0	Pyrene	10.	J
56-55-3	Benzo(a)anthracene	40.	U
218-01-9	Chrysene	9.2	J
205-99-2	Benzo(b)fluoranthene	11.	J
207-08-9	Benzo(k)fluoranthene	40.	U
50-32-8	Benzo(a)pyrene	8.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	40.	U
53-70-3	Dibenzo(a,h)anthracene	40.	U
191-24-2	Benzo(g,h,i)perylene	40.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT22F11.D Vial: 20
Acq On : 06/04/2015 23:29 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:57:08 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

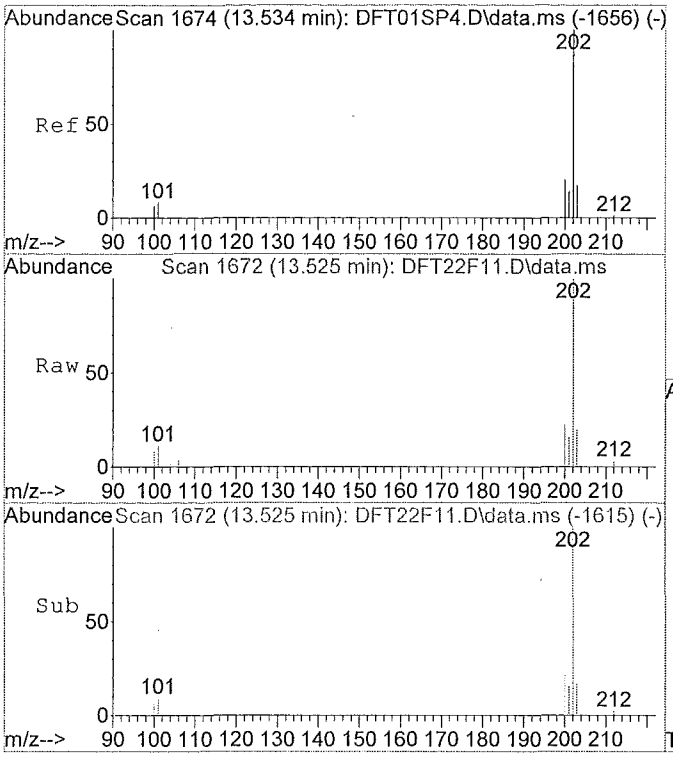
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT22F11.D Vial: 20
Acq On : 06/04/2015 23:29 Operator: DJC
Sample : 1513978011 F9L28 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:57:08 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	232485	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	150196	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	271280	0.40 ug/ml
15) Chrysene-d12	15.51	240	298236	0.40 ug/ml
19) Perylene-d12	18.00	264	308389	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	11378	0.030ug/mL
13) Fluoranthene-d10	13.50	212	24878	0.034ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	18663	0.021ug/ml	80
16) Pyrene	13.87	202	23058	0.025ug/ml	1
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.55	228	19009	0.023ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	26150	0.027ug/ml	97
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	18371	0.020ug/ml	67
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	

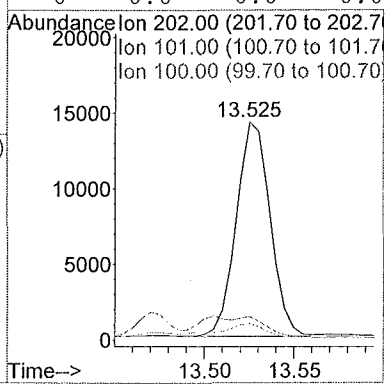
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

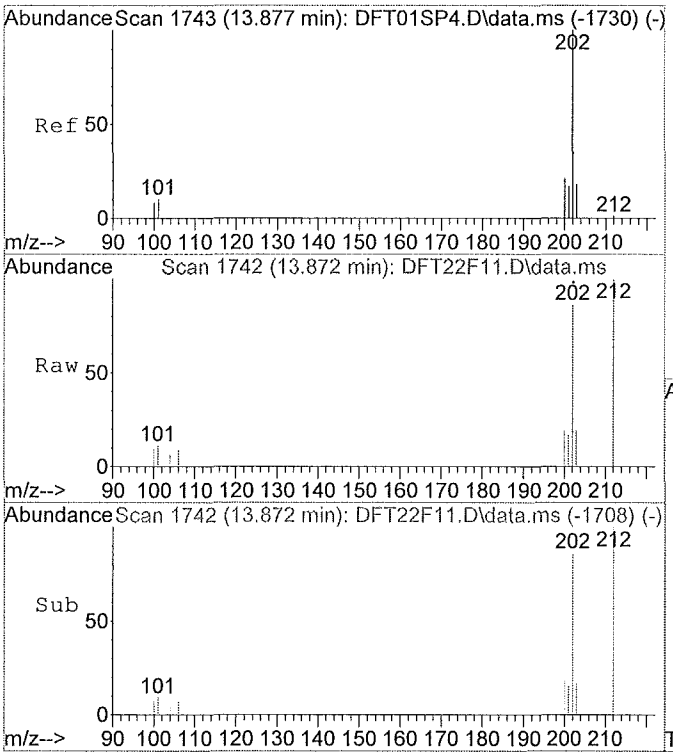


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFT22F11.D
Acq: 06/04/2015 23:29

Tgt Ion:202 Resp: 18663

Ion	Ratio	Lower	Upper
202	100		
101	5.3	9.4	17.6#
100	9.5	0.0	0.0#
0	0.0	0.0	0.0

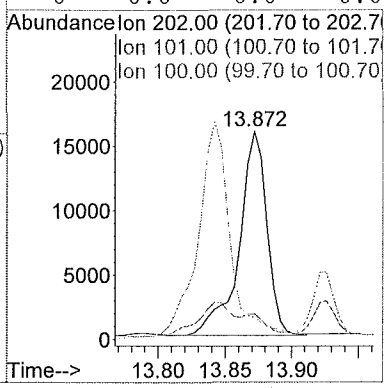


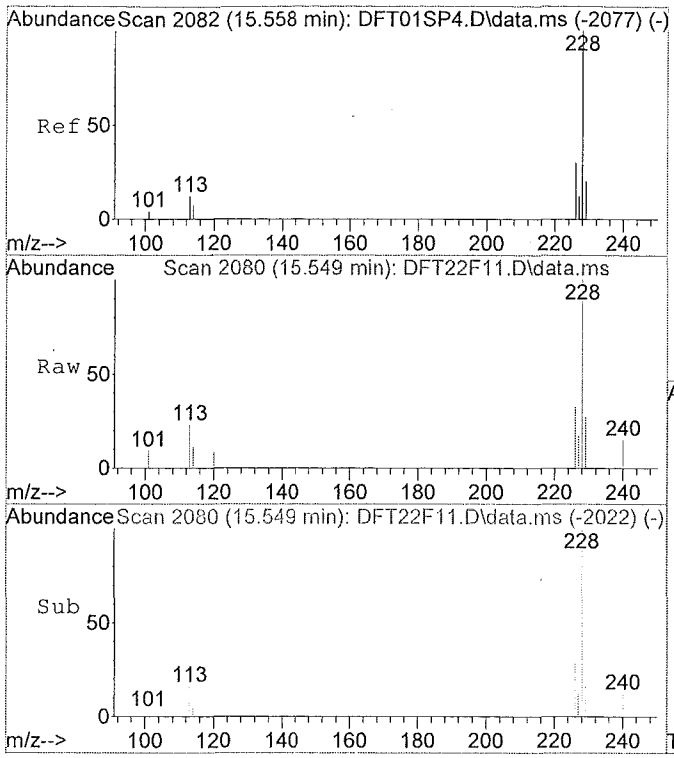


#16
Pyrene
Concen: 0.02 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT22F11.D
Acq: 06/04/2015 23:29

Tgt Ion:202 Resp: 23058

Ion	Ratio	Lower	Upper
202	100		
101	21.7	10.6	19.6#
100	122.8	9.4	17.4#
0	0.0	0.0	0.0

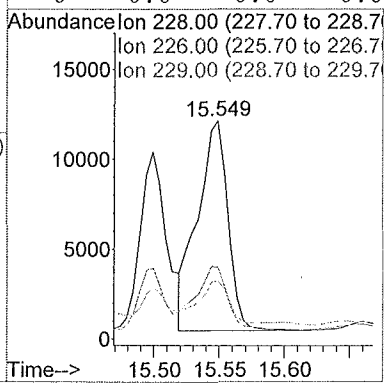


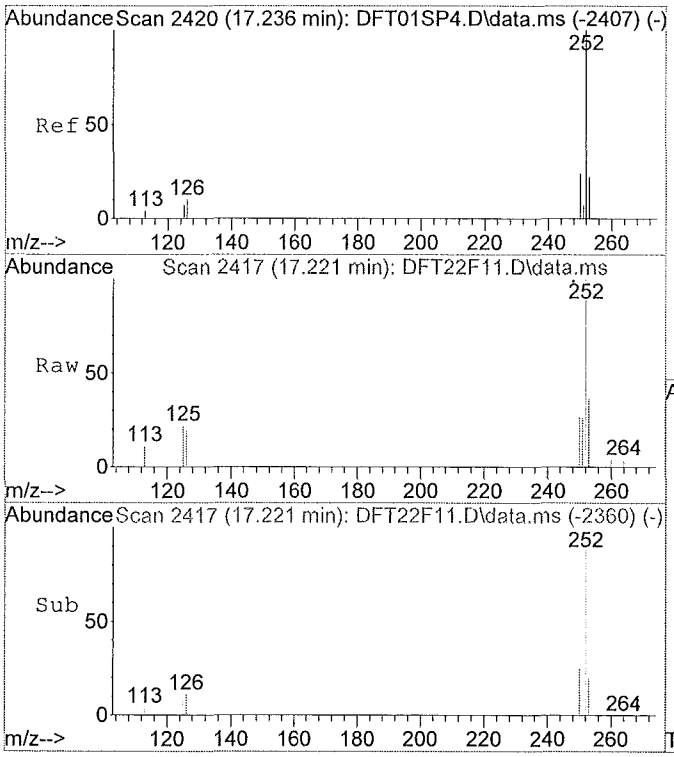


#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT22F11.D
Acq: 06/04/2015 23:29

Tgt Ion:228 Resp: 19009

Ion	Ratio	Lower	Upper
228	100		
226	31.2	19.7	36.7
229	19.9	14.5	26.9
0	0.0	0.0	0.0

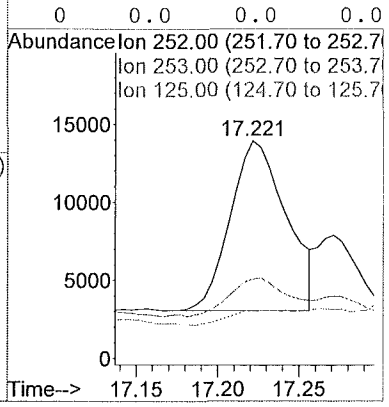


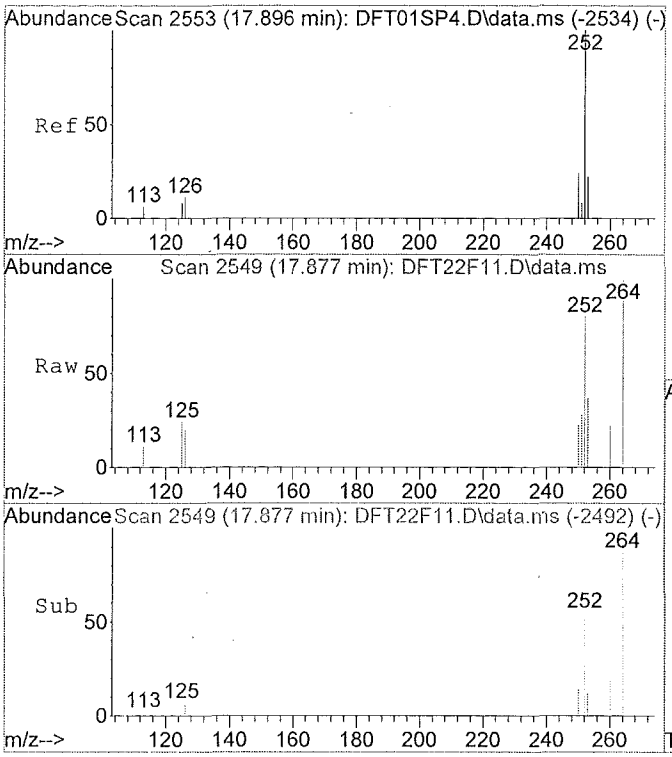


#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT22F11.D
Acq: 06/04/2015 23:29

Tgt Ion:252 Resp: 26150

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.3	28.3
125	6.2	0.0	0.0#
0	0.0	0.0	0.0

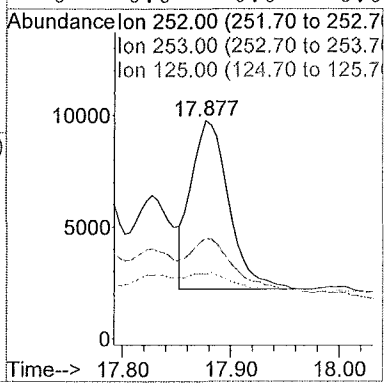




#22
Benzo(a)pyrene
Concen: 0.02 ug/ml
RT: 17.88 min Scan# 2549
Delta R.T. -0.01 min
Lab File: DFT22F11.D
Acq: 06/04/2015 23:29

Tgt Ion:252 Resp: 18371

Ion	Ratio	Lower	Upper
252	100		
253	37.1	15.0	27.8#
125	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.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT08F12

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

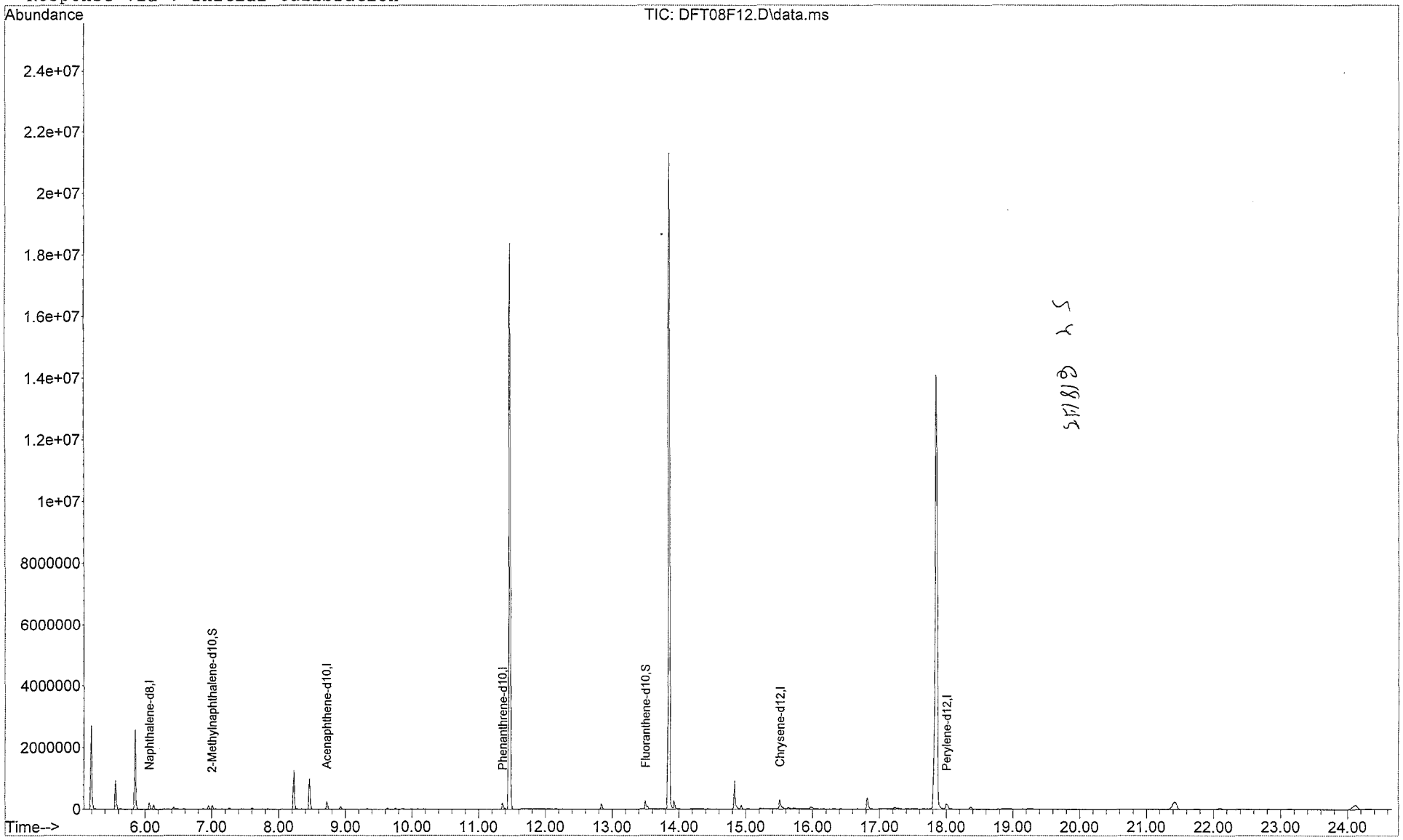
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	2.9	J
129-00-0	Pyrene	4.2	
56-55-3	Benzo(a)anthracene	2.2	J
218-01-9	Chrysene	2.3	J
205-99-2	Benzo(b)fluoranthene	2.4	J
207-08-9	Benzo(k)fluoranthene	0.78	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT08F12.D Vial: 8
Acq On : 06/04/2015 16:33 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:56:33 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



5 x 8/14/15

Quantitation Report

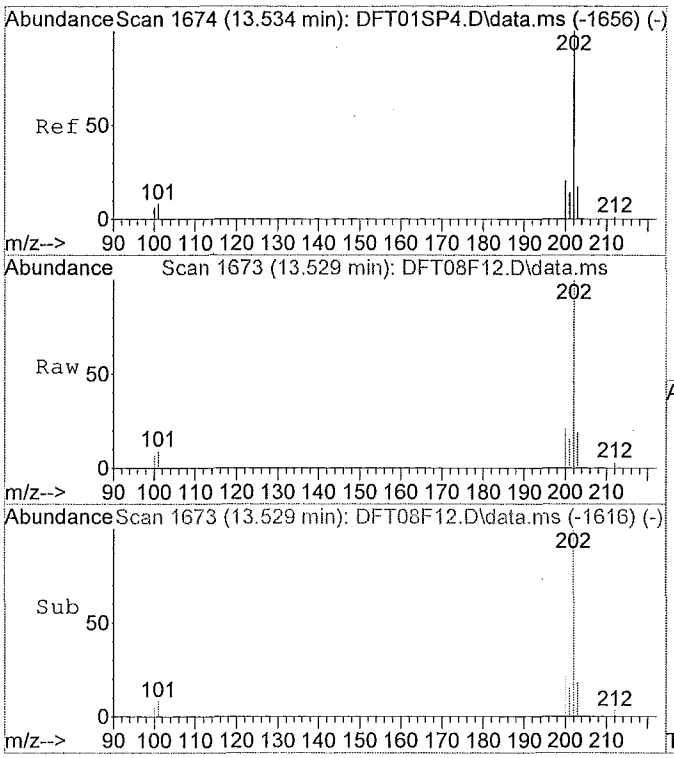
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT08F12.D Vial: 8
Acq On : 06/04/2015 16:33 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:56:33 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	236127	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	169441	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	285126	0.40 ug/ml
15) Chrysene-d12	15.51	240	301168	0.40 ug/ml
19) Perylene-d12	18.01	264	328021	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	125362	0.329ug/mL
13) Fluoranthene-d10	13.50	212	301205	0.386ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	70410	0.075ug/ml	91
16) Pyrene	13.88	202	102429	0.108ug/ml	1
17) Benzo(a)anthracene	15.50	228	46113	0.057ug/ml	85
18) Chrysene	15.55	228	50331	0.059ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	64251	0.063ug/ml	98
21) Benzo(k)fluoranthene	17.28	252	21449	0.020ug/ml m SK 6/8/15	97
22) Benzo(a)pyrene	17.89	252	34031	0.035ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	28390	0.033ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

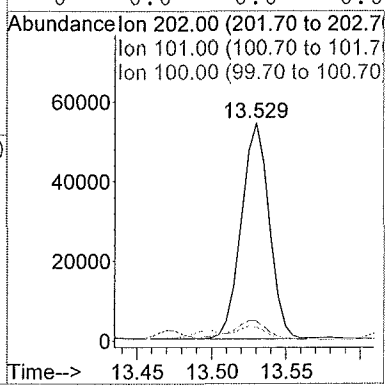
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

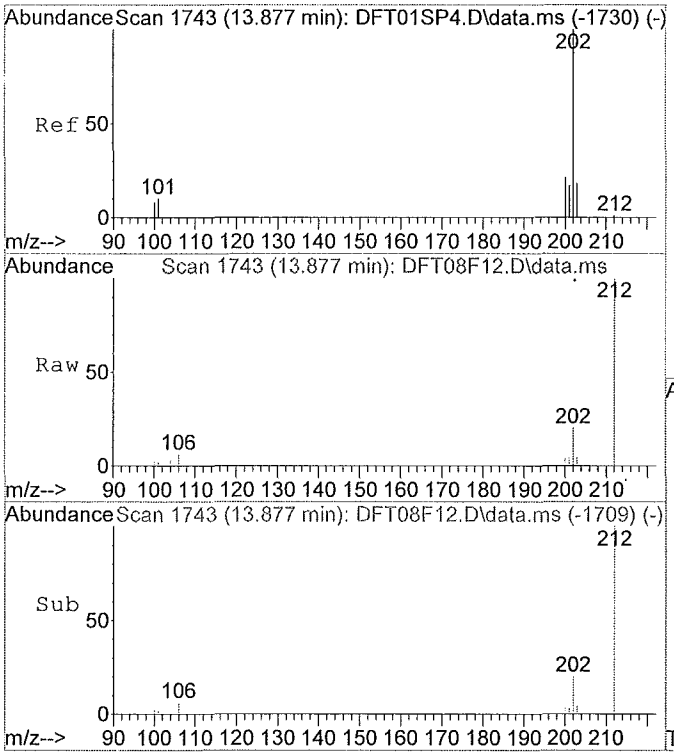


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:202 Resp: 70410

Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.4	17.6
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

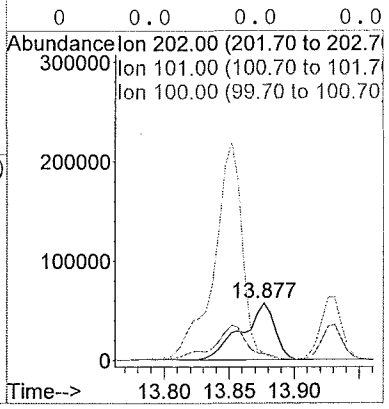


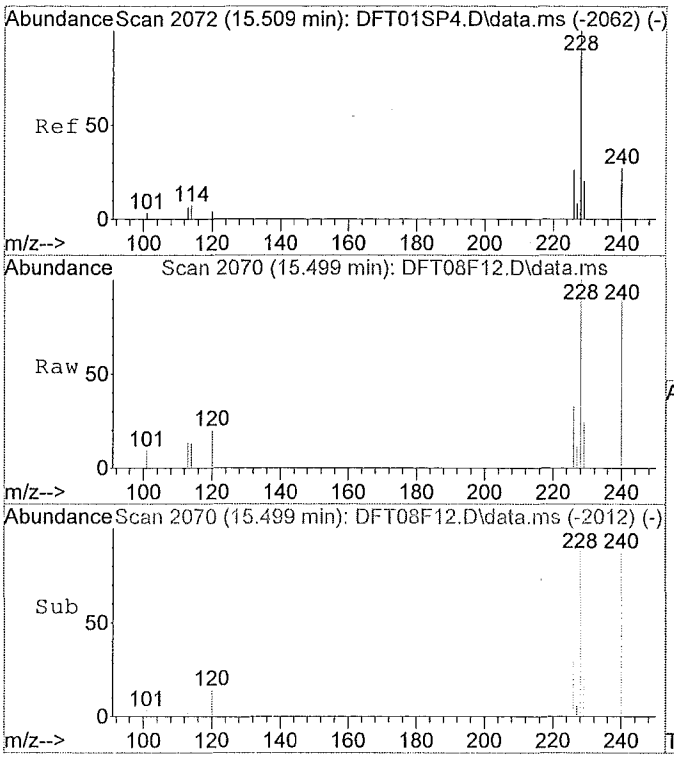


#16
Pyrene
Concen: 0.11 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:202 Resp: 102429

Ion	Ratio	Lower	Upper
202	100		
101	63.2	10.6	19.6#
100	329.5	9.4	17.4#
0	0.0	0.0	0.0

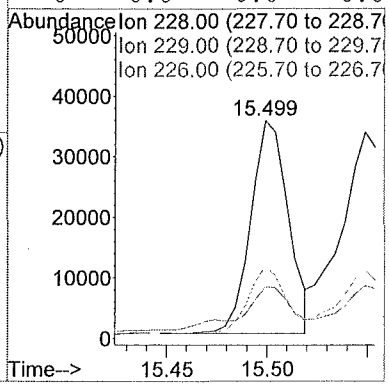


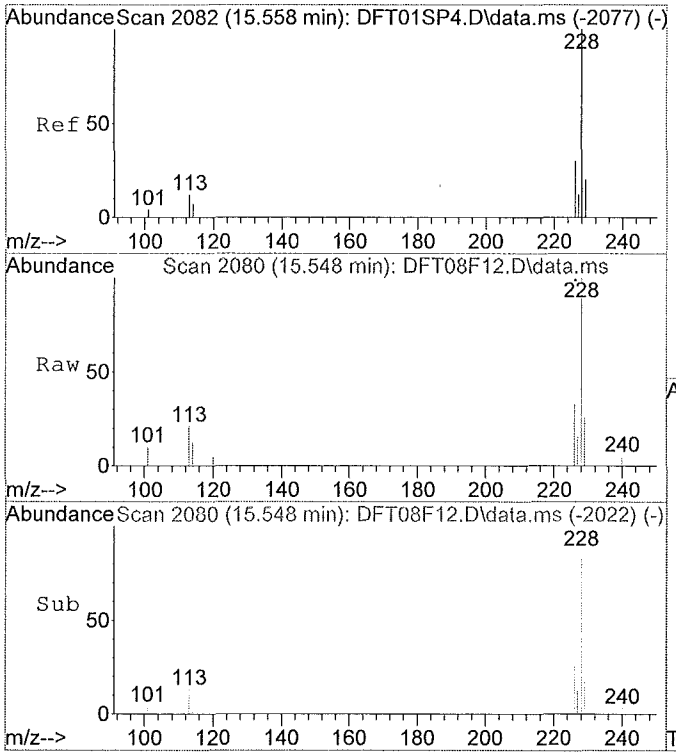


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:228 Resp: 46113

Ion	Ratio	Lower	Upper
228	100		
229	32.0	14.5	26.9#
226	30.8	18.5	34.3
0	0.0	0.0	0.0

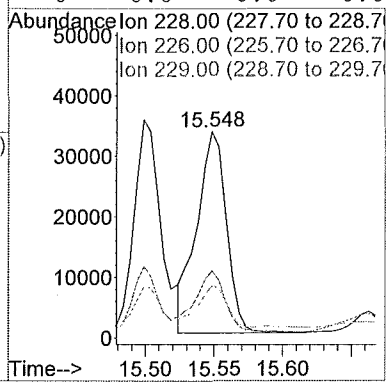


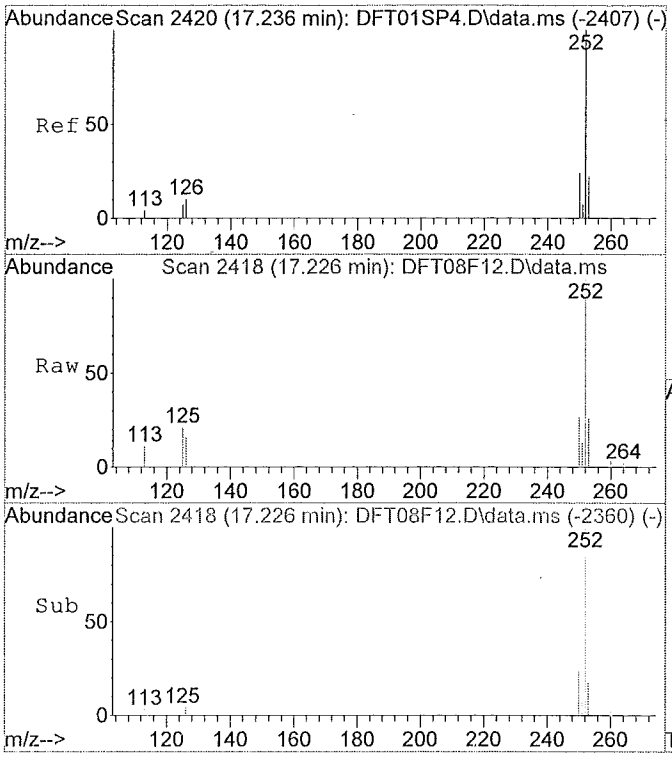


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:228 Resp: 50331

Ion	Ratio	Lower	Upper
228	100		
226	31.3	19.7	36.7
229	20.1	14.5	26.9
0	0.0	0.0	0.0

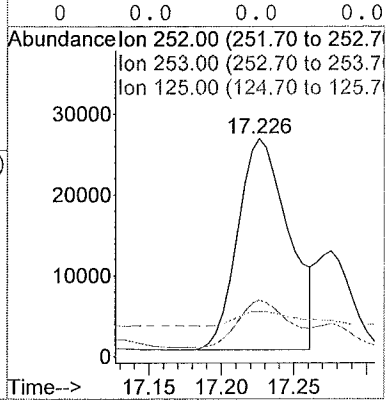


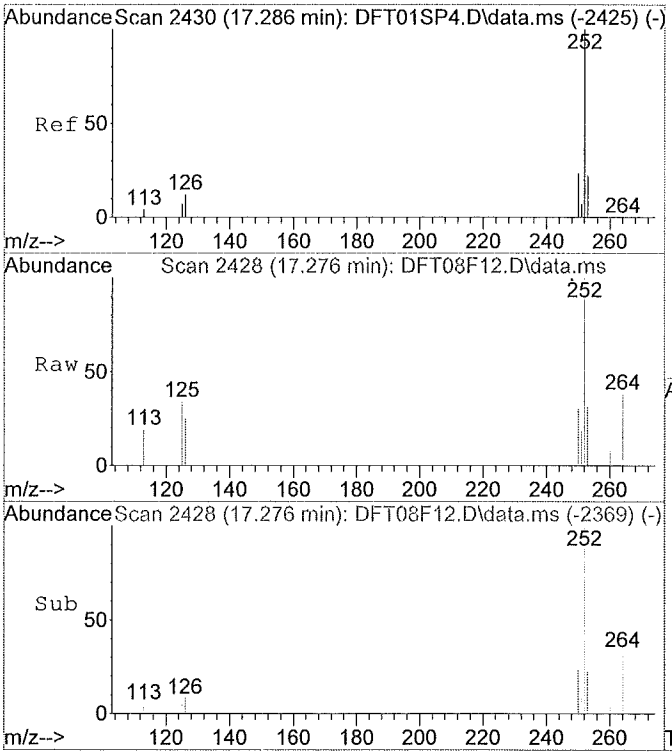


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:252 Resp: 64251

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	8.8	0.0	0.0#
0	0.0	0.0	0.0

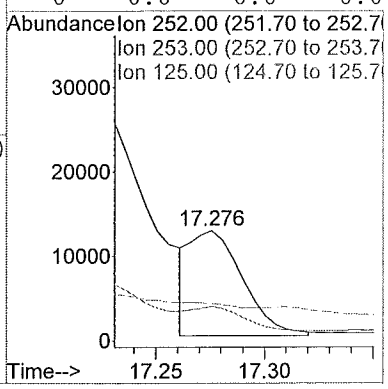


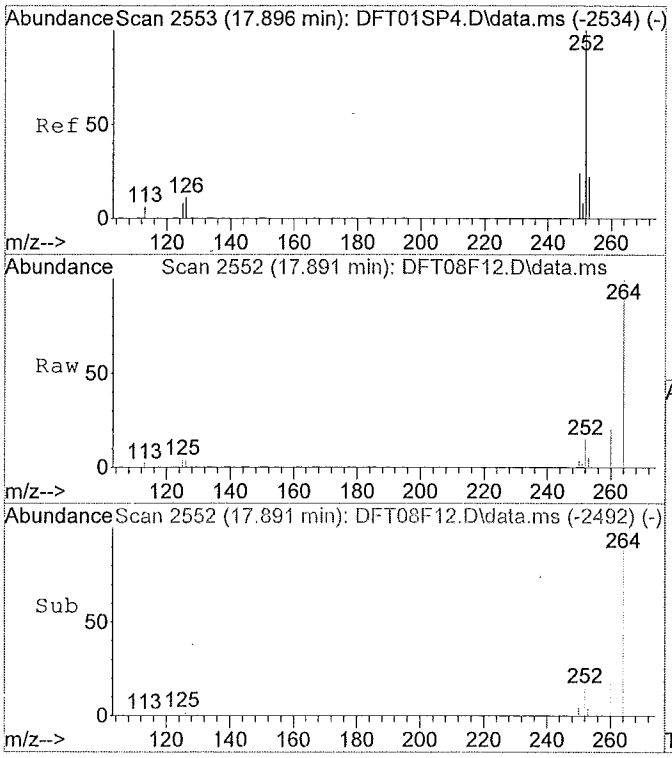


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:252 Resp: 21449

Ion	Ratio	Lower	Upper
252	100		
253	67.7	15.0	27.8#
125	26.3	0.0	0.0#
0	0.0	0.0	0.0

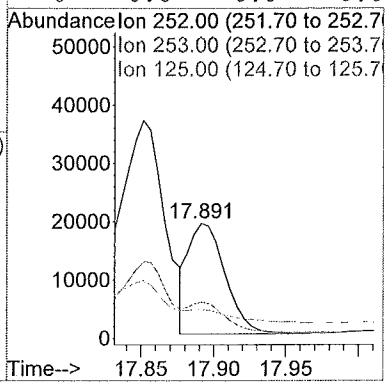


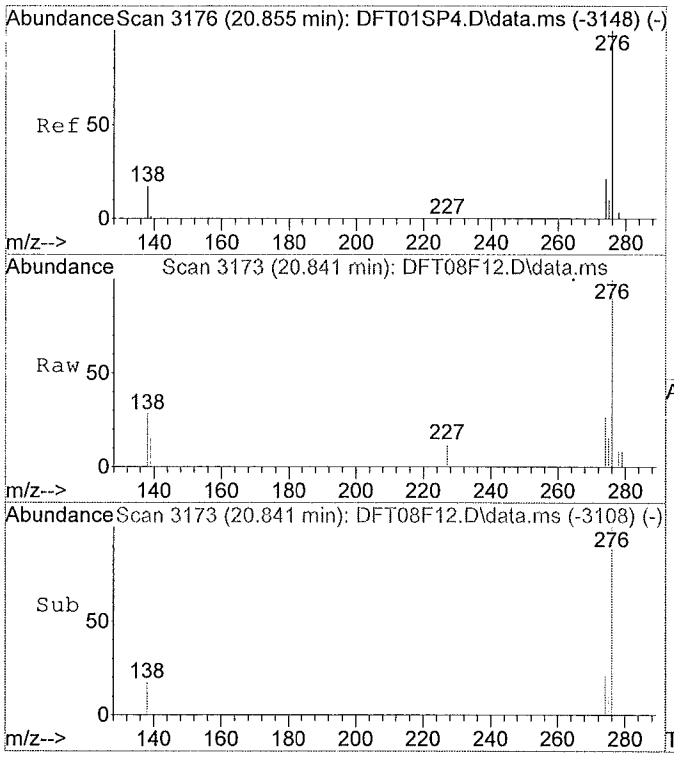


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:252 Resp: 34031

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

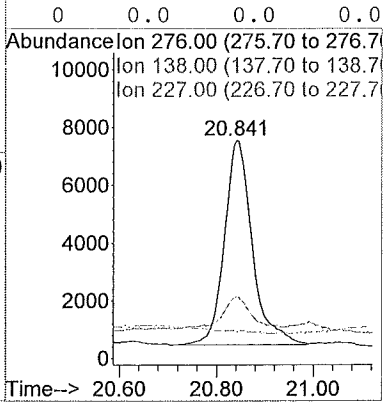




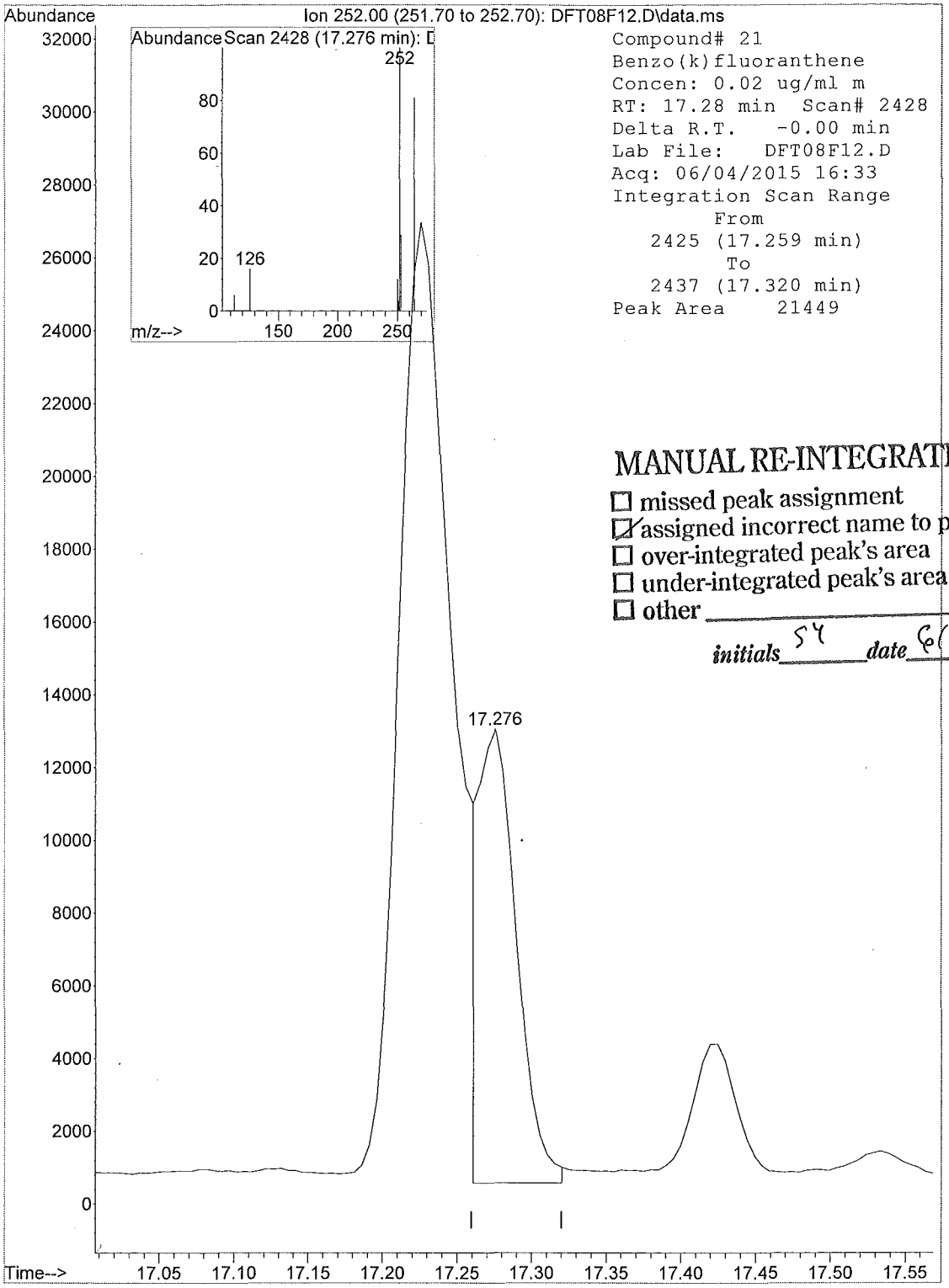
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.03 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:276 Resp: 28390

Ion	Ratio	Lower	Upper
276	100		
138	12.9	0.0	0.0#
227	0.3	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* 6/8/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFT23F13

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 10.0

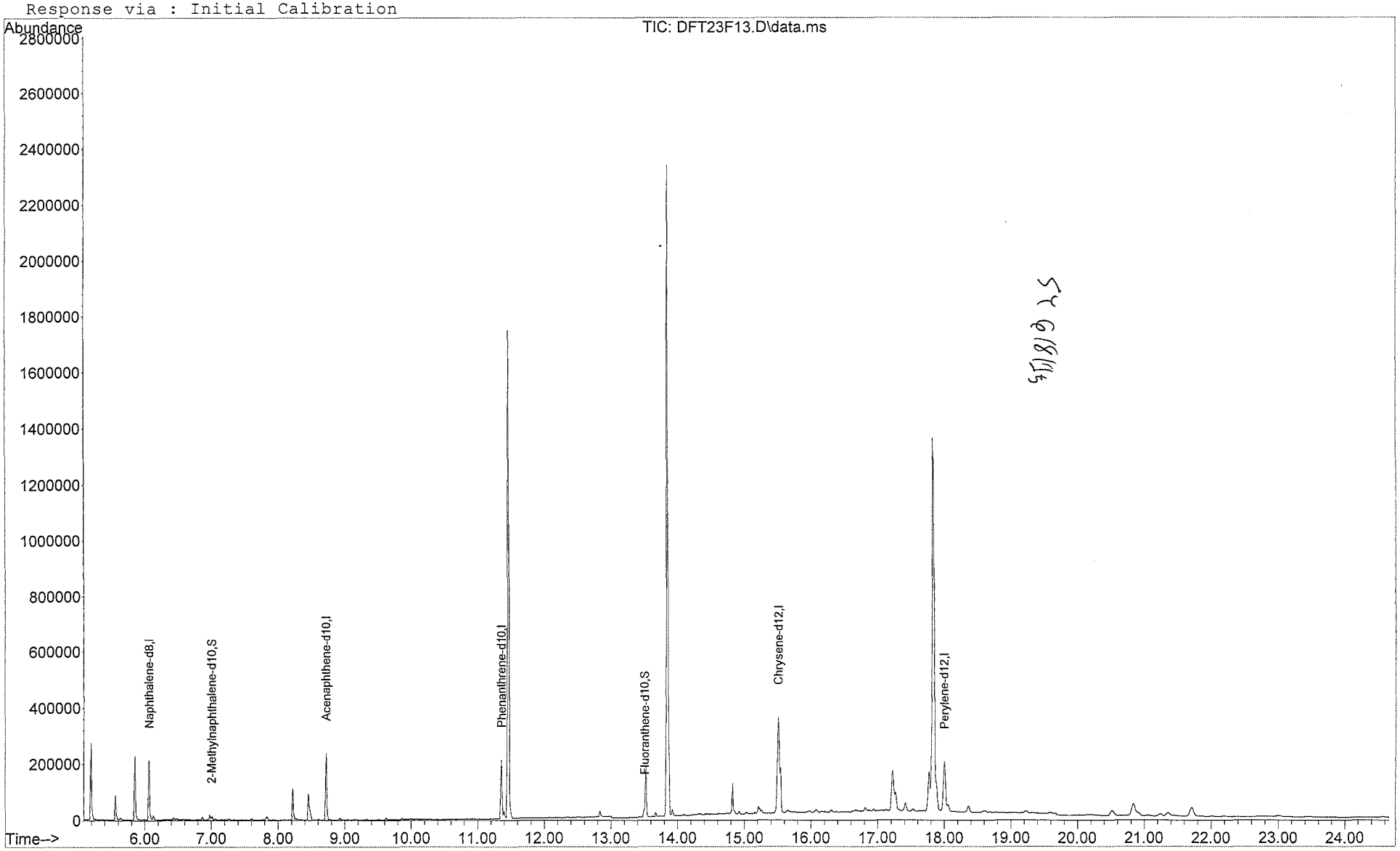
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	17.	J
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	81.	U
85-01-8	Phenanthrene	12.	J
120-12-7	Anthracene	17.	J
206-44-0	Fluoranthene	62.	
129-00-0	Pyrene	64.	
56-55-3	Benzo(a)anthracene	50.	
218-01-9	Chrysene	82.	
205-99-2	Benzo(b)fluoranthene	79.	
207-08-9	Benzo(k)fluoranthene	23.	J
50-32-8	Benzo(a)pyrene	44.	
193-39-5	Indeno(1,2,3-cd)pyrene	52.	
53-70-3	Dibenzo(a,h)anthracene	11.	J
191-24-2	Benzo(g,h,i)perylene	33.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT23F13.D Vial: 21
Acq On : 06/04/2015 23:59 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 07:57:35 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



57 of 85

Quantitation Report

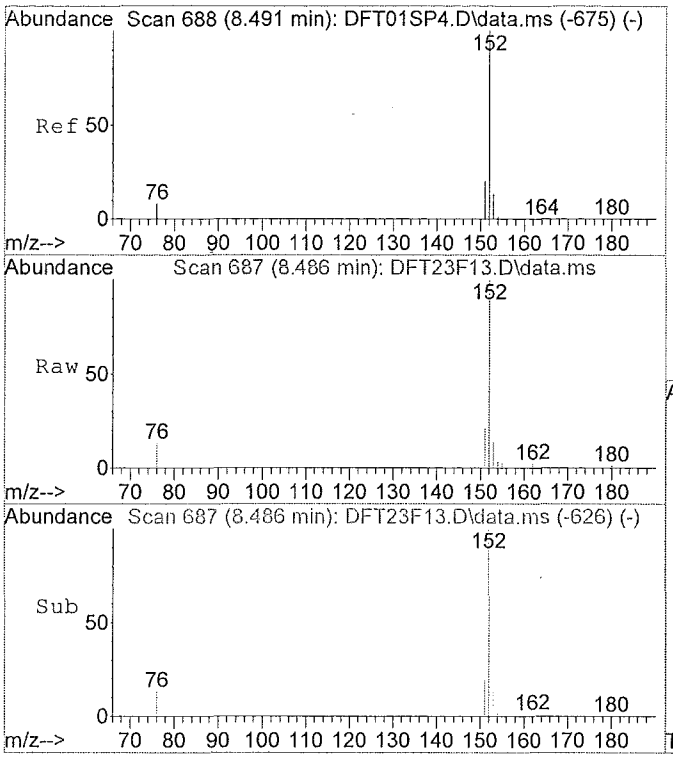
Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT23F13.D Vial: 21
Acq On : 06/04/2015 23:59 Operator: DJC
Sample : 1513978013 F9L30 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 07:57:35 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	243707	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	157676	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	285441	0.40 ug/ml	
15) Chrysene-d12	15.51	240	320422	0.40 ug/ml	
19) Perylene-d12	18.00	264	329665	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	13601	0.035ug/mL	
13) Fluoranthene-d10	13.50	212	28188	0.036ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	28217	0.041ug/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	11.40	178	23880	0.029ug/ml	96
12) Anthracene	11.50	178	32920	0.041ug/ml	97
14) Fluoranthene	13.53	202	144470	0.154ug/ml	88
16) Pyrene	13.87	202	159675	0.159ug/ml	90
17) Benzo(a)anthracene	15.50	228	105580	0.124ug/ml	90
18) Chrysene	15.55	228	183983	0.204ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	201254	0.196ug/ml	98
21) Benzo(k)fluoranthene	17.27	252	59638	0.056ug/ml m	97
22) Benzo(a)pyrene	17.88	252	107161	0.109ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.84	276	110977	0.129ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	26142	0.027ug/ml	91
25) Benzo(g,h,i)perylene	21.71	276	78904	0.082ug/ml	71

SY 6/8/15

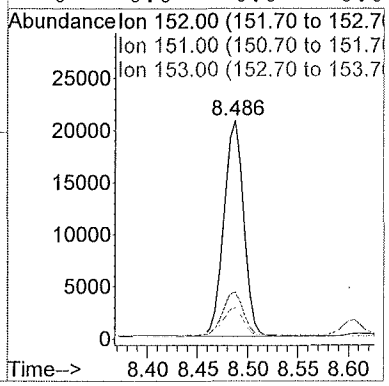
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

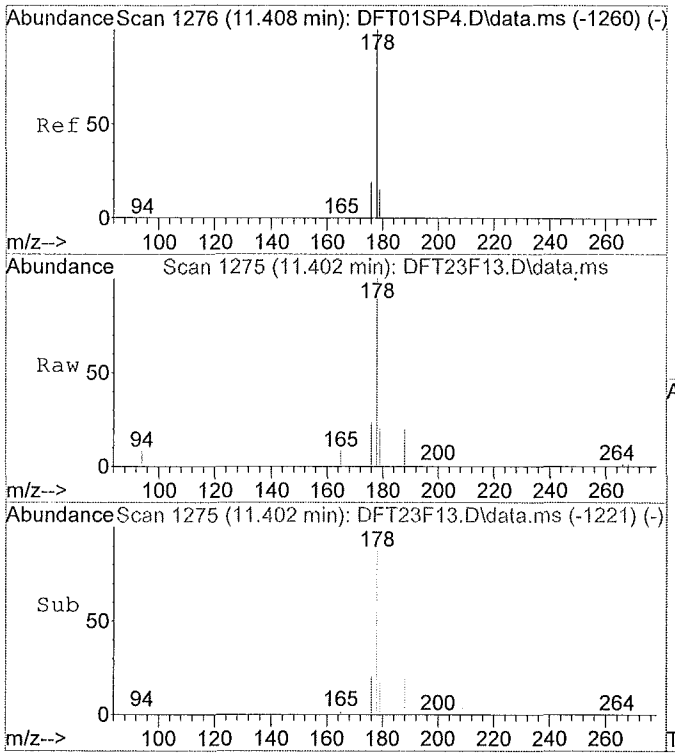


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:152 Resp: 28217

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.5	28.7
153	15.1	8.8	16.4
0	0.0	0.0	0.0

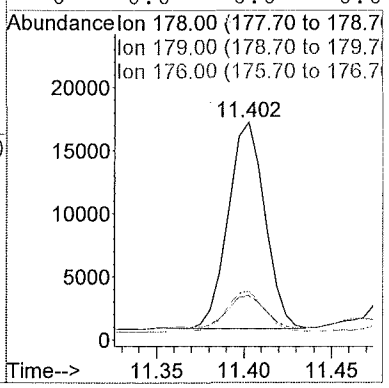


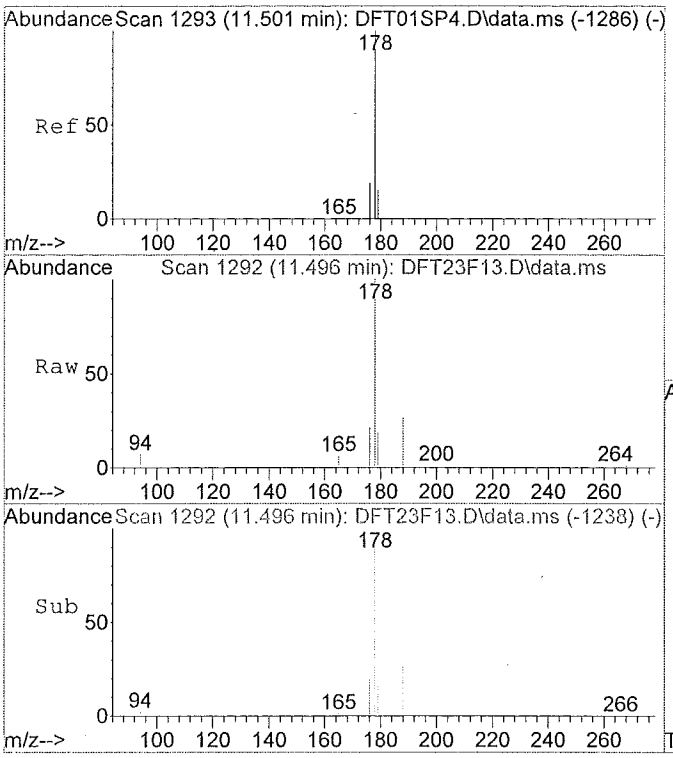


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:178 Resp: 23880

Ion	Ratio	Lower	Upper
178	100		
179	19.0	11.1	20.5
176	21.0	14.1	26.1
0	0.0	0.0	0.0

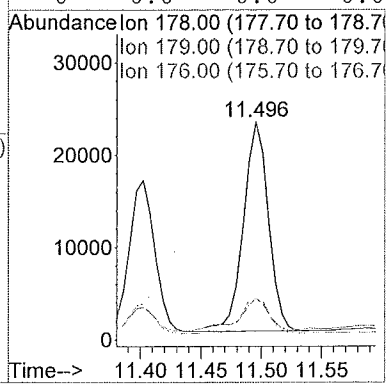


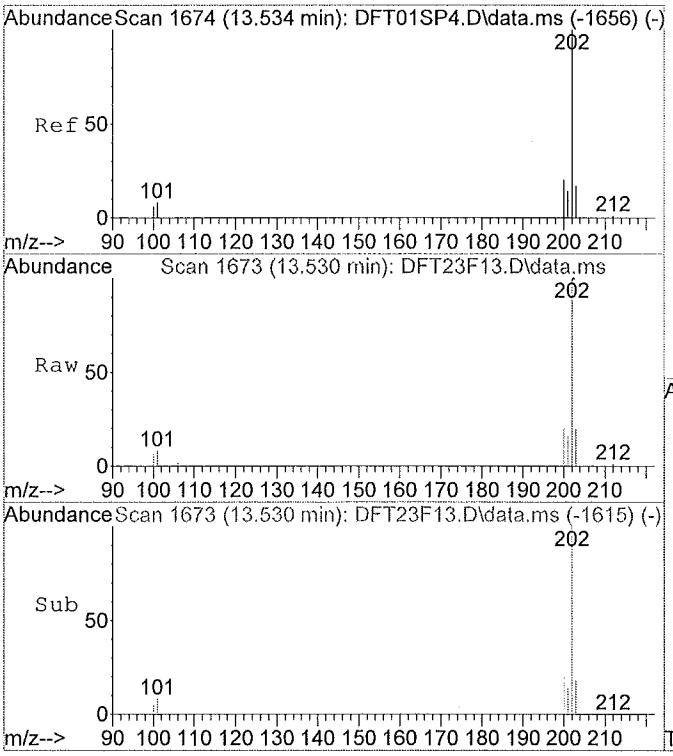


#12
Anthracene
Concen: 0.04 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:178 Resp: 32920

Ion	Ratio	Lower	Upper
178	100		
179	18.2	11.6	21.6
176	19.0	13.9	25.7
0	0.0	0.0	0.0

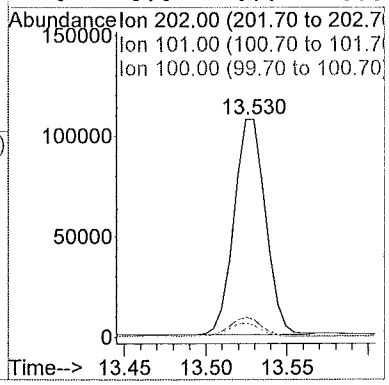


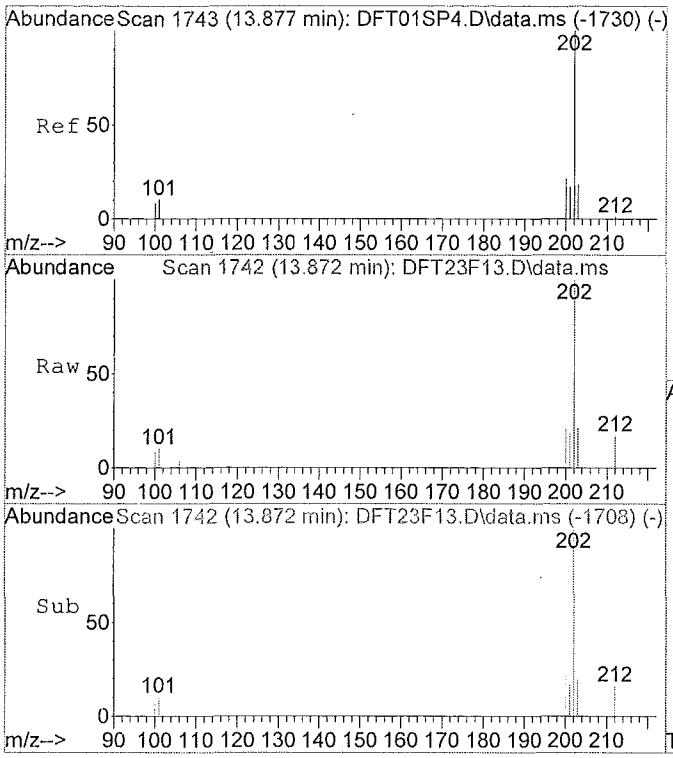


#14
Fluoranthene
Concen: 0.15 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:202 Resp: 144470

Ion	Ratio	Lower	Upper
202	100		
101	8.8	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

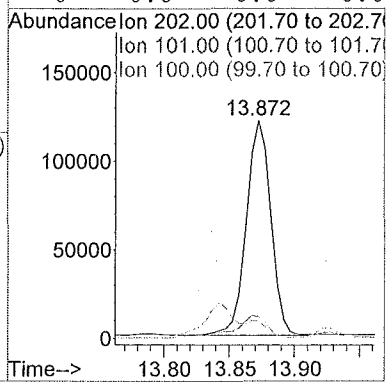


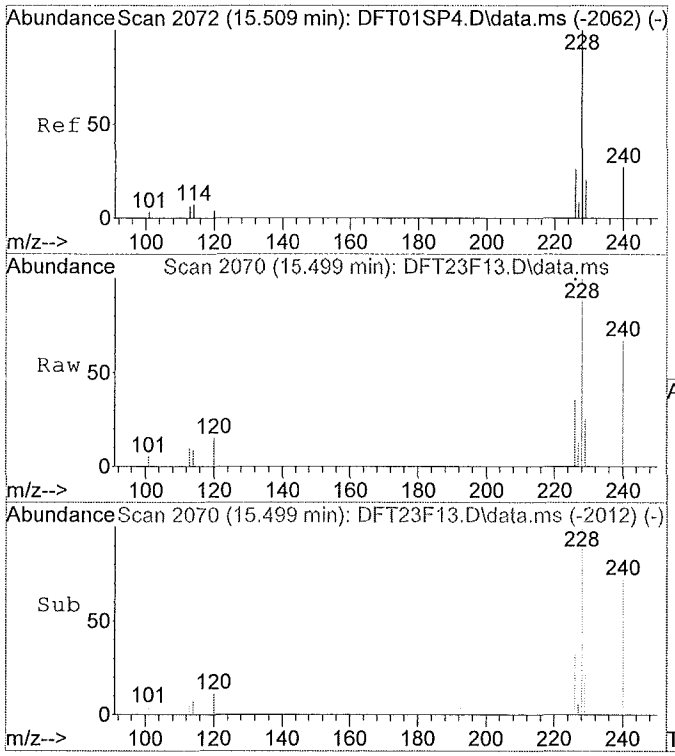


#16
Pyrene
Concen: 0.16 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:202 Resp: 159675

Ion	Ratio	Lower	Upper
202	100		
101	13.4	10.6	19.6
100	20.4	9.4	17.4#
0	0.0	0.0	0.0

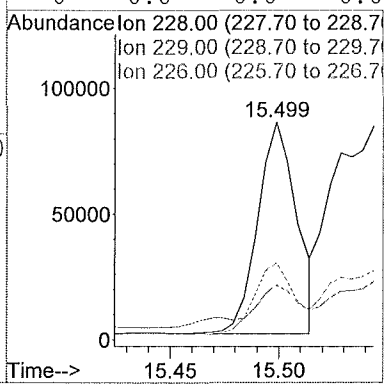


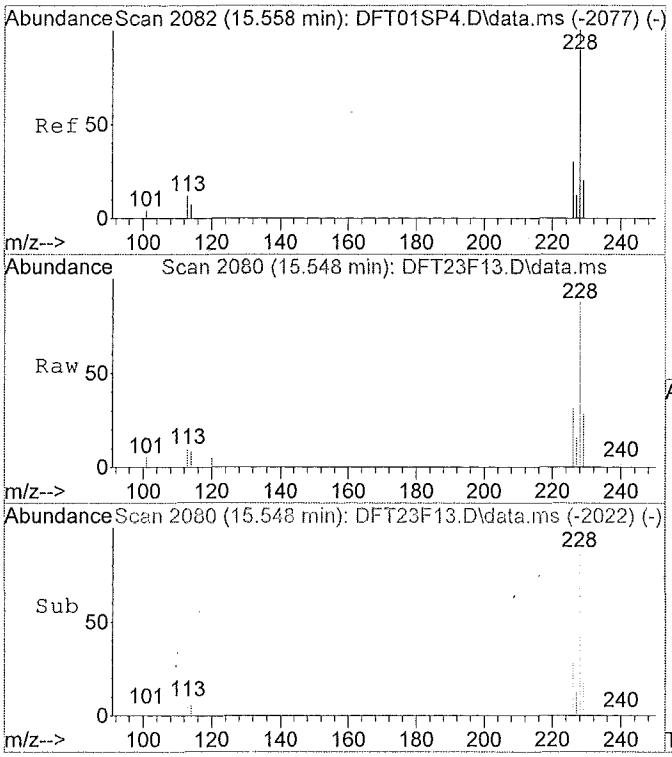


#17
Benzo(a)anthracene
Concen: 0.12 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:228 Resp: 105580

Ion	Ratio	Lower	Upper
228	100		
229	20.7	14.5	26.9
226	35.2	18.5	34.3#
0	0.0	0.0	0.0

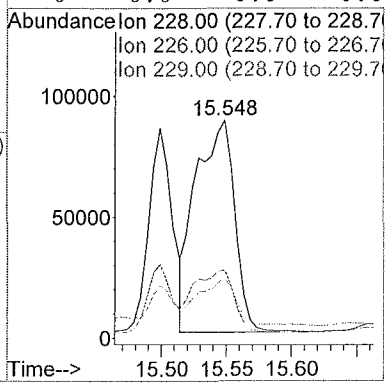


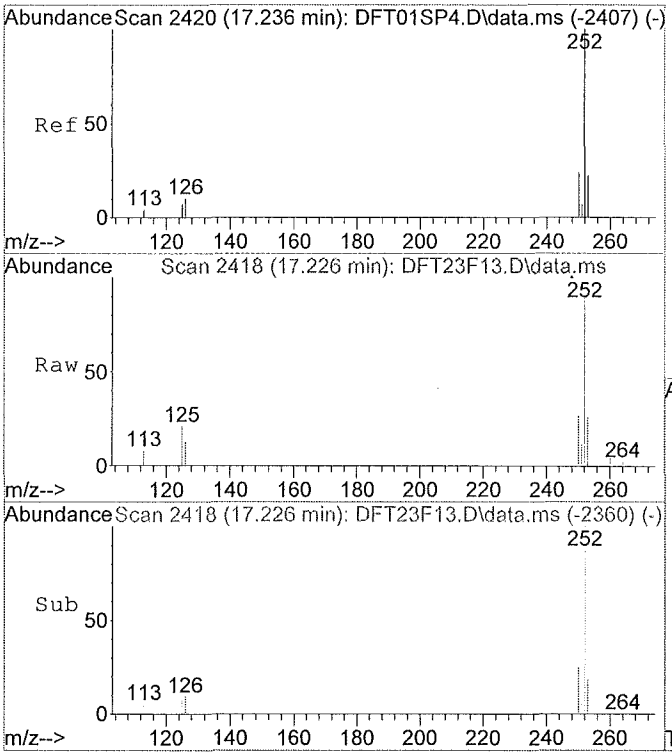


#18
Chrysene
Concen: 0.20 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:228 Resp: 183983

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	22.4	14.5	26.9
0	0.0	0.0	0.0

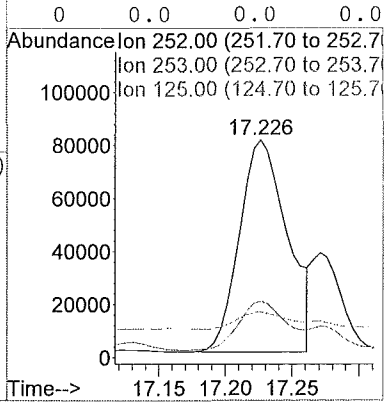


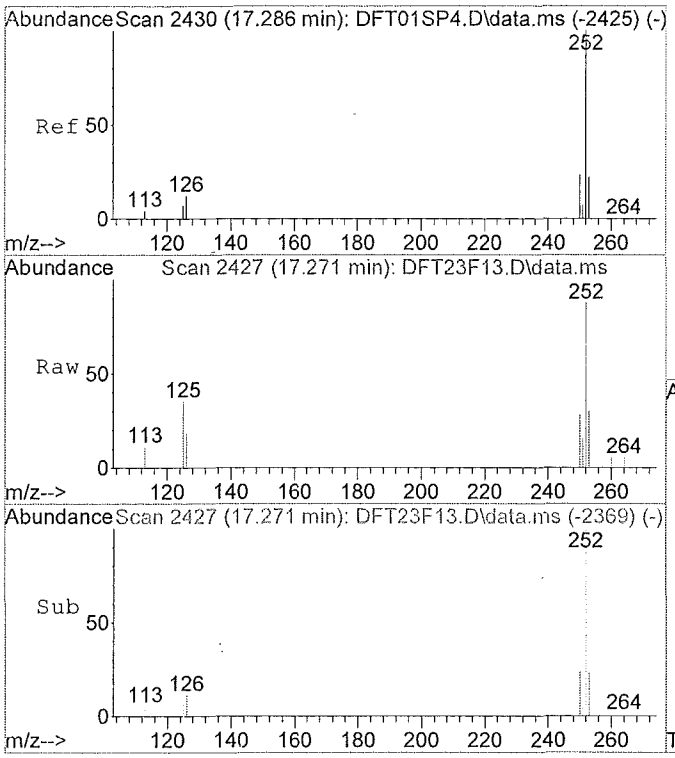


#20
Benzo(b)fluoranthene
Concen: 0.20 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:252 Resp: 201254

Ion	Ratio	Lower	Upper
252	100		
253	22.9	15.3	28.3
125	7.8	0.0	0.0#
0	0.0	0.0	0.0

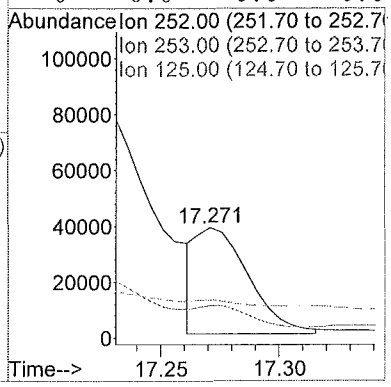


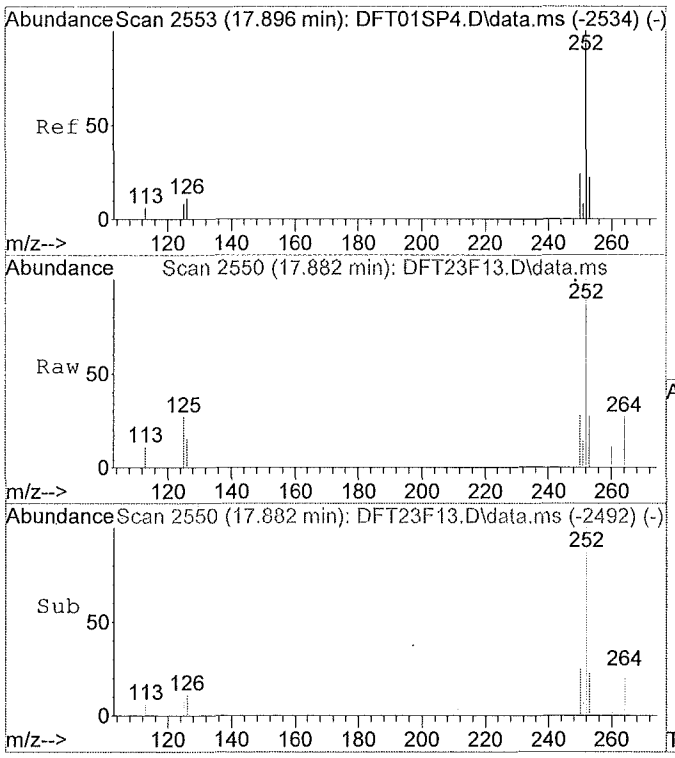


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:252 Resp: 59638

Ion	Ratio	Lower	Upper
252	100		
253	77.3	15.0	27.8#
125	26.4	0.0	0.0#
0	0.0	0.0	0.0

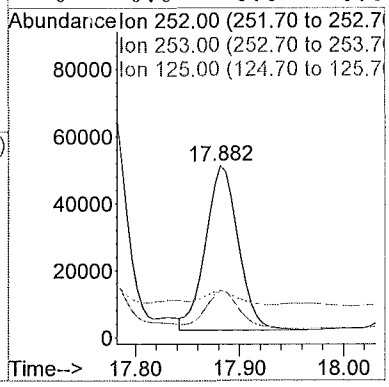


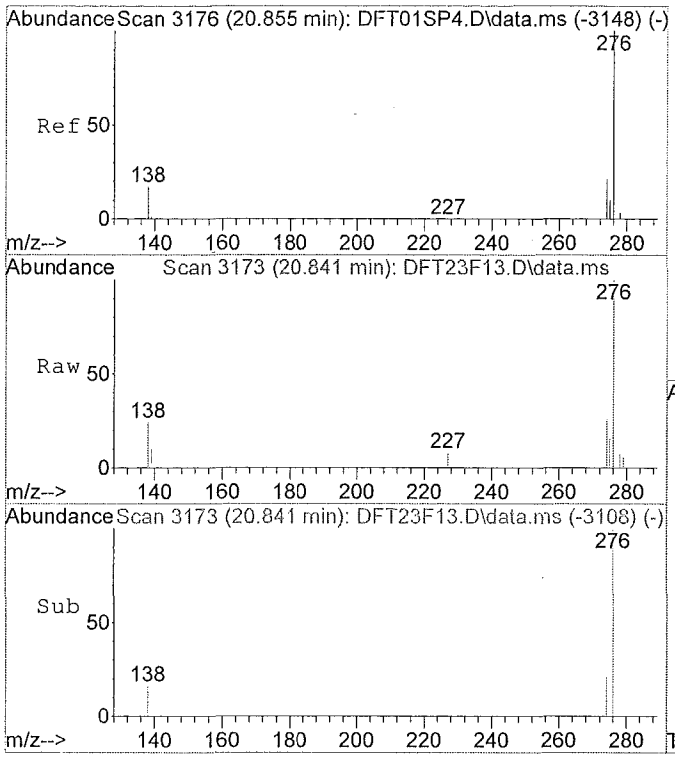


#22
Benzo(a)pyrene
Concen: 0.11 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:252 Resp: 107161

Ion	Ratio	Lower	Upper
252	100		
253	23.9	15.0	27.8
125	9.2	0.0	0.0#
0	0.0	0.0	0.0

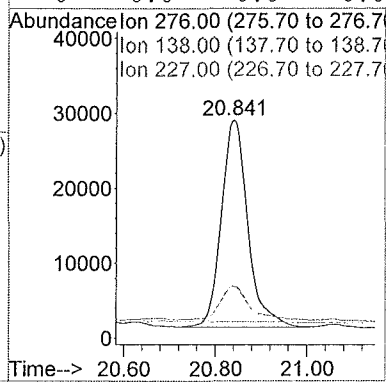


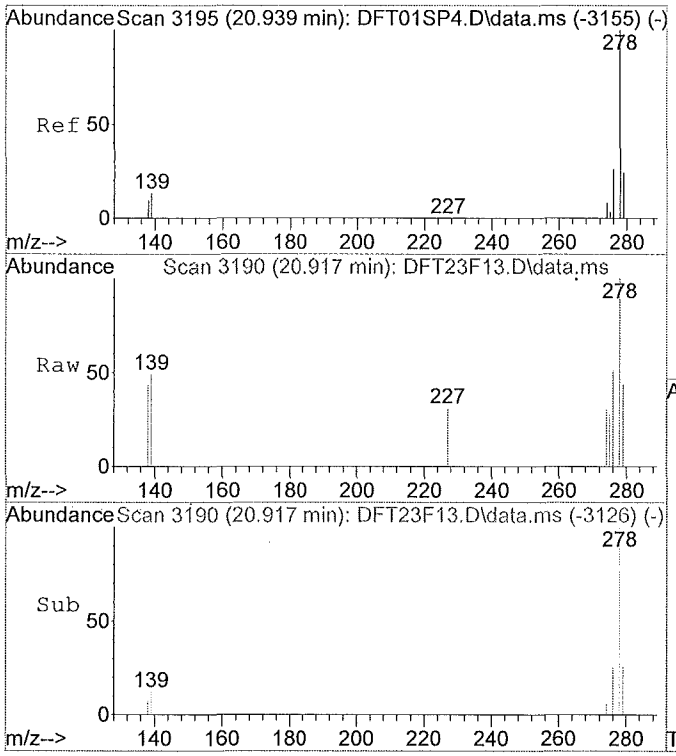


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.13 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:276 Resp: 110977

Ion	Ratio	Lower	Upper
276	100		
138	18.0	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

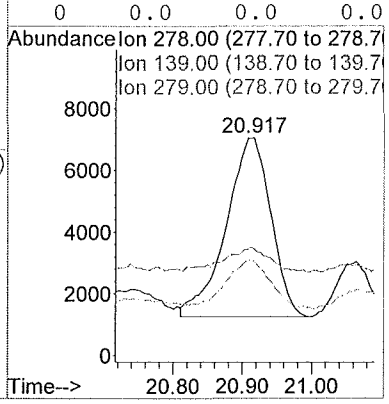


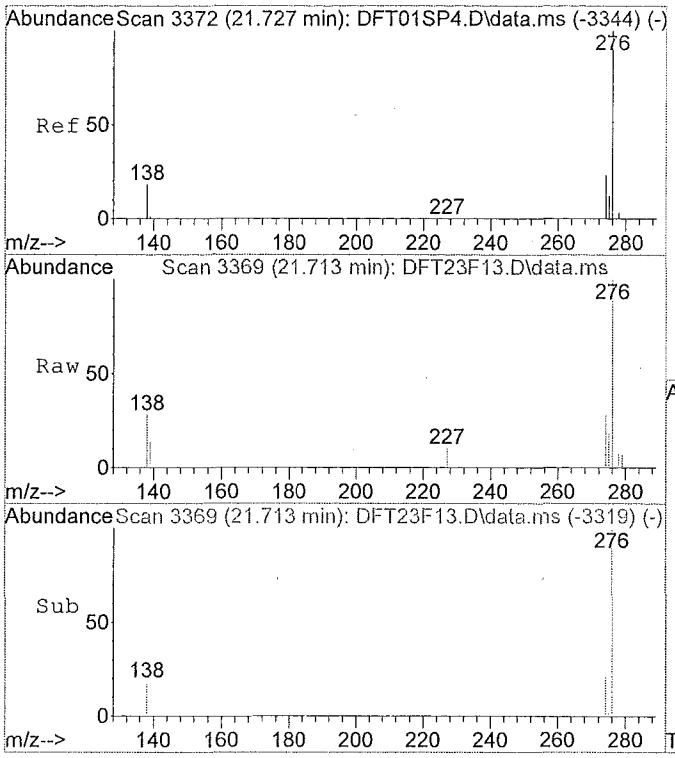


#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.92 min Scan# 3190
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:278 Resp: 26142

Ion	Ratio	Lower	Upper
278	100		
139	14.6	0.0	0.0#
279	27.0	15.8	29.3
0	0.0	0.0	0.0

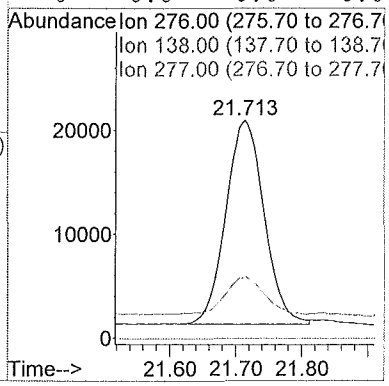




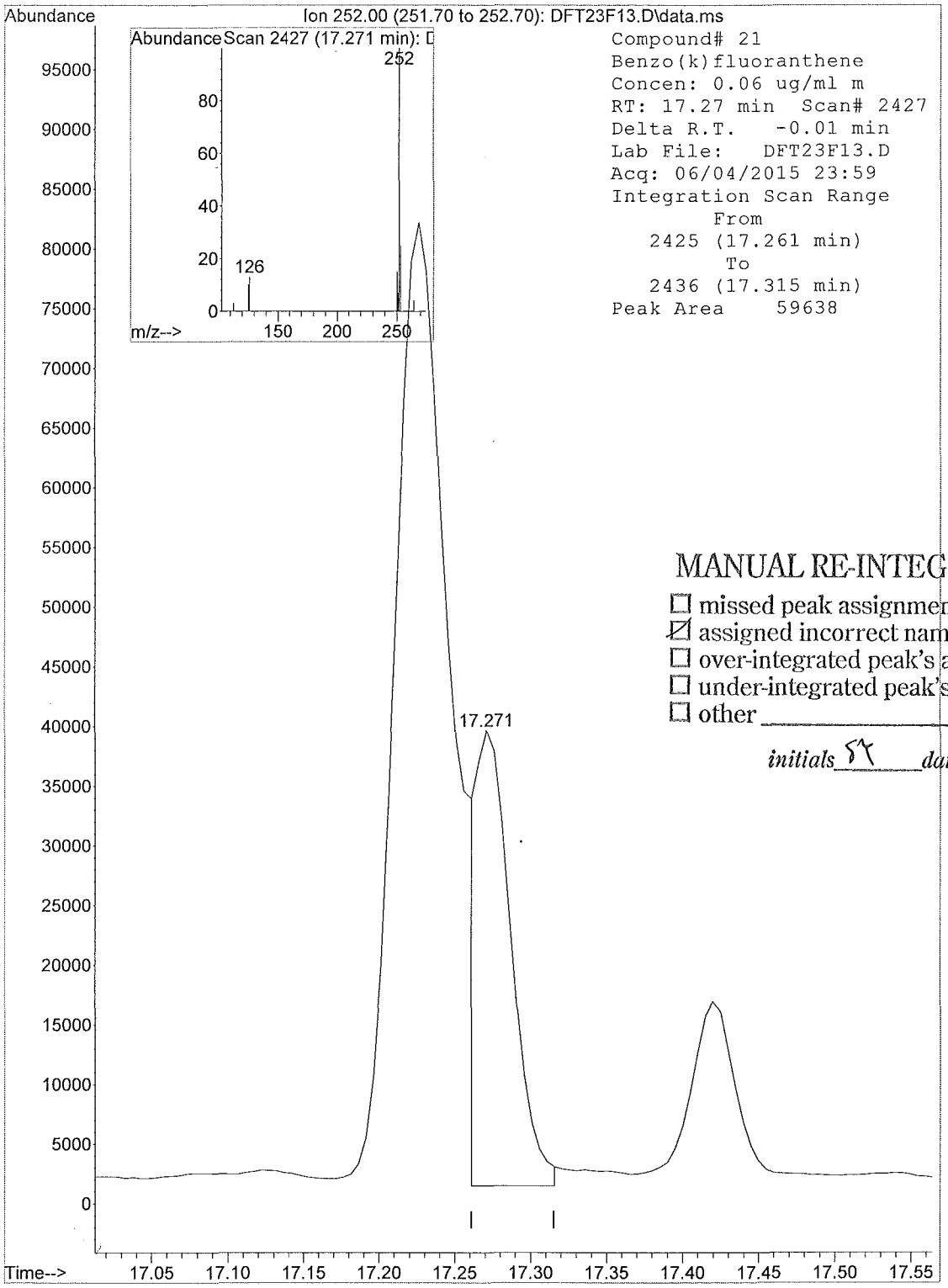
#25
Benzo(g,h,i)perylene
Concen: 0.08 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT23F13.D
Acq: 06/04/2015 23:59

Tgt Ion:276 Resp: 78904

Ion	Ratio	Lower	Upper
276	100		
138	18.1	16.2	30.0
277	0.0	16.5	30.7#
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 ST *date* 6/8/15

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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 03/25/2015 03/25/2015

Calibration Time(s): 09:26 11:25

LAB FILE ID: RRF 0.1 = DDG01SP1 RRF 0.2 = DDG02SP2

RRF 0.4 = DDG03SP4 RRF 0.8 = DDG04SP8 RRF 1.0 = DDG05S01

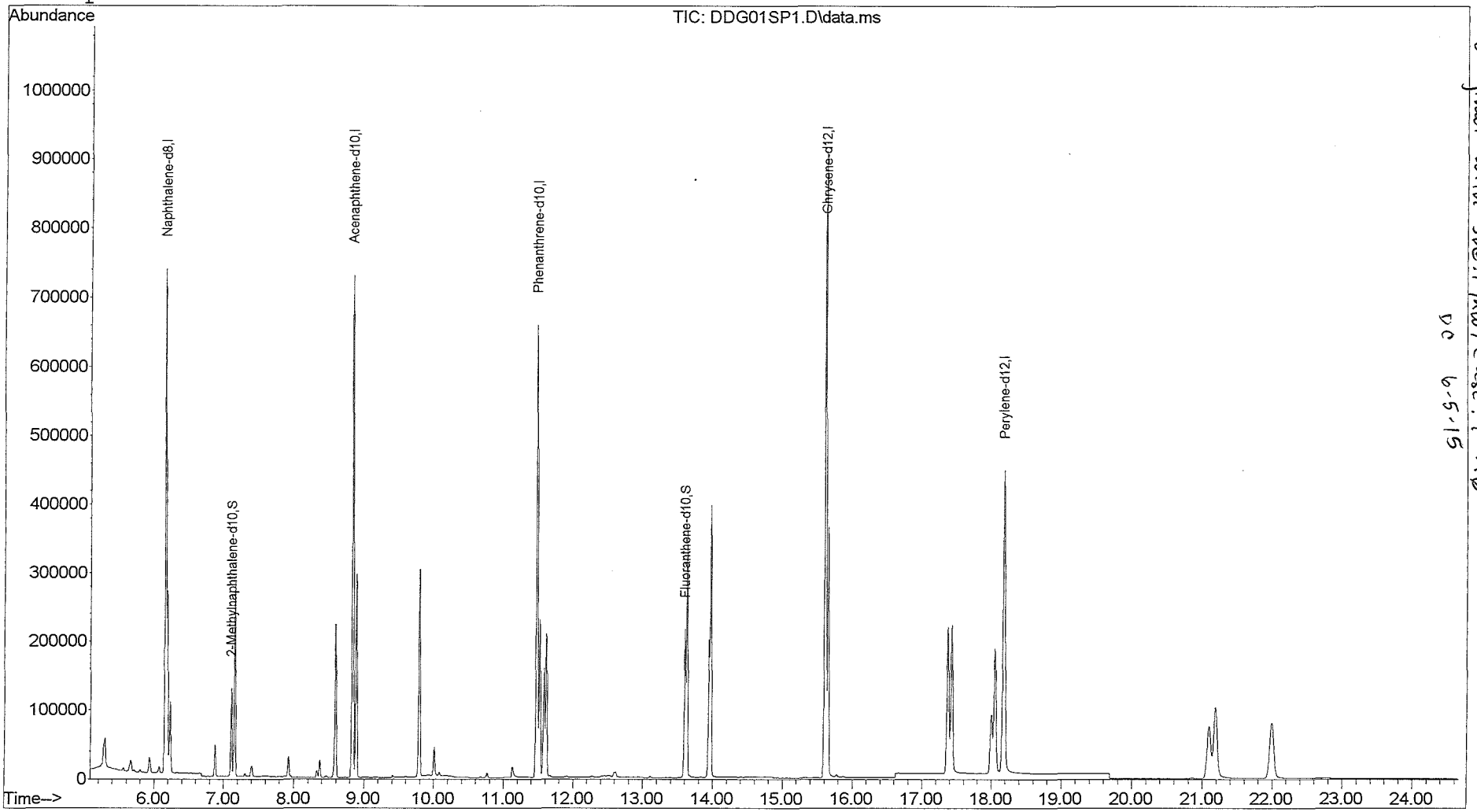
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	1.294	1.298	1.276	1.346	1.299	2.1
Pentachlorophenol		0.056	0.056	0.061	0.068	0.060	9.2
Phenanthrene	1.131	1.155	1.151	1.137	1.185	1.152	1.8
Anthracene	1.055	1.099	1.118	1.135	1.193	1.120	4.5
Fluoranthene	1.292	1.281	1.291	1.320	1.370	1.311	2.8
Pyrene	1.283	1.240	1.247	1.229	1.277	1.255	1.9
Benzo(a)anthracene	1.071	1.062	1.060	1.047	1.093	1.067	1.6
Chrysene	1.126	1.135	1.131	1.101	1.143	1.127	1.4
Benzo(b)fluoranthene	1.217	1.236	1.239	1.236	1.306	1.247	2.8
Benzo(k)fluoranthene	1.226	1.279	1.305	1.295	1.353	1.292	3.6
Benzo(a)pyrene	1.103	1.165	1.201	1.211	1.276	1.191	5.3
Indeno(1,2,3-cd)pyrene	0.970	1.023	1.043	1.058	1.119	1.043	5.2
Dibenzo(a,h)anthracene	1.077	1.103	1.168	1.179	1.241	1.153	5.6
Benzo(g,h,i)perylene	1.118	1.158	1.177	1.174	1.236	1.172	3.6
Fluoranthene-d10	1.098	1.079	1.076	1.082	1.134	1.094	2.2
2-Methylnaphthalene-d10	0.656	0.654	0.647	0.624	0.646	0.645	1.9

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Original with SDG: F9KW7 Case: 45316
DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	826415	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	500325	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	876849	0.40 ug/ml	
15) Chrysene-d12	15.61	240	937520	0.40 ug/ml	
19) Perylene-d12	18.17	264	804866	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	135515	0.100ug/mL	
13) Fluoranthene-d10	13.60	212	240674	0.100ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	221005	0.100ug/ml	93
4) 2-Methylnaphthalene	7.16	142	140108	0.100ug/ml	97
6) Acenaphthylene	8.59	152	214086	0.100ug/ml	96
7) Acenaphthene	8.89	153	140194	0.100ug/ml	98
8) Fluorene	9.79	166	160159	0.100ug/ml	100
10) Pentachlorophenol	0.00	266		No Calib #	
11) Phenanthrene	11.52	178	247892	0.100ug/ml	98
12) Anthracene	11.61	178	231218	0.100ug/ml	96
14) Fluoranthene	13.63	202	283310	0.100ug/ml	91
16) Pyrene	13.97	202	300663	0.100ug/ml	92
17) Benzo(a)anthracene	15.60	228	251019	0.100ug/ml	99
18) Chrysene	15.65	228	263840	0.100ug/ml	98
20) Benzo(b)fluoranthene	17.37	252	244834	0.100ug/ml	100
21) Benzo(k)fluoranthene	17.42	252	246626	0.100ug/ml	99
22) Benzo(a)pyrene	18.05	252	221886	0.100ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	195170	0.100ug/ml	100
24) Dibenzo(a,h)anthracene	21.19	278	216701	0.100ug/ml	99
25) Benzo(g,h,i)perylene	21.99	276	224998	0.100ug/ml	72

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

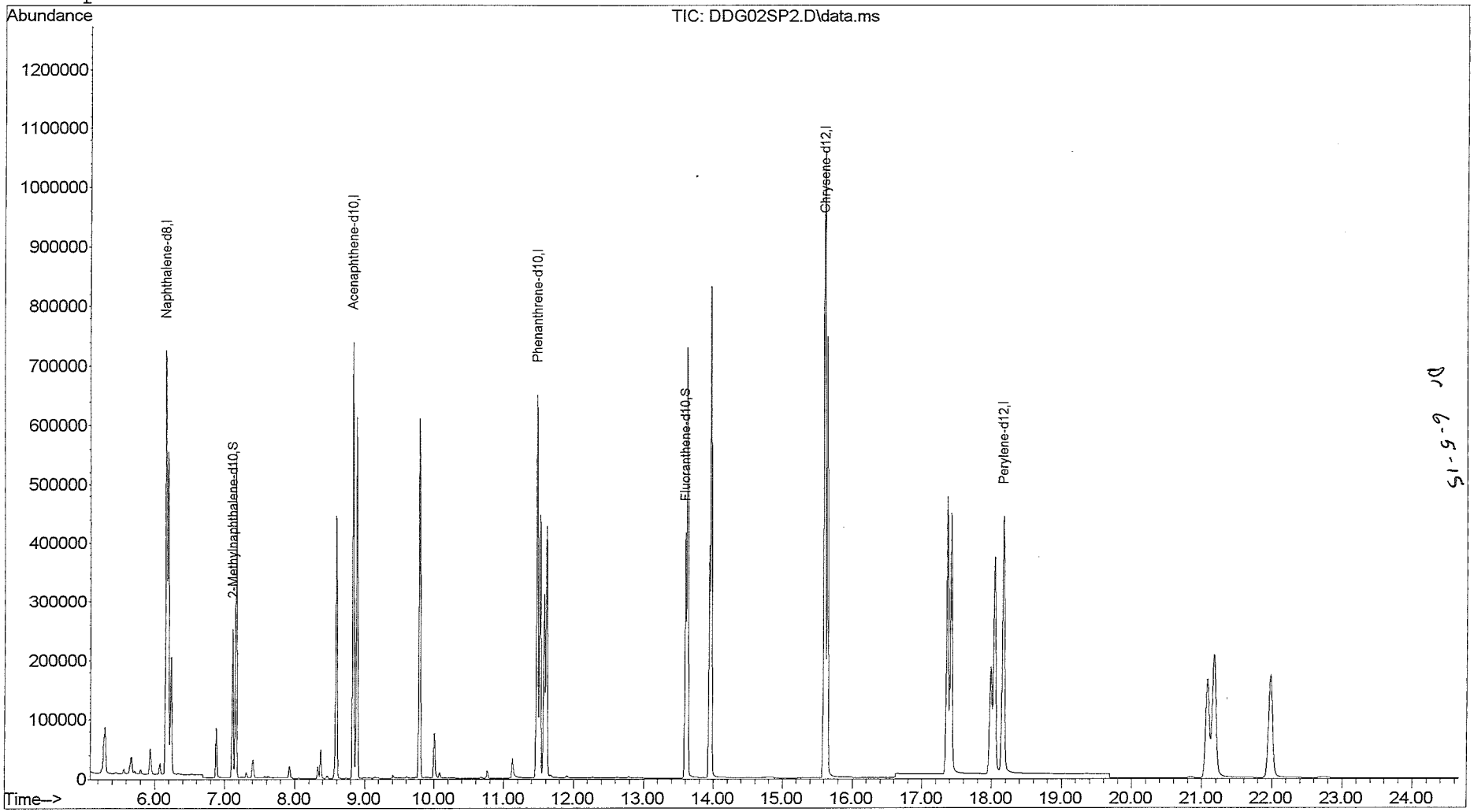
00594

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



DJ 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

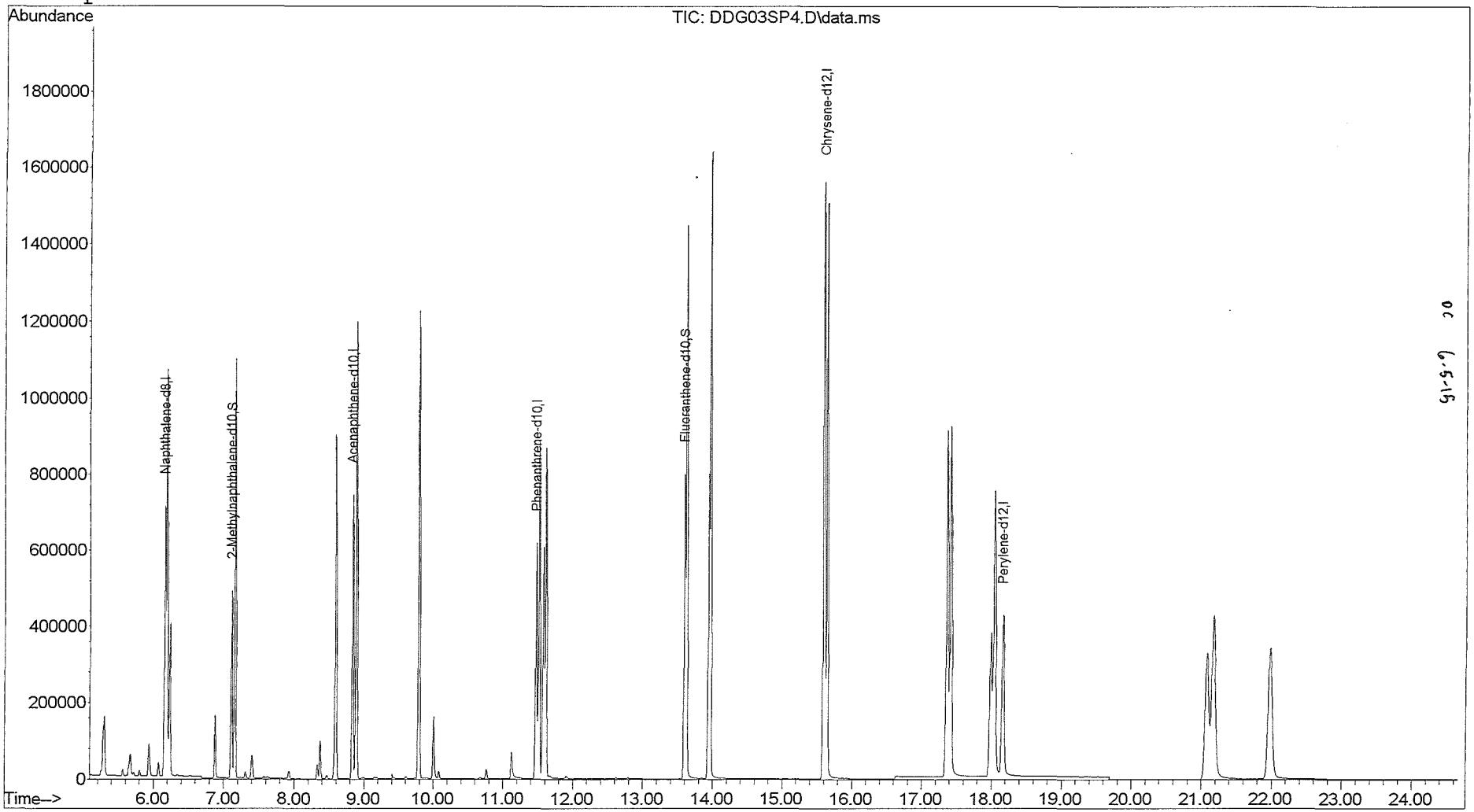
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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

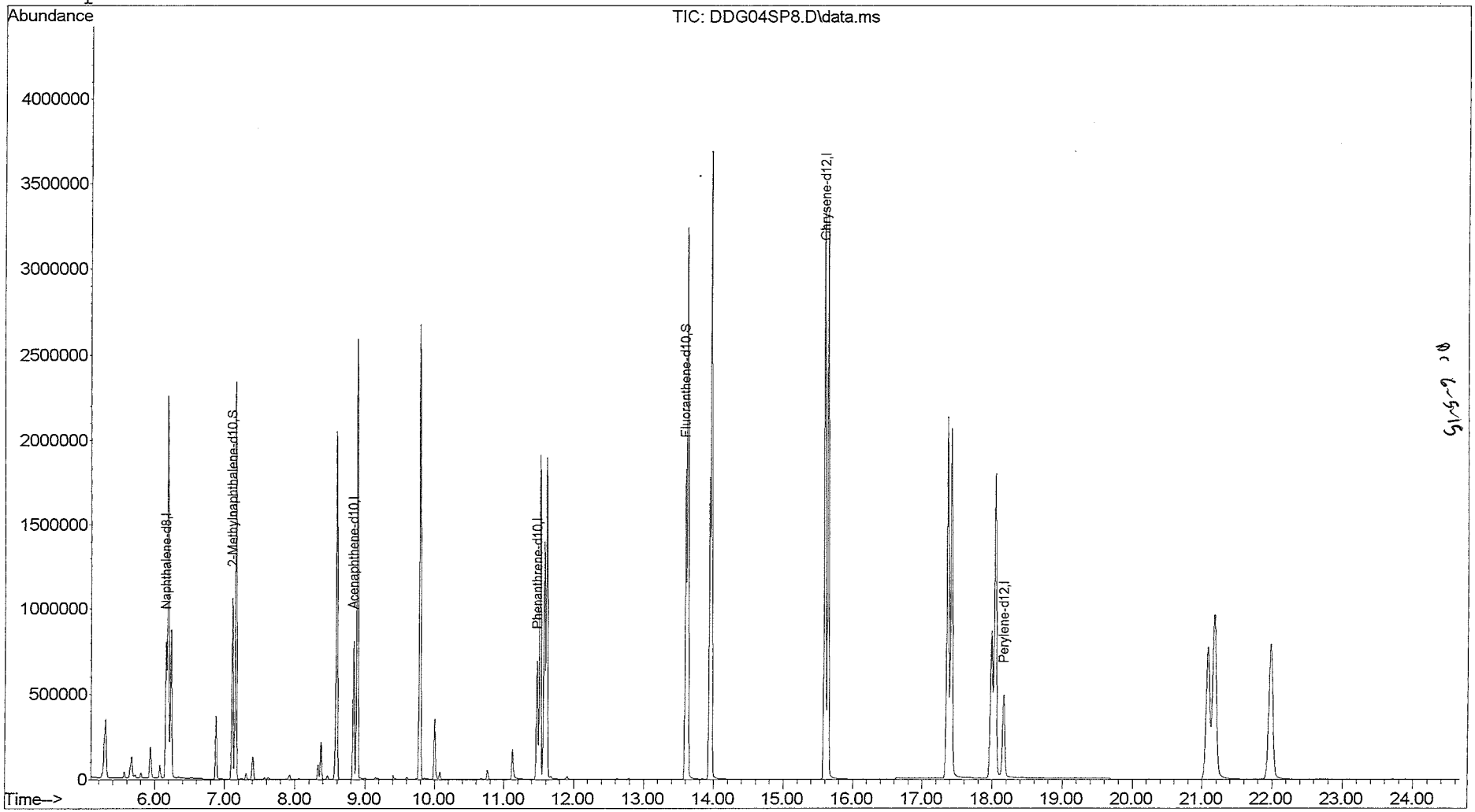
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



6-5-15

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

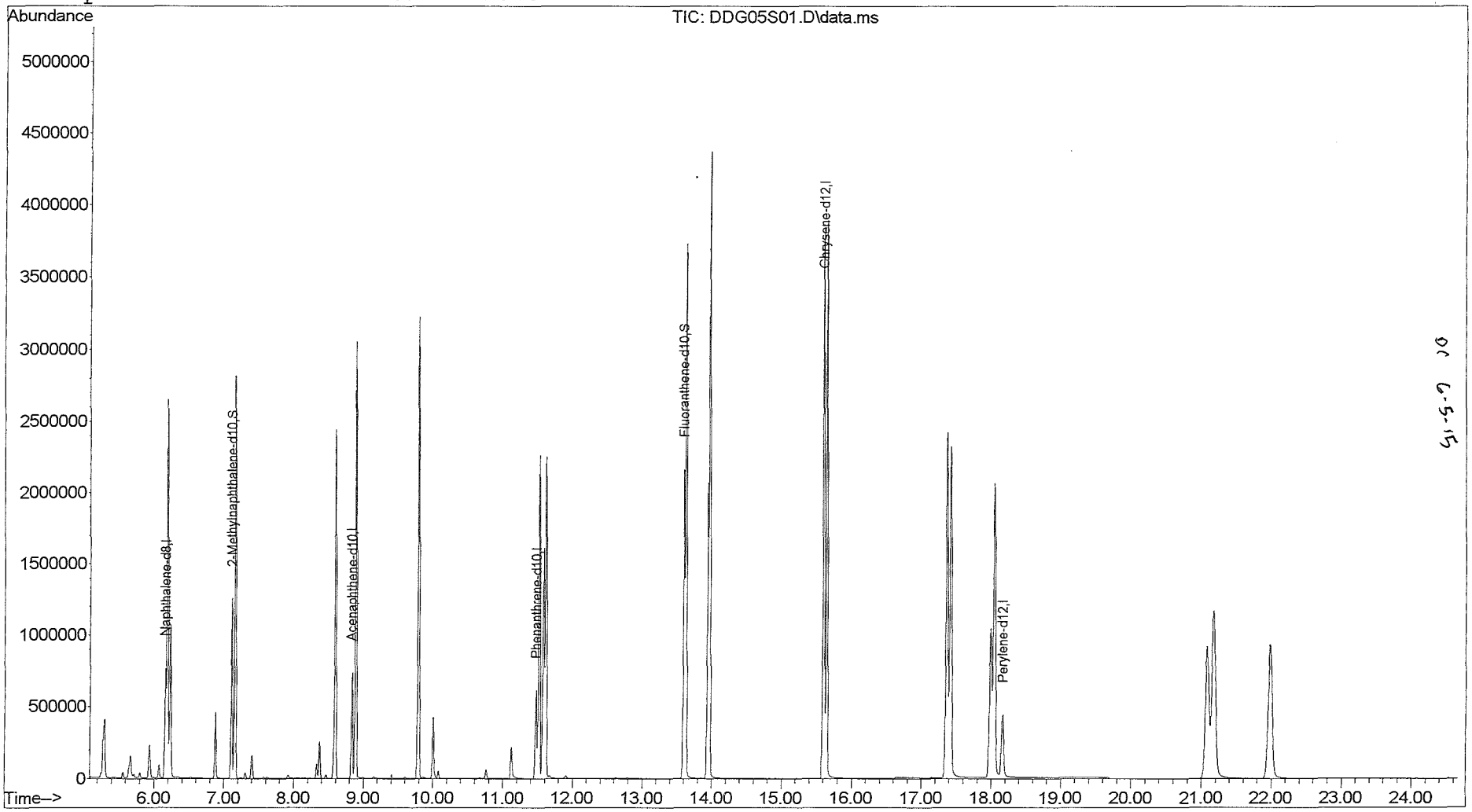
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9KW7

Instrument ID: 5975-D Calibration Date: 06/04/2015 Time: 13:01

Lab File ID: DFT01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DT Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

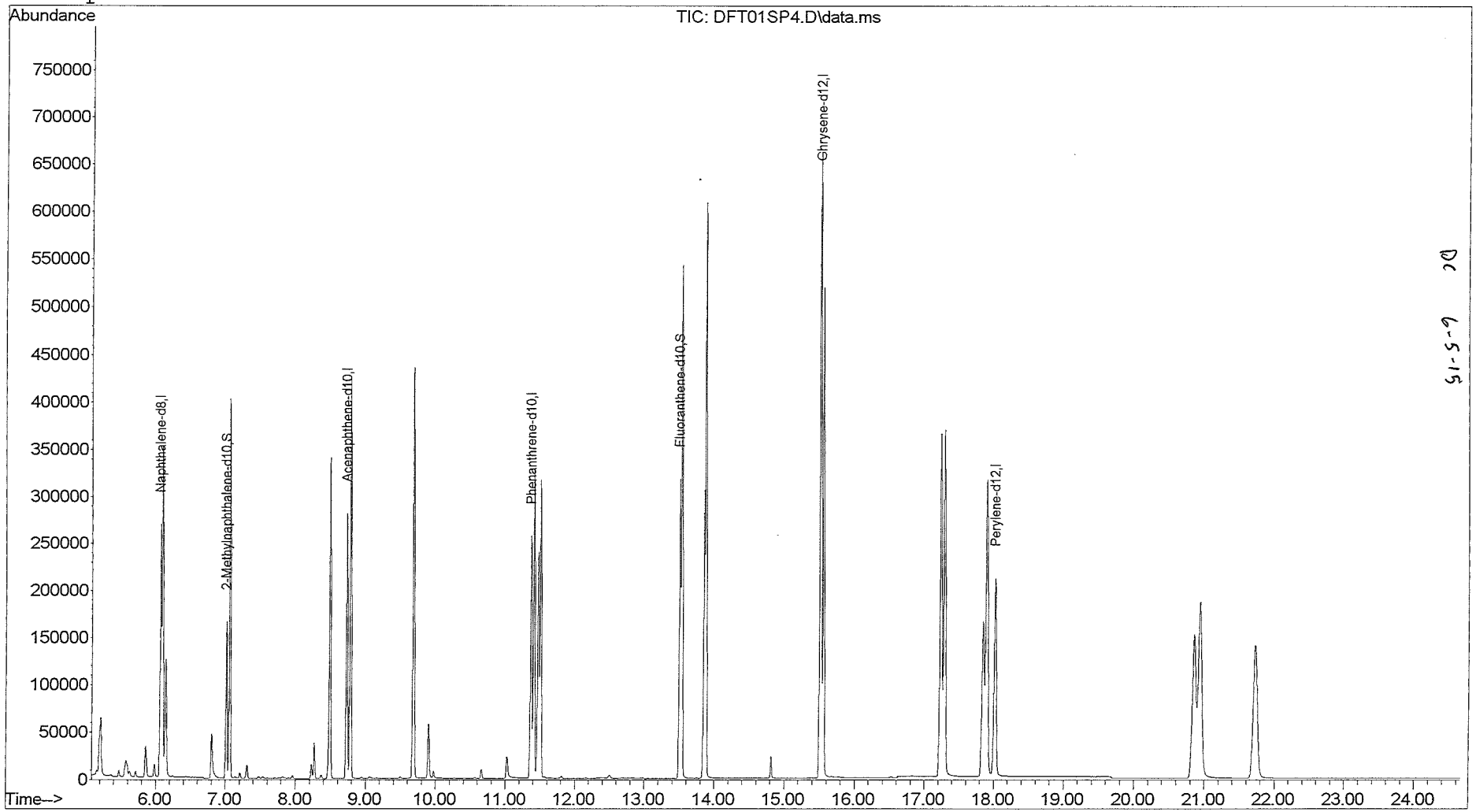
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.985	0.700	-5.5	25.0
2-Methylnaphthalene	0.672	0.657	0.400	-2.2	25.0
Acenaphthylene	1.750	1.681	0.900	-3.9	25.0
Acenaphthene	1.120	1.072	0.900	-4.3	25.0
Fluorene	1.299	1.230	0.900	-5.3	25.0
Pentachlorophenol	0.060	0.052	0.050	-12.8	25.0
Phenanthrene	1.152	1.041	0.700	-9.6	25.0
Anthracene	1.120	1.030	0.700	-8.0	25.0
Fluoranthene	1.311	1.232	0.600	-6.1	25.0
Pyrene	1.255	1.171	0.600	-6.7	25.0
Benzo(a)anthracene	1.067	1.074	0.800	0.7	25.0
Chrysene	1.127	0.981	0.700	-13.0	25.0
Benzo(b)fluoranthene	1.247	1.118	0.700	-10.3	25.0
Benzo(k)fluoranthene	1.292	1.092	0.700	-15.5	25.0
Benzo(a)pyrene	1.191	1.064	0.700	-10.7	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.002	0.500	-3.9	25.0
Dibenzo(a,h)anthracene	1.153	1.040	0.400	-9.8	25.0
Benzo(g,h,i)perylene	1.172	1.019	0.500	-13.1	25.0
Fluoranthene-d10	1.094	1.071	0.010	-2.1	25.0
2-Methylnaphthalene-d10	0.645	0.644	0.010	-0.2	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\04JUN15\DFT01SP4.D Vial: 1
Acq On : 06/04/2015 13:01 Operator: DJC
Sample : SSTD0.4DT 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 04 13:25:48 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 : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



6-5-15 DC

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\04JUN15\DFT01SP4.D Vial: 1
Acq On : 06/04/2015 13:01 Operator: DJC
Sample : SSTD0.4DT 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 04 13:25:48 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 : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	295191	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	188989	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	340399	0.40 ug/ml	
15) Chrysene-d12	15.52	240	379287	0.40 ug/ml	
19) Perylene-d12	18.02	264	368604	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	190208	0.399ug/mL	
13) Fluoranthene-d10	13.50	212	364718	0.392ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	290866	0.378ug/ml	95
4) 2-Methylnaphthalene	7.06	142	193953	0.391ug/ml	98
6) Acenaphthylene	8.49	152	317743	0.384ug/ml	97
7) Acenaphthene	8.78	153	202572	0.383ug/ml	99
8) Fluorene	9.68	166	232528	0.379ug/ml	100
10) Pentachlorophenol	11.03	266	17826	0.349ug/ml	100
11) Phenanthrene	11.41	178	354366	0.362ug/ml	98
12) Anthracene	11.50	178	350714	0.368ug/ml	97
14) Fluoranthene	13.53	202	419204	0.376ug/ml	88
16) Pyrene	13.88	202	444229	0.373ug/ml	88
17) Benzo(a)anthracene	15.51	228	407269	0.403ug/ml	98
18) Chrysene	15.56	228	371924	0.348ug/ml	96
20) Benzo(b)fluoranthene	17.24	252	412081	0.359ug/ml	100
21) Benzo(k)fluoranthene	17.29	252	402353	0.338ug/ml	100
22) Benzo(a)pyrene	17.90	252	392128	0.357ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	369188	0.384ug/ml	100
24) Dibenzo(a,h)anthracene	20.94	278	383351	0.361ug/ml	98
25) Benzo(g,h,i)perylene	21.73	276	375585	0.348ug/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.: F9KW7

Instrument ID: 5975-D Calibration Date: 06/04/2015 Time: 19:32

Lab File ID: DFT14SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4T1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

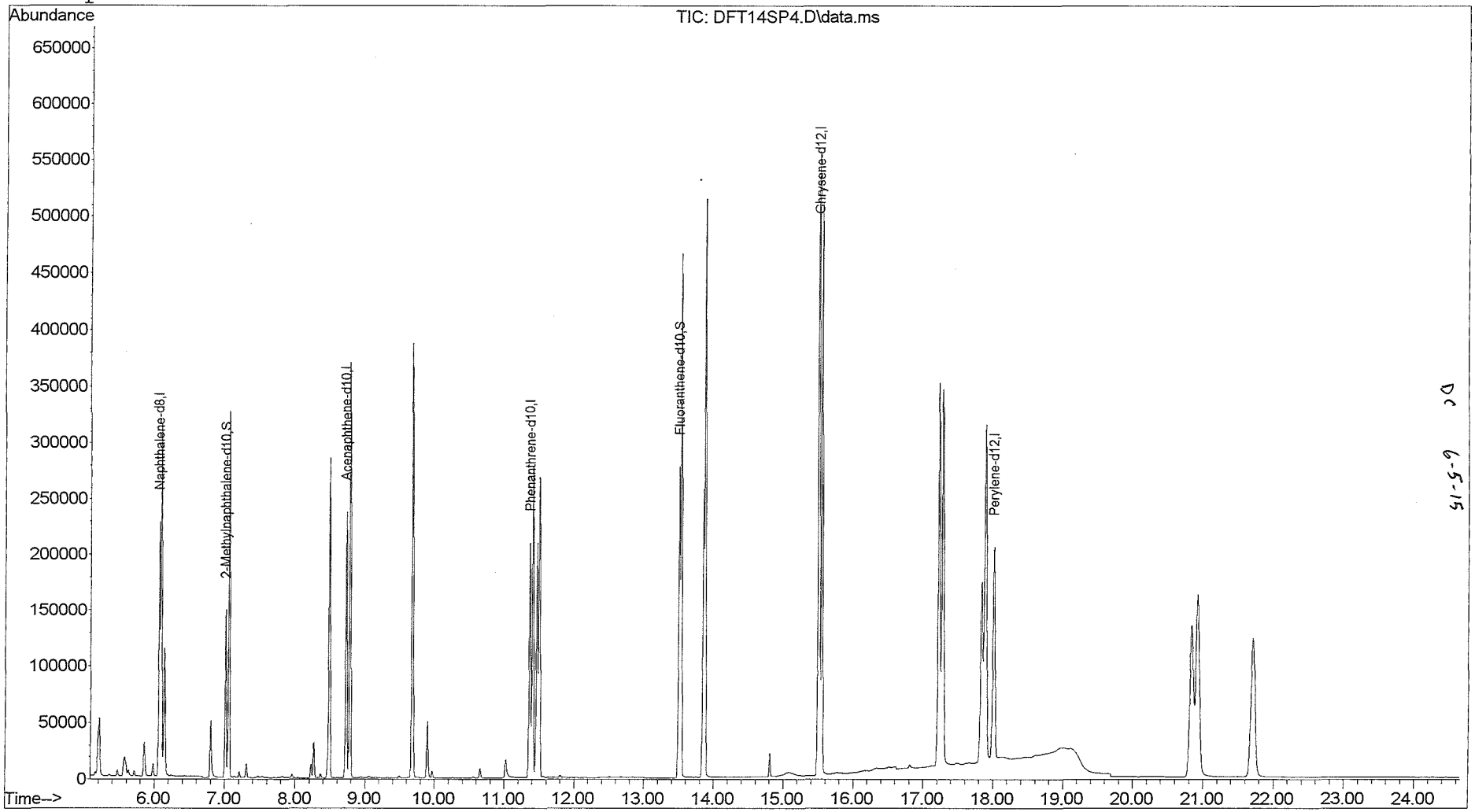
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.990	0.700	-5.1	25.0
2-Methylnaphthalene	0.672	0.659	0.400	-1.9	25.0
Acenaphthylene	1.750	1.693	0.900	-3.3	25.0
Acenaphthene	1.120	1.077	0.900	-3.9	25.0
Fluorene	1.299	1.240	0.900	-4.5	25.0
Pentachlorophenol	0.060	0.049	0.050	-18.8	25.0
Phenanthrene	1.152	1.043	0.700	-9.4	25.0
Anthracene	1.120	1.031	0.700	-8.0	25.0
Fluoranthene	1.311	1.218	0.600	-7.1	25.0
Pyrene	1.255	1.147	0.600	-8.6	25.0
Benzo(a)anthracene	1.067	1.077	0.800	1.0	25.0
Chrysene	1.127	1.025	0.700	-9.1	25.0
Benzo(b)fluoranthene	1.247	1.076	0.700	-13.7	25.0
Benzo(k)fluoranthene	1.292	1.085	0.700	-16.0	25.0
Benzo(a)pyrene	1.191	1.094	0.700	-8.2	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.958	0.500	-8.1	25.0
Dibenzo(a,h)anthracene	1.153	0.999	0.400	-13.4	25.0
Benzo(g,h,i)perylene	1.172	0.955	0.500	-18.6	25.0
Fluoranthene-d10	1.094	1.053	0.010	-3.7	25.0
2-Methylnaphthalene-d10	0.645	0.644	0.010	-0.2	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\04JUN15\DFT14SP4.D Vial: 1
Acq On : 06/04/2015 19:32 Operator: DJC
Sample : SSTD0.4T1 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 04 19:57:33 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 : Fri Jun 05 09:17:22 2015
Response via : Initial Calibration



DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\04JUN15\DFT14SP4.D Vial: 1
Acq On : 06/04/2015 19:32 Operator: DJC
Sample : SSTD0.4T1 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 04 19:57:33 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 : Fri Jun 05 09:17:22 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	252575	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	160689	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	290853	0.40 ug/ml	
15) Chrysene-d12	15.51	240	326996	0.40 ug/ml	
19) Perylene-d12	18.01	264	342999	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	162753	0.399ug/mL	
13) Fluoranthene-d10	13.50	212	306285	0.385ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	250093	0.380ug/ml	94
4) 2-Methylnaphthalene	7.06	142	166432	0.392ug/ml	98
6) Acenaphthylene	8.49	152	272035	0.387ug/ml	97
7) Acenaphthene	8.78	153	173019	0.384ug/ml	99
8) Fluorene	9.68	166	199329	0.382ug/ml	100
10) Pentachlorophenol	11.02	266	14181	0.325ug/ml	100
11) Phenanthrene	11.40	178	303423	0.362ug/ml	98
12) Anthracene	11.50	178	299736	0.368ug/ml	97
14) Fluoranthene	13.53	202	354171	0.372ug/ml	88
16) Pyrene	13.87	202	375064	0.366ug/ml	88
17) Benzo(a)anthracene	15.50	228	352193	0.404ug/ml	98
18) Chrysene	15.55	228	335111	0.364ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	369171	0.345ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	372042	0.336ug/ml	100
22) Benzo(a)pyrene	17.88	252	375212	0.367ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.84	276	328731	0.368ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	342496	0.346ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	327456	0.326ug/ml	70

(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.: F9KW7

Instrument ID: 5975-D Calibration Date: 06/05/2015 Time: 01:28

Lab File ID: DFT26SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4T2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

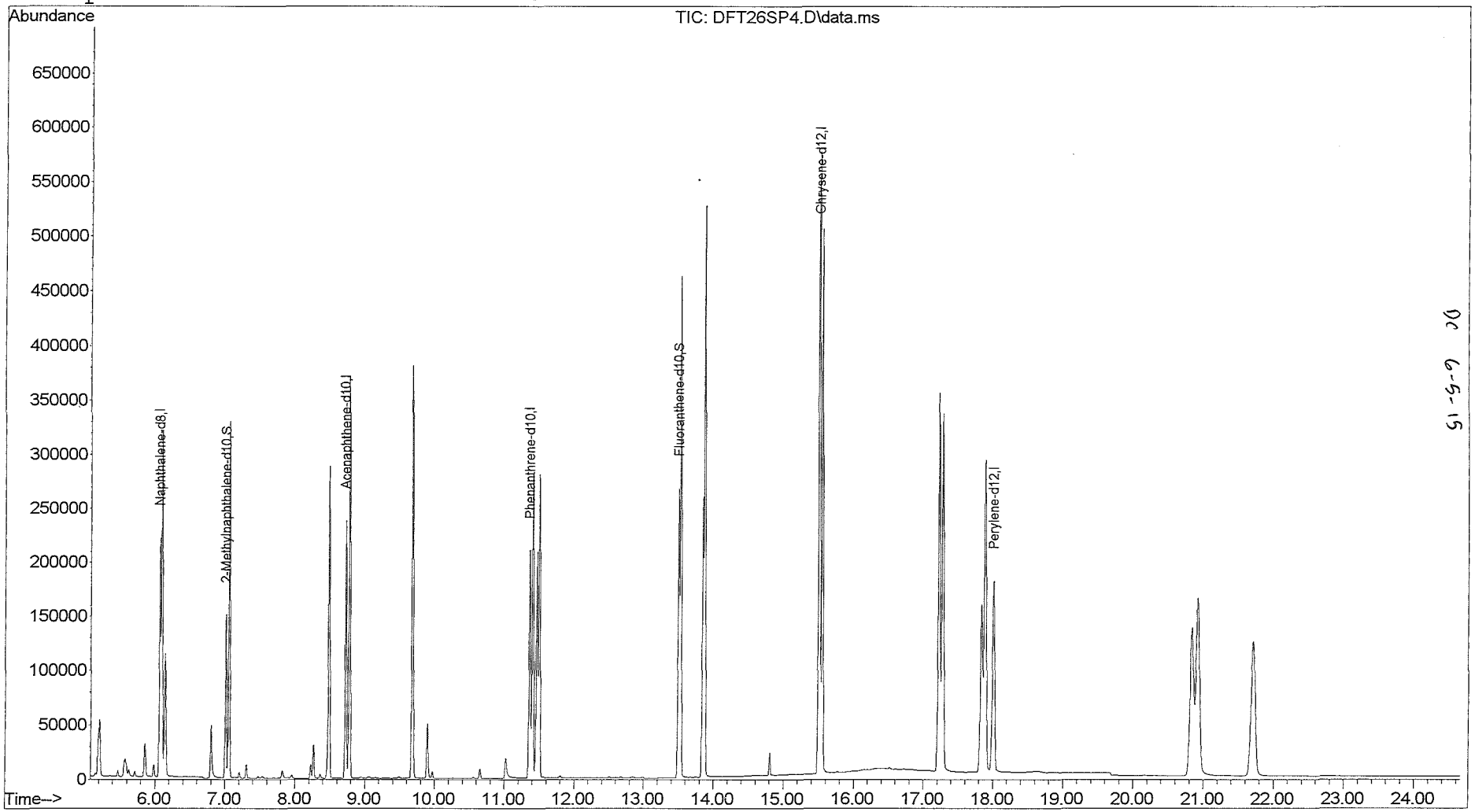
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.996	0.010	-4.5	50.0
2-Methylnaphthalene	0.672	0.662	0.010	-1.4	50.0
Acenaphthylene	1.750	1.714	0.010	-2.1	50.0
Acenaphthene	1.120	1.085	0.010	-3.1	50.0
Fluorene	1.299	1.250	0.010	-3.8	50.0
Pentachlorophenol	0.060	0.056	0.010	-6.0	50.0
Phenanthrene	1.152	1.058	0.010	-8.1	50.0
Anthracene	1.120	1.050	0.010	-6.2	50.0
Fluoranthene	1.311	1.242	0.010	-5.2	50.0
Pyrene	1.255	1.161	0.010	-7.5	50.0
Benzo(a)anthracene	1.067	1.104	0.010	3.5	50.0
Chrysene	1.127	1.040	0.010	-7.8	50.0
Benzo(b)fluoranthene	1.247	1.121	0.010	-10.1	50.0
Benzo(k)fluoranthene	1.292	1.131	0.010	-12.4	50.0
Benzo(a)pyrene	1.191	1.083	0.010	-9.1	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.005	0.010	-3.6	50.0
Dibenzo(a,h)anthracene	1.153	1.053	0.010	-8.7	50.0
Benzo(g,h,i)perylene	1.172	1.004	0.010	-14.4	50.0
Fluoranthene-d10	1.094	1.082	0.010	-1.1	50.0
2-Methylnaphthalene-d10	0.645	0.648	0.010	0.3	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\04JUN15\DFT26SP4.D Vial: 24
Acq On : 06/05/2015 01:28 Operator: DJC
Sample : SSTD0.4T2 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 01:52:50 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 : Fri Jun 05 09:17:54 2015
Response via : Initial Calibration



DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\04JUN15\DFT26SP4.D Vial: 24
Acq On : 06/05/2015 01:28 Operator: DJC
Sample : SSTD0.4T2 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 05 01:52:50 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 : Fri Jun 05 09:17:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	253936	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	160525	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	288829	0.40 ug/ml	
15) Chrysene-d12	15.51	240	328350	0.40 ug/ml	
19) Perylene-d12	18.01	264	327417	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	164426	0.401ug/mL	
13) Fluoranthene-d10	13.50	212	312433	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	253026	0.382ug/ml	94
4) 2-Methylnaphthalene	7.06	142	168121	0.394ug/ml	98
6) Acenaphthylene	8.49	152	275154	0.392ug/ml	97
7) Acenaphthene	8.78	153	174231	0.388ug/ml	99
8) Fluorene	9.68	166	200635	0.385ug/ml	100
10) Pentachlorophenol	11.02	266	16303	0.376ug/ml	100
11) Phenanthrene	11.40	178	305704	0.368ug/ml	98
12) Anthracene	11.50	178	303324	0.375ug/ml	97
14) Fluoranthene	13.53	202	358838	0.379ug/ml	88
16) Pyrene	13.87	202	381140	0.370ug/ml	88
17) Benzo(a)anthracene	15.50	228	362412	0.414ug/ml	98
18) Chrysene	15.55	228	341364	0.369ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	367138	0.360ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	370398	0.350ug/ml	100
22) Benzo(a)pyrene	17.88	252	354574	0.364ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	329189	0.386ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	344696	0.365ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	328734	0.343ug/ml	70

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

00611

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFT02BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

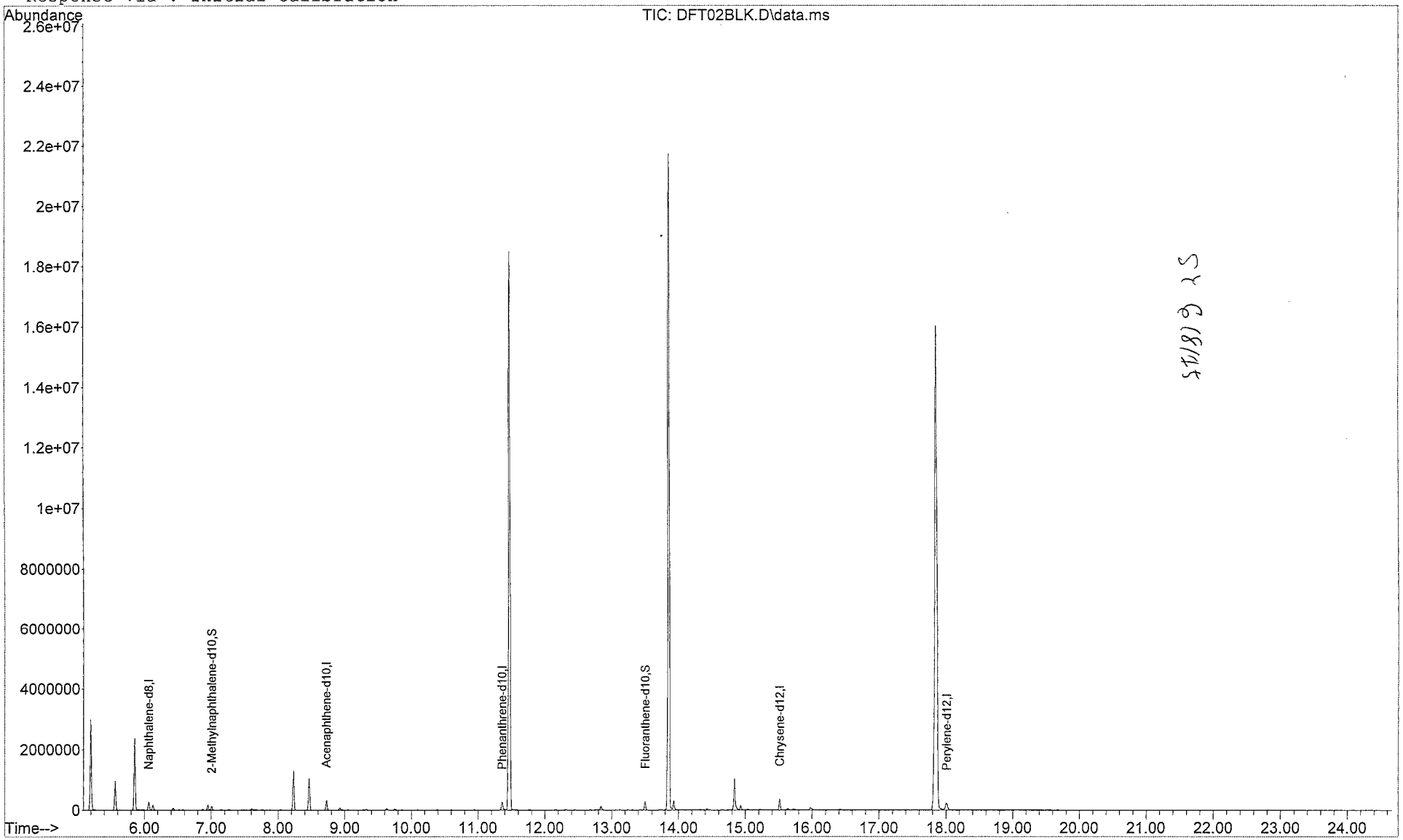
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	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\04JUN15\DFT02BLK.D Vial: 2
Acq On : 06/04/2015 13:31 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:51:56 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



S7 of 18/45

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT02BLK.D Vial: 2
Acq On : 06/04/2015 13:31 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:51:56 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	305275	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	217806	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	393207	0.40 ug/ml
15) Chrysene-d12	15.51	240	400860	0.40 ug/ml
19) Perylene-d12	18.01	264	421165	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	136542	0.277ug/mL
13) Fluoranthene-d10	13.50	212	325389	0.303ug/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	

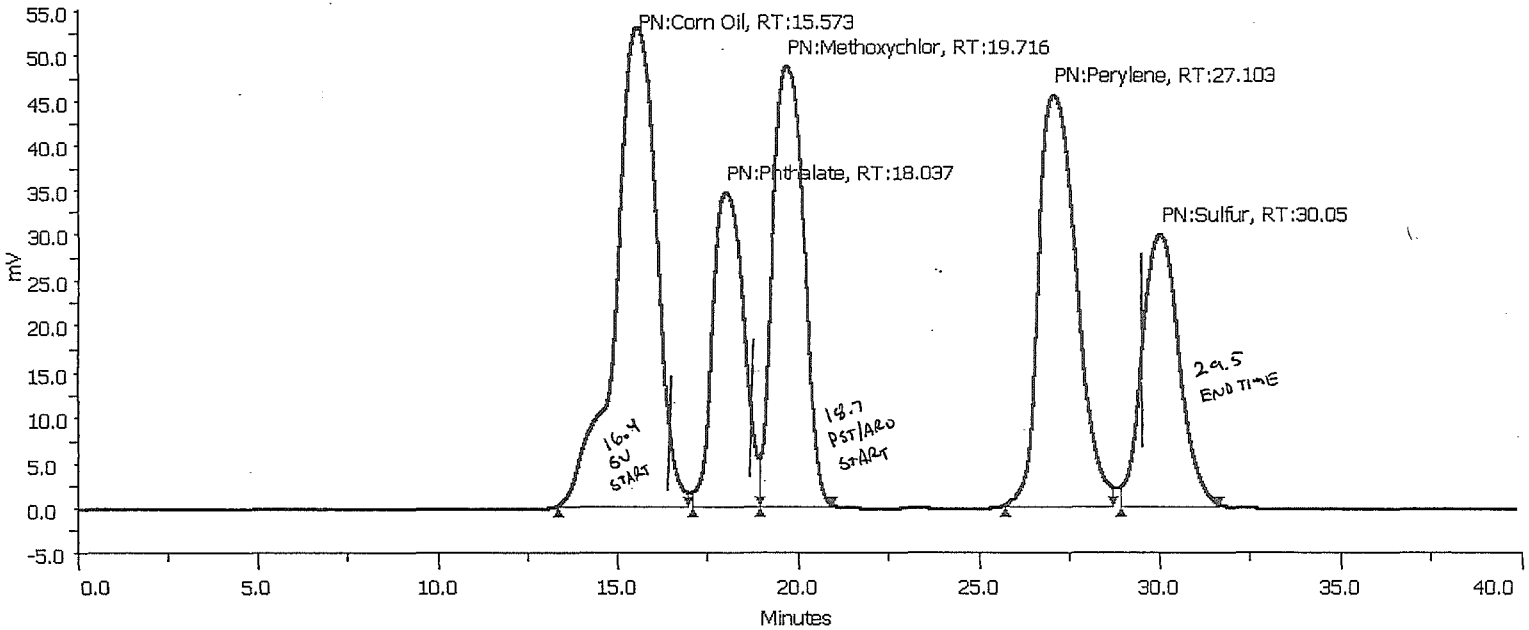
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
SOMO 1.2/2.2
5/19/15
Lyle Edmb
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05192015-072841 @ 5/19/2015 7:28:45 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.347	15.573	6918660.8333	52.86	0	90.744
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.107	18.037	3413118.75	34.35	90.744	87.116
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.962	19.716	4843820	48.35	87.116	296.836
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.777	27.103	5473534.5833	45.19	296.836	103.771
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.947	30.05	3544075	29.64	103.771	0

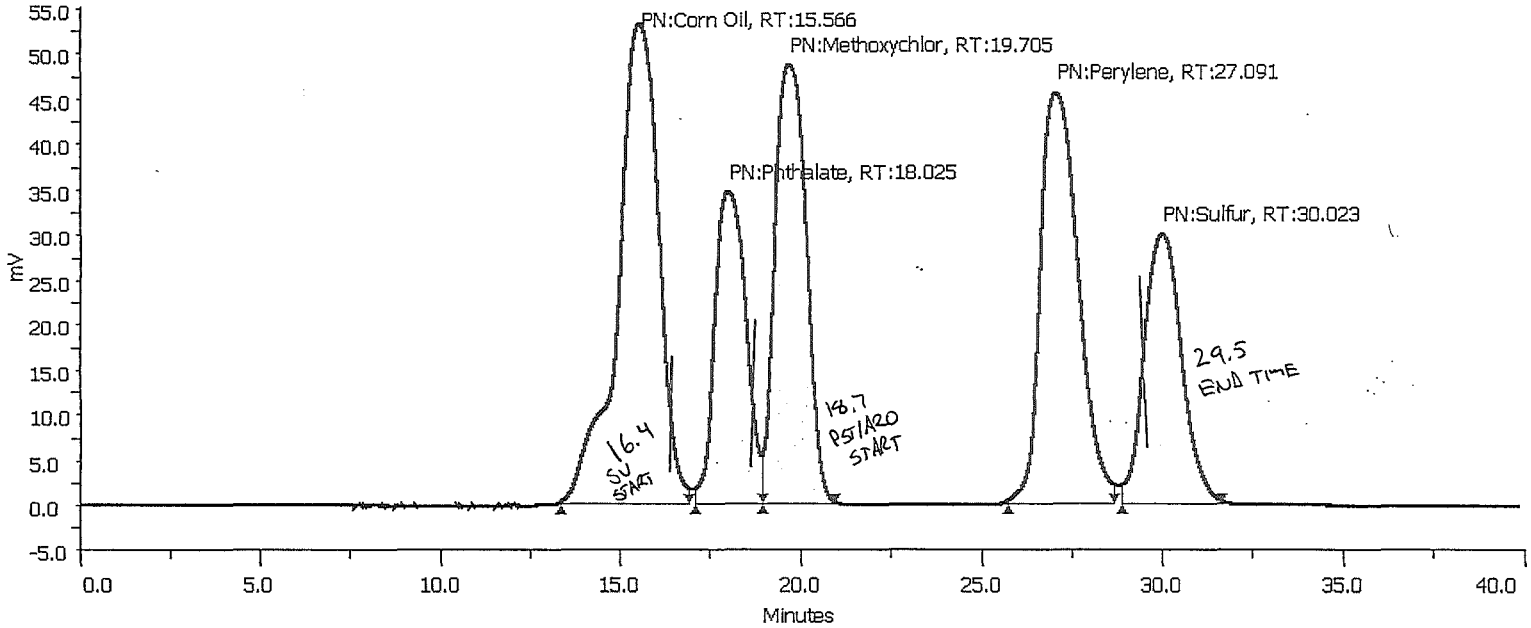
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
5/7/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05072015-081942 @ 5/7/2015 8:19:44 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.338	15.566	6938642.0833	52.96	0	90.535
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.097	18.025	3431551.25	34.39	90.535	87.084
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.958	19.705	4860551.6667	48.42	87.084	296.273
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.739	27.091	5490984.5833	45.3	296.273	103.076
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.931	30.023	3562237.9167	29.71	103.076	0

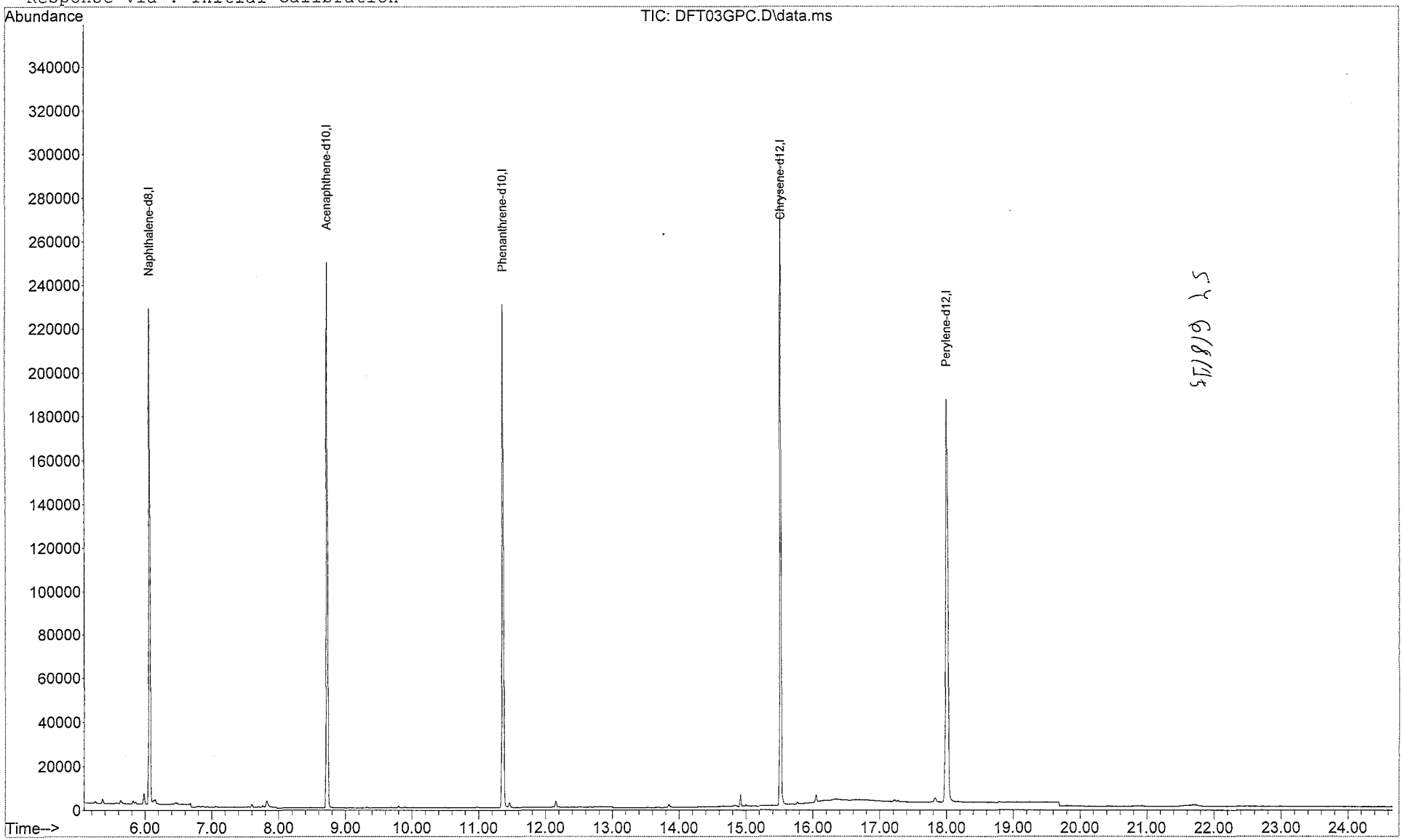
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT03GPC.D Vial: 3
Acq On : 06/04/2015 14:02 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 06:52:51 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



57 6/8/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\04JUN15\DFT03GPC.D Vial: 3
Acq On : 06/04/2015 14:02 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 08 06:52:51 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	268768	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	172098	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	314548	0.40 ug/ml
15) Chrysene-d12	15.51	240	339054	0.40 ug/ml
19) Perylene-d12	18.00	264	335182	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	0.00	152	0	0.000ug/mL
13) Fluoranthene-d10	0.00	212	0	0.000ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

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

Batch Worklist

Batch: ESVO/ 4966 Created: 6/5/2015 12:53 Instrument: 5975-D HBN: 149978

Rule: SOM SVOA, Soil Analyst: S. Yourstone Status: WP

Workorder: 1513978 SDG: F9KW7 Case: 45316

Workorder: 1514052 SDG: F9KW7 Case: 45316

Workorder: 1514071 SDG: F9KW7 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	447823	MB for HBN 149070 [ENVX/21624]	30 grams	.5 mL		MB	4		SOMSVOAS.4	6158	7/5/2015	6/8/2015	6/5/2015
2	1513978001	F9KW7	30.3 grams	.5 mL		SAMPLE	4	1513978001-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
3	1513978002	F9KW8	30.3 grams	.5 mL		SAMPLE	4	1513978002-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
4	1513978003	F9KW9	30.2 grams	.5 mL		SAMPLE	4	1513978003-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
5	1513978004	F9KX0	30.36 grams	.5 mL		SAMPLE	4	1513978004-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
6	1513978005	F9KX1	30.27 grams	.5 mL		SAMPLE	4	1513978005-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
7	1513978006	F9KX5	30.28 grams	.5 mL		SAMPLE	4	1513978006-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
8	1513978007	F9KY4	30.25 grams	.5 mL		SAMPLE	4	1513978007-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
9	1513978008	F9KY5	30.4 grams	.5 mL		SAMPLE	4	1513978008-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
10	1513978009	F9KY6	30.37 grams	.5 mL		SAMPLE	4	1513978009-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
11	1513978010	F9KY7	30.47 grams	.5 mL		SAMPLE	4	1513978010-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
12	1513978011	F9L28	30.36 grams	.5 mL		SAMPLE	4	1513978011-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
13	1513978012	F9L29	30.4 grams	.5 mL		SAMPLE	4	1513978012-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
14	1513978013	F9L30	30.08 grams	.5 mL		SAMPLE	4	1513978013-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
15	1514052001	F9K71	30.22 grams	.5 mL		SAMPLE	4	1514052001-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
16	1514052002	F9K72	30.45 grams	.5 mL		SAMPLE	4	1514052002-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
17	1514052003	F9K73	30.33 grams	.5 mL		SAMPLE	4	1514052003-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
18	1514052004	F9K77	30.5 grams	.5 mL		SAMPLE	4	1514052004-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
19	1514052005	F9K78	30.13 grams	.5 mL		SAMPLE	4	1514052005-A	S12SVOAS.4	5936	7/5/2015	6/9/2015	6/5/2015
20	1514071001	F9KR0	30.17 grams	.5 mL		SAMPLE	4	1514071001-A	S12SVOAS.4	5936	7/5/2015	6/8/2015	6/5/2015
21	1514071002	F9KX4	30.15 grams	.5 mL		SAMPLE	4	1514071002-A	S12SVOAS.4	5936	7/5/2015	6/8/2015	6/5/2015

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
DFG01S20	05/21/2015 13:45	DJC	DSOM02A2	1	25.96	1	SSTD020DG 28104 DFTPPDG	X6-19-15
DFG02S20	05/21/2015 14:38	DJC	DSOM02A3	1	25.96	1	SSTD020DG 28104 DFTPPDG	X6-19-15
DFG03S05	05/21/2015 15:14	DJC	DSOM02A3	2	25.96	1	SSTD005DG 28102	X6-19-15
DFG04S10	05/21/2015 15:48	DJC	DSOM02A3	3	25.96	1	SSTD010DG 28103	X6-19-15
DFG05S40	05/21/2015 16:22	DJC	DSOM02A3	4	25.96	1	SSTD040DG 28105	X6-19-15
DFG06S80	05/21/2015 16:56	DJC	DSOM02A3	5	25.96	1	SSTD080DG 28106	X6-19-15
DFG07S16	05/21/2015 17:31	DJC	DSOM02A3	6	25.96	1	SSTD160DG 28107	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
DFL01S20	05/27/2015 08:33	DJC	DSOM01D5	1	25.96	1	SSTD020DL 28104 DFTPPDL	X6-19-15
DFL02BLK	05/27/2015 09:25	DJC	DSOM01D5	2	25.96	1	447823 SBLK23	SOIL SOM
DFL03GPC	05/27/2015 09:59	DJC	DSOM01D5	3	25.96	1	448205 GBLK05	SOIL SOM
DFL04BLK	05/27/2015 10:32	DJC	DSOM01D5	4	25.96	1	447974 SBLK74	WATER SOM
DFL05B01	05/27/2015 11:06	DJC	DSOM01D5	5	25.96	1	1513988001 SP-1 Infl	WATER SOM
DFL06F02	05/27/2015 11:39	DJC	DSOM01D5	6	25.96	1	1513978002 F9KW8	SOIL SOM
DFL07F03	05/27/2015 12:13	DJC	DSOM01D5	7	25.96	1	1513978003 F9KW9	SOIL SOM
DFL08F06	05/27/2015 12:46	DJC	DSOM01D5	8	25.96	1	1513978006 F9KX5	SOIL SOM
DFL09F08	05/27/2015 13:20	DJC	DSOM01D5	9	25.96	1	1513978008 F9KY5	SOIL SOM
DFL10F12	05/27/2015 13:53	DJC	DSOM01D5	10	25.96	1	1513978012 F9L29	SOIL SOM
DFL11F02	05/27/2015 14:27	DJC	DSOM01D5	11	25.96	1	1514052002 F9K72	SOIL SOM
DFL12F03	05/27/2015 15:00	DJC	DSOM01D5	12	25.96	1	1514052003 F9K73	SOIL SOM
DFL13F05	05/27/2015 15:33	DJC	DSOM01D5	13	25.96	1	1514052005 F9K78	SOIL SOM
DFL14F01	05/27/2015 16:06	DJC	DSOM01D5	14	25.96	1	1514071001 F9KR0	SOIL SOM
DFL15F02	05/27/2015 16:39	DJC	DSOM01D5	15	25.96	1	1514071002 F9KX4	SOIL SOM
DFL16S20	05/27/2015 17:12	DJC	DSOM01D5	1	25.96	1	SSTD020L1 28104 DFTPPL1	X6-19-15
DFL17S20	05/27/2015 17:44	DJC	DSOM01D5	1	25.96	1	SSTD020L1 28104 DFTPPL1	X6-19-15
DFL18F01	05/27/2015 18:17	DJC	DSOM01D5	16	25.96	1	1513978001 F9KW7 (10)	SOIL SOM
DFL19F04	05/27/2015 18:50	DJC	DSOM01D5	17	25.96	1	1513978004 F9KX0 (10)	SOIL SOM
DFL20F05	05/27/2015 19:22	DJC	DSOM01D5	18	25.96	1	1513978005 F9KX1 (10)	SOIL SOM
DFL21F07	05/27/2015 19:55	DJC	DSOM01D5	19	25.96	1	1513978007 F9KY4 (5)	SOIL SOM
DFL22F09	05/27/2015 20:27	DJC	DSOM01D5	20	25.96	1	1513978009 F9KY6 (10)	SOIL SOM
DFL23F10	05/27/2015 20:59	DJC	DSOM01D5	21	25.96	1	1513978010 F9KY7 (10)	SOIL SOM
DFL24F11	05/27/2015 21:32	DJC	DSOM01D5	22	25.96	1	1513978011 F9L28 (10)	SOIL SOM
DFL25F13	05/27/2015 22:04	DJC	DSOM01D5	23	25.96	1	1513978013 F9L30 (10)	SOIL SOM
DFL26F01	05/27/2015 22:36	DJC	DSOM01D5	24	25.96	1	1514052001 F9K71 (5)	SOIL SOM
DFL27F04	05/27/2015 23:08	DJC	DSOM01D5	25	25.96	1	1514052004 F9K77 (10)	SOIL SOM
DFL28S20	05/27/2015 23:41	DJC	DSOM01D5	26	25.96	1	SSTD020L2 28104 DFTPPL2	X6-19-15
DFL29S20	05/28/2015 00:13	DJC	DSOM01D5	26	25.96	1	SSTD020L2 28104 DFTPPL2	X6-19-15
DFL30S20	05/28/2015 00:45	DJC	DSOM01D5	26	25.96	1	SSTD020L2 28104 DFTPPL2	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
DFM17S20	05/28/2015 09:45	DJC	DSOM01D5	1	25.96	1	SSTD020DM 28104 DFTPPDM	X6-19-15
DFM18F01	05/28/2015 10:18	DJC	DSOM01D5	16	25.96	1	1513978001 F9KW7 (10)	SOIL SOM
DFM19F04	05/28/2015 10:53	DJC	DSOM01D5	17	25.96	1	1513978004 F9KX0 (10)	SOIL SOM
DFM20F05	05/28/2015 11:28	DJC	DSOM01D5	18	25.96	1	1513978005 F9KX1 (10)	SOIL SOM
DFM21F07	05/28/2015 12:02	DJC	DSOM01D5	19	25.96	1	1513978007 F9KY4 (5)	SOIL SOM
DFM22F09	05/28/2015 12:36	DJC	DSOM01D5	20	25.96	1	1513978009 F9KY6 (10)	SOIL SOM
DFM23F10	05/28/2015 13:10	DJC	DSOM01D5	21	25.96	1	1513978010 F9KY7 (10)	SOIL SOM
DFM24F11	05/28/2015 13:44	DJC	DSOM01D5	22	25.96	1	1513978011 F9L28 (10)	SOIL SOM
DFM25F13	05/28/2015 14:18	DJC	DSOM01D5	23	25.96	1	1513978013 F9L30 (10)	SOIL SOM
DFM26F01	05/28/2015 14:51	DJC	DSOM01D5	24	25.96	1	1514052001 F9K71 (5)	SOIL SOM
DFM27F04	05/28/2015 15:25	DJC	DSOM01D5	25	25.96	1	1514052004 F9K77 (10)	SOIL SOM
DFM28S20	05/28/2015 15:59	DJC	DSOM01D5	1	25.96	1	SSTD020M1 28104 DFTPPM1	X6-19-15

Batch Worklist

Batch: ENVX/ 21624 Created: 5/21/2015 05:31 Instrument: HBN: 149070

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1513978 SDG: F9KW7 Case: 45316

Workorder: 1514052 SDG: F9KW7 Case: 45316

Workorder: 1514071 SDG: F9KW7 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	447823	MB for HBN 149070 [ENVX/21624]		0.5 ml		MB	4		SNCTNSV.4P	6158	5/31/2015	5/20/2015	
2	1513978001	F9KW7	30.30 g			SAMPLE	4	1513978001-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
3	1513978002	F9KW8	30.30 g			SAMPLE	4	1513978002-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
4	1513978003	F9KW9	30.20 g			SAMPLE	4	1513978003-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
5	1513978004	F9KX0	30.36 g			SAMPLE	4	1513978004-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
6	1513978005	F9KX1	30.27 g			SAMPLE	4	1513978005-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
7	1513978006	F9KX5	30.28 g			SAMPLE	4	1513978006-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
8	1513978007	F9KY4	30.25 g			SAMPLE	4	1513978007-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
9	1513978008	F9KY5	30.40 g			SAMPLE	4	1513978008-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
10	1513978009	F9KY6	30.37 g			SAMPLE	4	1513978009-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
11	1513978010	F9KY7	30.47 g			SAMPLE	4	1513978010-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
12	1513978011	F9L28	30.36 g			SAMPLE	4	1513978011-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
13	1513978012	F9L29	30.40 g			SAMPLE	4	1513978012-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
14	1513978013	F9L30	30.08 g			SAMPLE	4	1513978013-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
15	1514052001	F9K71	30.22 g			SAMPLE	4	1514052001-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
16	1514052002	F9K72	30.45 g			SAMPLE	4	1514052002-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
17	1514052003	F9K73	30.33 g			SAMPLE	4	1514052003-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
18	1514052004	F9K77	30.50 g			SAMPLE	4	1514052004-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
19	1514052005	F9K78	30.13 g			SAMPLE	4	1514052005-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
20	1514071001	F9KR0	30.17 g			SAMPLE	4	1514071001-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
21	1514071002	F9KX4	30.15 g			SAMPLE	4	1514071002-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	

some SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316/F9FW7 Horizon Extraction HBN 149070

Work Order# 1513978 1514052 1514071 Sample #'s 1-13, 1-5, 1-2 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SU-SIM/SV Matrix SOIL

Date samples weighed out 5/21/15 by OE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/21/15 0700 Stop Date/Time (CLLE's/Soxlet) OE Extracted by OE

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Hexane/Ether ( )	☐ Acetonitrile ☑ CH_2Cl_2/Acetone (1:1)	☐ Hexane ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JT BAKER	OE	JT BAKER	B&J	
Lot Number	189485		97683	DL683	
Amount	PER SOP		PER SOP	PER SOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1mL			
Spiked By	OE			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *	OE			
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 5/21/15 9:00 by MJC Comments The Temp was 63°C

Final Concentration: Date/Time 5/22/15 9:00 by MJC Comments The Temp was 64°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [signature] **Date** 5/22/15

Batch Worklist

Batch: ENVX/ 21645 Created: 5/24/2015 09:03 Instrument: GPC06 HBN: 149235
Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1513978 SDG: F9KW7 Case: 45316
Workorder: 1514052 SDG: F9KW7 Case: 45316
Workorder: 1514071 SDG: F9KW7 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448205	GB for HBN 149235 [ENVX/21645]				GB	4		E.GPC.SV.P	6158		5/25/2015	5/21/2015
2	447823	MB for HBN 149070 [ENVX/21624]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		5/22/2015	5/21/2015
3	1513978001	F9KW7	30.3 grams	.5 mL		SAMPLE	4	1513978001-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
4	1513978002	F9KW8	30.3 grams	.5 mL		SAMPLE	4	1513978002-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
5	1513978003	F9KW9	30.2 grams	.5 mL		SAMPLE	4	1513978003-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
6	1513978004	F9KX0	30.36 grams	.5 mL		SAMPLE	4	1513978004-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
7	1513978005	F9KX1	30.27 grams	.5 mL		SAMPLE	4	1513978005-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
8	1513978006	F9KX5	30.28 grams	.5 mL		SAMPLE	4	1513978006-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
9	1513978007	F9KY4	30.25 grams	.5 mL		SAMPLE	4	1513978007-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
10	1513978008	F9KY5	30.4 grams	.5 mL		SAMPLE	4	1513978008-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
11	1513978009	F9KY6	30.37 grams	.5 mL		SAMPLE	4	1513978009-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
12	1513978010	F9KY7	30.47 grams	.5 mL		SAMPLE	4	1513978010-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
13	1513978011	F9L28	30.36 grams	.5 mL		SAMPLE	4	1513978011-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
14	1513978012	F9L29	30.4 grams	.5 mL		SAMPLE	4	1513978012-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
15	1513978013	F9L30	30.08 grams	.5 mL		SAMPLE	4	1513978013-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
16	1514052001	F9K71	30.22 grams	.5 mL		SAMPLE	4	1514052001-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
17	1514052002	F9K72	30.45 grams	.5 mL		SAMPLE	4	1514052002-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
18	1514052003	F9K73	30.33 grams	.5 mL		SAMPLE	4	1514052003-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
19	1514052004	F9K77	30.5 grams	.5 mL		SAMPLE	4	1514052004-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
20	1514052005	F9K78	30.13 grams	.5 mL		SAMPLE	4	1514052005-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
21	1514071001	F9KR0	30.17 grams	.5 mL		SAMPLE	4	1514071001-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
22	1514071002	F9KX4	30.15 grams	.5 mL		SAMPLE	4	1514071002-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015

Batch Worklist

Batch: ESVO/ 4968 Created: 6/8/2015 08:59 Instrument: 5975-D HBN: 150072
Rule: SOM SVOA SIM, Soil Analyst: S. Yourstone Status: WP

Workorder: 1513978 SDG: F9KW7 Case: 45316
Workorder: 1514052 SDG: F9KW7 Case: 45316
Workorder: 1514071 SDG: F9KW7 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	447823	MB for HBN 149070 [ENVX/21624]	30 grams	.5 mL		MB	4		SOMSVOASS4	6158	7/5/2015	6/8/2015	6/8/2015
2	1513978001	F9KW7	30.3 grams	.5 mL		SAMPLE	4	1513978001-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
3	1513978002	F9KW8	30.3 grams	.5 mL		SAMPLE	4	1513978002-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
4	1513978003	F9KW9	30.2 grams	.5 mL		SAMPLE	4	1513978003-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
5	1513978004	F9KX0	30.36 grams	.5 mL		SAMPLE	4	1513978004-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
6	1513978005	F9KX1	30.27 grams	.5 mL		SAMPLE	4	1513978005-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
7	1513978006	F9KX5	30.28 grams	.5 mL		SAMPLE	4	1513978006-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
8	1513978007	F9KY4	30.25 grams	.5 mL		SAMPLE	4	1513978007-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
9	1513978008	F9KY5	30.4 grams	.5 mL		SAMPLE	4	1513978008-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
10	1513978009	F9KY6	30.37 grams	.5 mL		SAMPLE	4	1513978009-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
11	1513978010	F9KY7	30.47 grams	.5 mL		SAMPLE	4	1513978010-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
12	1513978011	F9L28	30.36 grams	.5 mL		SAMPLE	4	1513978011-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
13	1513978012	F9L29	30.4 grams	.5 mL		SAMPLE	4	1513978012-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
14	1513978013	F9L30	30.08 grams	.5 mL		SAMPLE	4	1513978013-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
15	1514052001	F9K71	30.22 grams	.5 mL		SAMPLE	4	1514052001-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
16	1514052002	F9K72	30.45 grams	.5 mL		SAMPLE	4	1514052002-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
17	1514052003	F9K73	30.33 grams	.5 mL		SAMPLE	4	1514052003-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
18	1514052004	F9K77	30.5 grams	.5 mL		SAMPLE	4	1514052004-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
19	1514052005	F9K78	30.13 grams	.5 mL		SAMPLE	4	1514052005-A	S12SVOASS4	5936	7/5/2015	6/9/2015	6/8/2015
20	1514071001	F9KR0	30.17 grams	.5 mL		SAMPLE	4	1514071001-A	S12SVOASS4	5936	7/5/2015	6/8/2015	6/8/2015
21	1514071002	F9KX4	30.15 grams	.5 mL		SAMPLE	4	1514071002-A	S12SVOASS4	5936	7/5/2015	6/8/2015	6/8/2015

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
DFT01SP4	06/04/2015 13:01	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DT 28252	X6-19-15
DFT02BLK	06/04/2015 13:31	DJC	DSOM_SIMJ2	2	24.66	1	447823 SBLK23	SOIL SIM
DFT03GPC	06/04/2015 14:02	DJC	DSOM_SIMJ2	3	24.66	1	448205 GBLK05	SOIL SIM
DFT04F02	06/04/2015 14:32	DJC	DSOM_SIMJ2	4	24.66	1	1513978002 F9KW8	SOIL SIM
DFT05F03	06/04/2015 15:02	DJC	DSOM_SIMJ2	5	24.66	1	1513978003 F9KW9	SOIL SIM
DFT06F06	06/04/2015 15:32	DJC	DSOM_SIMJ2	6	24.66	1	1513978006 F9KX5	SOIL SIM
DFT07F08	06/04/2015 16:03	DJC	DSOM_SIMJ2	7	24.66	1	1513978008 F9KY5	SOIL SIM
DFT08F12	06/04/2015 16:33	DJC	DSOM_SIMJ2	8	24.66	1	1513978012 F9L29	SOIL SIM
DFT09F02	06/04/2015 17:03	DJC	DSOM_SIMJ2	9	24.66	1	1514052002 F9K72	SOIL SIM
DFT10F03	06/04/2015 17:33	DJC	DSOM_SIMJ2	10	24.66	1	1514052003 F9K73	SOIL SIM
DFT11F05	06/04/2015 18:03	DJC	DSOM_SIMJ2	11	24.66	1	1514052005 F9K78	SOIL SIM
DFT12F01	06/04/2015 18:33	DJC	DSOM_SIMJ2	12	24.66	1	1514071001 F9KR0	SOIL SIM
DFT13F02	06/04/2015 19:03	DJC	DSOM_SIMJ2	13	24.66	1	1514071002 F9KX4	SOIL SIM
DFT14SP4	06/04/2015 19:32	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4T1 28252	X6-19-15
DFT15SP4	06/04/2015 20:02	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4T1 28252	X6-19-15
DFT16F01	06/04/2015 20:32	DJC	DSOM_SIMJ2	14	24.66	1	1513978001 F9KW7 (10)	SOIL SIM
DFT17F04	06/04/2015 21:01	DJC	DSOM_SIMJ2	15	24.66	1	1513978004 F9KX0 (10)	SOIL SIM
DFT18F05	06/04/2015 21:31	DJC	DSOM_SIMJ2	16	24.66	1	1513978005 F9KX1 (10)	SOIL SIM
DFT19F07	06/04/2015 22:00	DJC	DSOM_SIMJ2	17	24.66	1	1513978007 F9KY4 (5)	SOIL SIM
DFT20F09	06/04/2015 22:30	DJC	DSOM_SIMJ2	18	24.66	1	1513978009 F9KY6 (10)	SOIL SIM
DFT21F10	06/04/2015 23:00	DJC	DSOM_SIMJ2	19	24.66	1	1513978010 F9KY7 (10)	SOIL SIM
DFT22F11	06/04/2015 23:29	DJC	DSOM_SIMJ2	20	24.66	1	1513978011 F9L28 (10)	SOIL SIM
DFT23F13	06/04/2015 23:59	DJC	DSOM_SIMJ2	21	24.66	1	1513978013 F9L30 (10)	SOIL SIM
DFT24F01	06/05/2015 00:28	DJC	DSOM_SIMJ2	22	24.66	1	1514052001 F9K71 (10)	SOIL SIM
DFT25F04	06/05/2015 00:58	DJC	DSOM_SIMJ2	23	24.66	1	1514052004 F9K77 (10)	SOIL SIM
DFT26SP4	06/05/2015 01:28	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4T2 28252	X6-19-15
DFT27SP4	06/05/2015 01:57	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4T2 28252	X6-19-15
DFT28SP4	06/05/2015 02:27	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4T2 28252	X6-19-15

Batch Worklist

Batch: ENVX/ 21624 | Created: 5/21/2015 05:31 | Instrument: | HBN: 149070

Rule: Sonication Extrn, SVOA | Analyst: L. Edwards | Status: NA

Workorder: 1513978 SDG: F9KW7 Case: 45316

Workorder: 1514052 SDG: F9KW7 Case: 45316

Workorder: 1514071 SDG: F9KW7 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	447823	MB for HBN 149070 [ENVX/21624]		0.5ml		MB	4		SNCTNSV.4P	6158	5/31/2015	5/20/2015	
2	1513978001	F9KW7	30.30 g			SAMPLE	4	1513978001-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
3	1513978002	F9KW8	30.30 g			SAMPLE	4	1513978002-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
4	1513978003	F9KW9	30.20 g			SAMPLE	4	1513978003-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
5	1513978004	F9KX0	30.36 g			SAMPLE	4	1513978004-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
6	1513978005	F9KX1	30.27 g			SAMPLE	4	1513978005-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
7	1513978006	F9KX5	30.28 g			SAMPLE	4	1513978006-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
8	1513978007	F9KY4	30.25 g			SAMPLE	4	1513978007-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
9	1513978008	F9KY5	30.40 g			SAMPLE	4	1513978008-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
10	1513978009	F9KY6	30.37 g			SAMPLE	4	1513978009-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
11	1513978010	F9KY7	30.47 g			SAMPLE	4	1513978010-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
12	1513978011	F9L28	30.36 g			SAMPLE	4	1513978011-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
13	1513978012	F9L29	30.40 g			SAMPLE	4	1513978012-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
14	1513978013	F9L30	30.08 g			SAMPLE	4	1513978013-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
15	1514052001	F9K71	30.22 g			SAMPLE	4	1514052001-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
16	1514052002	F9K72	30.45 g			SAMPLE	4	1514052002-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
17	1514052003	F9K73	30.33 g			SAMPLE	4	1514052003-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
18	1514052004	F9K77	30.50 g			SAMPLE	4	1514052004-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
19	1514052005	F9K78	30.13 g			SAMPLE	4	1514052005-A	SNCTNSV.4P	5936	5/30/2015	5/21/2015	
20	1514071001	F9KR0	30.17 g			SAMPLE	4	1514071001-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	
21	1514071002	F9KX4	30.15 g			SAMPLE	4	1514071002-A	SNCTNSV.4P	5936	5/29/2015	5/20/2015	

Some SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316/F9FW7 Horizon Extraction HBN 149070

Work Order# 1513978 1514052 1514071 Sample #'s 1-13, 1-5, 1-2 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SV-SIM/SV Matrix SOIL

Date samples weighed out 5/21/15 by OE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/21/15 0700 Stop Date/Time (CLLE's/Soxlet) OE Extracted by OE

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Hexane/Ether ( )	☐ Acetonitrile ☑ CH_2Cl_2/Acetone (1:1)	☐ Hexane ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JT BAKER	OE	JT BAKER	B+J	
Lot Number	18985		97683	DL683	
Amount	PER SOP		PER SOP	PER SOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1mL			
Spiked By	OE			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *	OE			
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 5/21/15 9:00 by MJC Comments The Temp was 63°C

Final Concentration: Date/Time 5/22/15 9:00 by MJC Comments The Temp was 64°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature Lyle Edwards **Date** 5/22/15

Batch Worklist

Batch: ENVX/ 21645 Created: 5/24/2015 09:03 Instrument: GPC06 HBN: 149235
Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1513978 SDG: F9KW7 Case: 45316
Workorder: 1514052 SDG: F9KW7 Case: 45316
Workorder: 1514071 SDG: F9KW7 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448205	GB for HBN 149235 [ENVX/21645]				GB	4		E.GPC.SV.P	6158		5/25/2015	5/21/2015
2	447823	MB for HBN 149070 [ENVX/21624]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		5/22/2015	5/21/2015
3	1513978001	F9KW7	30.3 grams	.5 mL		SAMPLE	4	1513978001-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
4	1513978002	F9KW8	30.3 grams	.5 mL		SAMPLE	4	1513978002-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
5	1513978003	F9KW9	30.2 grams	.5 mL		SAMPLE	4	1513978003-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
6	1513978004	F9KX0	30.36 grams	.5 mL		SAMPLE	4	1513978004-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
7	1513978005	F9KX1	30.27 grams	.5 mL		SAMPLE	4	1513978005-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
8	1513978006	F9KX5	30.28 grams	.5 mL		SAMPLE	4	1513978006-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
9	1513978007	F9KY4	30.25 grams	.5 mL		SAMPLE	4	1513978007-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
10	1513978008	F9KY5	30.4 grams	.5 mL		SAMPLE	4	1513978008-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
11	1513978009	F9KY6	30.37 grams	.5 mL		SAMPLE	4	1513978009-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
12	1513978010	F9KY7	30.47 grams	.5 mL		SAMPLE	4	1513978010-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
13	1513978011	F9L28	30.36 grams	.5 mL		SAMPLE	4	1513978011-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
14	1513978012	F9L29	30.4 grams	.5 mL		SAMPLE	4	1513978012-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
15	1513978013	F9L30	30.08 grams	.5 mL		SAMPLE	4	1513978013-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
16	1514052001	F9K71	30.22 grams	.5 mL		SAMPLE	4	1514052001-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
17	1514052002	F9K72	30.45 grams	.5 mL		SAMPLE	4	1514052002-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
18	1514052003	F9K73	30.33 grams	.5 mL		SAMPLE	4	1514052003-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
19	1514052004	F9K77	30.5 grams	.5 mL		SAMPLE	4	1514052004-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
20	1514052005	F9K78	30.13 grams	.5 mL		SAMPLE	4	1514052005-A	E.GPC.SV.P	5936		5/27/2015	5/21/2015
21	1514071001	F9KR0	30.17 grams	.5 mL		SAMPLE	4	1514071001-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015
22	1514071002	F9KX4	30.15 grams	.5 mL		SAMPLE	4	1514071002-A	E.GPC.SV.P	5936		5/26/2015	5/21/2015

ALS Laboratory Group GPC Injection Logbook

Method:	SOM01.2	**Analytical Method**	SVOA	**Work Order ID:**	1513978 1514052 1514071	**Horizon Batch ID:**	149235
Account:	08201	**Instrument ID:**	GPC06	**Column ID:**	8181346-1 690492-1	**Flow Rate:**	5mL/min.
Load Date:	5/21/15	**Load Time:**	16:47	**Pressure (PSI)**	159	**PST/ARO Weekly ID:**	5/11/15

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	448205	GPC06 Blank	
2	1513978001	F9KW7	
3	1513978002	F9KW8	
4	1513978003	F9KW9	
5	1513978004	F9KX0	
6	1513978005	F9KX1	
7	1513978006	F9KX5	
8	1513978007	F9KY4	
9	1513978008	F9KY5	
10	1513978009	F9KY6	
11	1513978010	F9KY7	
12	1513978011	F9L28	
13	1513978012	F9L29	
14	1513978013	F9L30	
15	1514052001	F9K71	
16	1514052002	F9K72	
17	1514052003	F9K73	
18	1514052004	F9K77	
19	1514052005	F9K78	
20	1514071001	F9KR0	
21	1514071002	F9KX4	
22	Rinse		Column Wash
23	447823	MB for HBN 149070	
24	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**16.4**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1513978	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Requested Analysis: SOM01.2 Semivoa, Soil; SOM01.2 Semivoa SIM, Soil

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
1	05/18/2015 09:50	F9KW7	1513978001		Soil/Solid/Sediment	A,B	2	A	A
2	05/18/2015 09:55	F9KW8	1513978002		Soil/Solid/Sediment	A,B	2	A	A
3	05/18/2015 10:00	F9KW9	1513978003		Soil/Solid/Sediment	A,B	2	A	A
4	05/18/2015 08:05	F9KX0	1513978004		Soil/Solid/Sediment	A,B	2	A	A
5	05/18/2015 08:10	F9KX1	1513978005		Soil/Solid/Sediment	A,B	2	A	A
6	05/18/2015 09:30	F9KX5	1513978006		Soil/Solid/Sediment	A,B	2	A	A
7	05/18/2015 08:15	F9KY4	1513978007		Soil/Solid/Sediment	A,B	2	A	A
8	05/18/2015 08:20	F9KY5	1513978008		Soil/Solid/Sediment	A,B	2	A	A
9	05/18/2015 09:15	F9KY6	1513978009		Soil/Solid/Sediment	A,B	2	A	A
10	05/18/2015 09:20	F9KY7	1513978010		Soil/Solid/Sediment	A,B	2	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/19/2015 16:30	~~5C~~ 5D 05/19/15	Storage
R-33-15 DJO	05/20/15 8:30	[illegible]	Solid
[illegible]	05/20/15 9:00	~~[illegible]~~ R-33-15 DJO 5/20/15	Storage
5D	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R.319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Sr

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:00	[illegible]	pre-GPC wash
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	post-GPC wash
[illegible]	5/22/15 12:00	R-60-6	STOR
R-60-6	5-22-15 12:00	[illegible]	GCMS

Tue, 05/19/15 4:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1513978	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil										
11	05/18/2015 10:20	F9L28	1513978011		Soil/Solid/Sediment	A,B	2	A	A										
12	05/18/2015 14:20	F9L29	1513978012		Soil/Solid/Sediment	A,B	2	A	A										
13	05/18/2015 16:05	F9L30	1513978013		Soil/Solid/Sediment	A,B	2	A	A										
14																			
15																			
16																			
17																			
18																			
19																			
20																			

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/19/2015 16:30	5C 5D [illegible] 05/19/2015	Storage
R-33-15D ITO	05/20/15 8:30	[illegible]	solid
[illegible]	05/20/15 9:00	R-33-15D ITO	Storage
5D	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Sr

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:00	[illegible]	post-GPC cont
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	post-GPC cont
[illegible]	5/22/15 12:00	R-60-6	STOR
R-60-6	5-22-15 12:00	[illegible]	GCMS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514052	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil										
1	05/19/2015 08:15	F9K71	1514052001		Soil/Solid/Sediment	A,B	2	A	A										
2	05/19/2015 08:20	F9K72	1514052002		Soil/Solid/Sediment	A,B	2	A	A										
3	05/19/2015 08:25	F9K73	1514052003		Soil/Solid/Sediment	A,B	2	A	A										
4	05/19/2015 08:40	F9K77	1514052004		Soil/Solid/Sediment	A,B	2	A	A										
5	05/19/2015 08:45	F9K78	1514052005		Soil/Solid/Sediment	A,B	2	A	A										
6																			
7																			
8																			
9																			
10																			

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/20/2015 08:15	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 12:35	5D	Shipping
5D	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:00	[illegible]	[illegible] GPC Load
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	[illegible] GPC Load
[illegible]	5/22/15 1[illegible]:00	[illegible] — 60-6	STOR
R-60-6	5-22-15 12:00	[illegible]	GCMS

Wed, 05/20/15 12:20 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514071	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
1	05/18/2015 13:25	F9KR0	1514071001		Soil/Solid/Sediment	A,B	2	A	A
2	05/18/2015 09:25	F9KX4	1514071002		Soil/Solid/Sediment	A,B	2	A	A
3									
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 1535	5B	Storage
5B	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R-3191	STORALE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:00	[illegible]	GPC Lab
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	GPC Lab
[illegible]	5/22/15 12:00	R-606	STOR
R-606	5-22-15 12:00	[illegible]	GCMS

Wed, 05/20/15 3:30 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1513978	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Requested Analysis: SOM01.2 Semivoa, Soil; SOM01.2 Semivoa SIM, Soil

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
1	05/18/2015 09:50	F9KW7	1513978001		Soil/Solid/Sediment	A,B	2	A	A
2	05/18/2015 09:55	F9KW8	1513978002		Soil/Solid/Sediment	A,B	2	A	A
3	05/18/2015 10:00	F9KW9	1513978003		Soil/Solid/Sediment	A,B	2	A	A
4	05/18/2015 08:05	F9KX0	1513978004		Soil/Solid/Sediment	A,B	2	A	A
5	05/18/2015 08:10	F9KX1	1513978005		Soil/Solid/Sediment	A,B	2	A	A
6	05/18/2015 09:30	F9KX5	1513978006		Soil/Solid/Sediment	A,B	2	A	A
7	05/18/2015 08:15	F9KY4	1513978007		Soil/Solid/Sediment	A,B	2	A	A
8	05/18/2015 08:20	F9KY5	1513978008		Soil/Solid/Sediment	A,B	2	A	A
9	05/18/2015 09:15	F9KY6	1513978009		Soil/Solid/Sediment	A,B	2	A	A
10	05/18/2015 09:20	F9KY7	1513978010		Soil/Solid/Sediment	A,B	2	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/19/2015 16:30	~~SC~~ 5.D	Storage
R-33-15 DJJD	05/20/15 8:30	[illegible]	Solid
[illegible]	05/20/15 9:00	~~[illegible]~~ R-33-15 5D	Storage
5D	05/21/15 0530	JJD 5/20/15 [illegible]	EXT
[illegible]	05/21/15 0700	R.319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:00	[illegible]	pre-GPC work
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	post-GPC work
[illegible]	5/22/15 12:00	R-60-6	STOR
R-60-6	5-22-15 12:00	[illegible]	GCMS

Tue, 05/19/15 4:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1513978	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM

Comments:

Preservatives: COOL

Requested Analysis: SOM01.2 Semivoa, Soil; SOM01.2 Semivoa SIM, Soil

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
11	05/18/2015 10:20	F9L28	1513978011		Soil/Solid/Sediment	A,B	2	A	A
12	05/18/2015 14:20	F9L29	1513978012		Soil/Solid/Sediment	A,B	2	A	A
13	05/18/2015 16:05	F9L30	1513978013		Soil/Solid/Sediment	A,B	2	A	A
14									
15									
16									
17									
18									
19									
20									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/19/2015 16:30	5E 5D [illegible] 05/19/2015	STORAGE
R-33-15D ITO	05/20/15 8:30	[illegible]	solid
[illegible]	05/20/15 9:00	R-33-15D ITO	Storage
5D	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Sr

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/20/15 9:00	[illegible]	post-GPC cont
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	post-GPC cont
[illegible]	5/22/15 12:00	R-60-6	STOR
R-60-6	5-22-15 12:00	Austin Calder	GCMS

Tue, 05/19/15 4:22 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514052	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
1	05/19/2015 08:15	F9K71	1514052001		Soil/Solid/Sediment	A,B	2	A	A
2	05/19/2015 08:20	F9K72	1514052002		Soil/Solid/Sediment	A,B	2	A	A
3	05/19/2015 08:25	F9K73	1514052003		Soil/Solid/Sediment	A,B	2	A	A
4	05/19/2015 08:40	F9K77	1514052004		Soil/Solid/Sediment	A,B	2	A	A
5	05/19/2015 08:45	F9K78	1514052005		Soil/Solid/Sediment	A,B	2	A	A
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/20/2015 08:15	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 [illegible]	50	Storage
50	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:00	[illegible]	[illegible] GPC Cont
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	[illegible] GPC Cont
[illegible]	5/22/15 12:00	R-60-6	STOR
R-60-6	5-22-15 12:00	[illegible]	GCMS

Wed, 05/20/15 12:20 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514071	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Requested Analysis: SOM01.2 Semivoa, Soil; SOM01.2 Semivoa SIM, Soil

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
1	05/18/2015 13:25	F9KR0	1514071001		Soil/Solid/Sediment	A,B	2	A	A
2	05/18/2015 09:25	F9KX4	1514071002		Soil/Solid/Sediment	A,B	2	A	A
3									
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 15:35	[illegible]	Storage
5B	05/21/15 0530	[illegible]	Ext
[illegible]	05/21/15 0700	R-319-1	STORALE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	5/21/15 9:40	[illegible]	from GPC cont
[illegible]	5/21/15 1600	[illegible]	GPC
[illegible]	5/22/15 9:00	[illegible]	from GPC cont
[illegible]	5/22/15 12:00	R-60-6	STOR
R-60-6	5-22-15 12:00	[illegible]	GCMS

Wed, 05/20/15 3:30 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1513978	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil
1	05/18/2015 09:50	F9KW7	1513978001		Soil/Solid/Sediment	A,B	2	A	A
2	05/18/2015 09:55	F9KW8	1513978002		Soil/Solid/Sediment	A,B	2	A	A
3	05/18/2015 10:00	F9KW9	1513978003		Soil/Solid/Sediment	A,B	2	A	A
4	05/18/2015 08:05	F9KX0	1513978004		Soil/Solid/Sediment	A,B	2	A	A
5	05/18/2015 08:10	F9KX1	1513978005		Soil/Solid/Sediment	A,B	2	A	A
6	05/18/2015 09:30	F9KX5	1513978006		Soil/Solid/Sediment	A,B	2	A	A
7	05/18/2015 08:15	F9KY4	1513978007		Soil/Solid/Sediment	A,B	2	A	A
8	05/18/2015 08:20	F9KY5	1513978008		Soil/Solid/Sediment	A,B	2	A	A
9	05/18/2015 09:15	F9KY6	1513978009		Soil/Solid/Sediment	A,B	2	A	A
10	05/18/2015 09:20	F9KY7	1513978010		Soil/Solid/Sediment	A,B	2	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/19/2015 16:30	~~SG~~ 5D [illegible]	Storage
R-33-15 DJJO	05/20/15 8:30	[illegible] Ovalle	Solid

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1513978	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil										
11	05/18/2015 10:20	F9L28	1513978011		Soil/Solid/Sediment	A,B	2	A	A										
12	05/18/2015 14:20	F9L29	1513978012		Soil/Solid/Sediment	A,B	2	A	A										
13	05/18/2015 16:05	F9L30	1513978013		Soil/Solid/Sediment	A,B	2	A	A										
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/19/2015 16:30	[illegible] 05/19/2015	Sto 199-0
R-33-150 JTO	05/20/15 8:30	[illegible]	solid

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514052	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil										
1	05/19/2015 08:15	F9K71	1514052001		Soil/Solid/Sediment	A,B	2	A	A										
2	05/19/2015 08:20	F9K72	1514052002		Soil/Solid/Sediment	A,B	2	A	A										
3	05/19/2015 08:25	F9K73	1514052003		Soil/Solid/Sediment	A,B	2	A	A										
4	05/19/2015 08:40	F9K77	1514052004		Soil/Solid/Sediment	A,B	2	A	A										
5	05/19/2015 08:45	F9K78	1514052005		Soil/Solid/Sediment	A,B	2	A	A										
6																			
7																			
8																			
9																			
10																			

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/20/2015 08:15	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 12:25	5D	Storage
5D	05/21/15 0530	[illegible]	EXT
[illegible]	05/21/15 0700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514071	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil										
1	05/18/2015 13:25	F9KR0	1514071001		Soil/Solid/Sediment	A,B	2	A	A										
2	05/18/2015 09:25	F9KX4	1514071002		Soil/Solid/Sediment	A,B	2	A	A										
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/19/2015 09:03	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 15:35	[illegible]	Storage
5B	05/21/15 0530	[illegible]	Ext
[illegible]	05/21/15 0700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5176
Instrument: GRAV03

Oven Start Time	05/19/2015 12:00	**Start Oven Temp:**	105°	**Start Desiccator:**	05/20/2015 07:00
Oven Finish Time	05/20/2015 07:00	**End Oven Temp:**	105°	**End Desiccator:**	05/20/2015 09:00

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1513978	1	1513978001	1.2996	9.7376	8.4380	8.2221	6.9225	82.0396%	17.9604%
1513978	2	447635	1.3156	9.8775	8.5619	8.2227	6.9071	80.6725%	19.3275%
1513978	3	1513978002	1.3077	9.9792	8.6715	8.9587	7.6510	88.2316%	11.7684%
1513978	4	1513978003	1.3028	9.9000	8.5972	8.5088	7.2060	83.8180%	16.1820%
1513978	5	1513978004	1.3211	9.7767	8.4556	8.3987	7.0776	83.7031%	16.2969%
1513978	6	1513978005	1.3137	9.7417	8.4280	8.7721	7.4584	88.4955%	11.5045%
1513978	7	1513978006	1.3213	9.6927	8.3714	8.4394	7.1181	85.0288%	14.9712%
1513978	8	1513978007	1.3188	9.7979	8.4791	8.8066	7.4878	88.3089%	11.6911%
1513978	9	1513978008	1.3049	9.6226	8.3177	8.6142	7.3093	87.8765%	12.1235%
1513978	10	1513978009	1.3253	9.5442	8.2189	8.0229	6.6976	81.4902%	18.5098%
1513978	11	1513978010	1.3119	9.6908	8.3789	8.5008	7.1889	85.7977%	14.2023%
1513978	12	1513978011	1.3173	9.9948	8.6775	8.3203	7.0030	80.7030%	19.2970%
1513978	13	1513978012	1.3259	9.8239	8.4980	8.5881	7.2622	85.4578%	14.5422%
1513978	14	1513978013	1.3228	9.5245	8.2017	8.0703	6.7475	82.2695%	17.7305%

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5180
Instrument: GRAV03

Oven Start Time	05/21/2015 10:00	**Start Oven Temp:**	105°	**Start Desiccator:**	05/22/2015 07:30
Oven Finish Time	05/22/2015 07:30	**End Oven Temp:**	105°	**End Desiccator:**	05/22/2015 08:30

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1514052	1	1514052001	1.3130	9.9185	8.6055	8.8994	7.5864	88.1576%	11.8424%
1514052	2	447872	1.3201	9.9575	8.6374	8.9094	7.5893	87.8656%	12.1344%
1514052	3	1514052002	1.3107	9.9705	8.6598	8.7701	7.4594	86.1382%	13.8618%
1514052	4	1514052003	1.3088	9.8879	8.5791	8.7045	7.3957	86.2060%	13.7940%
1514052	5	1514052004	1.3129	9.8277	8.5148	8.4664	7.1535	84.0125%	15.9875%
1514052	6	1514052005	1.3055	9.8041	8.4986	8.1889	6.8834	80.9945%	19.0055%

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5181
Instrument: GRAV03

Oven Start Time	05/21/2015 10:00	**Start Oven Temp:**	105°	**Start Desiccator:**	05/22/2015 07:30
Oven Finish Time	05/22/2015 07:30	**End Oven Temp:**	105°	**End Desiccator:**	05/22/2015 08:30

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1514071	1	1514071001	1.3184	9.9316	8.6132	8.9664	7.6480	88.7939%	11.2061%
1514071	2	447873	1.3171	9.9446	8.6275	9.0801	7.7630	89.9797%	10.0203%
1514071	3	1514071002	1.3130	9.7292	8.4162	8.6248	7.3118	86.8777%	13.1223%

COPY Original in SDG FQ450

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774 9108

Form ID No. 0200

1 From

Date 05/15/2015

Sender's Name Derrick Cobb Phone 832 347-4150

Company Weston Solutions Inc

Address 5555 San Felipe St.

Dept./Floor/Suite/Room

City Hou State TX ZIP 77056

2 Your Internal Billing Ref. 20406.016.005.0919.01

3 To

Recipient's Name Meredith Edwards Phone 401 266-7700

Company ALS Laboratory Group - Salt Lake City

Address 960 West Levoy St.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Salt Lake City State UT ZIP 84123

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

05/19/2015 09:03

8054 6774 9108

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender — Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Copy original in SDG F9K50

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774 9050

Form ID No. 0200

1 From

Date 05/19/2015

Sender's Name Derrick Cobb Phone 832 349 4190

Company Westar Solutions Inc

Address 5599 San Felipe

Dept./Floor/Suite/Room

City Houston State TX ZIP 77056

2 Your Internal Billing Reference 20406.016.005.0919.01

3 To

Recipient's Name Meredith Edwards Phone 801 266-7700

Company ALS Laboratories - Salt Lake City

Address 960 West Levoy St

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Salt Lake City State UT ZIP 84123

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight. ☐

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations. ☐

Driver 05/19/2015 09:03

8054 6774 9050

4 Express Package Service * Is most economical.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.

Next Business Day	2 or 3 Business Days
☐ FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.
☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.	FedEx Express Saver Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500

☐ FedEx Envelope† ☐ FedEx Pak† ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver

☐ No Signature Required Package may be left without obtaining a signature for delivery.

Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential delivery only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration ☐ Yes Shipper's Declaration not required ☐ Dry Ice — Kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below

Sender Acct. No. in Section 1 will be billed ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages Total Weight

_____ _____ lbs.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Align Open End of FedEx Pouch Here

COPY Original in SDG F9K50

FedEx TRK# 0200 8054 6774 8958

TUE - 19 MAY 10:30A
PRIORITY OVERNIGHT

84123
UT-US
SLC

XH BTFA

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774

FID 85098 18MAY15 RVSA 5220 1/2562/6500

1 From

Date 5/15/15

Sender's Name Dennis Cobb Phone

Company

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference 106016.005 09:19

3 To

Recipient's Name Phone 801 266-7700

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for additional address information.

City State ZIP

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Jim Cu 05/19/2015 09:03

8054 6774 8958

4 Express Package Service

Delivery commitment may be delayed if Saturday Delivery is selected

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain recip. Acct. No. [ ]

Total Packages ____ Total Weight ____ lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774 9130

Form ID No. 0200

1 From

Date 05/15/2015

Sender's Name Derrick Cobb Phone

Company Weston Solutions Inc

Address 5757 San Felipe St

Dept./Floor/Suite/Room

City Houston State TX ZIP 77056

2 Your Internal Billing Reference 02406.016.005.0919.01

3 To

Recipient's Name Meredith Edwards Phone 801 266-7700

Company ALS Laboratory Group Salt Lake City

Address 960 West Levoy Drive

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Salt Lake City State UT ZIP 84123

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Joan Cen 05/19/2015 09:03

8054 6774 9130

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☑ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☑ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☑ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☑ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx. Express

J15121 022303uv

Ship Date: 19MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700

BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

WED - 20 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 3442 7290

XH BTFA

84123
UT-US
SLC

537J3/C918/EE4B

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Duncan 05/20/2015 08:42

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FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774 9082

Form ID No. 0200

Recipient's Copy

1 From

Date 5/18/2015

Sender's Name Derrick Cobb Phone 832 347-4180

Company Weston Solutions Inc

Address 5599 San Felipe Street

Dept./Floor/Suite/Room

City Houston State TX ZIP 77056

2 Your Internal Billing Reference 20406.016.005.0919.01

3 To

Recipient's Name Meridith Edwards Phone 801 266-7700

Company ALS Laboratory Group - Salt Lake City

Address 960 West Levoy Drive

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight. ☐

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations. ☐

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Salt Lake City State UT ZIP 84123

Sam Cu 05/19/2015 09:03

8054 6774 9082

4 Express Package Service *To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender — Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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FedEx Express NEW Package US Airbill

FedEx Tracking Number 8054 6774 9130

Form ID No. 0200

1 From

Date 05/18/2015

Sender's Name Derrick Cobb Phone

Company Weston Solutions Inc

Address 5555 San Felipe St Dept./Floor/Suite/Room

City Houston State TX ZIP 77056

2 Your Internal Billing Reference 20406.016.005.0919.01

3 To

Recipient's Name Meredith Edwards Phone 801 266-7700

Company ALS Laboratory Group - Salt Lake City

Address 960 West Levoy Drive

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Salt Lake City State UT ZIP 84123

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Joan Eaw 05/19/2015 09:03

8054 6774 9130

4 Express Package Service *To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. *For packages over 150 lbs., use the new FedEx Express Freight US Airbill.*

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

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COPY Original in SDG F9KW7

1513978

USEPA CLP COC (REGION COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749108
Copy Original in SDG F9K5B

CHAIN OF CUSTODY RECORD

Wilcox Oil 05/19/2015
Case #: ~~45299~~ 45316 F9KW7
Cooler #: 5

No: 6-051815-142514-0010

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-003-00-51	F9KW2	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:15	Field Sample
WO-020-003-06-51	F9KW3	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:25	Field Sample
WO-020-003-12-51	F9KW4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:30	Field Sample
WO-020-003-24-51	F9KW5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:35	Field Sample
WO-020-004-00-51	F9KW6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:45	Field Sample
WO-020-004-06-51	F9KW7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:50	Field Sample
WO-020-004-12-51	F9KW8	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:55	Field Sample
WO-020-004-24-51	F9KW9	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 10:00	Field Sample
WO-020-003-00-52	F9L28	Soil/ START	Composite	SVOA(21)	1008 (Ice) (2)	020	05/18/2015 10:20	Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	D Weston	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	[illegible]	05/19/2015 09:03	Good

USEPA CLP COC (REGION COPY)
DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749130

CHAIN OF CUSTODY RECORD
Wilcox Oil 05/19/2015
Case #: ~~45299~~ 45316 F9KW7
Cooler #: 1

No: 6-051815-110208-0001
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-005-00-51	F9KX0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:05	Field Sample
WO-020-005-06-51	F9KX1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:10	Field Sample
WO-020-006-12-51	F9KX4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:25	Field Sample
WO-020-006-24-51	F9KX5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:30	Field Sample
WO-020-005-12-51	F9KY4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:15	Field Sample
WO-020-005-24-51	F9KY5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:20	Field Sample
WO-020-006-00-51	F9KY6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:15	Field Sample
WO-020-006-06-51	F9KY7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:20	Field Sample

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/18/15 2100	FedEX	5/18/22 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	

USEPA CLP COC (LAB COPY)

DateShipped: 5/18/2015

CarrierName: FedEx

AirbillNo: 805467749050

copy original in SDG F9K50

CHAIN OF CUSTODY RECORD

08. 05/18/2015

Case #: ~~45299~~ 45316 F9KW7

Cooler #: 9

No: 6-051815-190752-0015

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-005-00-51	F9K50	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:20	Good
WO-006-001-00-51	F9K70	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:15	
WO-006-002-00-51	F9K76	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:30	
WO-006-003-00-51	F9K82	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 15:40	
WO-006-004-00-51	F9K86	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:00	
WO-020-001-24-51	F9KT7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:15	
WO-020-001-24-52	F9L29	Soil/ START	Composite	SVOA(21)	1013 (Ice) (2)	020	05/18/2015 14:20	

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	[signature]	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	[signature] DATAC	05/19/2015 09:03	GOOD

USEPA CLP COC (LAB COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467748958

copy original in SDG F9K50

CHAIN OF CUSTODY RECORD

05/19/2015
Case #: ~~45299~~ 45316 F9KW7
Cooler #: 11

No: 6-051815-201754-0020

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-006-00-51	F9K92	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 16:40	Good
WO-006-007-00-51	F9KA0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 17:20	
WO-006-008-00-51	F9KA2	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	006	05/18/2015 17:25	
WO-006-004-00-52	F9L30	Soil/ START	Composite	SVOA(21)	1018 (Ice) (2)	006	05/18/2015 16:05	

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

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	Weston	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	Good

1514052

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773634427290

Copy original in SDG F9K24

CHAIN OF CUSTODY RECORD

Case #: ~~45299~~ 45316
Cooler #:

F9KW7

No: 6-051915-112821-0023
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-001-06-51	F9K71	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:15	Good
WO-006-001-12-51	F9K72	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:20	
WO-006-001-24-51	F9K73	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (1)	006	05/19/2015 08:25	
WO-006-002-06-51	F9K77	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:40	
WO-006-002-12-51	F9K78	Soil/ START	Composite	SVOA/SVOASIM(21)	1003 (Ice) (2)	006	05/19/2015 08:45	
WO-006-002-24-51	F9K79	Soil/ START	Composite	SVOA/SVOASIM(21)	1027 (Ice) (2)	006	05/19/2015 08:50	
WO-006-003-06-51	F9K83	Soil/ START	Composite	SVOA/SVOASIM(21)	1034 (Ice) (2)	006	05/19/2015 10:15	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	D. [signature] WESTON	5/19/15 2100	Fed Ex	5/19/15 2100	
	FedEx	05/20/2015 08:42	[signature] DATAC	05/20/2015 08:42	Good

1514071

USEPA CLP COC (LAB COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749082

F9KW7

CHAIN OF CUSTODY RECORD

Case #: ~~45299~~ 45346
Cooler #: 6

No: 6-051815-172245-0011
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

F9K50

Copy Original in SDG ~~F9KW7~~ 05/21/2015

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-020-001-00-51	F9KQ6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:00	Good
WO-020-001-06-51	F9KQ7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:05	
WO-020-002-12-51	F9KR0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:25	
WO-020-002-24-51	F9KR1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:30	
WO-020-001-12-51	F9KT6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 14:10	
WO-020-002-00-51	F9KT8	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:15	
WO-020-002-06-51	F9KT9	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 13:20	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	D PCU	5/18/15 2100	Fed Ex	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	Good

USEPA CLP COC (REGION COPY)

DateShipped: 5/18/2015
CarrierName: FedEx
AirbillNo: 805467749130
Copy original in SDG F9KW7

CHAIN OF CUSTODY RECORD

Wilcox Oil 05/19/2015
Case #: ~~45299~~ 45319 F9KW7
Cooler #: 1

No: 6-051815-110208-0001

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-020-005-00-51	F9KX0	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:05	Field Sample
WO-020-005-06-51	F9KX1	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:10	Field Sample
WO-020-006-12-51	F9KX4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:25	Field Sample
WO-020-006-24-51	F9KX5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:30	Field Sample
WO-020-005-12-51	F9KY4	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:15	Field Sample
WO-020-005-24-51	F9KY5	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 08:20	Field Sample
WO-020-006-00-51	F9KY6	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:15	Field Sample
WO-020-006-06-51	F9KY7	Soil/ START	Composite	SVOA(21)	1003 (Ice) (2)	020	05/18/2015 09:20	Field Sample

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/18/15 2100	FedEX	5/18/15 2100	
	Fed Ex	05/19/2015 09:03	DATAC	05/19/2015 09:03	

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).

Copy Original in SDG F9K50

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 05/19/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9KW7
Mod. Ref. No.: N/A	

Remarks:

1. Custody Seal (s): Present/Absent*; Intact/Broken*
2. Custody Seal Nos.: N/A; 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists: Present/Absent*
4. Airbill: Airbill/Sticker Present/Absent*
5. Airbill No.: 8054 6774 9108; N/A
6. Sample Tags: Present/Absent*; Sample Tag Numbers: Listed/Not Listed on Chain-of-Custody
7. Sample Condition: Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle: Present/Absent*
9. Cooler Temperature: 2
10. Does information on TR/COCs, and sample tags agree?: Yes/No*
11. Date Received at Laboratory: 05/19/2015
12. Time Received: 09:03

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9KW2	N/A		SVOA/SVSIM soil
W3			
W4			
W5			
W6			
W7		1513978-001	
W8		002	
W9		003	
F9L28		011	

Sample Transfer

Fraction	Fraction
SVOA/SVSIM	
Area # R.33-1	Area #
By OOC.	By
On 05/19/2015	On

OOC. 05/19/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/19/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 05/19/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9KW7 — Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s) — Present/Absent* — Intact/Broken*
2. Custody Seal Nos. — N/A — 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — 805467749130 — N/A
6. Sample Tags — Present/Absent* — Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
7. Sample Condition — Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 2
10. Does information on TR/COCs, and sample tags agree? — Yes/No*
11. Date Received at Laboratory — 05/19/2015
12. Time Received — 09:03

Sample Transfer

Fraction	Fraction
SVOA/SVSIm	
Area # R-331	Area #*
By OSC	By
On 05/19/2015	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K X0	N/A	1513978004	SVOA / SVSIm Soil
X1		005	
X4			
X5		1513978006	
Y4		007	
Y5		008	
Y6		009	
Y7		010	

OSC 05/19/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/19/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

Copy original in SDG F9K50

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 05/19/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9KW7
Mod. Ref. No.: N/A	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* Intact/Broken*	F9K50	N/A		SVOA/SVSIM Soil
		70			
2. Custody Seal Nos.	N/A	76			
	1	82			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	86			
4. Airbill	Airbill/Sticker Present/Absent*	F9L29		1513978012	
5. Airbill No.	8054677 49050				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	05/19/2015				
12. Time Received	09:03				

Sample Transfer

Fraction	Fraction
SVOA/SVSIM	
Area # R-331	Area #
By [signature]	By
On 05/19/2015	On

05/19/2015

05/19/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/19/15	Logbook Page No.: Not Applicable

Copy on binder in SDG F9K50

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 05/19/2015
Received By (Signature): Thomas Carlson	
Case Number: 45316	Sample Delivery Group No.: F9KW7 — Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9K92	N/A		SVOA/SVSIM Soil
	Intact/Broken*	A0			
2. Custody Seal Nos.	N/A	A2			
	1	F9L30		1513978013	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	8054677488958				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	05/19/2015				
12. Time Received	09:03				

Sample Transfer

Fraction: SVOA/SVOASIM	Fraction:
Area #: R-33-1	Area #:
By: GSC	By:
On: 05/19/2015	On:

GSC 05/19/2015

* Contact SMO and attach record of resolution

Reviewed By: J Hill	Logbook No.: Not Applicable
Date: 5/19/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

Copy original in SDG F9K24 FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 05/20/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9KW7
	Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* Intact/Broken*	F9K71	N/A		SVOA/SVOSIMSOIL
		72			
2. Custody Seal Nos.	N/A	73			
		77			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	78			
4. Airbill	Airbill/Sticker Present/Absent*	79			
		83			
5. Airbill No.	773634427290 1				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	05/20/2015				
12. Time Received	08:42				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:
Area #: R-33-1	Area #:
By: [signature]	By:
On: 05/20/2015	On:

05/20/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/20/15	Logbook Page No.: Not Applicable

Copy of original insDG F9K50

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: ~~F9K50~~ F9KW7
Mod. Ref. No.: N/A	

Remarks:

1. Custody Seal (s) — Present/Absent* — Intact/Broken*
2. Custody Seal Nos. — N/A — 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent*
4. Airbill — Airbill/Sticker Present/Absent*
5. Airbill No. — 8054677749082 — N/A
6. Sample Tags — Present/Absent* — Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
7. Sample Condition — Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle — Present/Absent*
9. Cooler Temperature — 2
10. Does information on TR/COCs, and sample tags agree? — Yes/No* — 05/19/2015
11. Date Received at Laboratory — 05/19/2015
12. Time Received — 09:03

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K Q6	N/A	1513956009	SVOA/SVSIM
Q7		010	
R1 ~~R0~~		011	
T6		012	
T8		014 ~~013~~	
T9		015	
X4		1514071001	

Sample Transfer

Fraction	Fraction
SVOA/SVSIM	
Area # R.33-1	Area #
By OC	By
On 05/19/2015	On

05/19/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/19/15	Logbook Page No.: Not Applicable

COPY original in SDG F9KW7

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 05/19/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9KW7
	Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s): Present/Absent* — Intact/Broken*
2. Custody Seal Nos.: N/A / 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists: Present/Absent*
4. Airbill: Airbill/Sticker Present/Absent*
5. Airbill No.: 805467749130 / N/A
6. Sample Tags: Present/Absent* — Sample Tag Numbers: Listed/Not Listed on Chain-of-Custody
7. Sample Condition: Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle: Present/Absent*
9. Cooler Temperature: 2
10. Does information on TR/COCs, and sample tags agree?: Yes/No*
11. Date Received at Laboratory: 05/19/2015
12. Time Received: 09:03

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K X0	N/A	1513978004	SVOA / SVSIM Soil
X1		1 005	
X4		1514071002	
X5		1513978006	
Y4		007	
Y5		008	
Y6		009	
Y7		010	

Sample Transfer

Fraction	Fraction
SVOA / SVSIM	
Area # R-331	Area #
By [illegible]	By
On 05/19/2015	On

[illegible] 05/19/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/19/15	Logbook Page No.: Not Applicable

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9KW7 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 6/8/15

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 6/8/15

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 [illegible] Date 6.8.15

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 [illegible] Date 6.8.15

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 06/09/2015

Jessica Helland

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Wednesday, May 20, 2015 2:19 PM
To: Jessica Helland; Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple | FINAL

Jessica,

-Non-sampler issues-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.
Resolution 1: Per Region 6, the samples were for SV/SVSIM analysis and laboratory QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)
Resolution 2: Per Region 6, F9KX4 is correct in cooler 1. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.
Resolution 3: Per Region 6, F9KX4 from cooler 6 needs to be changed to F9KR0. The laboratory should note that sample F9KX4 from cooler #6 was mislabeled and data should be reported under F9KR0. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 04:14 PM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 05/20/2015 03:42 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issues 2 & 3

Hello Margaret – please provide information below to the lab.

Lab Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

R6 response # 2 - F9KX4 - is correct in cooler 1.

Lab Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

R6 response # 3 - The F9KX4 from cooler 6 needs to be changed to F9KR0. Lab should note that sample # F9KX4 from cooler #6 was mislabeled and data should be reported under
F9KR0.

Please ask the lab to note the issues and resolutions in the SDG narrative and proceed with analysis.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Perez, Myra
Sent: Wednesday, May 20, 2015 2:02 PM
To: 'Margaret T Jarosz'
Cc: Gorostiza, Sylvia; Flores, Raymond
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issue 1

Hello Margaret –

Lab Issue1-Insufficient volume- Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

R6 response – The samples were for SV/SVSIM analysis. Lab QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs.

We are waiting for a response from the sampler for issues 2 & 3.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]
Sent: Wednesday, May 20, 2015 12:12 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple

Good afternoon,
DATAC is reporting the following issues with Case 45316. Please advise.

-Insufficient volume-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

-Samples/analyses listed on COC but not received at laboratory-
Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 01:06 PM -----

From: Jessica Helland <Jessica.Helland@alsglobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 05/20/2015 11:46 AM
Subject: FW: Case 45316 issues

Please see below issues.

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Thomas Carlson
Sent: Tuesday, May 19, 2015 10:54 AM
To: Roxanne Olson
Cc: Meredith D. Edwards; Jessica Helland
Subject: Case 45316 issues

Please advise region 6 of the following issues;

1. None of the TR's designate QC for any samples, nor was any additional volume provided for QC for any samples.
2. We received 2 sample labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
   a. The samples on the right were from the TR designated "Cooler 1" (see attached scan of TR) and match up appropriately.
   b. The samples on the left, marked with a black X on the lid were received from the TR designated "Cooler 6". (See attached scan of TR)
3. We did not receive sample F9KR0 from the TR designated "Cooler 6". This leads us to believe that sample F9KR0 was mislabeled as F9KX4.

****
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Jessica Helland

From: Jessica Helland
Sent: Tuesday, May 19, 2015 9:00 AM
To: Julie Warath; Thomas Carlson
Subject: FW: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Have we received these yet?

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Roxanne Olson
Sent: Tuesday, May 19, 2015 8:21 AM
To: Jessica Helland
Subject: Fwd: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Fyi

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: Margaret T Jarosz <mjarosz@csc.com>
Date: 05/19/2015 8:19 AM (GMT-07:00)
To: Roxanne Olson <Roxanne.Olson@ALSGlobal.com>
Cc: Humphrey.marvelyn@Epa.gov, Gorostiza.Sylvia@epa.gov, "Perez, Myra" <perez.myra@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Roxy,

Issue 1: Region 6 informed CSC that the incorrect Case number was used for the samples for organic analysis.

Resolution 1: Per Region 6, the laboratory will log these samples in under Case number 45316, note the issue in the SDG Narrative, and proceed with the analysis of the samples.

Issue 2: Region 6 informed CSC that the correct analysis is SVOA/SVOASIM.
Resolution 2: Per Region 6, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

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Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/19/2015 10:14 AM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Flores, Raymond" <flores.raymond@epa.gov>, Caroline Kramer/USA/CSC@CSC, "Hayes, Mark" <hayes.mark@epa.gov>, "Coltrain, Katrina" <coltrain.katrina@epa.gov>, "Cobb, Derrick" <Derrick.Cobb@WestonSolutions.com>, "Corey.Bercher@WestonSolutions.com" <Corey.Bercher@WestonSolutions.com>
Date: 05/19/2015 09:27 AM
Subject: FW: [x]

Hello Margaret – Upon receipt of the COC, we noticed that the incorrect case number was used for the samples for organic analysis. Please notify DATAC that they should log these samples under case number 45316 and note the issue in the SDG narrative. Also the analysis is for SVOA/SVOASIM.

If you or the lab need additional information, please contact me at your earliest convenience.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Bercher, Corey [mailto:Corey.Bercher@WestonSolutions.com]
Sent: Tuesday, May 19, 2015 8:03 AM
To: Perez, Myra
Subject: FW: [x]

From: Bercher, Corey
Sent: Monday, May 18, 2015 11:57 PM
To: 'mjarosz@csc.com'
Cc: Cobb, Derrick
Subject: [x]

Hello,

Attached is the XML file and pdf of COCs for samples en route to ALS Salt Lake City that were collected at [x]on 18 May 2015.

Thanks,

Corey

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Jessica Helland

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Thursday, May 21, 2015 7:19 AM
To: Jessica Helland; Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple | FINAL

Jessica,

-Missing/broken custody seals-
Issue 1: Two of the coolers received today, corresponding with airbill numbers 773640624237 and773634427290, were received with no intact custody seal and no tape. The inner black bags were still intact, which should minimize any concerns about sample integrity issues.
Resolution 1: Per Region 6, the laboratory will note this issue in the SDG Narrative and proceed with analysis. The laboratory should add in the SDG Narrative whether or not all of the containers had intact custody seals.

Issue 2: Two of the coolers received today also had tape that was beginning to come off of the coolers. As the tape was coming up, it was also taking the custody seal with it, which likely explains how the other 2 coolers arrived without custody seals.
Resolution 2: Per Region 6, the laboratory will note this issue in the SDG Narrative and proceed with analysis. The laboratory should add in the SDG Narrative whether or not all of the containers had intact custody seals.

-Incorrect/duplicated sample IDs-
Issue 3: The laboratory received 4 sets of samples that did not have the CLP sample number on the label. All three had the same sample identifier number, WO-005-001-00-52 and the same collection date and time of 05/19/2015 14:50. This corresponds with sample F9L38, which is listed on the four COCs received from coolers with this issue. The laboratory did not receive any other samples that had been labeled F9L38.
Resolution 3: Per Region 6, the samples referenced above are F9L38. The laboratory should note the issue in the SDG Narrative and proceed with analysis.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/21/2015 09:14 AM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Humphrey, Marvelyn" <humphrey.marvelyn@epa.gov>, "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 05/20/2015 05:28 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response

---

Margaret – please notify the lab of the following:

Issues 1 & 2 – The lab will note this issue in the SDG narrative and proceed with analysis. The lab should add in the SDG narrative whether or not all of the containers had intact custody seals.

Issue 3 - The samples referenced below are F9L38. The lab should note the issue in the SDG narrative and proceed with analysis.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]
Sent: Wednesday, May 20, 2015 3:26 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple

Good afternoon,
DATAC is reporting the following issues with Case 45316. Please advise.

-Missing/broken custody seals-
Issue 1: Two of the coolers received today, corresponding with airbill numbers 773640624237 and773634427290, were received with no intact custody seal and no tape. (See attached pictures). The inner black bags were still intact, which should minimize any concerns about sample integrity issues.

Issue 2: Two of the coolers received today also had tape that was beginning to come off of the coolers. As the tape was coming up, it was also taking the custody seal with it, which likely explains how the other 2 coolers arrived without custody seals. (See attached picture)

-Incorrect/duplicated sample IDs-
Issue 3: The laboratory received 4 sets of samples that did not have the CLP sample number on the label. All three had the same sample identifier number, WO-005-001-00-52 and the same collection date and time of 05/19/2015 14:50. This corresponds with sample F9L38, which is listed on the four COCs received from coolers with this issue. The laboratory did not receive any other samples that had been labeled F9L38.(See attached pictures and COC scans).

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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---- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 04:22 PM ----

From: Jessica Helland <Jessica.Helland@alsglobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 05/20/2015 04:05 PM
Subject: FW: Case 45316 Issues

Please advise region 6 of the below issues.

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Thomas Carlson
Sent: Wednesday, May 20, 2015 11:57 AM
To: Jessica Helland; Meredith D. Edwards
Cc: Julie Warath; Joseph Gress
Subject: Case 45316 Issues

Please advise region 6 of the following issues.

1. 2 of the coolers received today, corresponding with airbill numbers 773640624237 and773634427290, were received with no intact custody seal and no tape. (See attached pictures)
   a. The inner black bags were still intact, which should minimize any concerns about sample integrity issues.
2. 2 of the coolers received today also had tape that was beginning to come off of the coolers. As the tape was coming up, it was also taking the custody seal with it, which likely explains how the other 2 coolers arrived without custody seals. (See attached pictures)
3. We received 4 sets of samples that did not have the CLP sample number on the label. All three had the same sample identifier number, WO-005-001-00-52 and the same collection date and time of 05/19/2015 14:50. This corresponds with sample F9L38, which is listed on the four TRs received from coolers with this issue. We did not receive any

other samples that had been labeled F9L38.(See attached pictures and TR scans).
Thanks

****
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****

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Jessica Helland

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Wednesday, May 20, 2015 2:19 PM
To: Jessica Helland; Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple | FINAL

Jessica,

-Non-sampler issues-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.
Resolution 1: Per Region 6, the samples were for SV/SVSIM analysis and laboratory QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)
Resolution 2: Per Region 6, F9KX4 is correct in cooler 1. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.
Resolution 3: Per Region 6, F9KX4 from cooler 6 needs to be changed to F9KR0. The laboratory should note that sample F9KX4 from cooler #6 was mislabeled and data should be reported under F9KR0. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 04:14 PM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 05/20/2015 03:42 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issues 2 & 3

Hello Margaret – please provide information below to the lab.

Lab Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

R6 response # 2 - F9KX4 - is correct in cooler 1.

Lab Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

R6 response # 3 - The F9KX4 from cooler 6 needs to be changed to F9KR0. Lab should note that sample # F9KX4 from cooler #6 was mislabeled and data should be reported under
F9KR0.

Please ask the lab to note the issues and resolutions in the SDG narrative and proceed with analysis.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Perez, Myra
Sent: Wednesday, May 20, 2015 2:02 PM
To: 'Margaret T Jarosz'
Cc: Gorostiza, Sylvia; Flores, Raymond
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Multiple - R6 response to issue 1

Hello Margaret –

Lab Issue1-Insufficient volume- Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

R6 response – The samples were for SV/SVSIM analysis. Lab QC was not requested for SV/SVSIM nor for the VOA analysis. Lab QC is not required for SV/SVSIM nor VOAs.

We are waiting for a response from the sampler for issues 2 & 3.

Thank you.

Myra Perez
R6 CLP RSCC
281/983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]
Sent: Wednesday, May 20, 2015 12:12 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Multiple

Good afternoon,
DATAC is reporting the following issues with Case 45316. Please advise.

-Insufficient volume-
Issue 1: None of the COCs designate QC for any samples, nor was any additional volume provided for QC for any samples.

-Missing/duplicated sample IDs-
Issue 2: The laboratory received two samples labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
a. The samples on the right were from the COC designated "Cooler 1" (see attached scan of COC) and match up appropriately
b. The samples on the left, marked with a black X on the lid were received from the COC designated "Cooler 6". (See attached scan of COC)

-Samples/analyses listed on COC but not received at laboratory-
Issue 3: The laboratory did not receive sample F9KR0 from the COC designated "Cooler 6". This leads the laboratory to believe that sample F9KR0 was mislabeled as F9KX4.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
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----- Forwarded by Margaret T Jarosz/USA/CSC on 05/20/2015 01:06 PM -----

From: Jessica Helland <Jessica.Helland@alsglobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 05/20/2015 11:46 AM
Subject: FW: Case 45316 issues

Please see below issues.

Jessica N. Helland

Project Manager
ALS Life Sciences Division | Environmental

From: Thomas Carlson
Sent: Tuesday, May 19, 2015 10:54 AM
To: Roxanne Olson
Cc: Meredith D. Edwards; Jessica Helland
Subject: Case 45316 issues

Please advise region 6 of the following issues;

1. None of the TR's designate QC for any samples, nor was any additional volume provided for QC for any samples.
2. We received 2 sample labeled F9KX4. Both labels contain identical information in regards to sample ID, collection date and times, and station location. (See attached photo)
   a. The samples on the right were from the TR designated "Cooler 1" (see attached scan of TR) and match up appropriately.
   b. The samples on the left, marked with a black X on the lid were received from the TR designated "Cooler 6". (See attached scan of TR)
3. We did not receive sample F9KR0 from the TR designated "Cooler 6". This leads us to believe that sample F9KR0 was mislabeled as F9KX4.

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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.:	F9KW7
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	5	✓	
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)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)			✓	
Method Blank Summary (Form IV VOA)			✓	
GC/MS Instrument Performance Check (Form V VOA)			✓	
Internal Standard Area and RT Summary (Form VIII VOA)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data			✓	
BFB			✓	
Blank Data			✓	

07/16/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9KW7
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			✓	

07/16/2015 BH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9KW7
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)	6	7	✓	
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)	8	8	✓	
GC/MS Instrument Performance Check (Form V SV)	9	13	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	14	19	✓	
b. Sample Data	20	612		
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)	613	697		
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	698	706	✓	
Blank Data	707	725	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	726	728	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9KW7
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.]	729	970	✓	
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)			✓	

07/10/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9KW7
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)			✓	

07/19/2015 DH

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

CASE NO.	45316	SDG NO.:	F9KW7
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	971	978	✓	
Internal sample and sample extract transfer chain-of-custody records	n/a		✓	
Screening records	n/a		✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	n/a		✓	
10. EPA Shipping/Receiving Documents				
Airbills (no. of shipments _____)	n/a		✓	
Chain of Custody Records (Copies)	n/a		✓	
Sample Tags	979	979	✓	
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		✓	

07/14/2015 OH

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

CASE NO.	45316	SDG NO.:	F9KW7
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	980	980	✓	
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) 7/16/15 (Date)

Verified by: (CLP Lab) Roxanne Olson (Signature) Roxanne Olson/Manager (Printed Name/Title) 7/16/15 (Date)

Audited by: (USEPA) (Signature) (Printed Name/Title) (Date)

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F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9KW7

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

07/16/2015 DH

Communications:

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

Comments:

None

Signature: Desiree Hell
Document Control Officer

Date: 07/16/2015

SDG Narrative
Semivolatiles Fraction

Contract Number: EPW11037
Case Number: 45316
SDG Number: F9KW7
SOW Number: SOM01.2
Laboratory Name: ALS Environmental

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9K71	1514052001		SVOA
F9K71	1514052001	10	SVOA SIM
F9K72	1514052002		SVOA
F9K72	1514052002		SVOA SIM
F9K73	1514052003		SVOA
F9K73	1514052003		SVOA SIM
F9K77	1514052004		SVOA
F9K77	1514052004	2	SVOA SIM
F9K78	1514052005		SVOA
F9K78	1514052005		SVOA SIM
F9KR0	1514071001		SVOA
F9KR0	1514071001		SVOA SIM
F9KW7	1513978001		SVOA
F9KW7	1513978001		SVOA SIM
F9KW8	1513978002		SVOA
F9KW8	1513978002		SVOA SIM
F9KW9	1513978003		SVOA
F9KW9	1513978003		SVOA SIM
F9KX0	1513978004		SVOA
F9KX0	1513978004		SVOA SIM
F9KX1	1513978005		SVOA
F9KX1	1513978005		SVOA SIM
F9KX4	1514071002		SVOA
F9KX4	1514071002		SVOA SIM
F9KX5	1513987006		SVOA
F9KX5	1513978006		SVOA SIM
F9KY4	1513978007		SVOA
F9KY4	1513978007		SVOA SIM
F9KY5	1513978008		SVOA
F9KY5	1513978008		SVOA SIM
F9KY6	1513978009		SVOA
F9KY6	1513978009		SVOA SIM
F9KY7	1513978010		SVOA
F9KY7	1513978010		SVOA SIM
F9L28	1513978011		SVOA
F9L28	1513978011		SVOA SIM
F9L29	1513978012		SVOA
F9L29	1513978012		SVOA SIM
F9L30	1513978013		SVOA
F9L30	1513978013	4	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.

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	
SSTD005DG	Indeno(1,2,3-c,d)pyrene	3284	3318
SSTD040GV	Caprolactam	803	832
SSTD080GV	Caprolactam	805	842
F9K71	Benzo(k)fluoranthene	2597	2606
F9K71	Dibenzo(a,h)anthrecene	3157	3187
F9KX1	Benzo(b)fluoranthene	2583	2597
F9L30	Benzo(k)fluoranthene	2599	2608
F9L30	Benzo(a)pyrene	2692	2706

For SIM analysis:

Sample	Analyte	Scan start-stop	
F9KX0	Benzo(k)fluoranthene	2377	2389
F9KX1	Benzo(k)fluoranthene	2377	2388
F9KX5	Fluoranthene-d10	1661	1677
F9KY4	Pyrene	1706	1716
F9KY4	Benzo(k)fluoranthene	2377	2389
F9KY6	Pyrene	1706	1717
F9KY6	Benzo(k)fluoranthene	2378	2389
F9KY7	Benzo(k)fluoranthene	2378	2390
F9L28	Pyrene	1707	1717
F9L28	Benzo(k)fluoranthene	2378	2389
F9L29	Benzo(k)fluoranthene	2425	2437
F9L30	Fluoranthene-d10	1626	1644
F9L30	Benzo(k)fluoranthene	2378	2389
F9K72	Benzo(k)fluoranthene	2425	2437
F9K78	Benzo(k)fluoranthene	2425	2436
F9L30	Benzo(k)fluoranthene	2425	2436
F9K71	Benzo(k)fluoranthene	2425	2434
F9K77	Benzo(k)fluoranthene	2377	2388
F9KW7	Pyrene	1706	1716
F9KW7	Benzo(k)fluoranthene	2377	2387

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.

Steven Yourstone July 16, 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.: F9KW7

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9K71	64	55	61	37	63	67	64	4
02	F9K72	71	59	66	43	68	70	69	11
03	F9K73	70	57	66	50	63	66	66	11
04	F9K77	62	56	64	39	62	64	67	2
05	F9K78	70	59	67	57	65	66	67	9
06	F9KR0	67	59	63	38	66	66	65	14
07	F9KW7	61	49	59	61	56	58	64	1
08	F9KW8	68	60	67	59	68	67	67	11
09	F9KW9	75	68	74	66	74	73	72	13
10	F9KX0	67	57	64	65	64	64	70	1 *
11	F9KX1	66	57	62	51	63	65	67	2
12	F9KX4	66	54	61	40	61	61	62	8
13	F9KX5	77	68	75	65	78	78	77	17
14	F9KY4	58	51	55	38	57	58	60	2
15	F9KY5	75	59	72	62	69	74	75	20
16	F9KY6	66	52	63	50	61	62	68	1
17	F9KY7	68	53	64	54	63	64	70	3
18	F9L28	60	49	58	55	55	56	62	1 *
19	F9L29	80	68	77	69	77	77	77	12
20	F9L30	66	56	61	44	64	67	67	1 *
21	SBLK23	67	62	67	50	67	66	62	11
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.: F9KW7

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	F9K71	73	69	68	72	60	66	71	64	0
02	F9K72	89	77	85	84	67	87	91	91	0
03	F9K73	84	70	73	77	61	86	91	88	0
04	F9K77	73	68	72	72	35	69	74	68	0
05	F9K78	81	70	77	77	61	79	82	77	0
06	F9KR0	87	73	80	82	60	83	87	80	0
07	F9KW7	68	64	65	69	28	68	72	69	0
08	F9KW8	79	74	69	77	61	77	81	77	0
09	F9KW9	85	77	80	82	67	82	87	83	0
10	F9KX0	73	69	71	73	32	69	74	68	1
11	F9KX1	76	72	74	77	38	72	78	70	0
12	F9KX4	77	69	71	75	57	78	82	79	0
13	F9KX5	93	86	84	90	74	92	97	93	0
14	F9KY4	70	65	69	69	32	65	70	62	0
15	F9KY5	88	79	80	85	57	86	90	85	0
16	F9KY6	77	70	77	76	40	72	77	69	0
17	F9KY7	77	72	73	76	36	73	76	71	0
18	F9L28	67	63	63	67	33	64	68	65	1
19	F9L29	93	86	87	91	75	95	100	98	0
20	F9L30	74	70	69	74	39	67	80	67	1
21	SBLK23	79	73	67	77	72	82	90	89	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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFL02BLK Lab Sample ID: 447823

Instrument ID: 5975-D Date Extracted: 05/21/2015

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

Level: (LOW/MED) LOW Time Analyzed: 09:25

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9K71	1514052001	GCK02F01	07/02/2015
02	F9K72	1514052002	DFL11F02	05/27/2015
03	F9K73	1514052003	DFL12F03	05/27/2015
04	F9K77	1514052004	GCK03F04	07/02/2015
05	F9K78	1514052005	DFL13F05	05/27/2015
06	F9KR0	1514071001	DFL14F01	05/27/2015
07	F9KW7	1513978001	GCK04F01	07/02/2015
08	F9KW8	1513978002	DFL06F02	05/27/2015
09	F9KW9	1513978003	DFL07F03	05/27/2015
10	F9KX0	1513978004	GCK05F04	07/02/2015
11	F9KX1	1513978005	GCK06F05	07/02/2015
12	F9KX4	1514071002	DFL15F02	05/27/2015
13	F9KX5	1513978006	DFL08F06	05/27/2015
14	F9KY4	1513978007	GCK07F07	07/02/2015
15	F9KY5	1513978008	DFL09F08	05/27/2015
16	F9KY6	1513978009	GCK08F09	07/02/2015
17	F9KY7	1513978010	GCK09F10	07/02/2015
18	F9L28	1513978011	GCK10F11	07/02/2015
19	F9L29	1513978012	DFL10F12	05/27/2015
20	F9L30	1513978013	GCL03F13	07/06/2015
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COMMENTS:

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

EPA SAMPLE NO:
DFTPPDG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFG02S20 DFTPP Injection Date: 05/21/2015

Instrument ID: 5975-D DFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	30.4
70	Less than 2.0% of mass 69	0.3 (1.0) 1
127	10.0 - 80.0% of mass 198	40.8
197	Less than 2.0% of mass 198	0.5
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	24.9
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	9.9
442	50.0 - 100% of mass 198	65.3
443	15.0 - 24.0% of mass 442	12.7 (19.4) 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	SSTD020DG	SSTD020DG	DFG02S20	05/21/2015	14:38
02	SSTD005DG	SSTD005DG	DFG03S05	05/21/2015	15:14
03	SSTD010DG	SSTD010DG	DFG04S10	05/21/2015	15:48
04	SSTD040DG	SSTD040DG	DFG05S40	05/21/2015	16:22
05	SSTD080DG	SSTD080DG	DFG06S80	05/21/2015	16:56
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5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPDL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFL01S20 DFTPP Injection Date: 05/27/2015

Instrument ID: 5975-D DFTPP Injection Time: 08:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.4
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	28.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	39.9
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	6.7
275	10.0 - 60.0% of mass 198	25.2
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	10.2
442	50.0 - 100% of mass 198	69.4
443	15.0 - 24.0% of mass 442	13.4 (19.3) 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	SSTD020DL	SSTD020DL	DFL01S20	05/27/2015	08:33
02	SBLK23	447823	DFL02BLK	05/27/2015	09:25
03	F9KW8	1513978002	DFL06F02	05/27/2015	11:39
04	F9KW9	1513978003	DFL07F03	05/27/2015	12:13
05	F9KX5	1513978006	DFL08F06	05/27/2015	12:46
06	F9KY5	1513978008	DFL09F08	05/27/2015	13:20
07	F9L29	1513978012	DFL10F12	05/27/2015	13:53
08	F9K72	1514052002	DFL11F02	05/27/2015	14:27
09	F9K73	1514052003	DFL12F03	05/27/2015	15:00
10	F9K78	1514052005	DFL13F05	05/27/2015	15:33
11	F9KR0	1514071001	DFL14F01	05/27/2015	16:06
12	F9KX4	1514071002	DFL15F02	05/27/2015	16:39
13	SSTD020L1	SSTD020L1	DFL16S20	05/27/2015	17:12
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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.: F9KW7

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

EPA SAMPLE NO.: DFTPPGK

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: GCK01S20 DFTPP Injection Date: 07/02/2015

Instrument ID: 5975-G DFTPP Injection Time: 10:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.1
68	Less than 2.0% of mass 69	0.6 (1.2) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	46.6
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	6.6
275	10.0 - 60.0% of mass 198	19.0
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	9.1
442	50.0 - 100% of mass 198	58.1
443	15.0 - 24.0% of mass 442	11.5 (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	SSTD020GK	SSTD020GK	GCK01S20	07/02/2015	10:50
02	F9K71	1514052001	GCK02F01	07/02/2015	11:23
03	F9K77	1514052004	GCK03F04	07/02/2015	11:56
04	F9KW7	1513978001	GCK04F01	07/02/2015	12:29
05	F9KX0	1513978004	GCK05F04	07/02/2015	13:03
06	F9KX1	1513978005	GCK06F05	07/02/2015	13:36
07	F9KY4	1513978007	GCK07F07	07/02/2015	14:09
08	F9KY6	1513978009	GCK08F09	07/02/2015	14:42
09	F9KY7	1513978010	GCK09F10	07/02/2015	15:15
10	F9L28	1513978011	GCK10F11	07/02/2015	15:47
11	SSTD020K1	SSTD020K1	GCK11S20	07/02/2015	16:20
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5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: GCL02S20 DFTPP Injection Date: 07/06/2015

Instrument ID: 5975-G DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	66.7
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	48.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.6
197	Less than 2.0% of mass 198	0.3
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	18.7
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	8.9
442	50.0 - 100% of mass 198	56.9
443	15.0 - 24.0% of mass 442	11.0 (19.3) 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	SSTD020GL	SSTD020GL	GCL02S20	07/06/2015	09:40
02	F9L30	1513978013	GCL03F13	07/06/2015	10:13
03	SSTD020L2	SSTD020L2	GCL10S20	07/06/2015	14:03
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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.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Date Analyzed: 05/27/2015

Lab File ID (Standard): DFL01S20 Time Analyzed: 08:33

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	877489	5.10	2881851	6.56	1770482	9.23
	UPPER LIMIT	1754978	5.60	5763702	7.06	3540964	9.73
	LOWER LIMIT	438745	4.60	1440926	6.06	885241	8.73
	EPA SAMPLE NO.						
01	SBLK23	827035	5.10	2846652	6.55	1752020	9.23
02	F9KW8	812837	5.11	2715448	6.56	1672690	9.23
03	F9KW9	885236	5.11	3016252	6.56	1915541	9.23
04	F9KX5	870632	5.11	2867072	6.56	1743620	9.23
05	F9KY5	807287	5.11	2734430	6.55	1704804	9.23
06	F9L29	935236	5.11	3097393	6.56	1844963	9.23
07	F9K72	778678	5.11	2622480	6.56	1656021	9.23
08	F9K73	806611	5.11	2718683	6.56	1670624	9.23
09	F9K78	841038	5.11	2887588	6.56	1791807	9.23
10	F9KR0	781530	5.10	2646503	6.55	1664972	9.23
11	F9KX4	930807	5.11	3178290	6.56	1960304	9.23
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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.: F9KW7

EPA Sample No.(SSTD020##): SSTD020DL Date Analyzed: 05/27/2015

Lab File ID (Standard): DFL01S20 Time Analyzed: 08:33

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	3099613	11.88	3769374	16.03	3504700	18.60
	UPPER LIMIT	6199226	12.38	7538748	16.53	7009400	19.10
	LOWER LIMIT	1549807	11.38	1884687	15.53	1752350	18.10
	EPA SAMPLE NO.						
01	SBLK23	2999012	11.88	3503198	16.02	3362251	18.60
02	F9KW8	2895480	11.87	3392654	16.02	3222814	18.59
03	F9KW9	3407383	11.88	3981531	16.02	3788029	18.59
04	F9KX5	2983965	11.88	3459227	16.02	3282705	18.59
05	F9KY5	2962688	11.88	3502245	16.02	3391512	18.60
06	F9L29	3119740	11.88	3659459	16.02	3527810	18.60
07	F9K72	2937902	11.88	3568810	16.02	3443995	18.60
08	F9K73	2860153	11.88	3287845	16.02	3097343	18.59
09	F9K78	3191014	11.88	3873949	16.02	3751001	18.60
10	F9KR0	2976695	11.88	3576597	16.02	3415453	18.59
11	F9KX4	3351084	11.88	3904194	16.02	3773589	18.60
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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.: F9KW7

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

EPA Sample No.(SSTD020##): SSTD020GK Date Analyzed: 07/02/2015

Lab File ID (Standard): GCK01S20 Time Analyzed: 10:50

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	376264	4.87	1421134	6.27	804450	8.90
	UPPER LIMIT	752528	5.37	2842268	6.77	1608900	9.40
	LOWER LIMIT	188132	4.37	710567	5.77	402225	8.40
	EPA SAMPLE NO.						
01	F9K71	379253	4.87	1403941	6.26	792247	8.89
02	F9K77	348861	4.87	1306777	6.26	762895	8.89
03	F9KW7	389667	4.87	1480979	6.26	845752	8.89
04	F9KX0	356135	4.87	1346098	6.26	782526	8.89
05	F9KX1	381652	4.87	1416548	6.26	804798	8.89
06	F9KY4	420205	4.87	1560360	6.26	913337	8.89
07	F9KY6	340901	4.87	1292133	6.26	743903	8.89
08	F9KY7	362600	4.87	1362446	6.26	802066	8.89
09	F9L28	407976	4.87	1559117	6.26	882267	8.89
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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.: F9KW7

EPA Sample No.(SSTD020##): SSTD020GK Date Analyzed: 07/02/2015

Lab File ID (Standard): GCK01S20 Time Analyzed: 10:50

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	1313369	11.52	1289108	15.73	1126880	18.07
	UPPER LIMIT	2626738	12.02	2578216	16.23	2253760	18.57
	LOWER LIMIT	656685	11.02	644554	15.23	563440	17.57
	EPA SAMPLE NO.						
01	F9K71	1284437	11.52	1244264	15.72	1081465	18.07
02	F9K77	1272423	11.52	1194583	15.72	950562	18.07
03	F9KW7	1359862	11.52	1253832	15.72	1000805	18.07
04	F9KX0	1287935	11.52	1216835	15.72	915019	18.07
05	F9KX1	1336074	11.52	1249332	15.72	991931	18.07
06	F9KY4	1556930	11.52	1497097	15.72	1186679	18.07
07	F9KY6	1253413	11.52	1188132	15.72	942386	18.07
08	F9KY7	1329086	11.52	1236865	15.72	883097	18.07
09	F9L28	1455147	11.52	1328977	15.72	976186	18.07
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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.: F9KW7

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

EPA Sample No.(SSTD020##): SSTD020GL Date Analyzed: 07/06/2015

Lab File ID (Standard): GCL02S20 Time Analyzed: 09:40

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	365071	4.86	1383738	6.26	795017	8.89
	UPPER LIMIT	730142	5.36	2767476	6.76	1590034	9.39
	LOWER LIMIT	182536	4.36	691869	5.76	397509	8.39
	EPA SAMPLE NO.						
01	F9L30	367832	4.86	1362826	6.26	799937	8.89
02							
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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.

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.: F9KW7

EPA Sample No.(SSTD020##): SSTD020GL Date Analyzed: 07/06/2015

Lab File ID (Standard): GCL02S20 Time Analyzed: 09:40

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	1318666	11.52	1316667	15.72	1141230	18.07
	UPPER LIMIT	2637332	12.02	2633334	16.22	2282460	18.57
	LOWER LIMIT	659333	11.02	658334	15.22	570615	17.57
	EPA SAMPLE NO.						
01	F9L30	1285709	11.52	1156261	15.72	697412	18.07
02							
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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.

F9K71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCK02F01

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	15.	J
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.: F9K71

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCK02F01
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015
GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	16.	J
120-12-7	Anthracene	16.	J
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	120	J
218-01-9	Chrysene	140	J
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	180	J
207-08-9	Benzo(k)fluoranthene	57.	J
50-32-8	Benzo(a)pyrene	100	J
193-39-5	Indeno(1,2,3-cd)pyrene	91.	J
53-70-3	Dibenzo(a,h)anthracene	25.	J
191-24-2	Benzo(g,h,i)perylene	56.	J
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9K71

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCK02F01
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015
GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

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-	2.19	78.	JN
02	78-95-5	2-Propanone, 1-chloro-	2.28	120	JNB
03		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	380	J
04		Unknown Ethanethiol	2.36	340	J
05		Unknown trans-Crotonamide	2.80	83.	J
06		Unknown 1,3,4-Oxadiazole, 2-(acetyloxy)-2,5-dihy	3.30	120	J
07		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6700	J
08		Unknown 1H-Pyrrole-2,5-dione	4.27	220	J
09		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.68	160	J
10		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.66	120	J
11	57-10-3	n-Hexadecanoic acid	12.65	140	JN
12	638-58-4	Tetradecanamide	12.76	99.	JN
13		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.99	81.	J
14	1120-16-7	Dodecanamide	14.15	260	JN
15	301-02-0	9-Octadecenamide, (Z)-	15.07	1900	JN
16	629-54-9	Hexadecanamide	15.17	91.	JN
17		Unknown Dodecanamide	15.86	91.	J
18		Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)	16.20	150	J
19	301-02-0	9-Octadecenamide, (Z)-	16.97	360	JN
20	198-55-0	Perylene	17.84	200	JN
21		Unknown Phthalic anhydride	18.60	370	J
22		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.20	1100	J
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	400	J

[2] EPA-designated Registry Number.

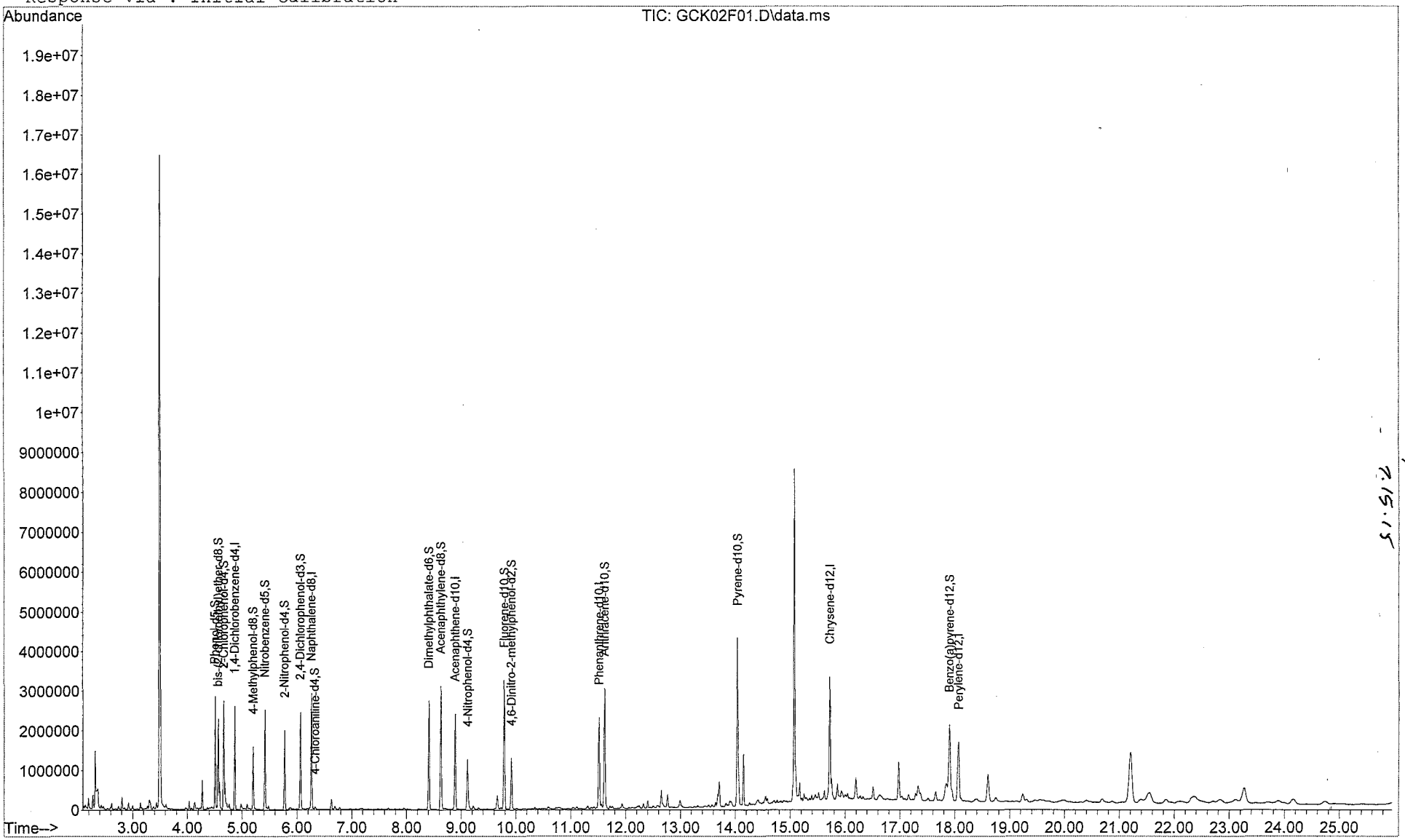
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:52:47 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:52:47 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	379253	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1403941	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	792247	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1284437	20.00 ug/ml
73) Chrysene-d12	15.72	240	1244264	20.00 ug/ml
81) Perylene-d12	18.07	264	1081465	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.50	99	840612	25.470ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	570406	22.178ug/mL
7) 2-Chlorophenol-d4	4.66	132	683253	24.520ug/ml
13) 4-Methylphenol-d8	5.20	113	327506	14.836ug/mL
17) Nitrobenzene-d5	5.42	128	312545	25.341ug/ml
21) 2-Nitrophenol-d4	5.77	143	348910	26.765ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	520629	25.648ug/mL
28) 4-Chloroaniline-d4	6.33	131	31625	1.427ug/mL
42) Dimethylphthalate-d6	8.41	166	1442595	29.038ug/mL
45) Acenaphthylene-d8	8.63	160	1862533	27.588ug/mL
50) 4-Nitrophenol-d4	9.12	143	275948	27.228ug/mL
57) Fluorene-d10	9.79	176	1220028	28.757ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	218355	23.951ug/mL
69) Anthracene-d10	11.62	188	1808324	26.548ug/mL
75) Pyrene-d10	14.04	212	1751294	28.204ug/mL
86) Benzo(a)pyrene-d12	17.90	264	1334124	25.745ug/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

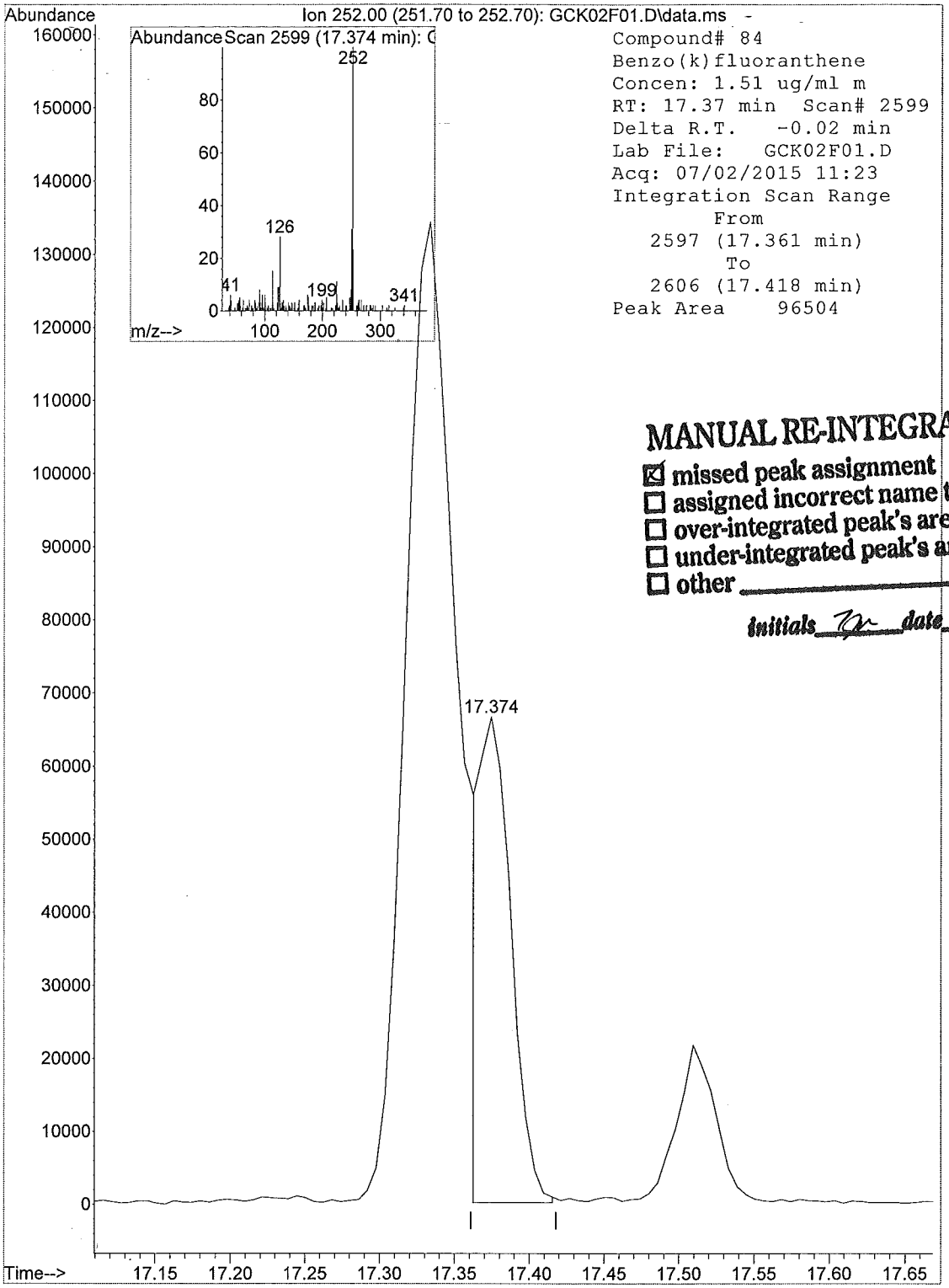
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:52:47 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	8.65	152	29278	0.408ug/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	28841	0.421ug/ml	98
68) Anthracene	11.65	178	28931	0.414ug/ml	91
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	13.70	202	309844	4.104ug/ml	98
74) Pyrene	14.06	202	315330	3.981ug/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	235532	3.120ug/ml	94
79) Chrysene	15.75	228	253611	3.721ug/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	17.33	252	316382	4.671ug/ml	97
84) Benzo(k)fluoranthene	17.37	252	96504	1.508ug/ml m	97 7.15.15
85) Benzo(a)pyrene	17.94	252	172221	2.702ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.68	276	136380	2.420ug/ml	89
88) Dibenzo(a,h)anthracene	20.75	278	37085	0.658ug/ml m	90 7.15.15
89) Benzo(g,h,i)perylene	21.50	276	83503	1.505ug/ml	98

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

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

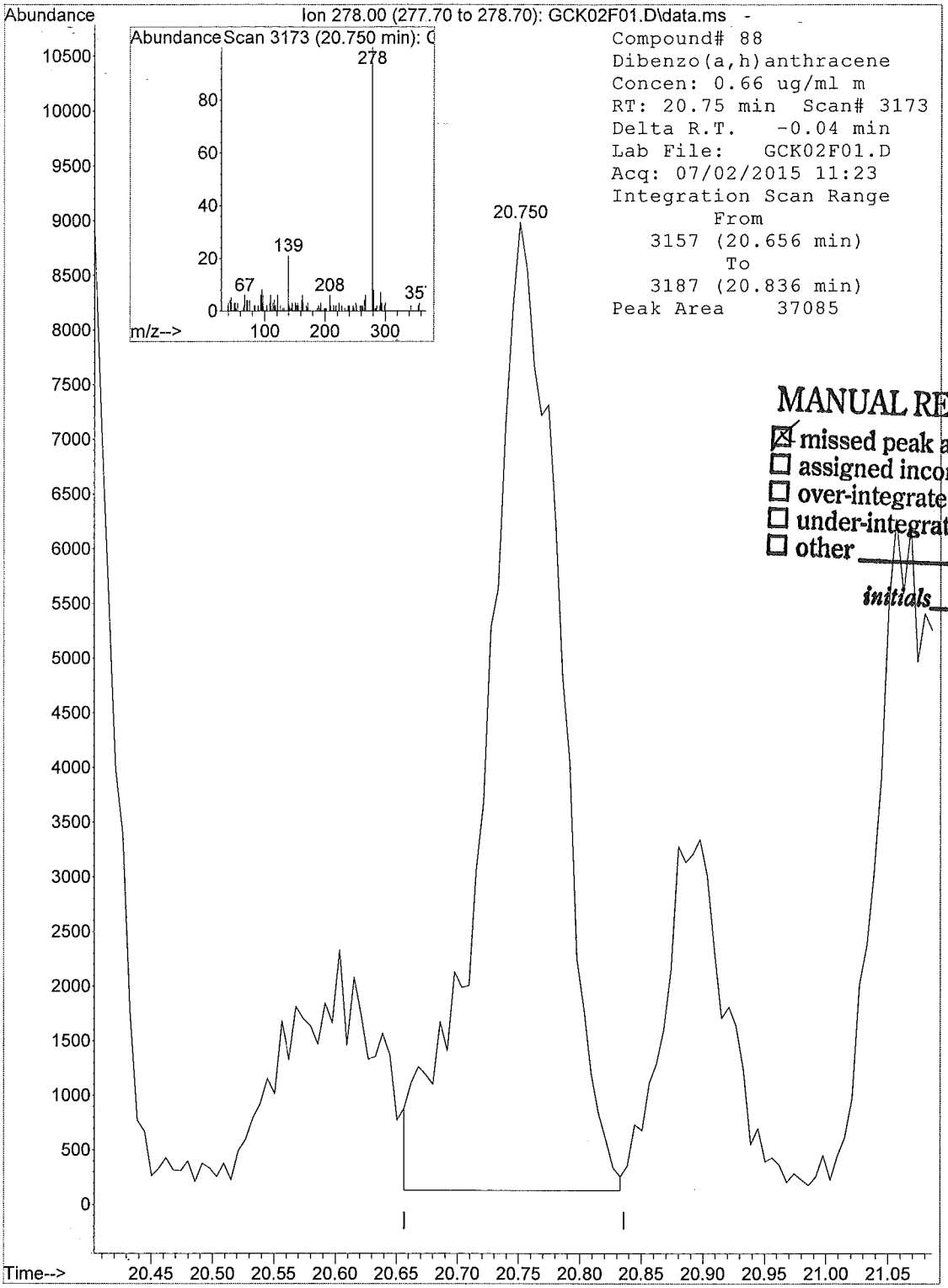


MANUAL RE-INTEGRATION

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

initials TM date 7.15.15

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

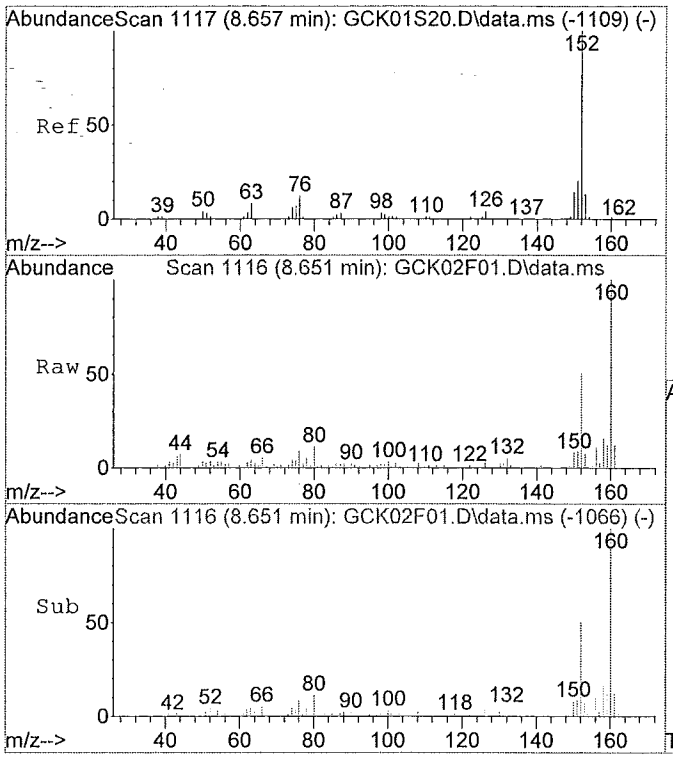


MANUAL RE-INTEGRATION

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

initials TJ *date* 7.15.15

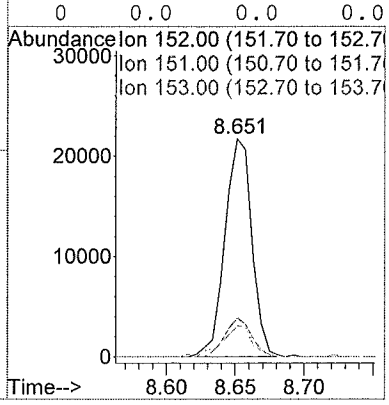
GSOM01D6.M 5975-G GSOM01D6.M 1514052001 F9K71 . SOIL SOM

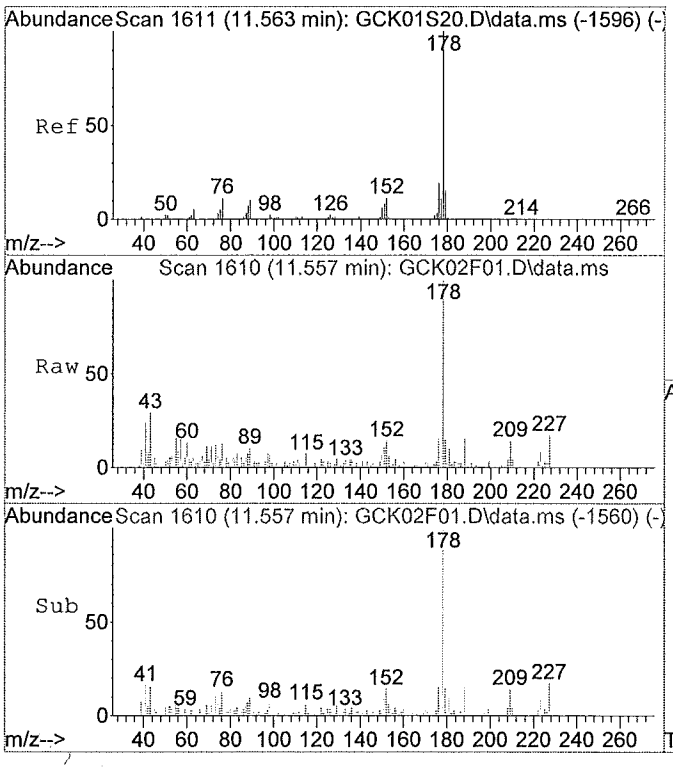


#44
Acenaphthylene
Concen: 0.41 ug/ml
RT: 8.65 min Scan# 1116
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:152 Resp: 29278

Ion	Ratio	Lower	Upper
152	100		
151	17.4	13.4	25.0
153	15.6	9.1	16.9
0	0.0	0.0	0.0

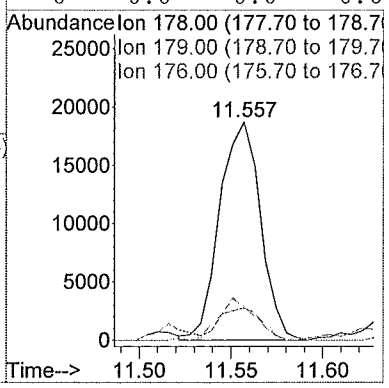


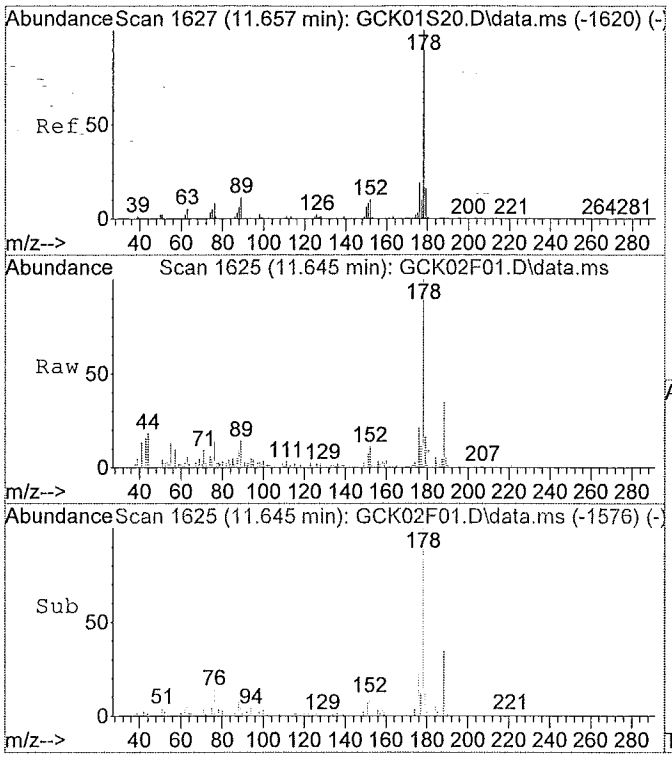


#67
Phenanthrene
Concen: 0.42 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:178 Resp: 28841

Ion	Ratio	Lower	Upper
178	100		
179	14.8	10.6	19.8
176	17.9	13.2	24.4
0	0.0	0.0	0.0

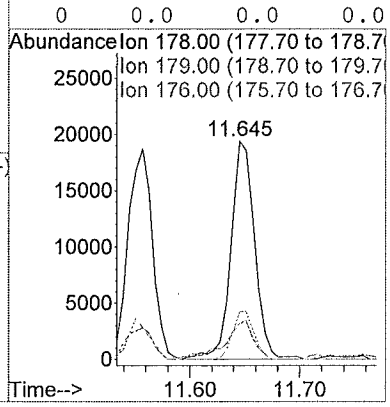


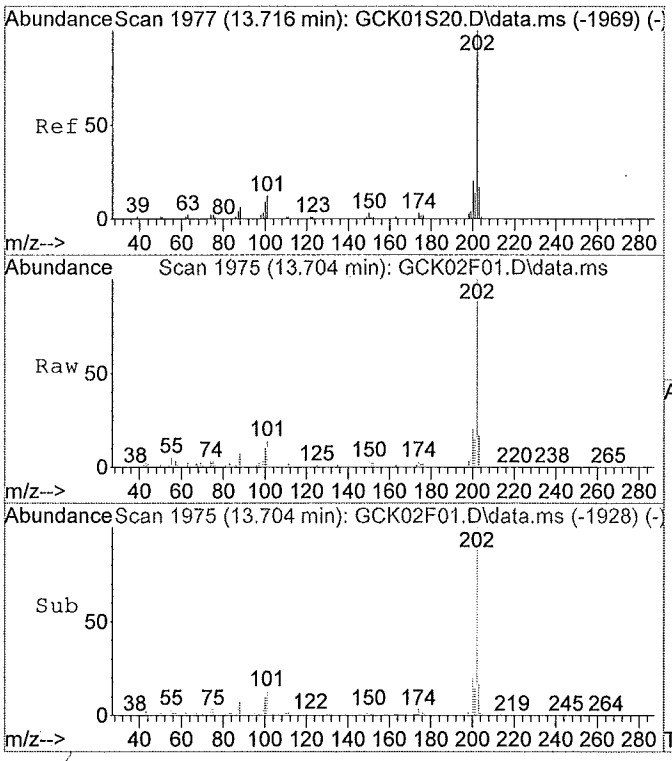


#68
Anthracene
Concen: 0.41 ug/ml
RT: 11.65 min Scan# 1625
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:178 Resp: 28931

Ion	Ratio	Lower	Upper
178	100		
179	21.3	10.5	19.5#
176	19.7	12.7	23.5
0	0.0	0.0	0.0

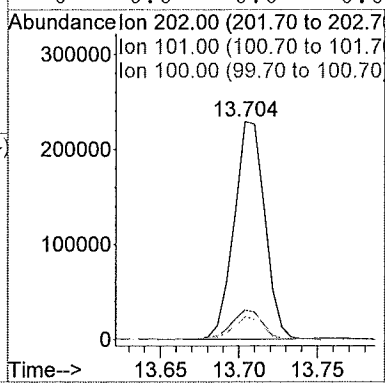


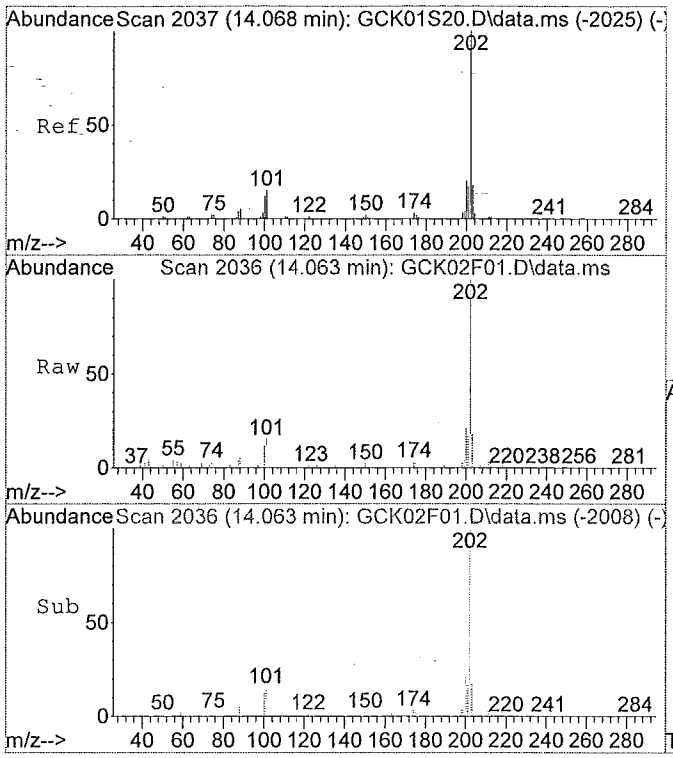


#72
Fluoranthene
Concen: 4.10 ug/ml
RT: 13.70 min Scan# 1975
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:202 Resp: 309844

Ion	Ratio	Lower	Upper
202	100		
101	14.1	10.5	19.5
100	10.3	7.4	13.8
0	0.0	0.0	0.0

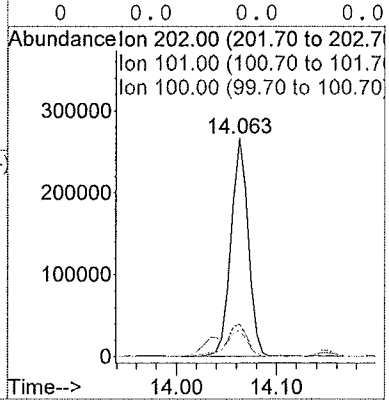


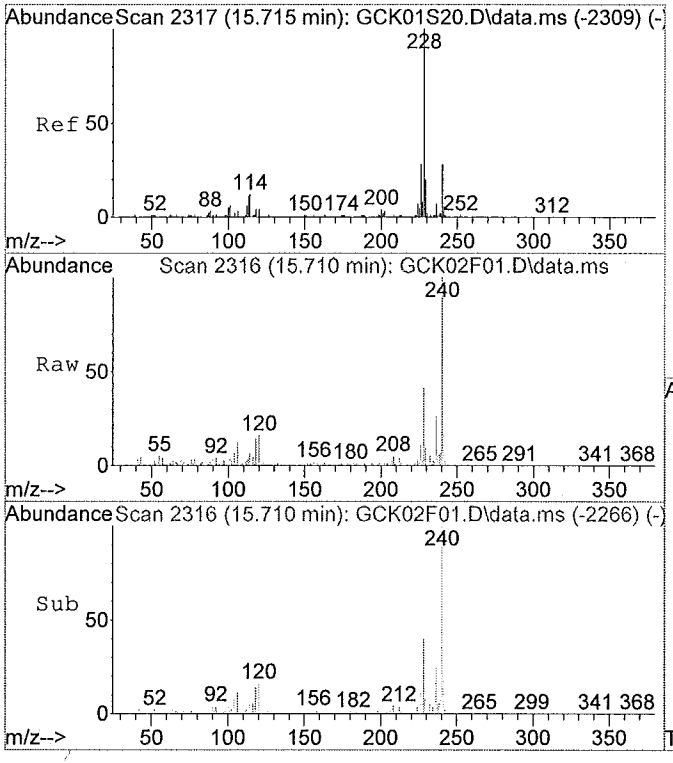


#74
Pyrene
Concen: 3.98 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:202 Resp: 315330

Ion	Ratio	Lower	Upper
202	100		
101	17.8	12.2	22.7
100	10.8	10.1	18.7
0	0.0	0.0	0.0

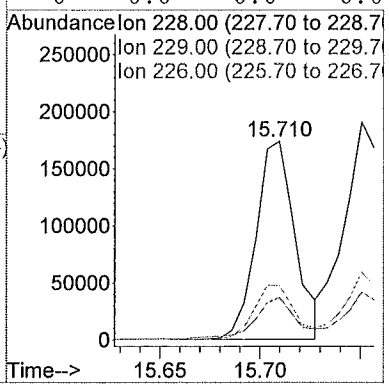


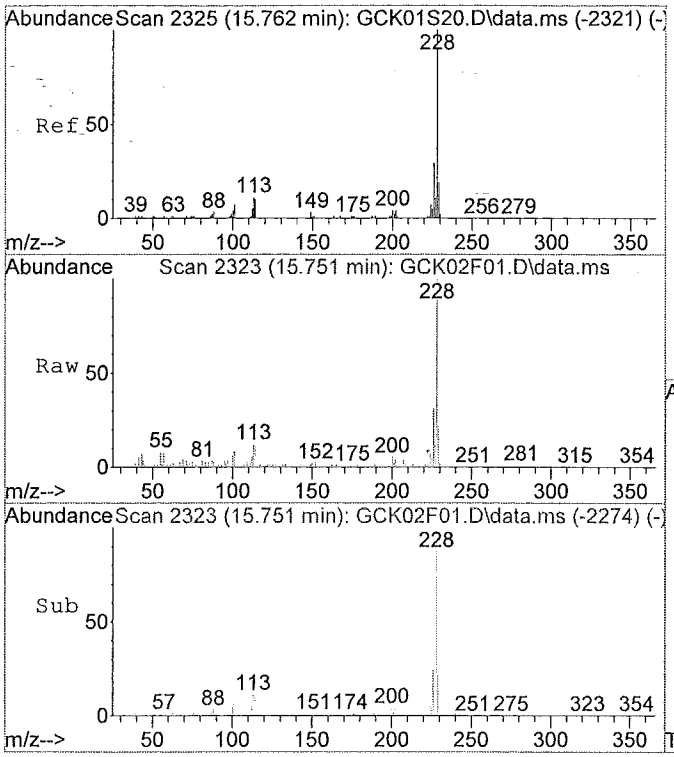


#78
Benzo(a)anthracene
Concen: 3.12 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:228 Resp: 235532

Ion	Ratio	Lower	Upper
228	100		
229	22.7	13.7	25.5
226	29.0	18.2	33.8
0	0.0	0.0	0.0

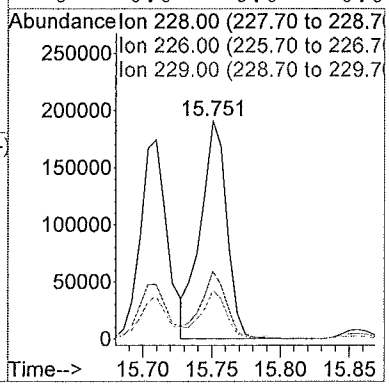


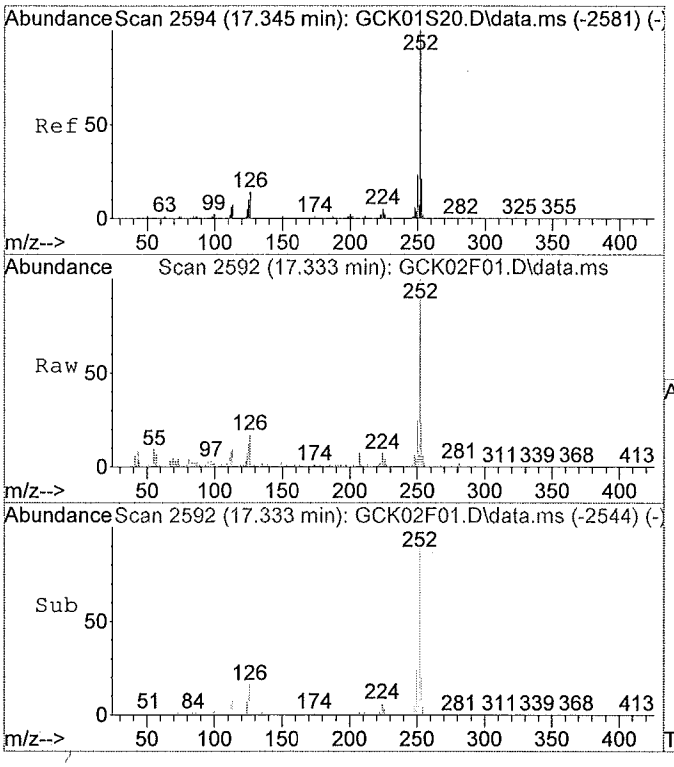


#79
Chrysene
Concen: 3.72 ug/ml
RT: 15.75 min Scan# 2323
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:228 Resp: 253611

Ion	Ratio	Lower	Upper
228	100		
226	29.9	20.1	37.3
229	21.6	13.7	25.5
0	0.0	0.0	0.0

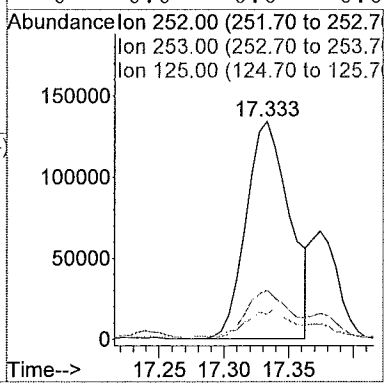


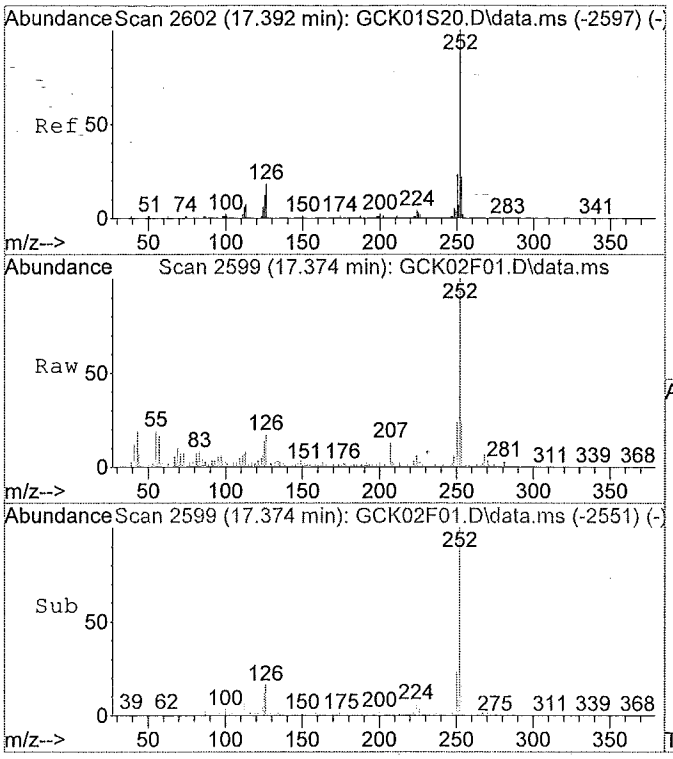


#83
Benzo(b)fluoranthene
Concen: 4.67 ug/ml
RT: 17.33 min Scan# 2592
Delta R.T. -0.01 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:252 Resp: 316382

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.1	28.1
125	12.8	10.6	19.8
0	0.0	0.0	0.0

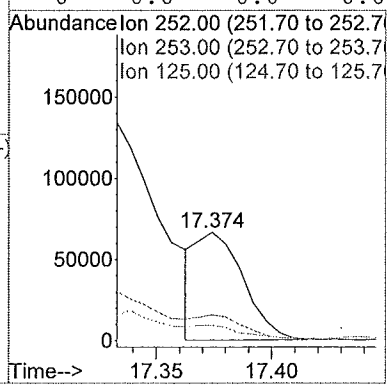


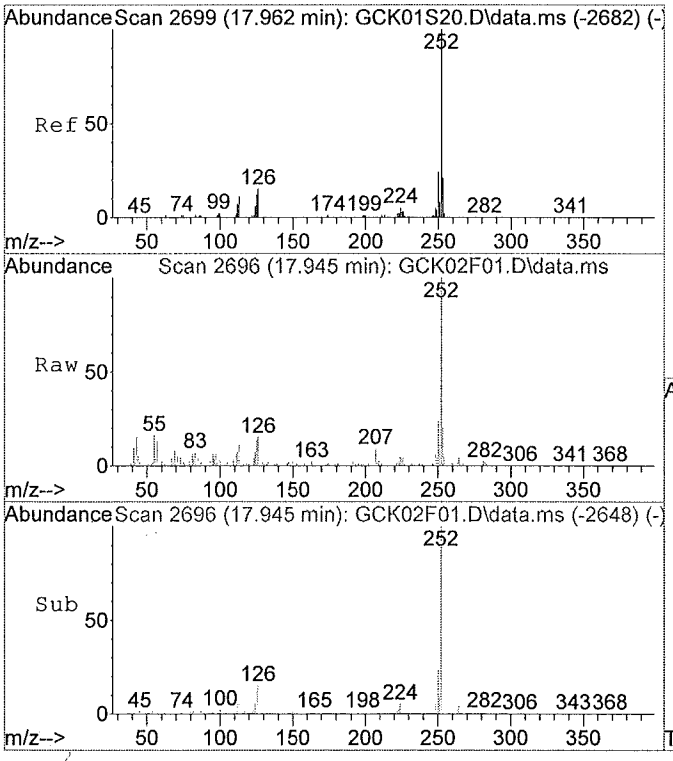


#84
Benzo(k)fluoranthene
Concen: 1.51 ug/ml m
RT: 17.37 min Scan# 2599
Delta R.T. -0.02 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:252 Resp: 96504

Ion	Ratio	Lower	Upper
252	100		
253	72.1	15.1	28.1#
125	41.9	10.7	19.9#
0	0.0	0.0	0.0

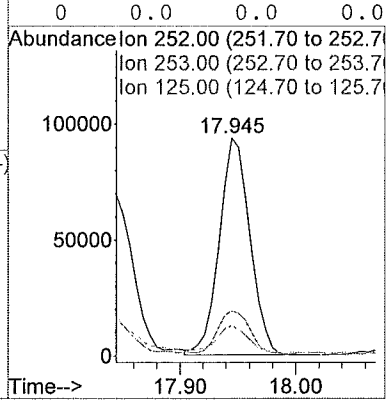


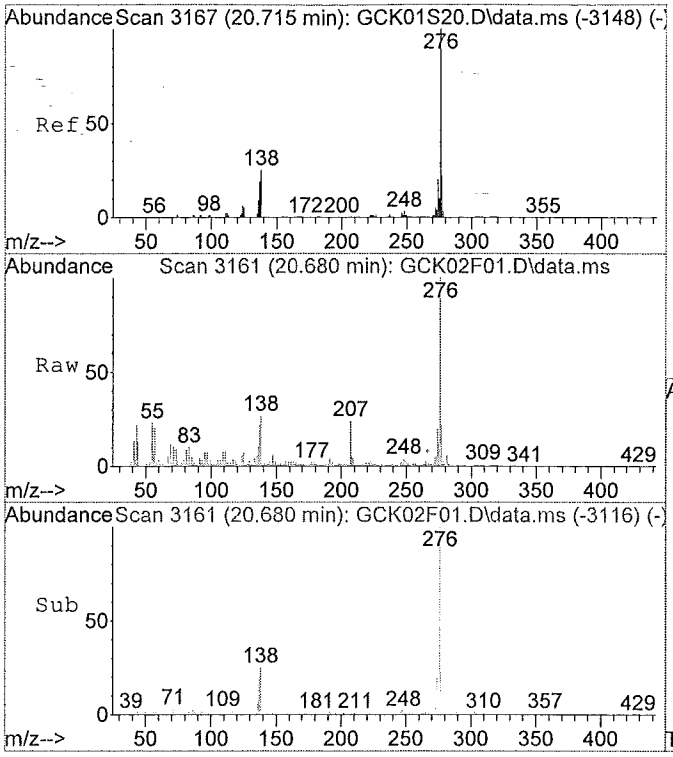


#85
Benzo(a)pyrene
Concen: 2.70 ug/ml
RT: 17.94 min Scan# 2696
Delta R.T. -0.02 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:252 Resp: 172221

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.2	28.2
125	13.6	11.8	21.8
0	0.0	0.0	0.0

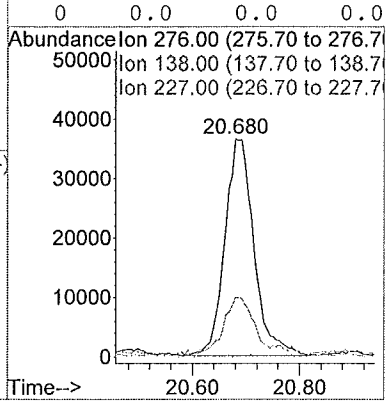


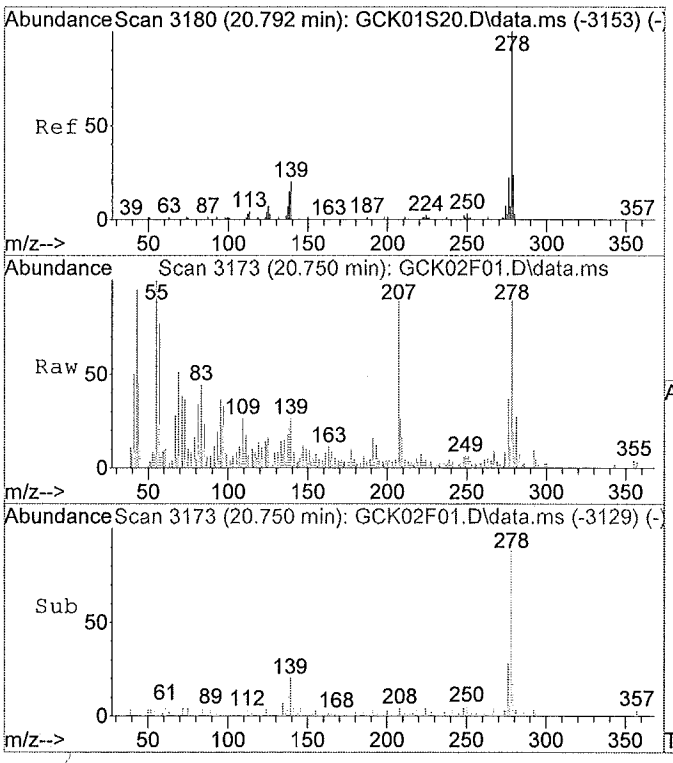


#87
Indeno(1,2,3-c,d)pyrene
Concen: 2.42 ug/ml
RT: 20.68 min Scan# 3161
Delta R.T. -0.04 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:276 Resp: 136380

Ion	Ratio	Lower	Upper
276	100		
138	25.7	22.3	41.5
227	0.2	0.1	0.1#
0	0.0	0.0	0.0

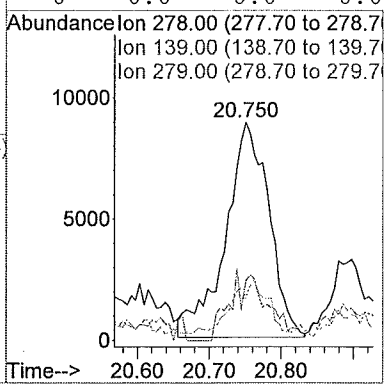


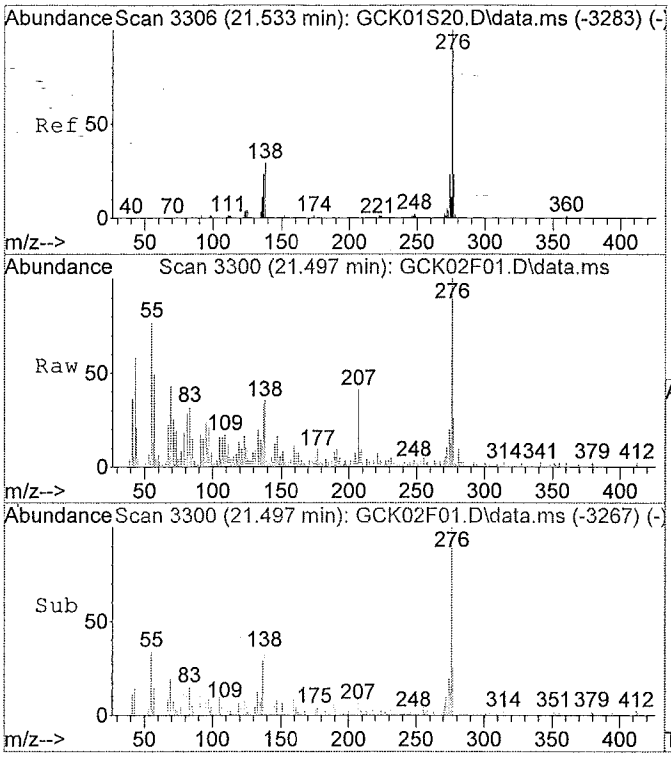


#88
Dibenzo(a,h)anthracene
Concen: 0.66 ug/ml m
RT: 20.75 min Scan# 3173
Delta R.T. -0.04 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:278 Resp: 37085

Ion	Ratio	Lower	Upper
278	100		
139	16.7	17.3	32.1#
279	17.8	16.3	30.3
0	0.0	0.0	0.0

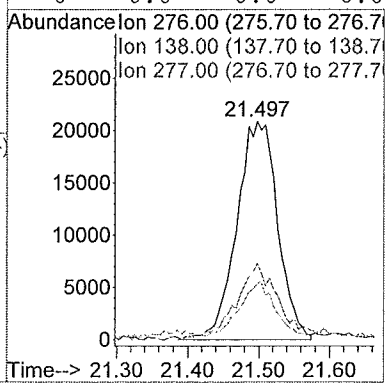




#89
Benzo(g,h,i)perylene
Concen: 1.50 ug/ml
RT: 21.50 min Scan# 3300
Delta R.T. -0.04 min
Lab File: GCK02F01.D
Acq: 07/02/2015 11:23

Tgt Ion:276 Resp: 83503

Ion	Ratio	Lower	Upper
276	100		
138	32.5	24.1	44.7
277	23.6	16.7	30.9
0	0.0	0.0	0.0



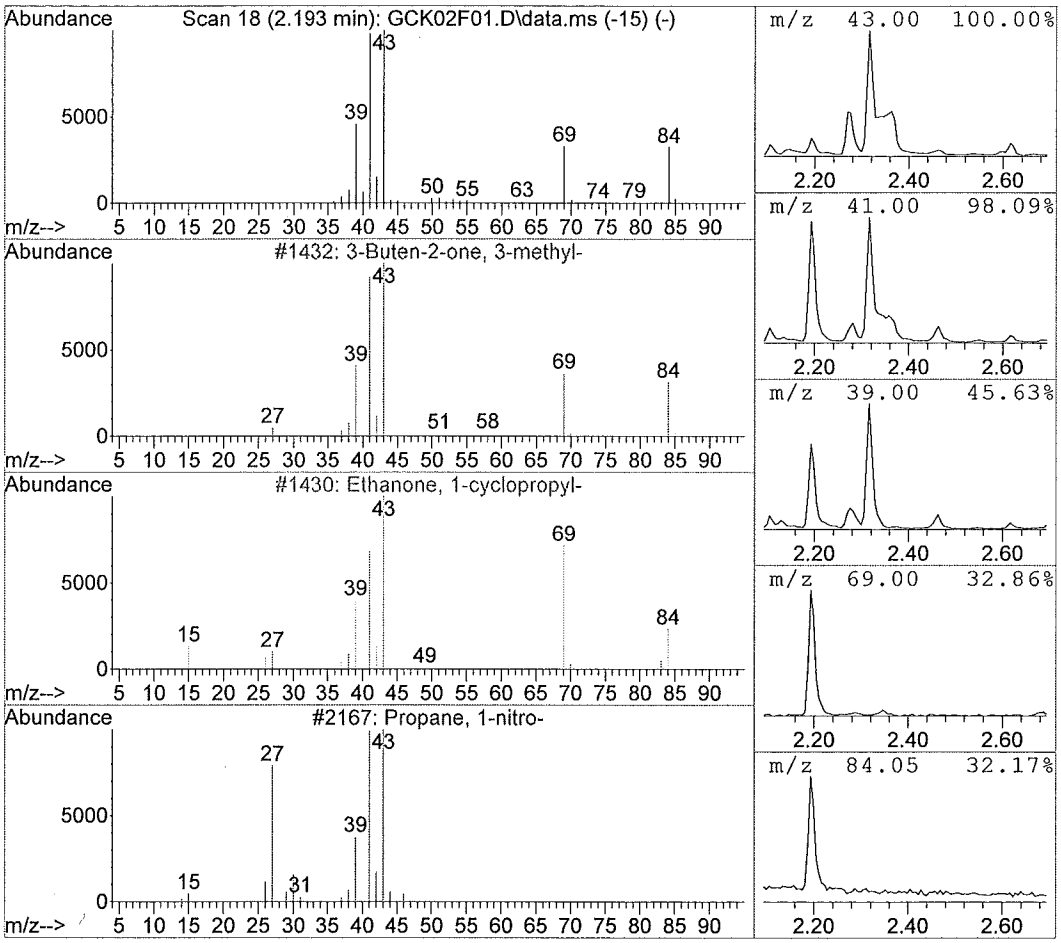
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.19	2.09 ug/ml	273632	1,4-Dichlorobenzene-d4	2620448

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	Propane, 1-nitro-	2167	000108-03-2	45.00
4	Dicyclopropyl carbinol	6505	014300-33-5	33.00
5	3-Penten-2-one	1397	000625-33-2	25.00



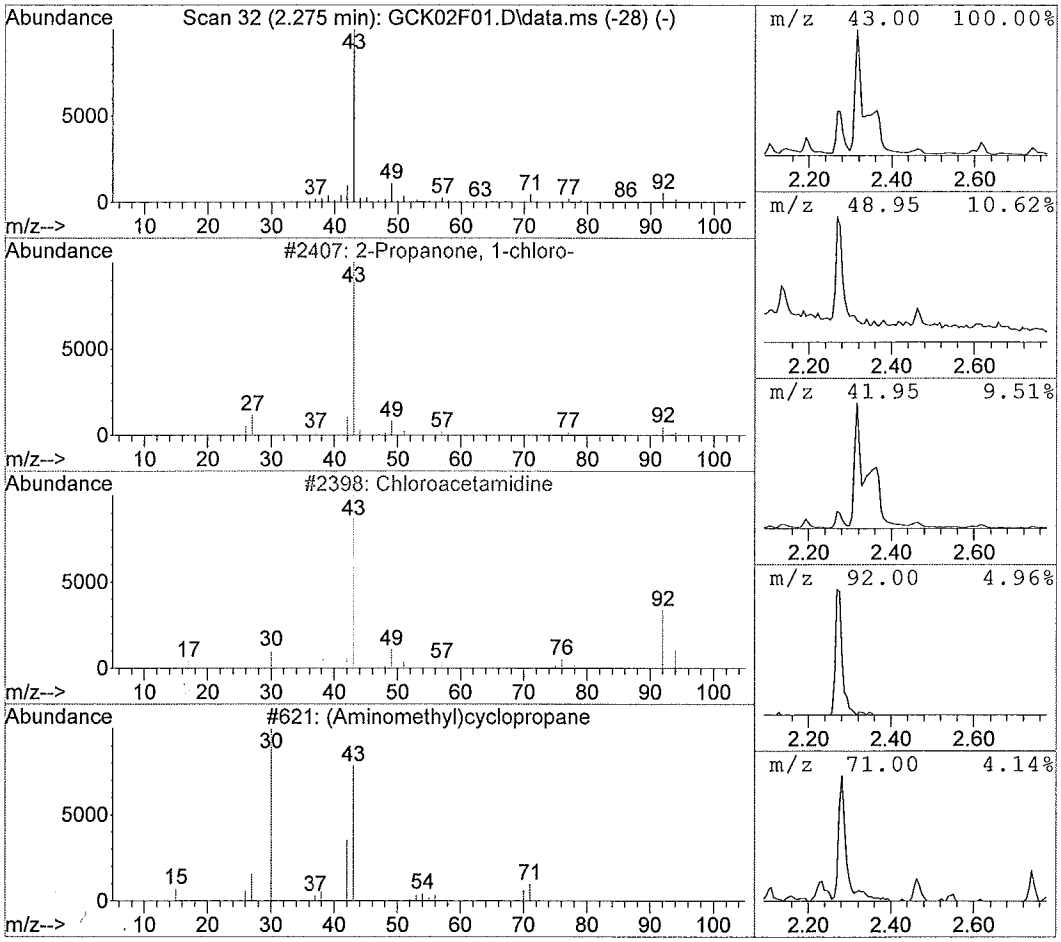
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.28	3.11 ug/ml	407508	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	87.00
2	Chloroacetamidine	2398	020846-52-0	43.00
3	(Aminomethyl)cyclopropane	621	002516-47-4	9.00
4	Acetyl chloride	990	000075-36-5	9.00
5	5-Methyloxazolidine	1878	058328-22-6	4.00



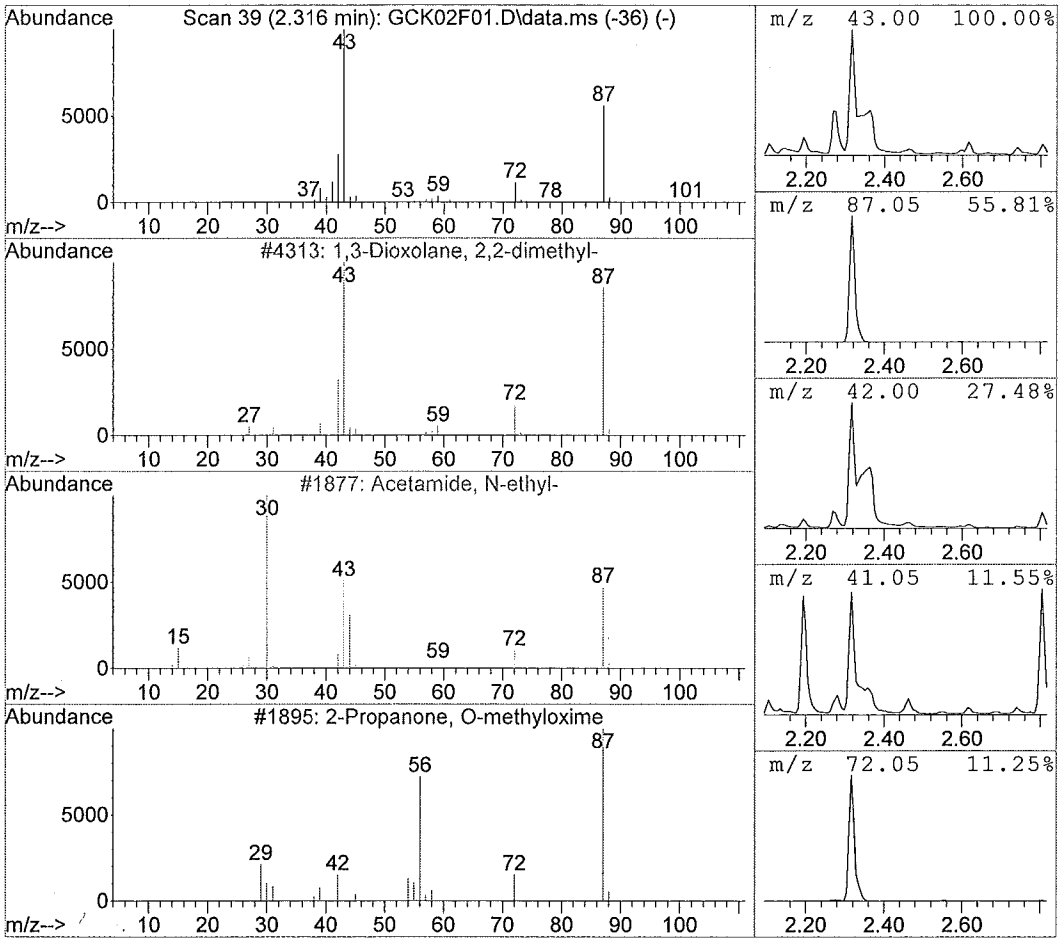
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	10.00 ug/ml	1310718	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	53.00
2	Acetamide, N-ethyl-	1877	000625-50-3	40.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	23.00
4	Isobutane	237	000075-28-5	12.00
5	Pentane	706	000109-66-0	9.00



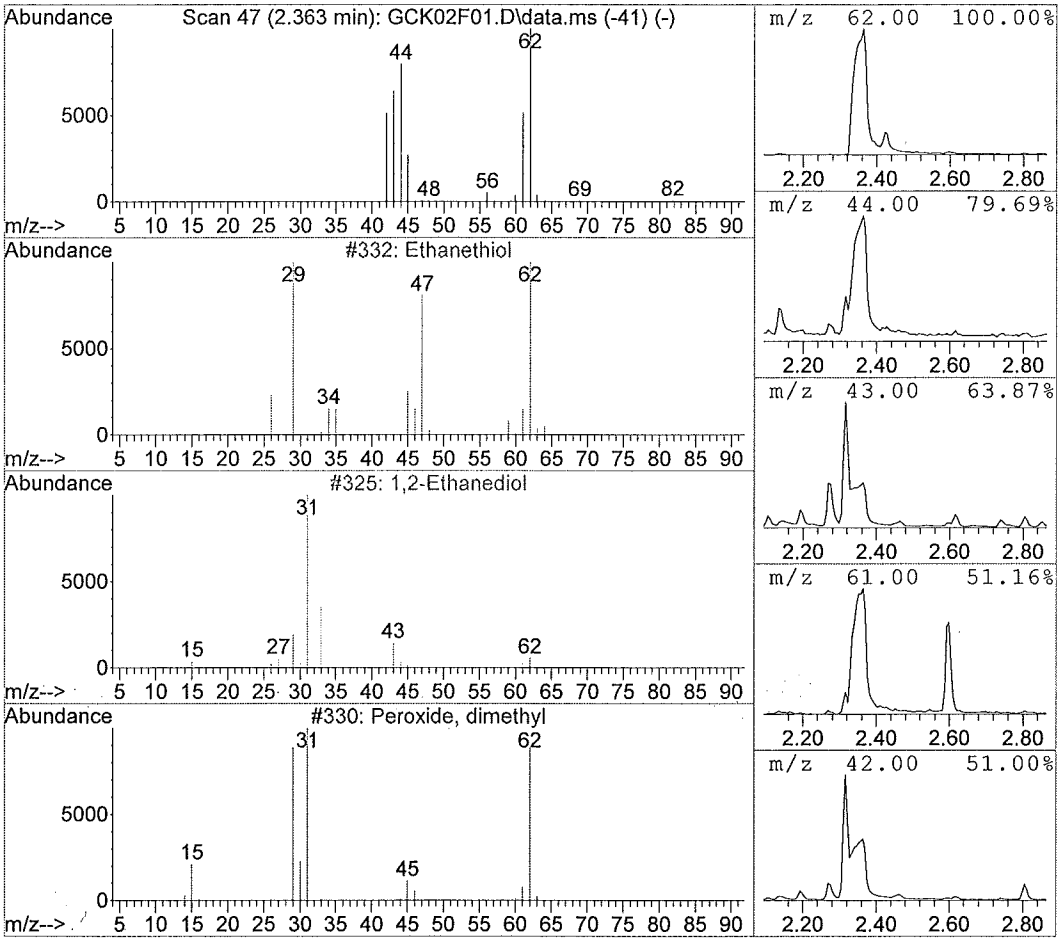
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.36	9.02 ug/ml	1181751	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanethiol	332	000075-08-1	9.00
2	1,2-Ethanediol	325	000107-21-1	7.00
3	Peroxide, dimethyl	330	000690-02-8	5.00
4	Phosphine, ethyl-	341	000593-68-0	5.00
5	Ethene, chloro-	323	000075-01-4	4.00



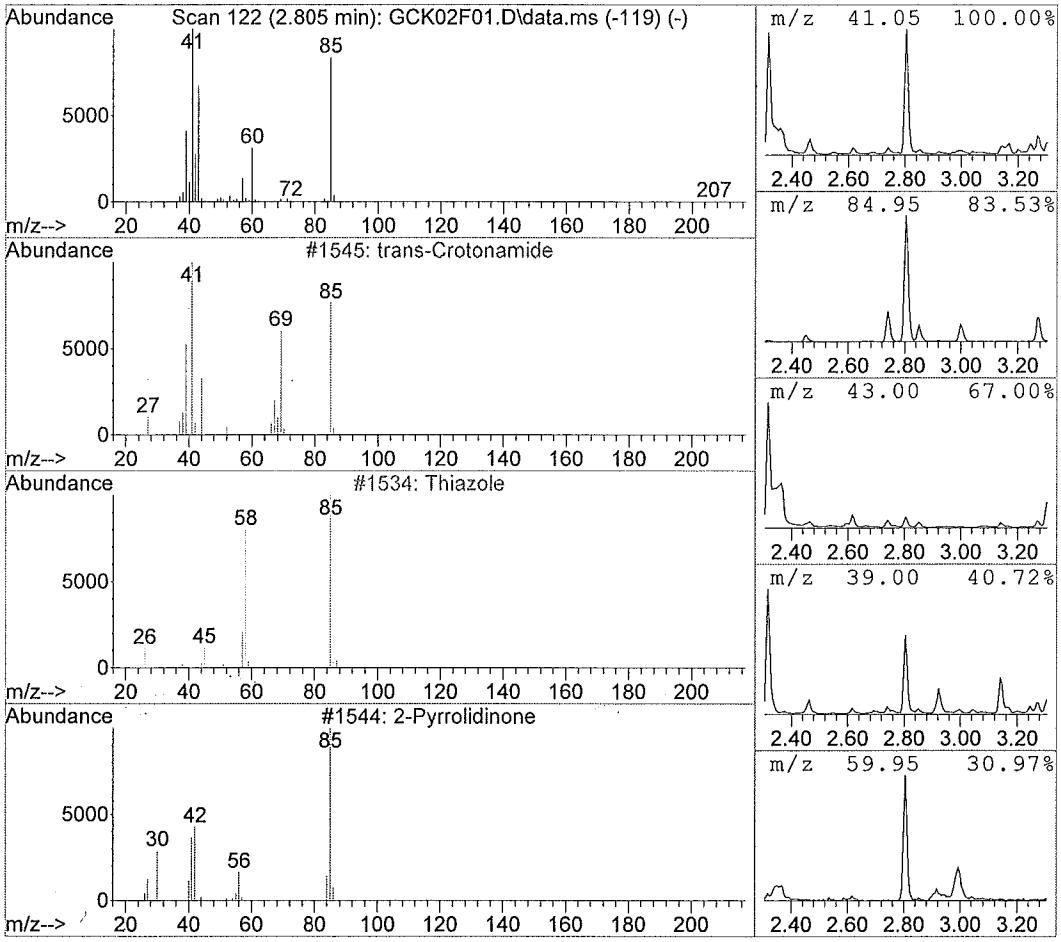
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	2.20 ug/ml	288167	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-Crotonamide	1545	000625-37-6	38.00
2	Thiazole	1534	000288-47-1	35.00
3	2-Pyrrolidinone	1544	000616-45-5	23.00
4	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	23.00
5	2,2'-Bi-2H-pyran, octahydro-	37957	016282-29-4	17.00



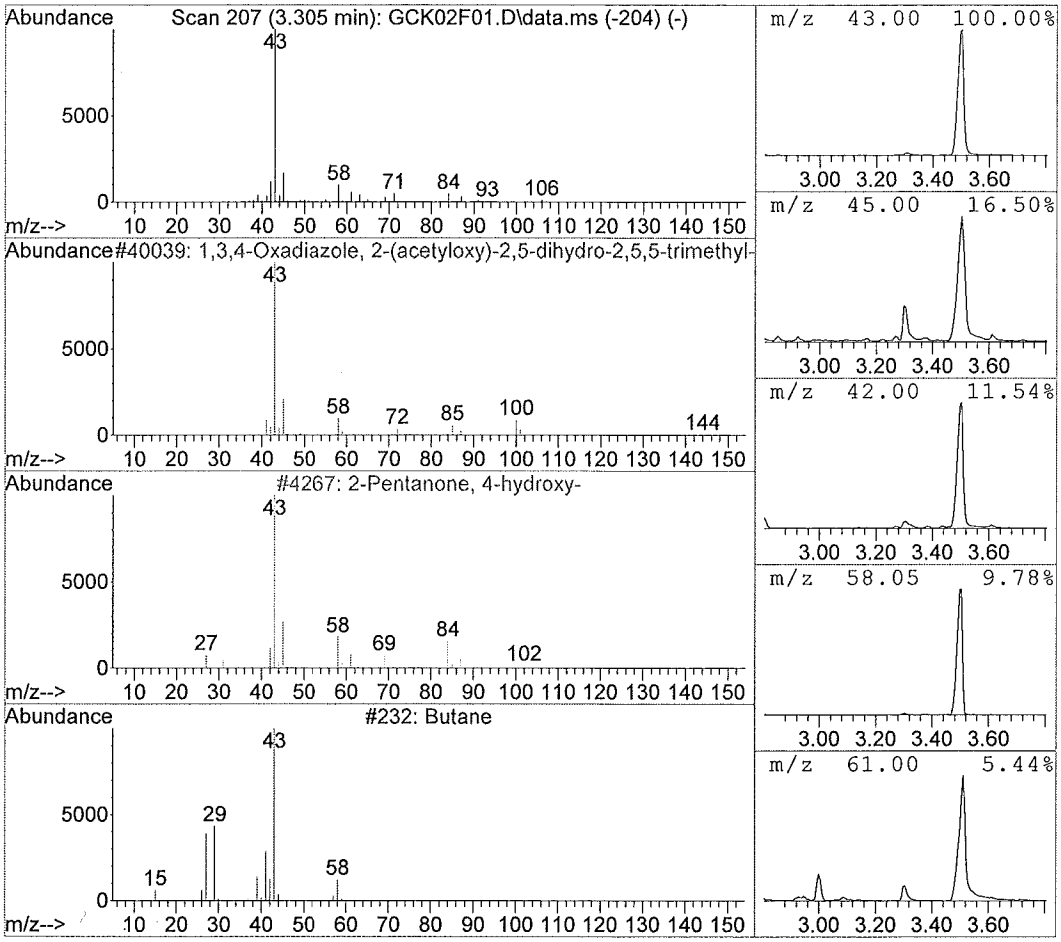
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.29 ug/ml	431667	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3,4-Oxadiazole, 2-(acetyloxy)-2,5	40039	066398-57-0	42.00
2	2-Pentanone, 4-hydroxy-	4267	004161-60-8	38.00
3	Butane	232	000106-97-8	32.00
4	Formic acid, chloro-, (3,4,4-trimet	56651	107323-92-2	28.00
5	Butanoyl chloride	5001	000141-75-3	9.00



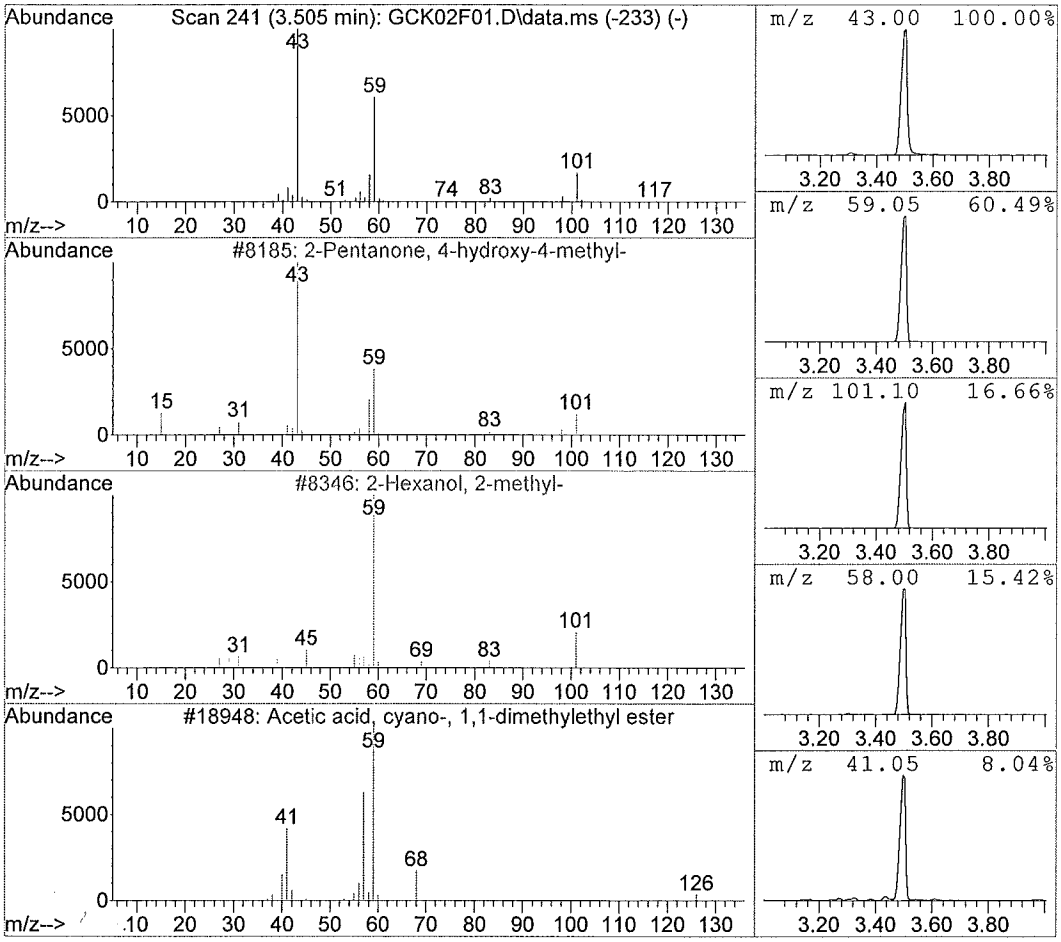
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	178.23 ug/ml	23352614	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
2	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
4	Guanidine	257	000113-00-8	9.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



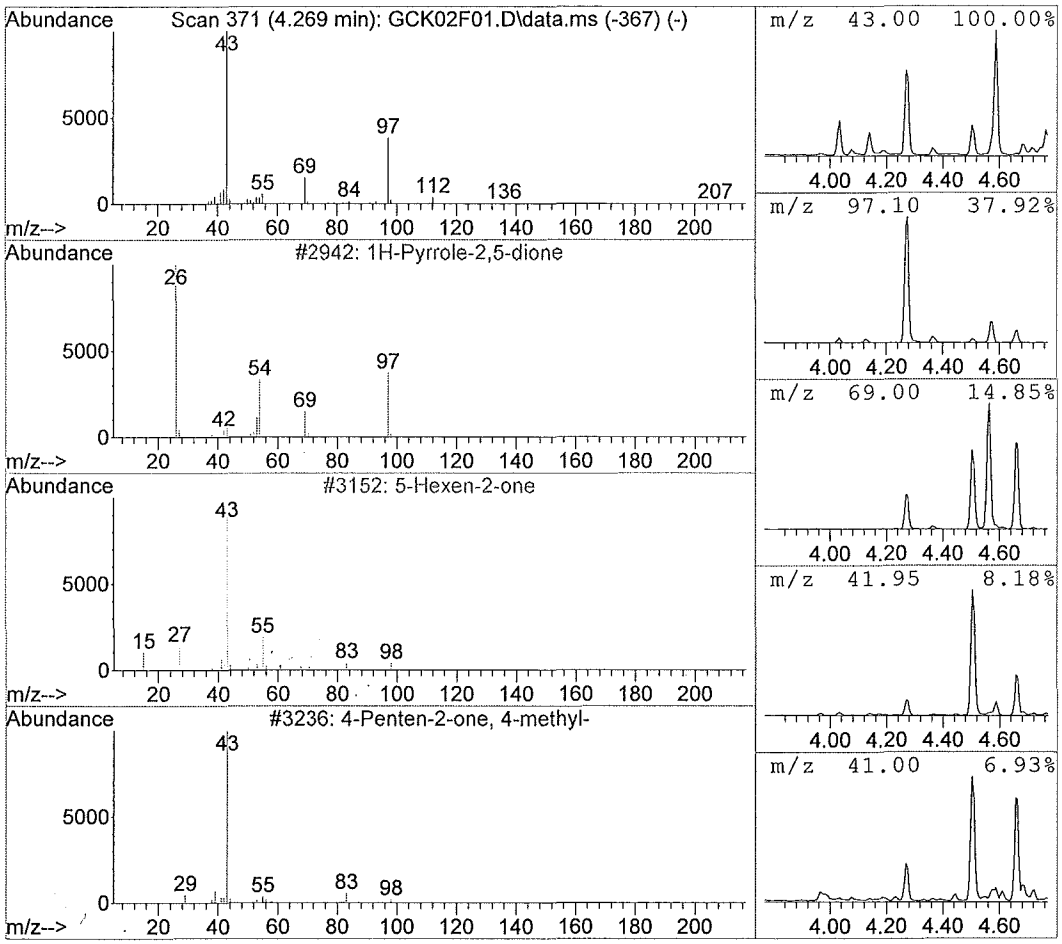
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	5.86 ug/ml	768182	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
2	5-Hexen-2-one	3152	000109-49-9	9.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	3-Hexene-2,5-dione	6367	004436-75-3	9.00



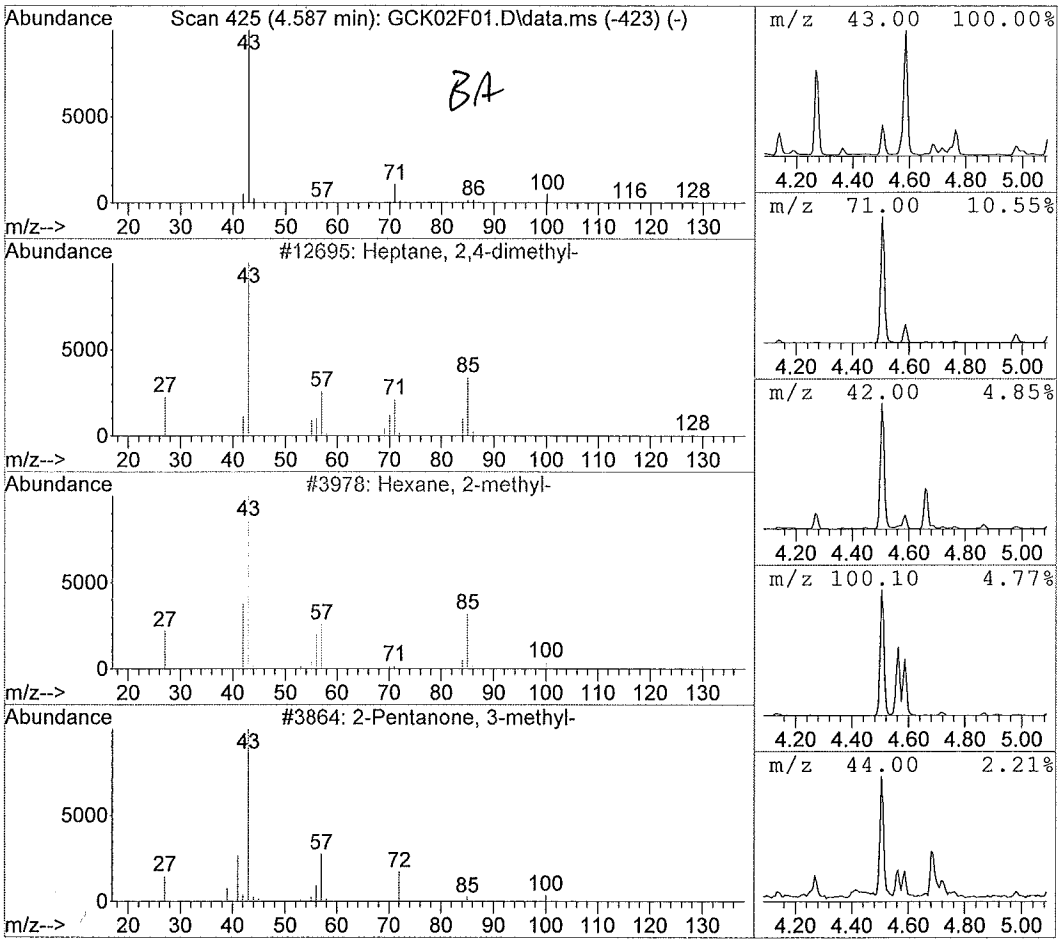
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.95 ug/ml	516933	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12695	002213-23-2	7.00
2	Hexane, 2-methyl-	3978	000591-76-4	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Octane, 4-methyl-	12674	002216-34-4	5.00
5	Heptane	3972	000142-82-5	5.00



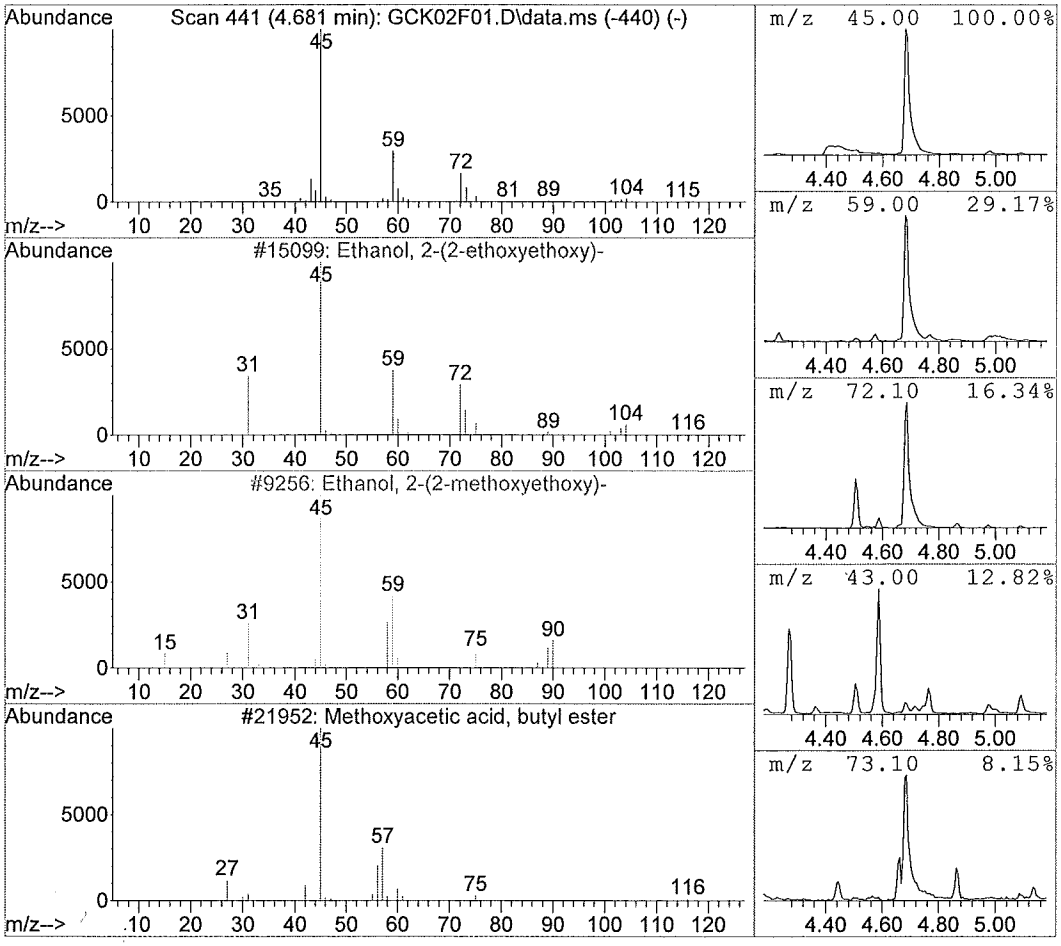
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.68	4.25 ug/ml	557128	1,4-Dichlorobenzene-d4	2620448

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15099	000111-90-0	74.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	Methoxyacetic acid, butyl ester	21952	017640-22-1	36.00
4	Ethanol, 2-[2-(2-propenyloxy)ethoxy	21970	015075-50-0	36.00
5	(S)-(+)-1,2-Propanediol	946	004254-15-3	33.00



Library Search Compound Report

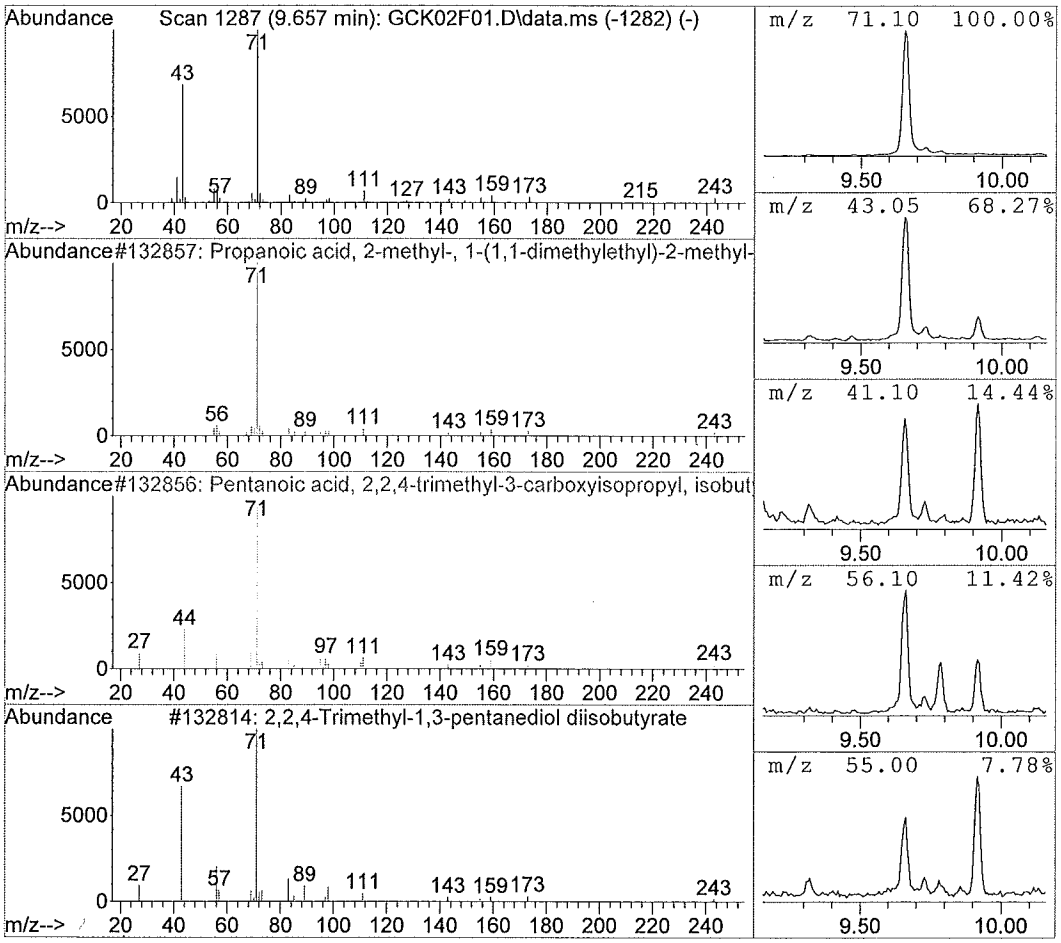
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.11 ug/ml	527955	Acenaphthene-d10	3399498

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	78.00
2	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
3	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	72.00
4	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	59.00
5	Butanoic acid, 2-propenyl ester	12266	002051-78-7	53.00



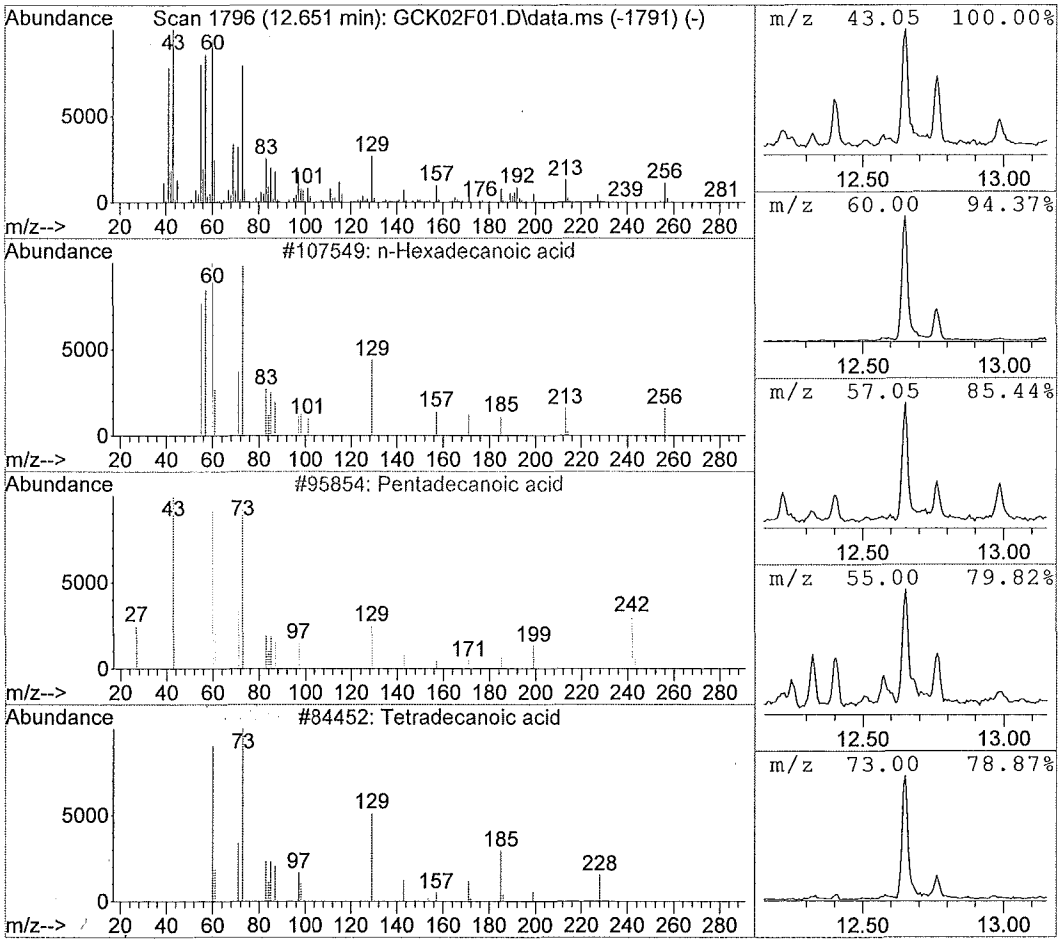
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.65	3.86 ug/ml	649682	Phenanthrene-d10	3367985

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	83.00
3	Tetradecanoic acid	84452	000544-63-8	80.00
4	Undecanoic acid	50053	000112-37-8	59.00
5	Dodecanoic acid	61117	000143-07-7	59.00



Library Search Compound Report

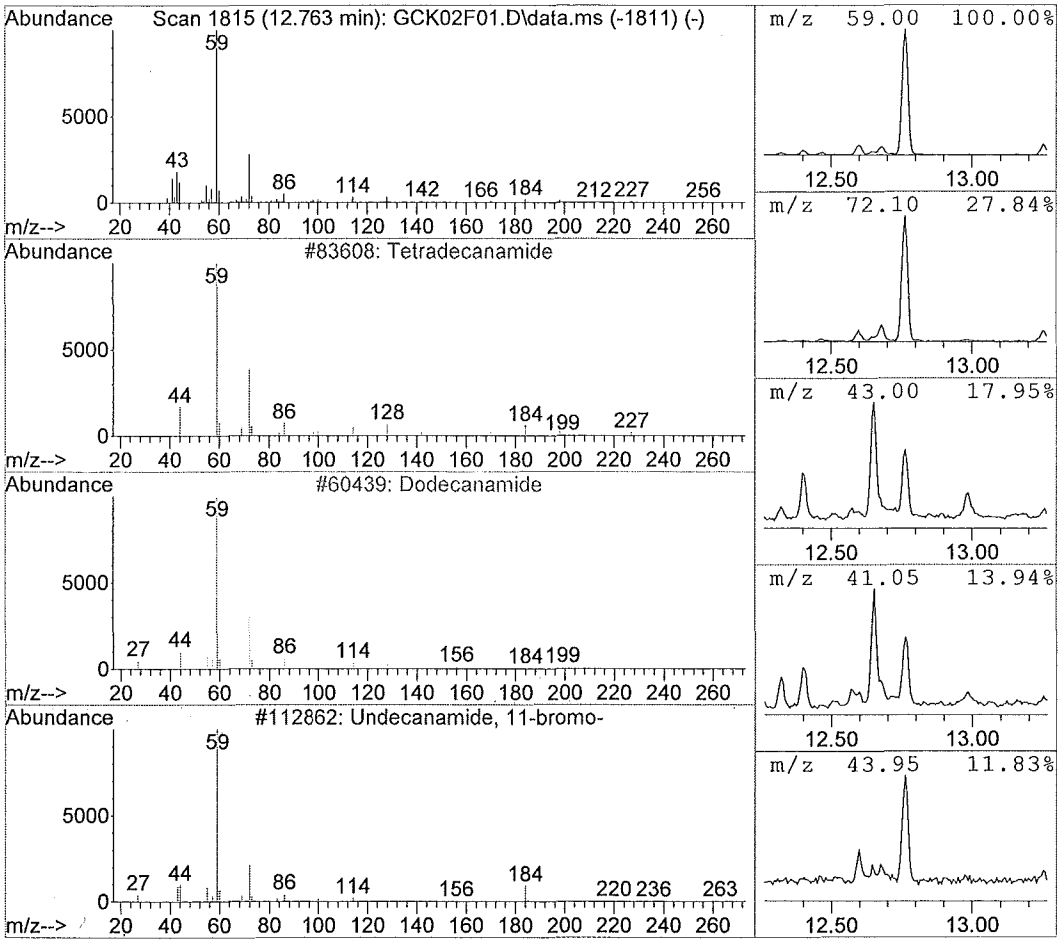
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.62 ug/ml	441989	Phenanthrene-d10	3367985

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	90.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	90.00
4	Nonanamide	29478	001120-07-6	90.00
5	Decanamide-	38977	002319-29-1	64.00



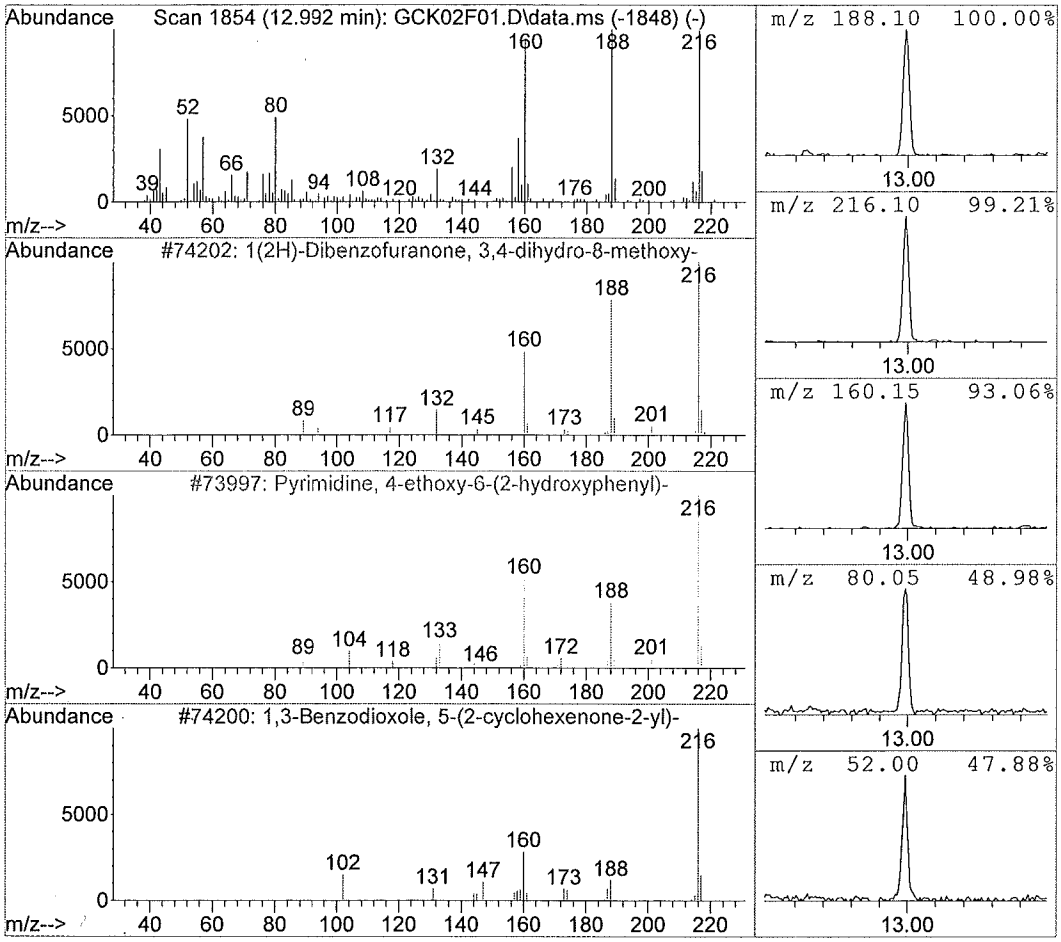
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.15 ug/ml	361262	Phenanthrene-d10	3367985

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	50.00
2	Pyrimidine, 4-ethoxy-6-(2-hydroxyph	73997	097630-78-9	27.00
3	1,3-Benzodioxole, 5-(2-cyclohexenon	74200	042866-84-2	16.00
4	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	16.00
5	Phenanthrene-D10	51753	001517-22-2	14.00



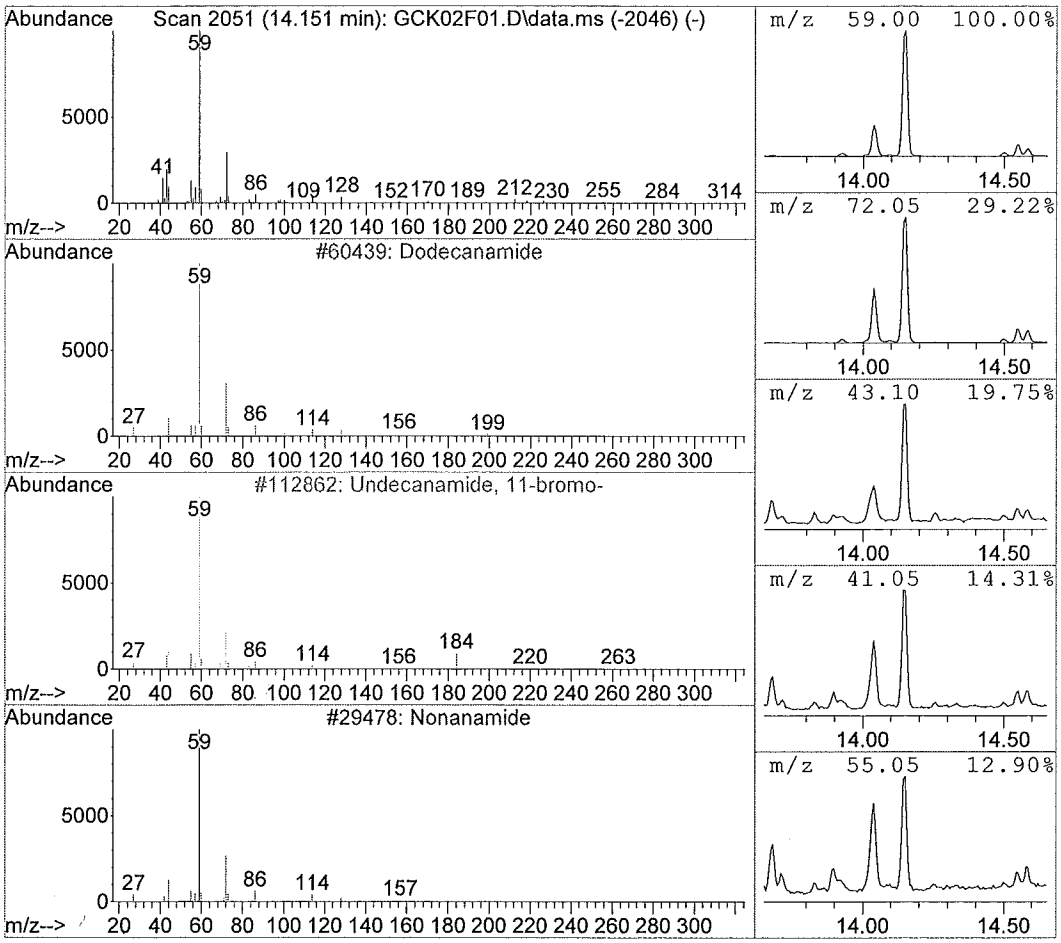
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.98 ug/ml	1589850	Chrysene-d12	4557993

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	Nonanamide	29478	001120-07-6	83.00
4	Tetradecanamide	83609	000638-58-4	74.00
5	Decanamide-	38977	002319-29-1	74.00



Library Search Compound Report

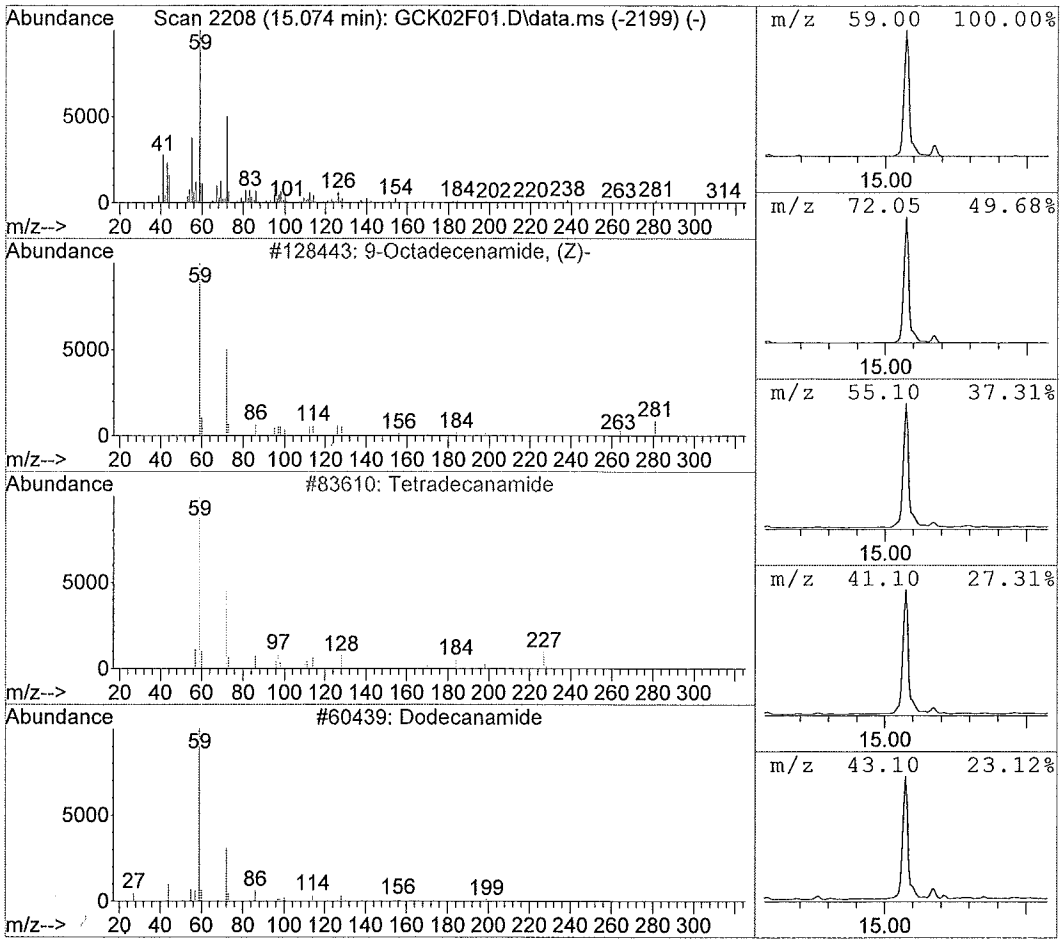
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	49.31 ug/ml	11237598	Chrysene-d12	4557993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Decanamide-	38977	002319-29-1	56.00



Library Search Compound Report

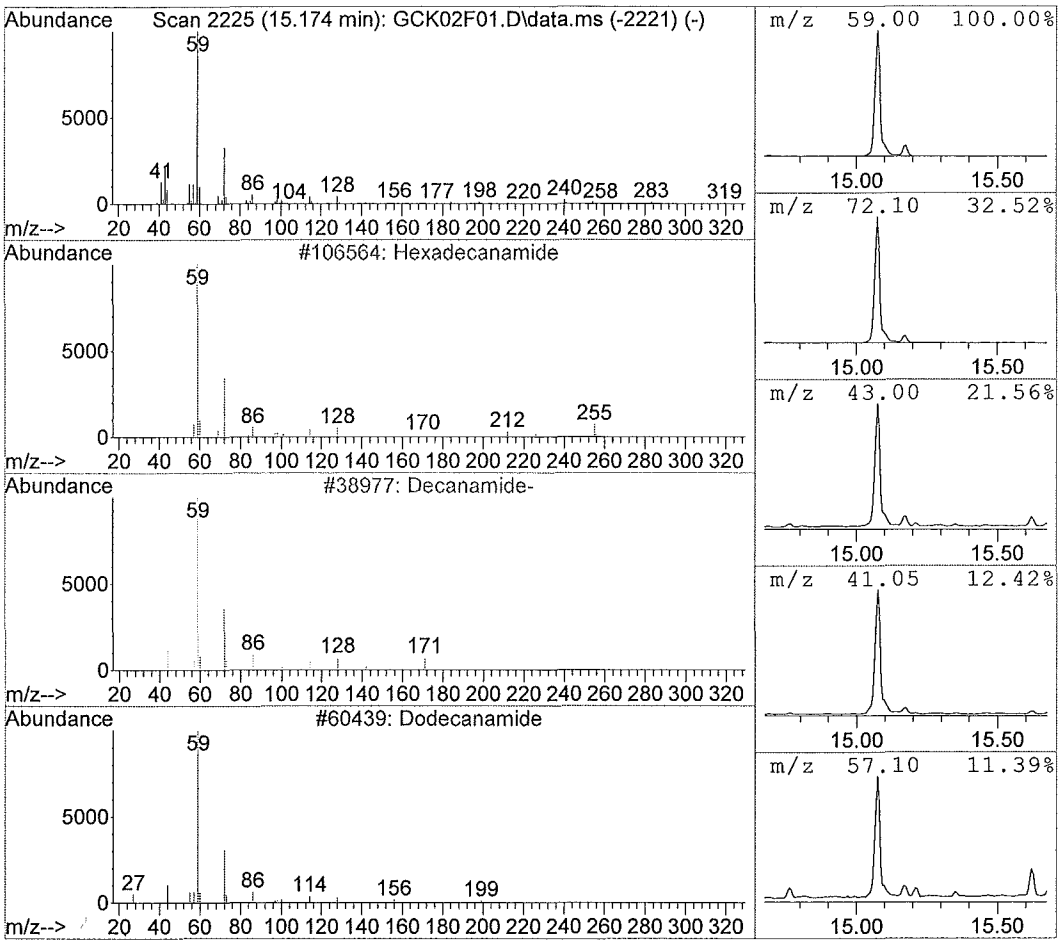
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.41 ug/ml	550013	Chrysene-d12	4557993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Octadecanamide	130204	000124-26-5	58.00
5	Nonadecanamide	142051	058185-32-3	56.00



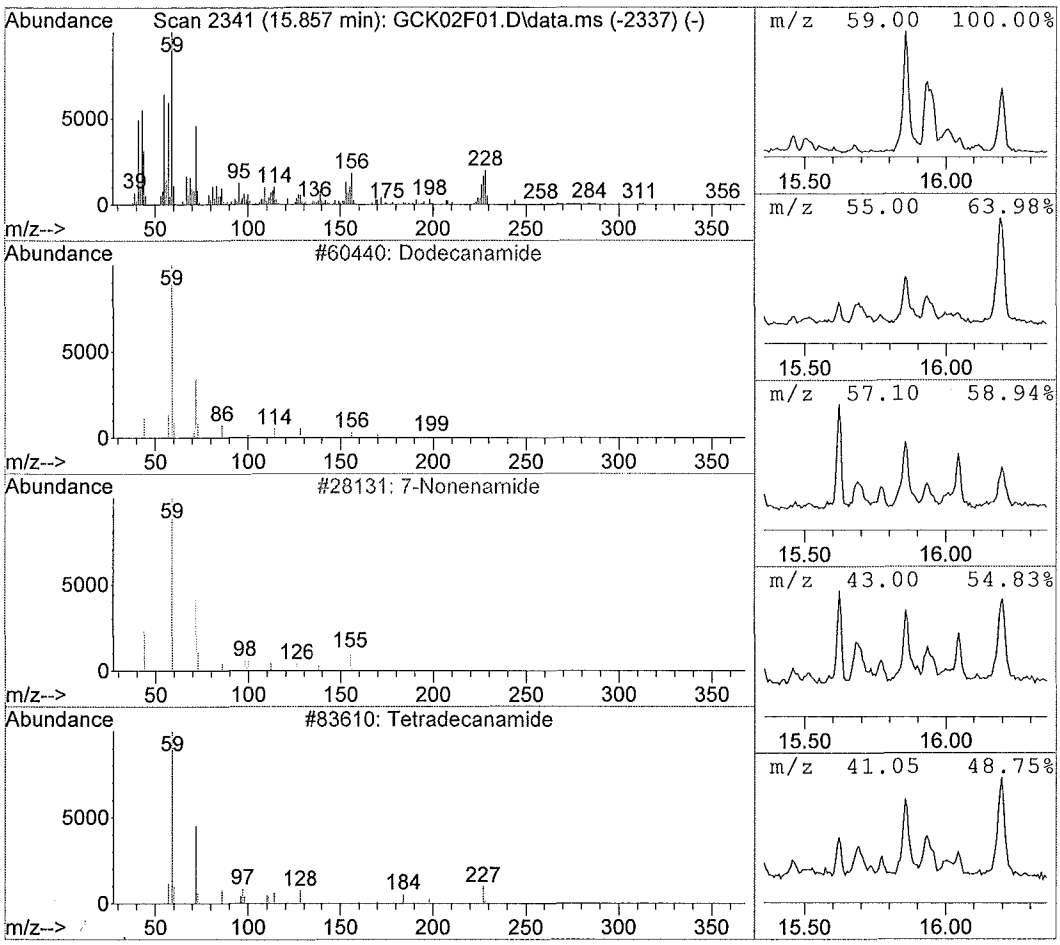
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.42 ug/ml	550501	Chrysene-d12	4557993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60440	001120-16-7	64.00
2	7-Nonenamide	28131	090949-53-4	58.00
3	Tetradecanamide	83610	000638-58-4	58.00
4	Hexadecanamide	106565	000629-54-9	47.00
5	Decanamide-	38977	002319-29-1	47.00



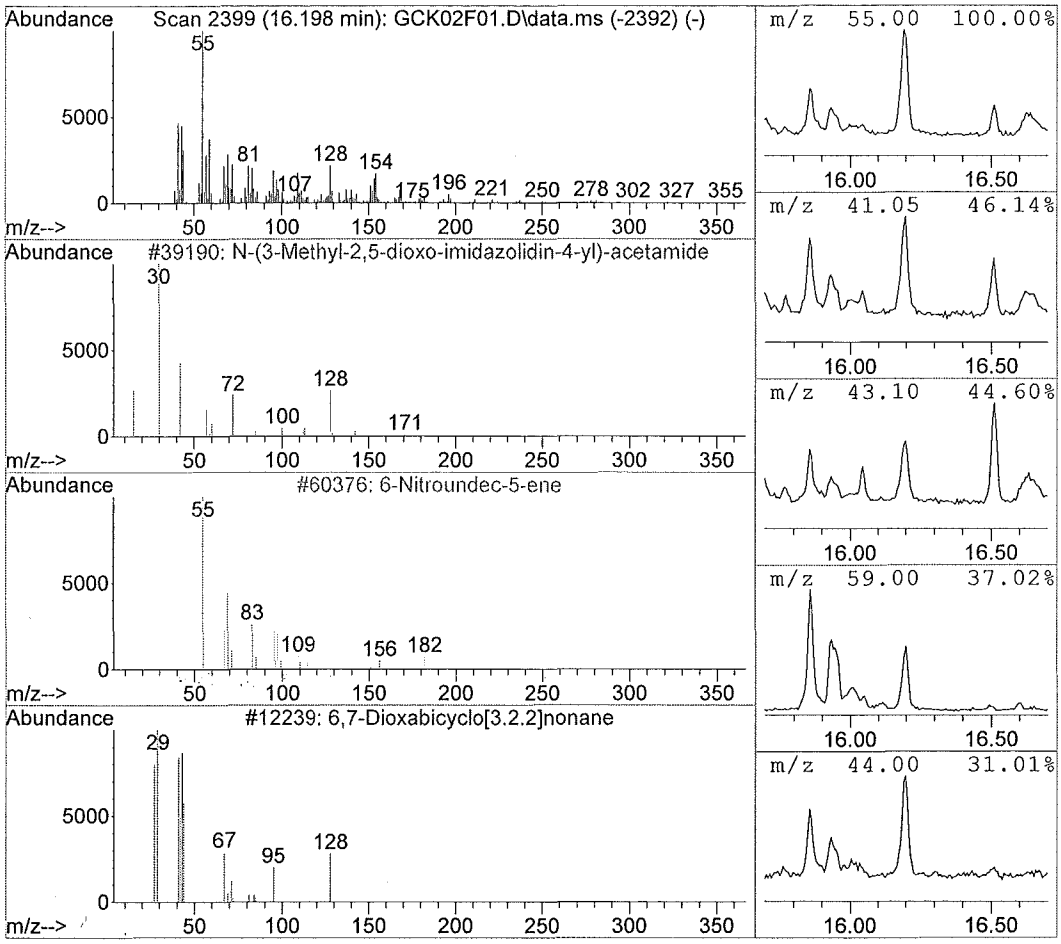
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.03 ug/ml	918555	Chrysene-d12	4557993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	14.00
2	6-Nitroundec-5-ene	60376	1000192-40-3	11.00
3	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	11.00
4	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	10.00
5	3-Pentenoic acid, methyl ester	7256	000818-58-6	10.00



Library Search Compound Report

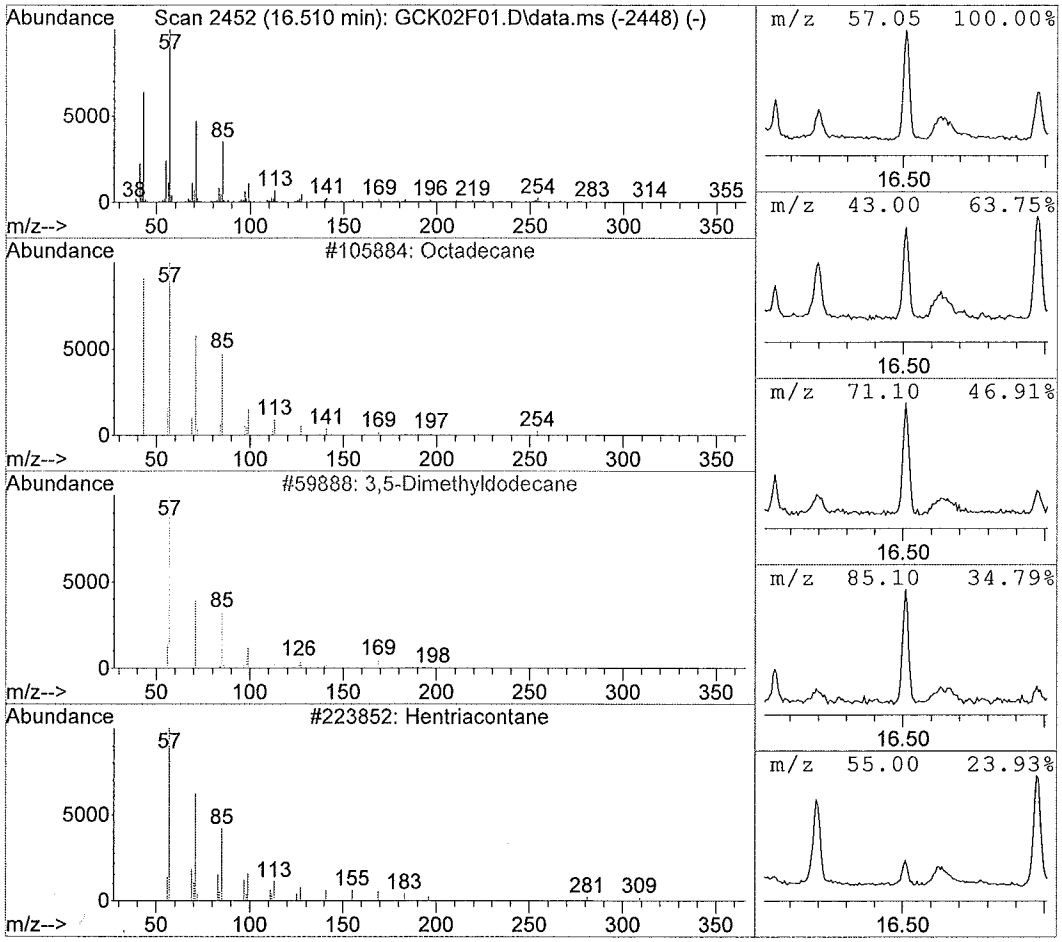
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.01 ug/ml	458273	Chrysene-d12	4557993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecane	105884	000593-45-3	94.00
2	3,5-Dimethyldodecane	59888	107770-99-0	90.00
3	Hentriacontane	223852	000630-04-6	90.00
4	Tridecane, 6-propyl-	83030	055045-10-8	87.00
5	Hexadecane	83025	000544-76-3	87.00

SCA



Library Search Compound Report

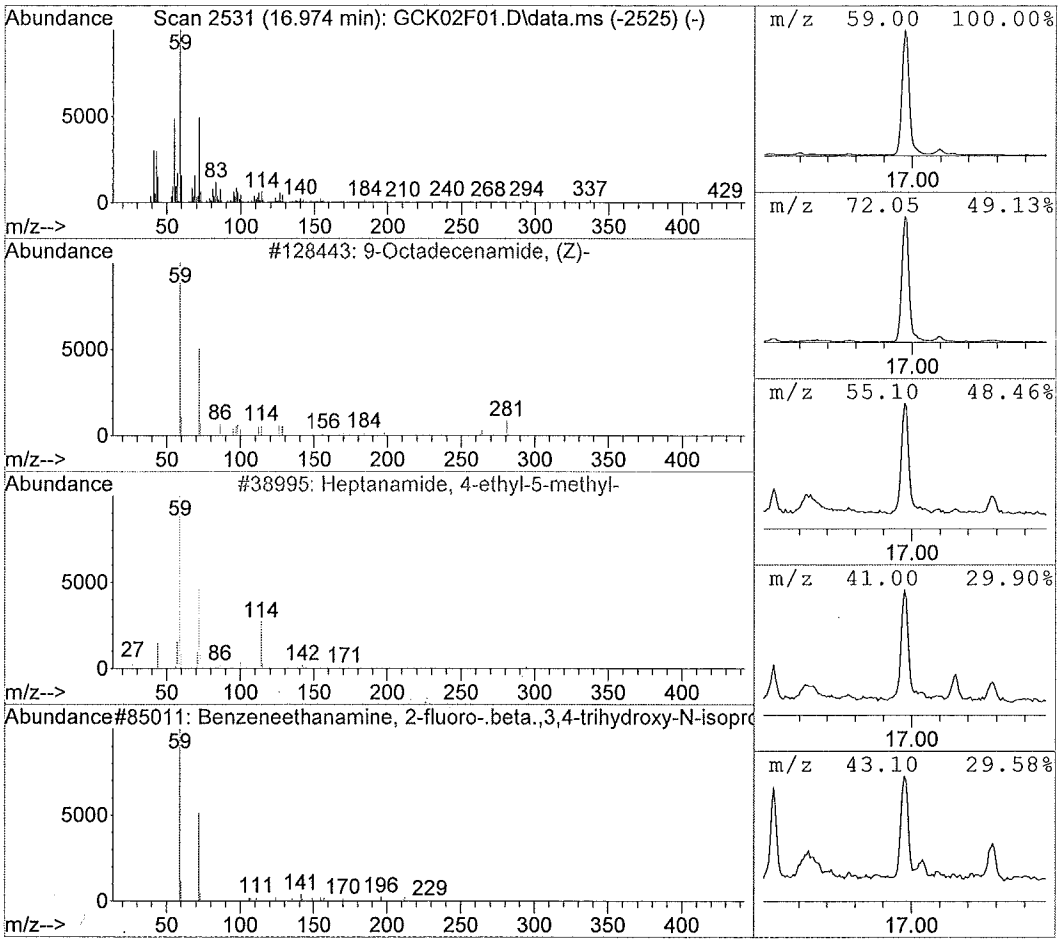
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	9.55 ug/ml	1600956	Perylene-d12	3351223

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	86.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Hexadecanamide	106565	000629-54-9	56.00



Library Search Compound Report

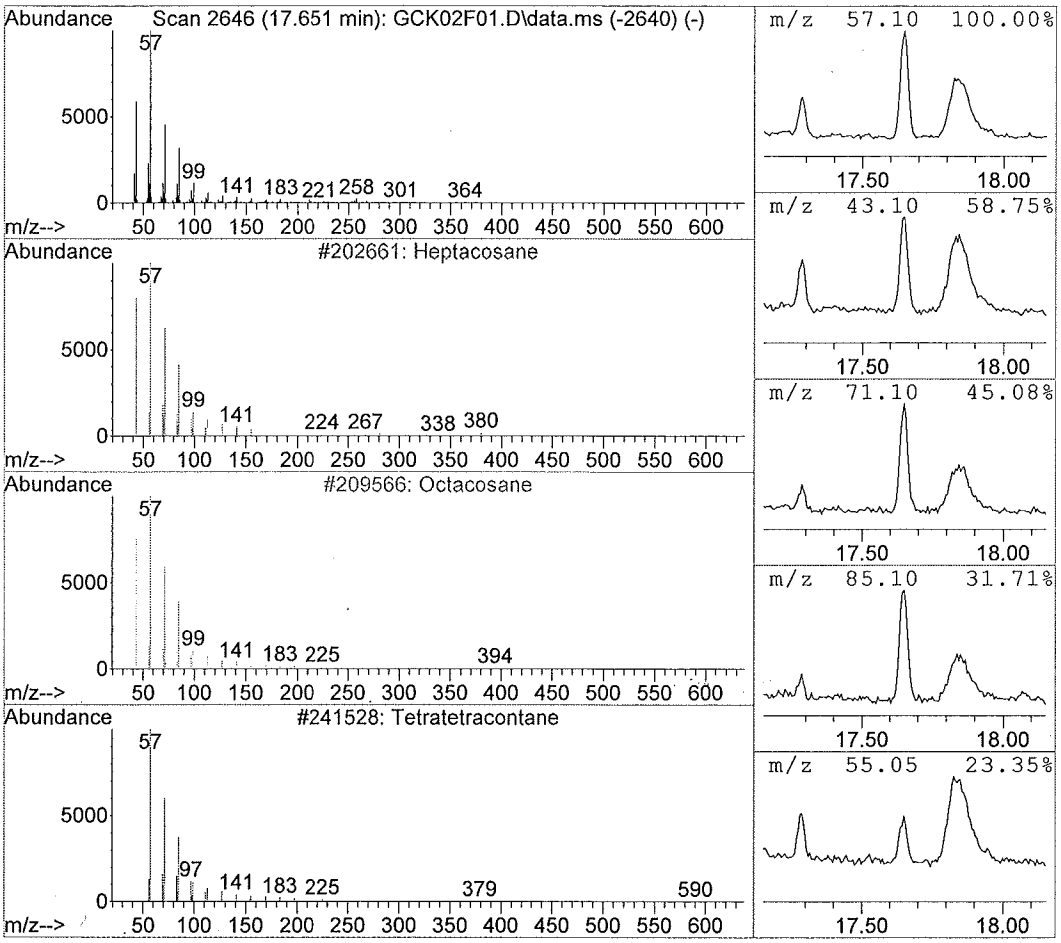
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	2.49 ug/ml	416650	Perylene-d12	3351223

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202661	000593-49-7	90.00
2	Octacosane	209566	000630-02-4	90.00
3	Tetratetracontane	241528	007098-22-8	90.00
4	Hentriacontane	223851	000630-04-6	87.00
5	2-methyloctacosane	215181	1000376-72-8	87.00

SCA



Library Search Compound Report

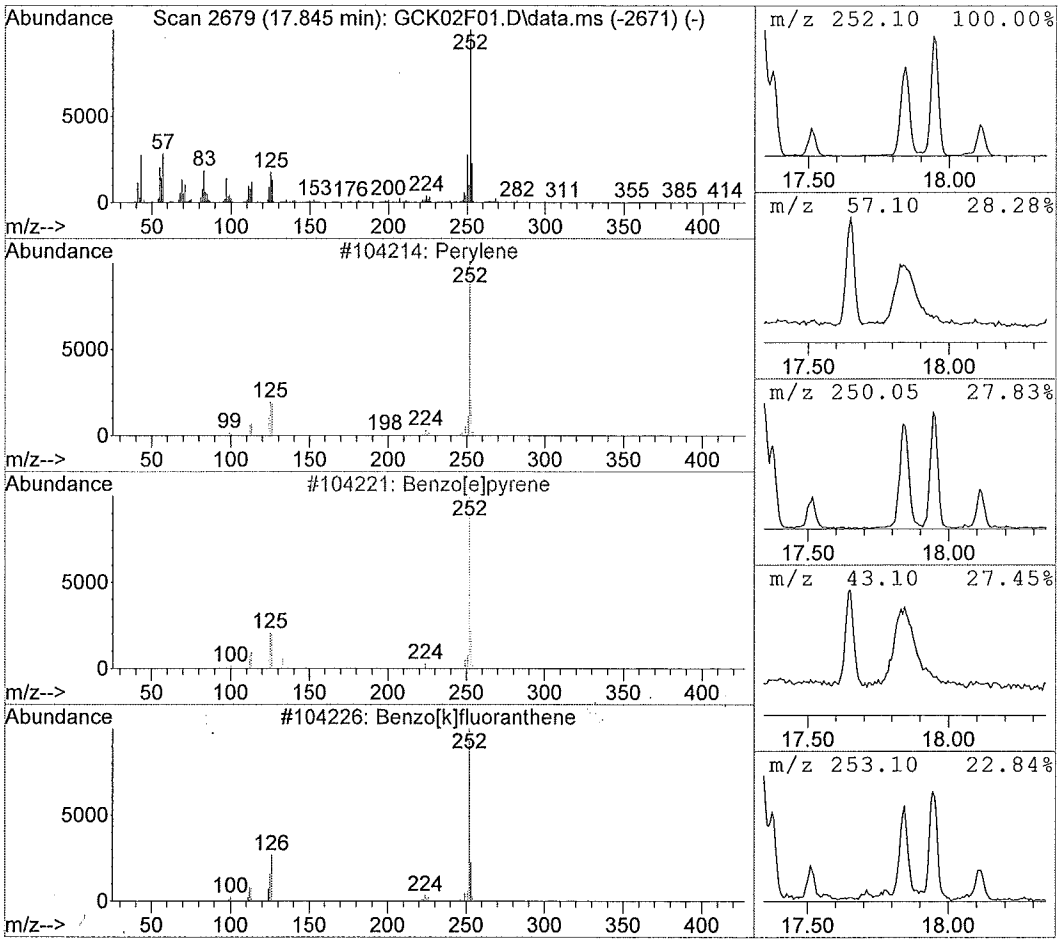
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D
Acq On : 07/02/2015 11:23
Sample : 1514052001 F9K71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.84	5.28 ug/ml	885283	Perylene-d12	3351223

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Perylene	104214	000198-55-0	93.00
2	Benzo[e]pyrene	104221	000192-97-2	93.00
3	Benzo[k]fluoranthene	104226	000207-08-9	93.00
4	Benz[e]acephenanthrylene	104227	000205-99-2	90.00
5	Benzo[a]pyrene	104218	000050-32-8	90.00



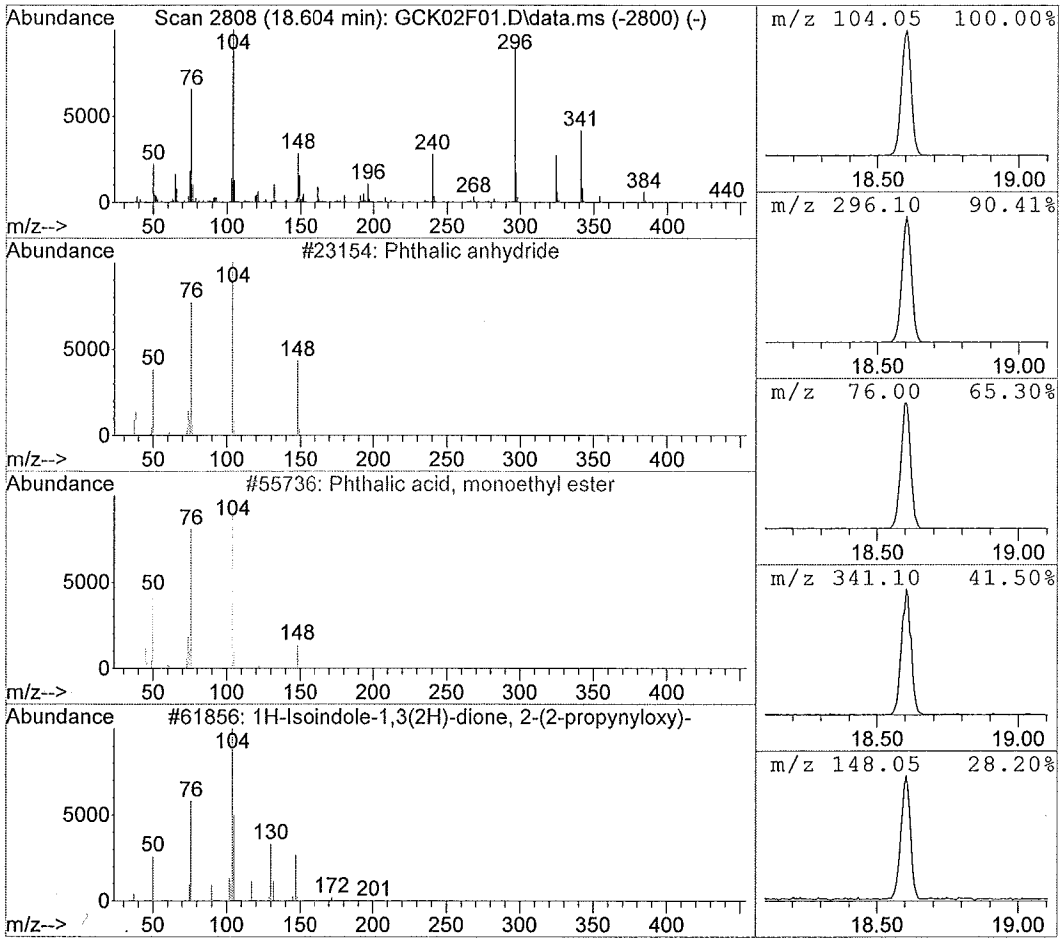
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	9.79 ug/ml	1639755	Perylene-d12	3351223

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
3	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	22.00
4	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
5	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	14.00



Library Search Compound Report

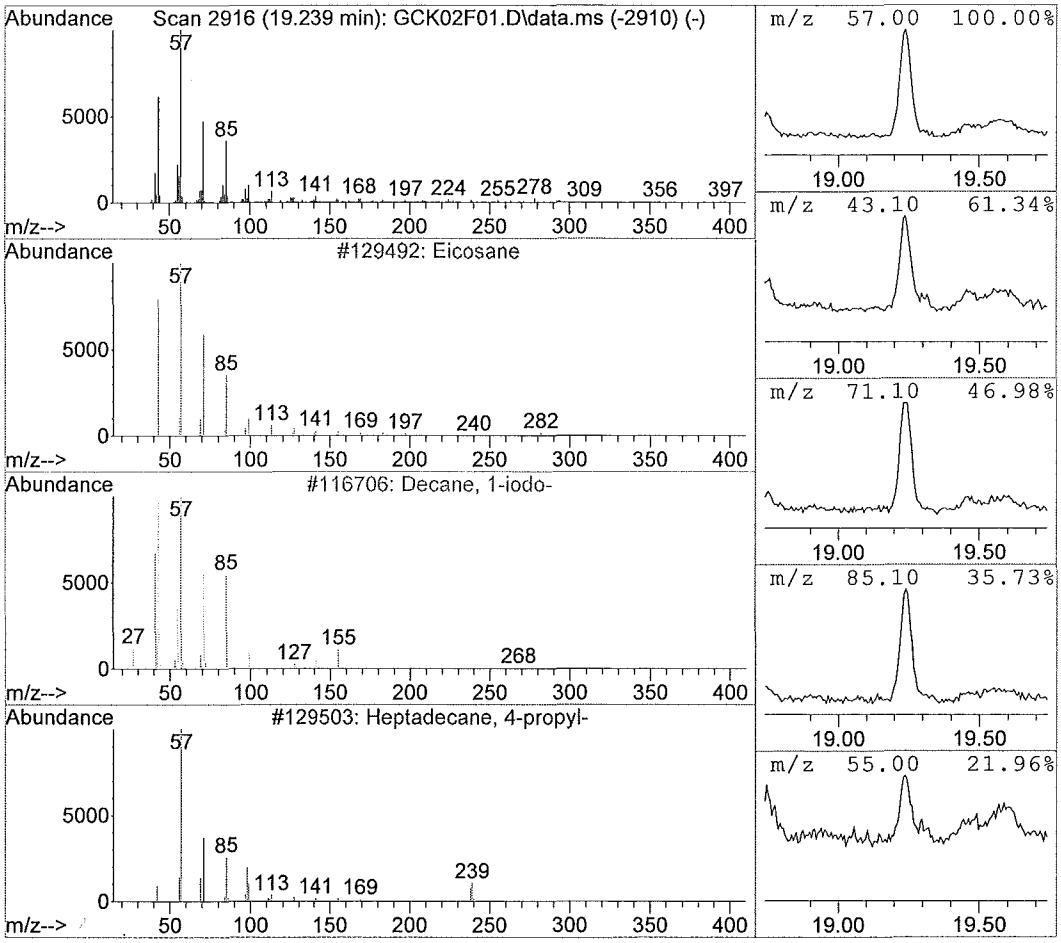
Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.23 ug/ml	374434	Perylene-d12	3351223

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129492	000112-95-8	83.00
2	Decane, 1-iodo-	116706	002050-77-3	81.00
3	Heptadecane, 4-propyl-	129503	055044-10-5	80.00
4	Pentadecane	71394	000629-62-9	80.00
5	Sulfurous acid, butyl tetradecyl es	172308	1000309-18-1	80.00

SCA



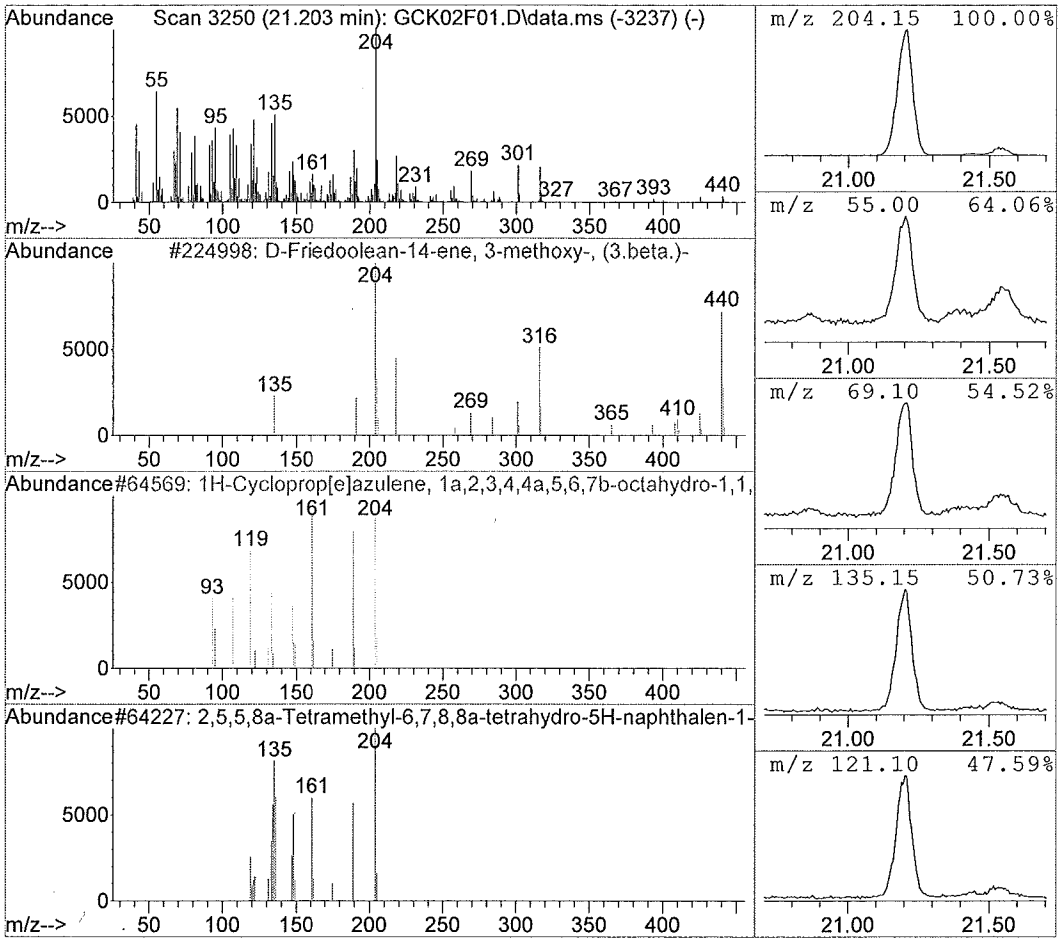
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK02F01.D Vial: 2
Acq On : 07/02/2015 11:23 Operator: DJC
Sample : 1514052001 F9K71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.20	30.07 ug/ml	5039378	Perylene-d12	3351223

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	74.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	53.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	50.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	49.00
5	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	49.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL11F02

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL11F02

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL11F02

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Acetamide, N-ethyl-	2.52	180	J
02		Unknown Furan, 2,5-dimethyl-	2.63	120	JB
03		Unknown 4-Chloro-2-butanone	3.53	87.	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4300	JB
05		Unknown 1H-Pyrrole-2,5-dione	4.49	120	J
06	629-54-9	Hexadecanamide	13.10	89.	JN
07		Unknown 9-Octadecenamide, (Z)-	14.32	120	JB
08	629-54-9	Hexadecanamide	14.42	240	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.32	2000	JNB
10	629-54-9	Hexadecanamide	15.41	94.	JN
11	1740-19-8	Dehydroabietic acid	15.77	360	JN
12	301-02-0	9-Octadecenamide, (Z)-	16.13	85.	JNB
13		Unknown 3-Pentenoic acid, methyl ester	16.50	160	J
14	112-84-5	13-Docosenamide, (Z)-	17.34	570	JN
15		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.18	94.	J
16		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	580	J
17		Unknown .delta.-Selinene	22.46	80.	J
18		Unknown 2,6-Bis(4-nitro-phenylthio)pyridine	24.39	110	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

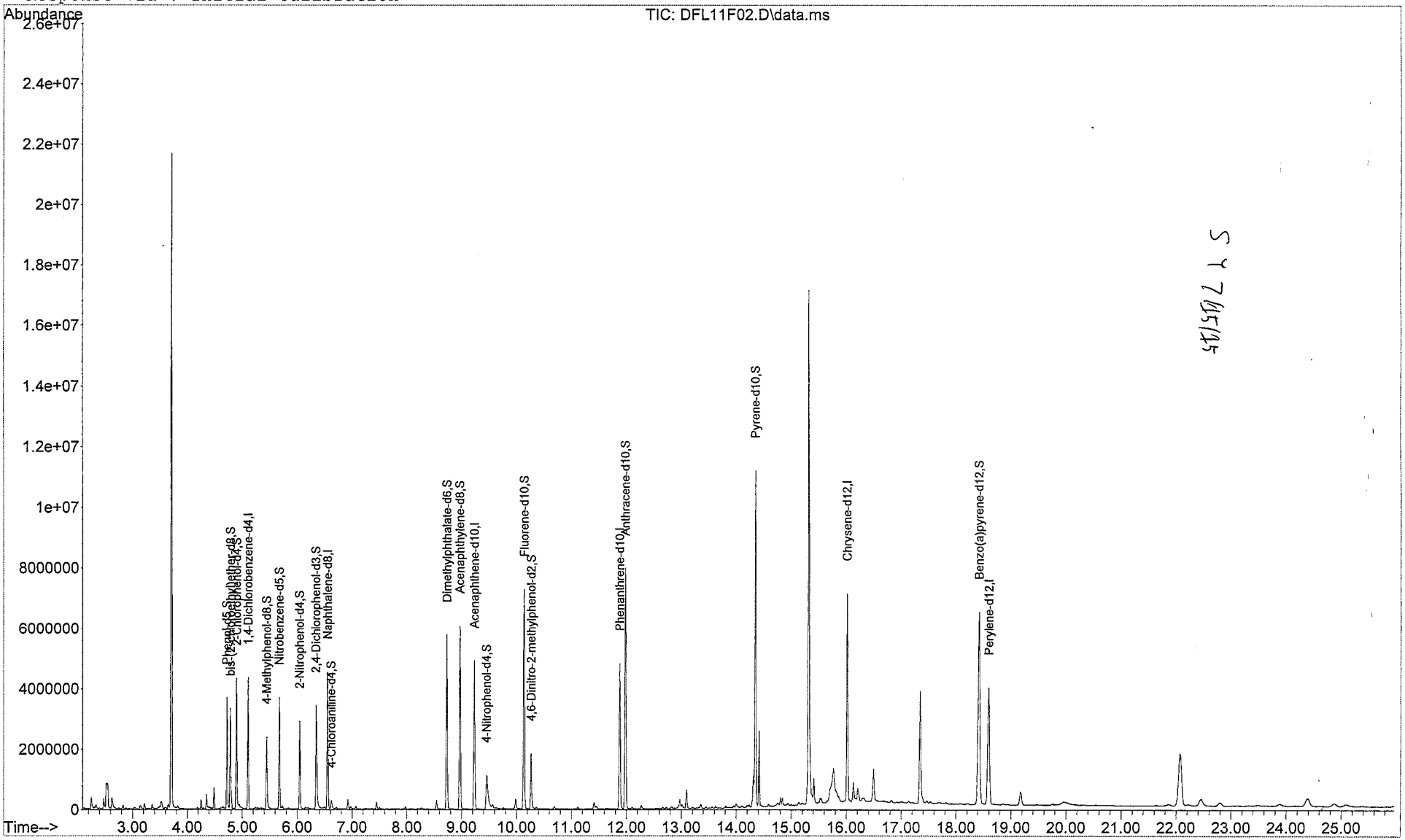
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:15:43 2015 Results File: DSOM01D5.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 4/5/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:43 2015 Results File: DSOM01D5.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	5.11	152	778678	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2622480	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1656021	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2937902	20.00 ug/ml
73) Chrysene-d12	16.02	240	3568810	20.00 ug/ml
81) Perylene-d12	18.60	264	3443995	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1380026	28.476ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	835635	23.565ug/mL
7) 2-Chlorophenol-d4	4.90	132	1277030	26.436ug/ml
13) 4-Methylphenol-d8	5.45	113	628244	17.294ug/mL
17) Nitrobenzene-d5	5.67	128	583931	27.186ug/ml
21) 2-Nitrophenol-d4	6.05	143	709548	27.856ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1142077	27.746ug/mL
28) 4-Chloroaniline-d4	6.62	131	137552	4.448ug/mL
42) Dimethylphthalate-d6	8.73	166	3637954	35.630ug/mL
45) Acenaphthylene-d8	8.97	160	4115333	30.611ug/mL
50) 4-Nitrophenol-d4	9.46	143	574145	33.857ug/mL
57) Fluorene-d10	10.14	176	3018062	33.452ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	497397	26.809ug/mL
69) Anthracene-d10	11.98	188	5257118	34.928ug/mL
75) Pyrene-d10	14.35	212	5499315	36.591ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5719793	36.291ug/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)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:43 2015 Results File: DSOM01D5.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)

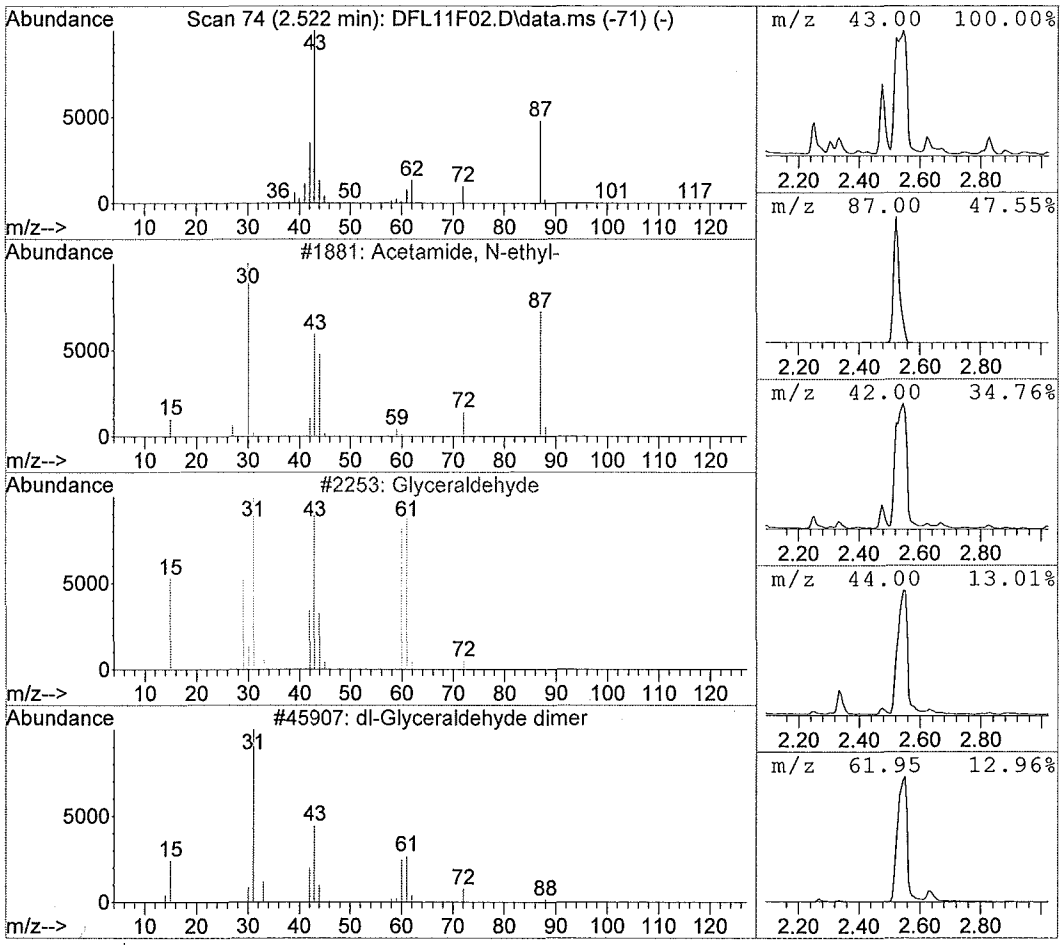
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.52	4.70 ug/ml	1077072	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetamide, N-ethyl-	1881	000625-50-3	9.00
2	Glyceraldehyde	2253	000056-82-6	9.00
3	dl-Glyceraldehyde dimer	45907	026793-98-6	9.00
4	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	9.00
5	Methyl glyoxal	628	000078-98-8	7.00



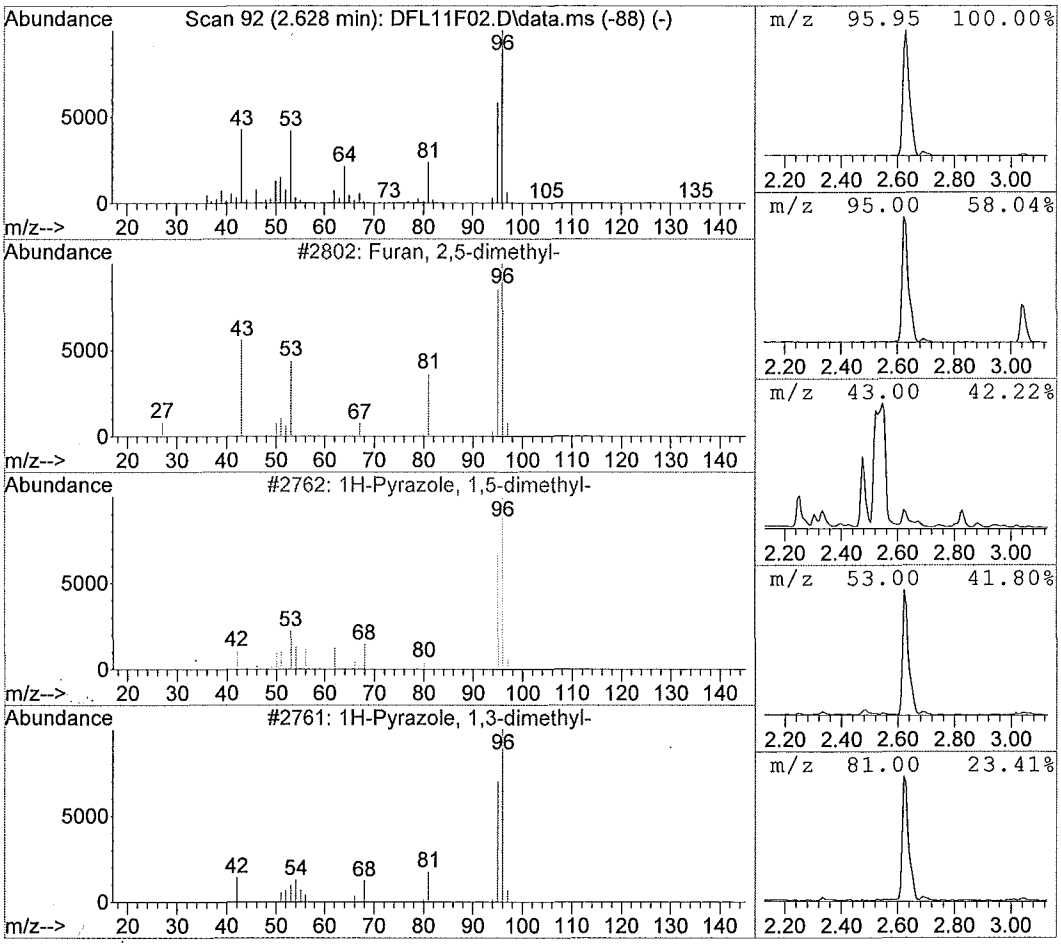
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.63	3.07 ug/ml	702826	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	59.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	35.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	27.00
4	3,5-Dimethylpyrazole	2747	000067-51-6	22.00
5	Benzene, fluoro-	2786	000462-06-6	18.00



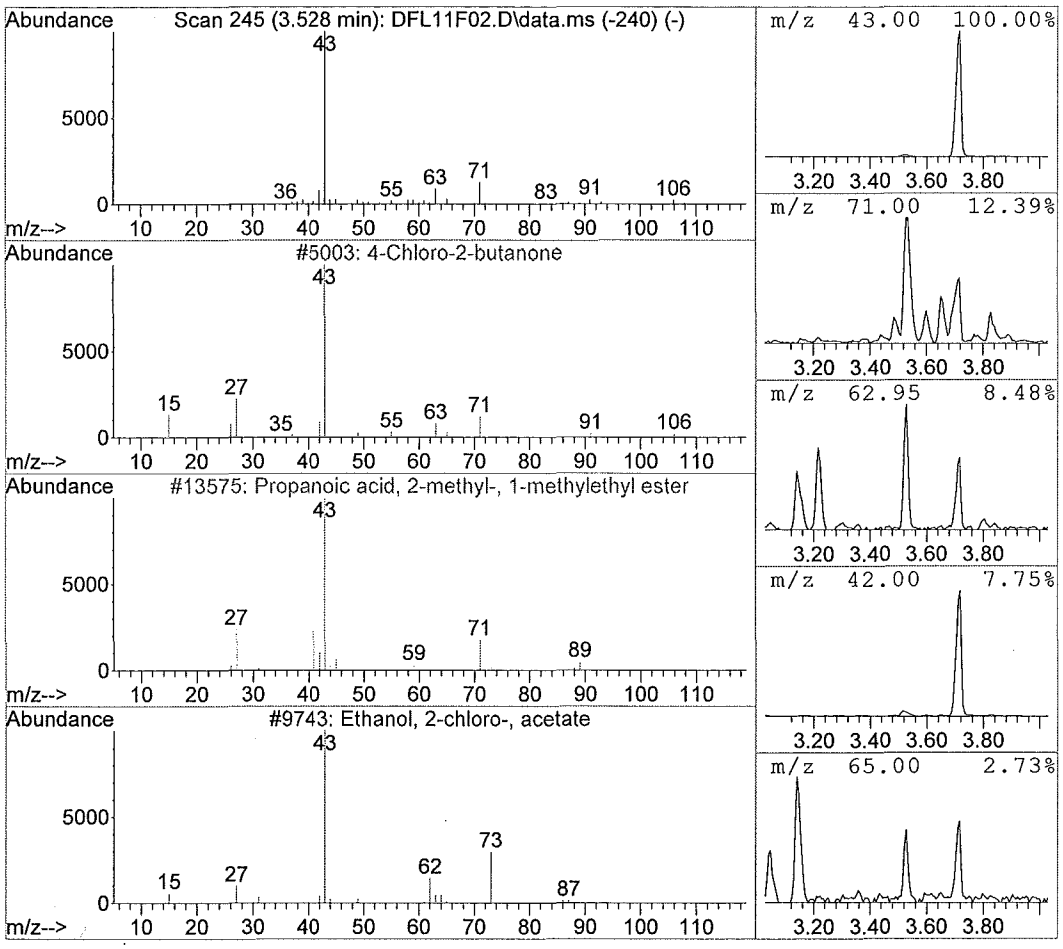
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.29 ug/ml	524657	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	52.00
2	Propanoic acid, 2-methyl-, 1-methyl	13575	000617-50-5	33.00
3	Ethanol, 2-chloro-, acetate	9743	000542-58-5	28.00
4	Acetyl chloride	988	000075-36-5	10.00
5	2-Butanone	651	000078-93-3	9.00



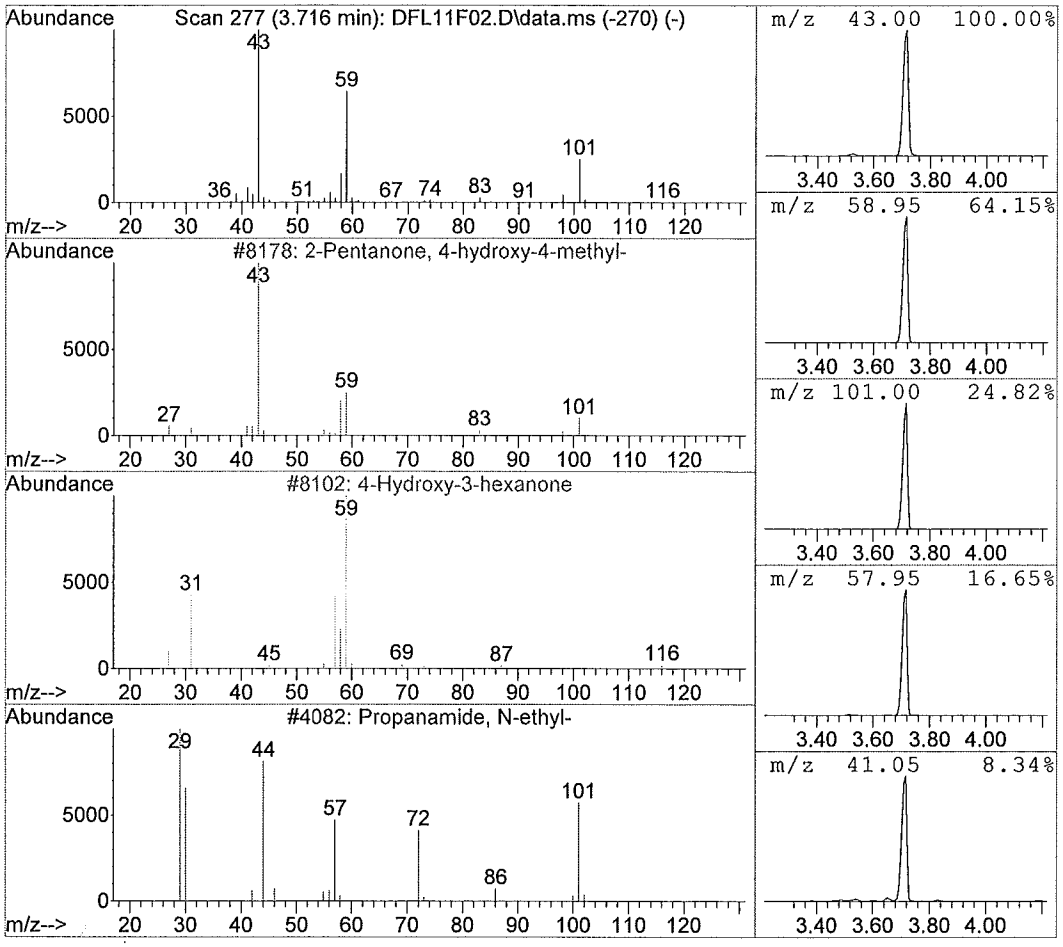
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	111.81 ug/ml	25625635	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	59.00
2	4-Hydroxy-3-hexanone	8102	004984-85-4	17.00
3	Propanamide, N-ethyl-	4082	005129-72-6	9.00
4	Formamide, N,N-diethyl-	4092	000617-84-5	9.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00



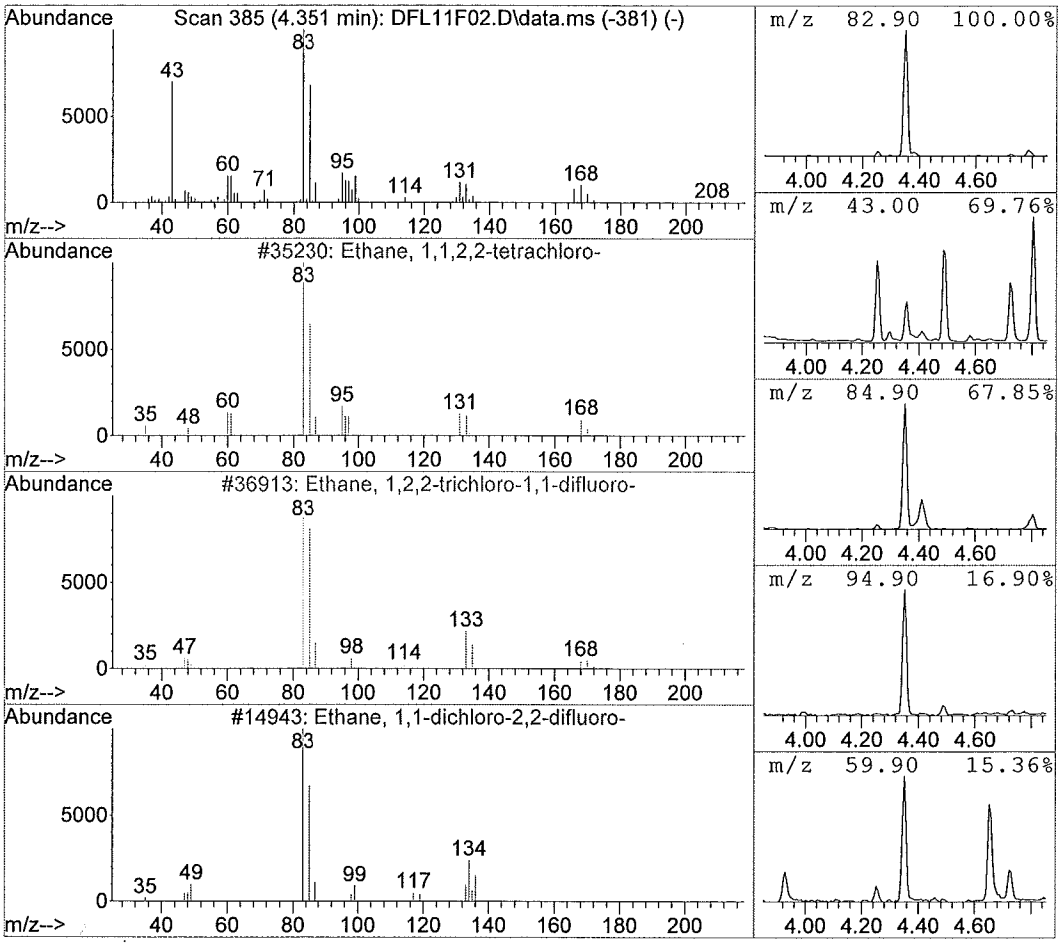
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.11 ug/ml	483222	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	98.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	70.00
3	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	59.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	50.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00



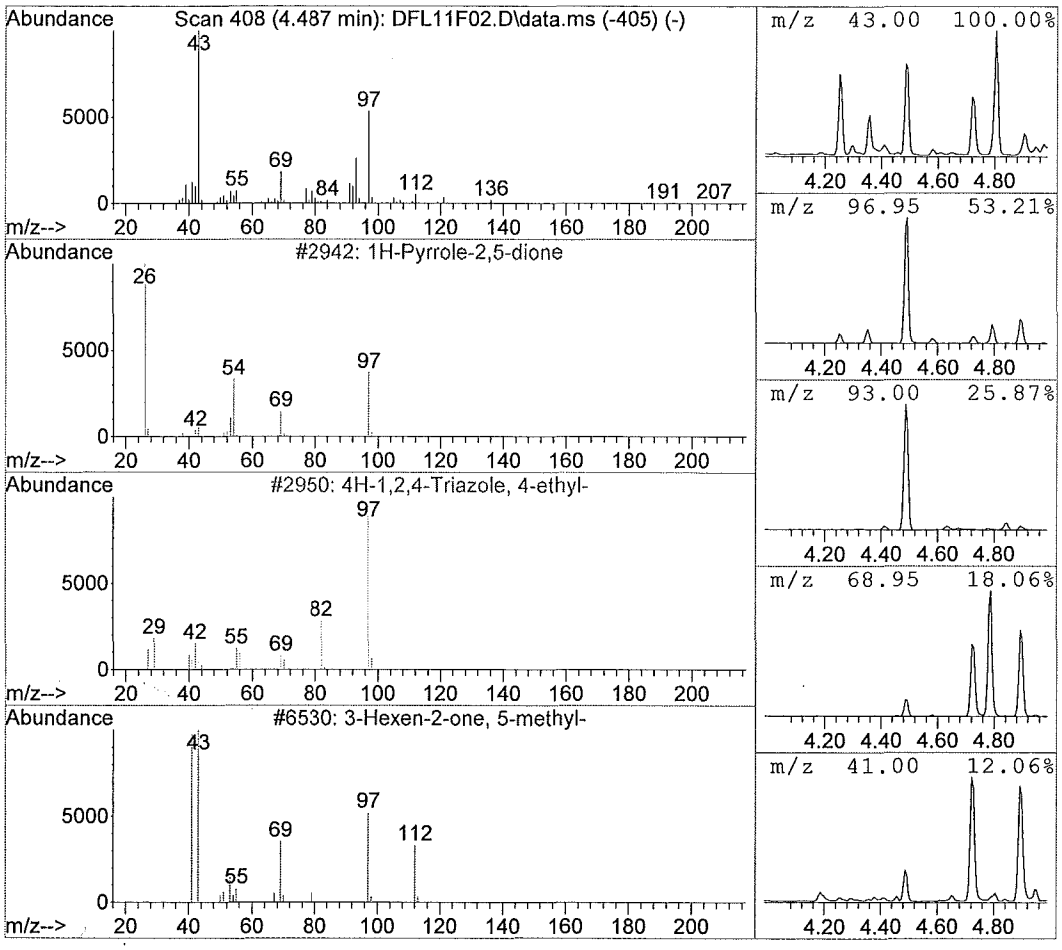
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	3.02 ug/ml	692739	1,4-Dichlorobenzene-d4	4583954

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	25.00
2	4H-1,2,4-Triazole, 4-ethyl-	2950	043183-55-7	25.00
3	3-Hexen-2-one, 5-methyl-	6530	005166-53-0	25.00
4	5-Amino-3-methylpyrazole	2946	031230-17-8	22.00
5	Cyclohexane, 1,3-dimethyl-, cis-	6808	000638-04-0	17.00



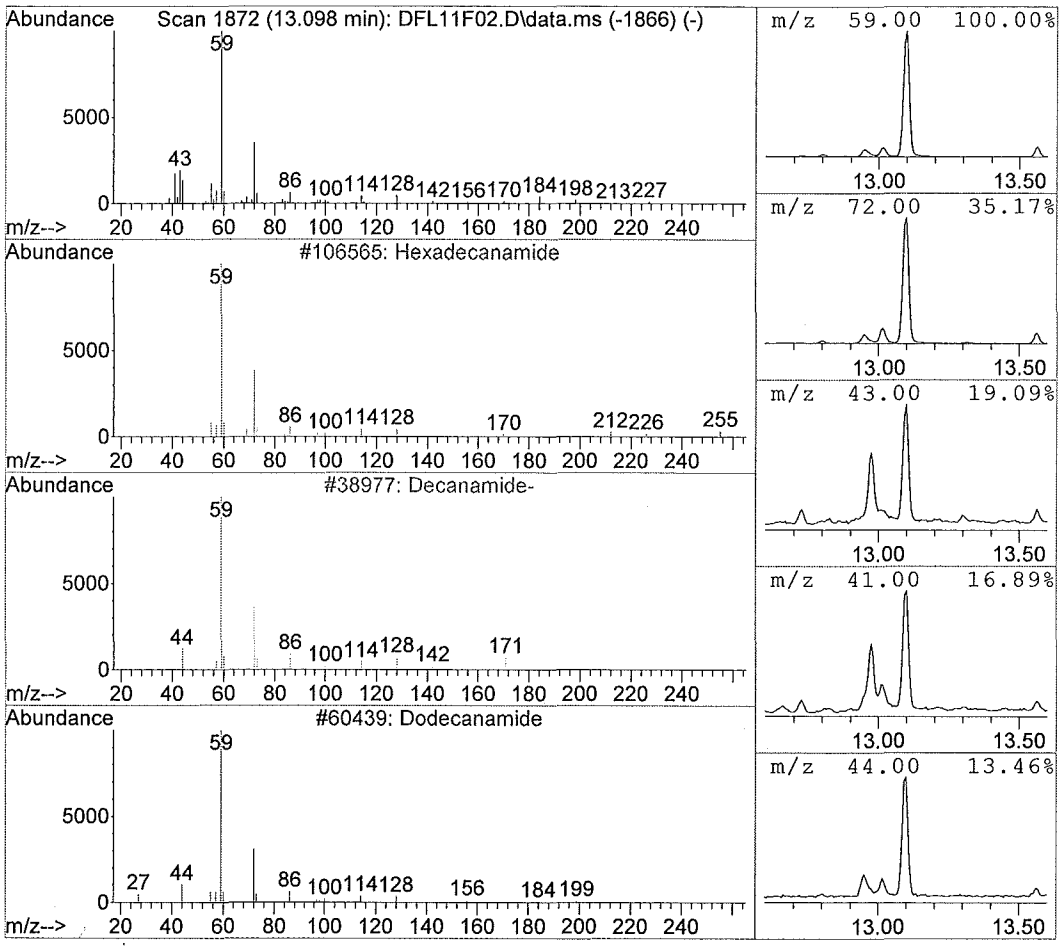
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.10	2.33 ug/ml	841003	Phenanthrene-d10	7229572

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Decanamide-	38977	002319-29-1	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Tetradecanamide	83609	000638-58-4	83.00
5	Nonanamide	29478	001120-07-6	78.00



: 00073

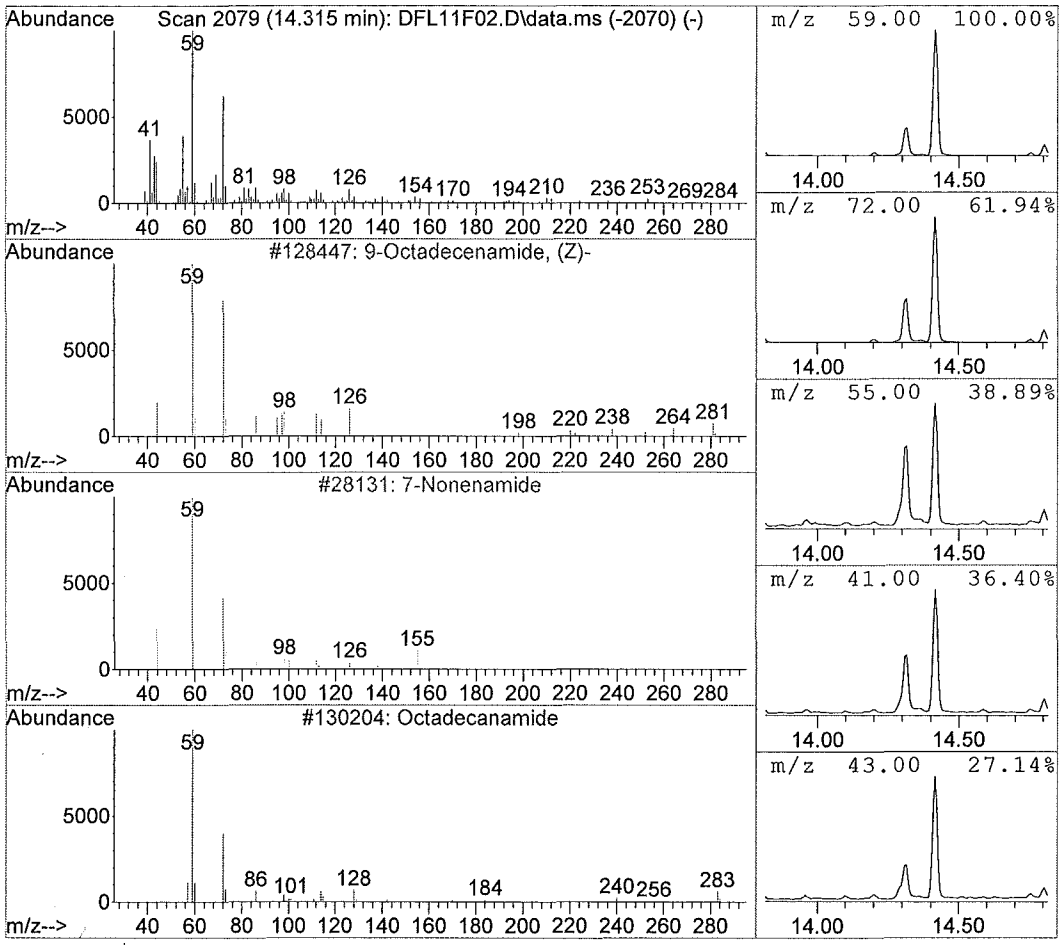
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.32	3.18 ug/ml	1469470	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Octadecanamide	130204	000124-26-5	64.00
4	Octanamide	20317	000629-01-6	59.00
5	Nonanamide	29478	001120-07-6	59.00



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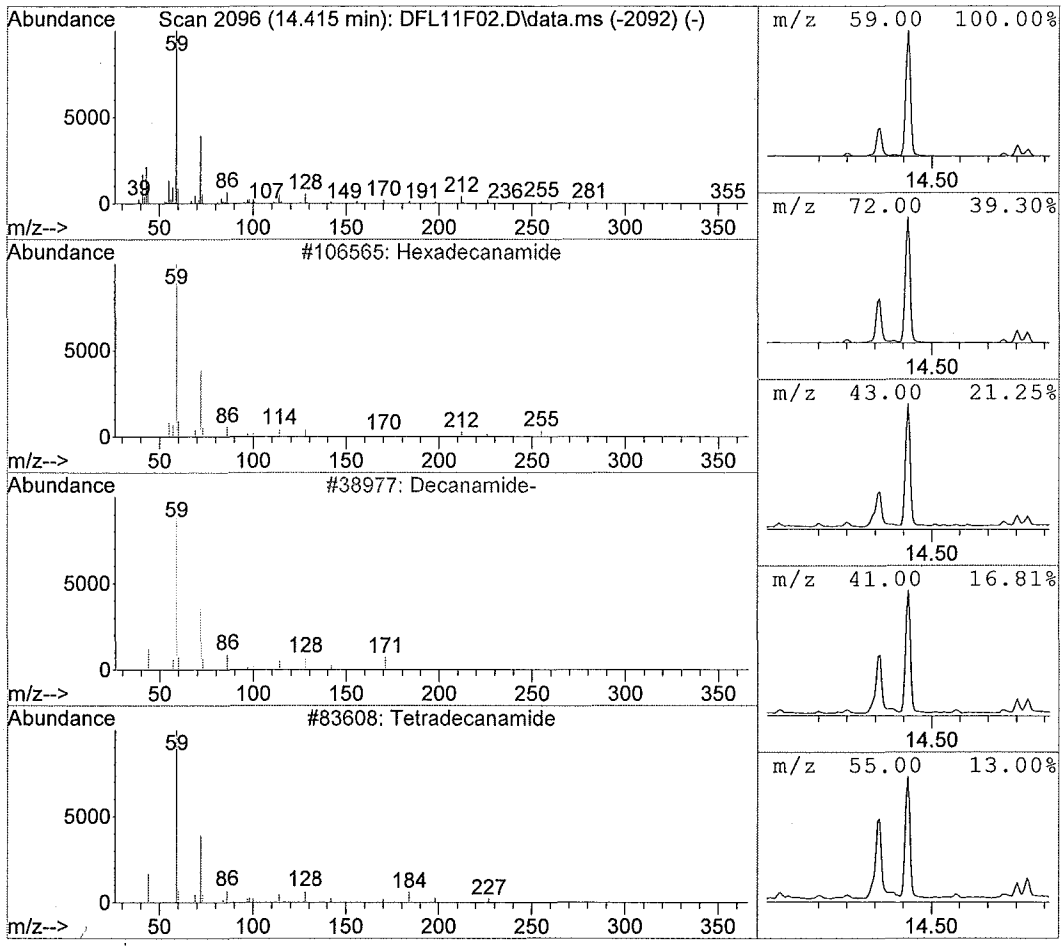
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	6.42 ug/ml	2967316	Chrysene-d12	9245956

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



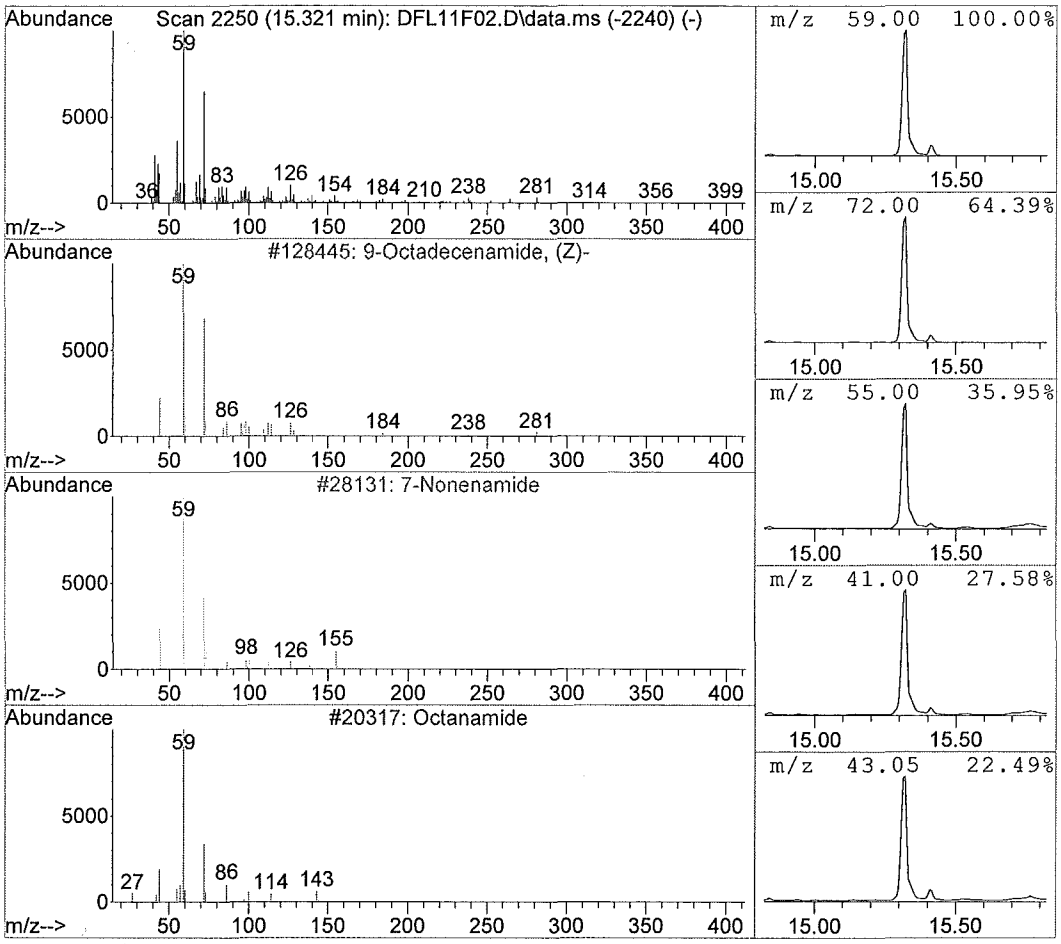
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	52.67 ug/ml	24348949	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	7-Nonenamide	28131	090949-53-4	56.00
3	Octanamide	20317	000629-01-6	53.00
4	Nonanamide	29478	001120-07-6	50.00
5	14-Hydroxy-14-methylpentadecanoic a	121120	091544-39-7	47.00



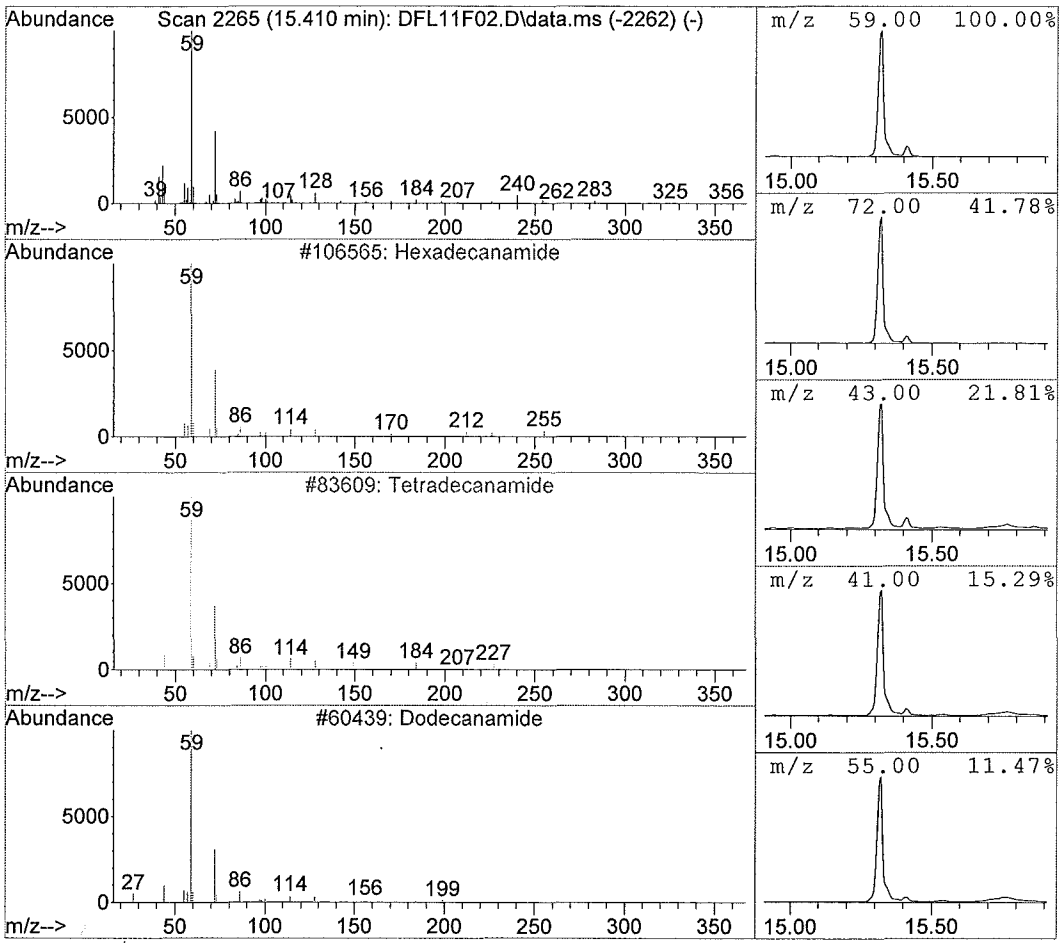
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.47 ug/ml	1143108	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Nonadecanamide	142051	058185-32-3	64.00
5	Decanamide-	38977	002319-29-1	64.00



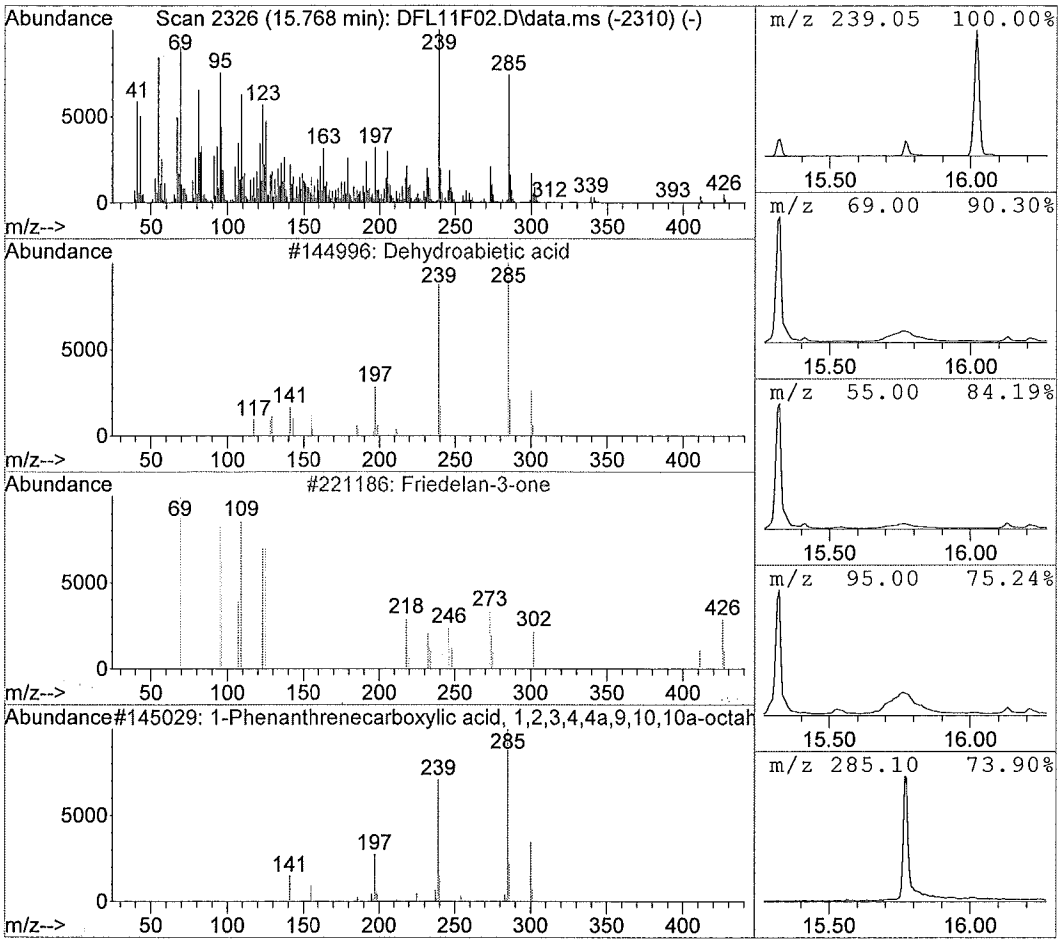
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.77	9.38 ug/ml	4335019	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dehydroabietic acid	144996	001740-19-8	94.00
2	Friedelan-3-one	221186	000559-74-0	74.00
3	1-Phenanthrenecarboxylic acid, 1,2,	145029	005155-70-4	70.00
4	3-Quinolinecarboxylic acid, 4-hydro	131626	023851-84-5	38.00
5	Ethyl 4-hydroxy-7-trifluoromethyl-3	131625	000391-02-6	25.00



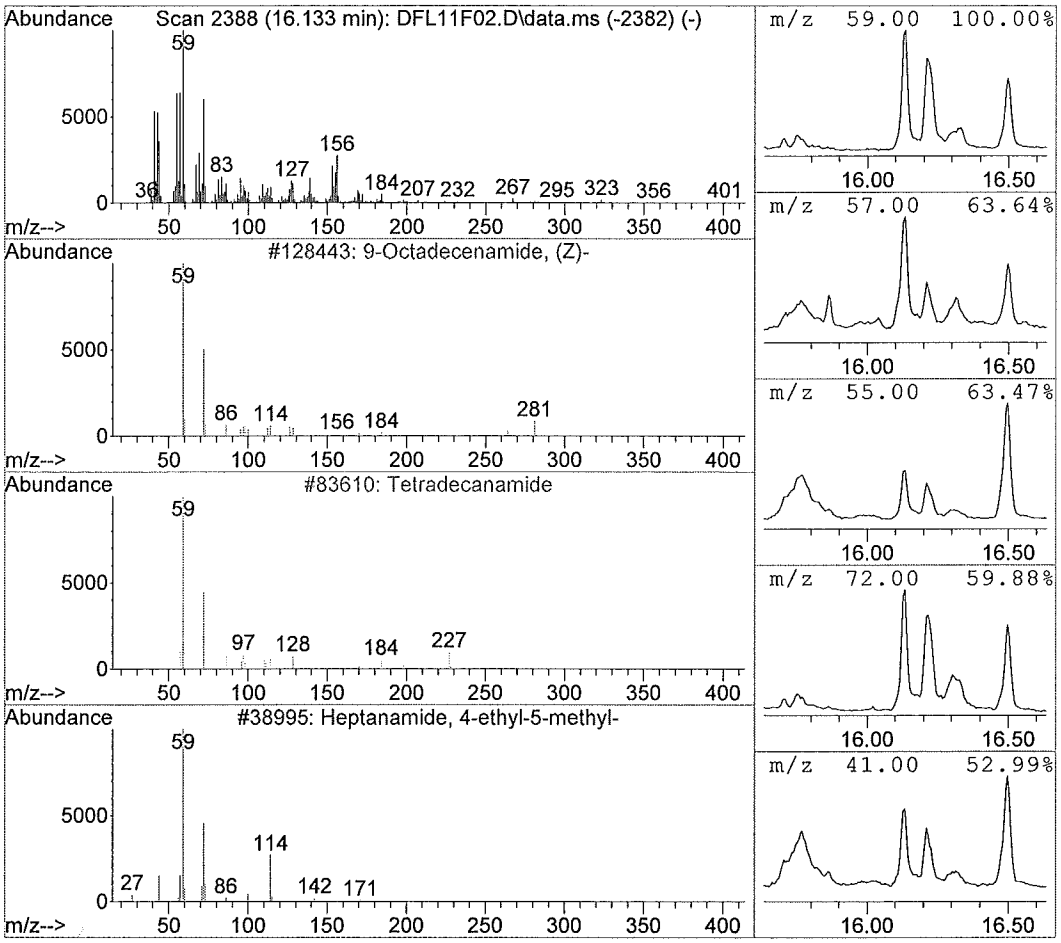
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.22 ug/ml	1028341	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	92.00
2	Tetradecanamide	83610	000638-58-4	60.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	46.00
4	Dodecanamide	60439	001120-16-7	38.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	35.00



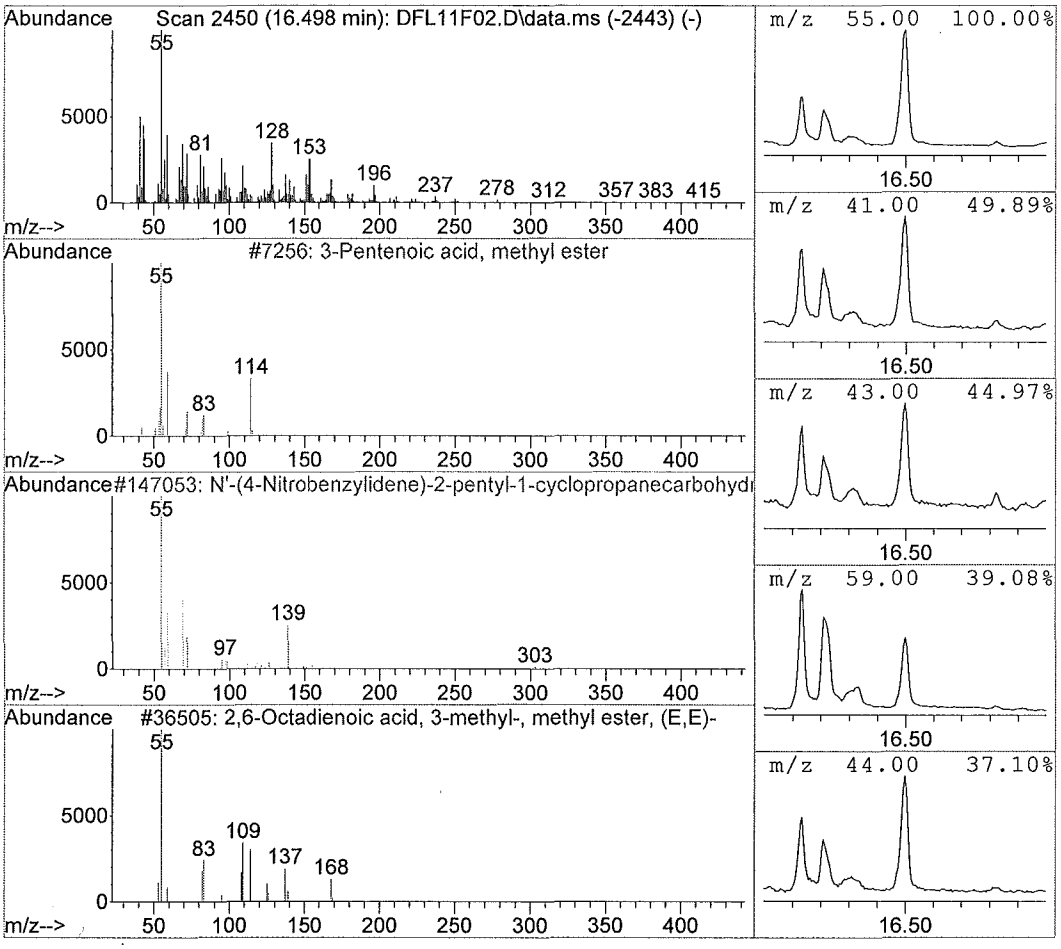
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	4.26 ug/ml	1969579	Chrysene-d12	9245956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	12.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
4	Propanoic acid, 3-bromo-, ethyl est	45856	000539-74-2	9.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	9.00



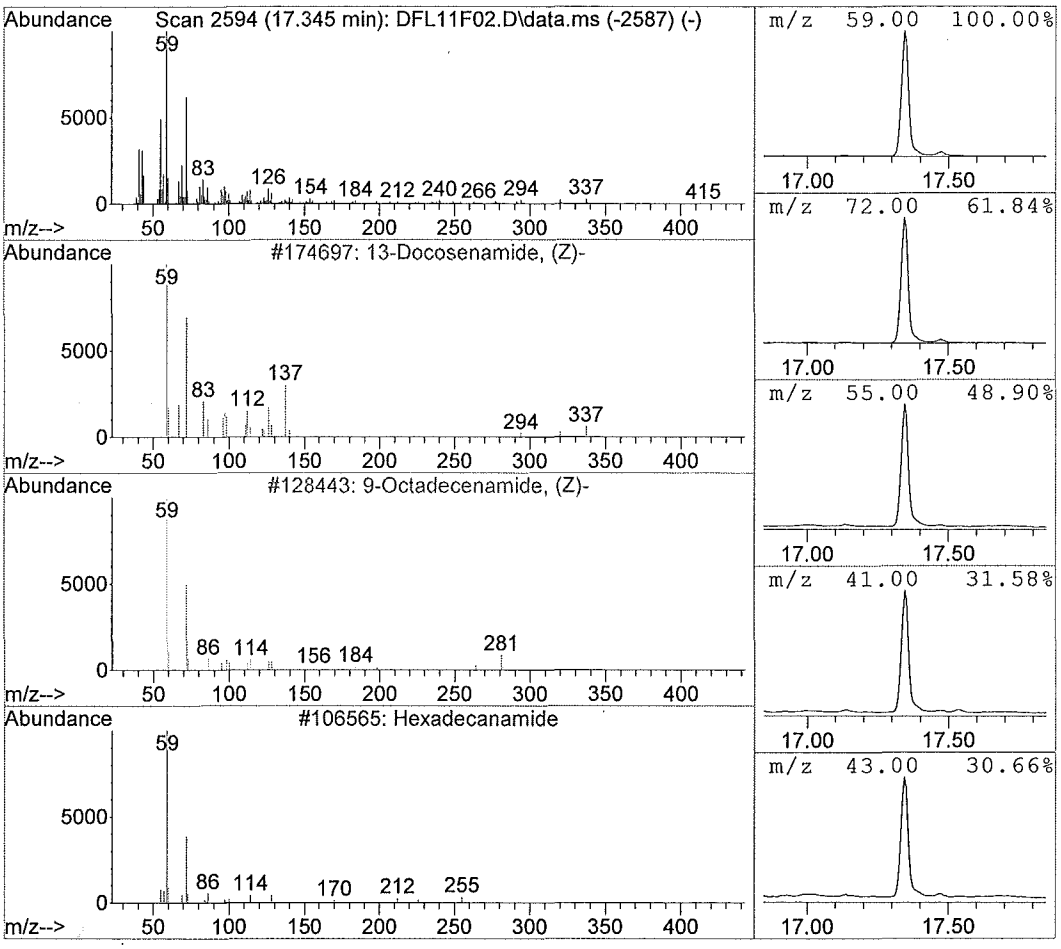
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	14.93 ug/ml	6653348	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
3	Hexadecanamide	106565	000629-54-9	78.00
4	Octanamide	20317	000629-01-6	59.00
5	Hexanamide	7791	000628-02-4	49.00



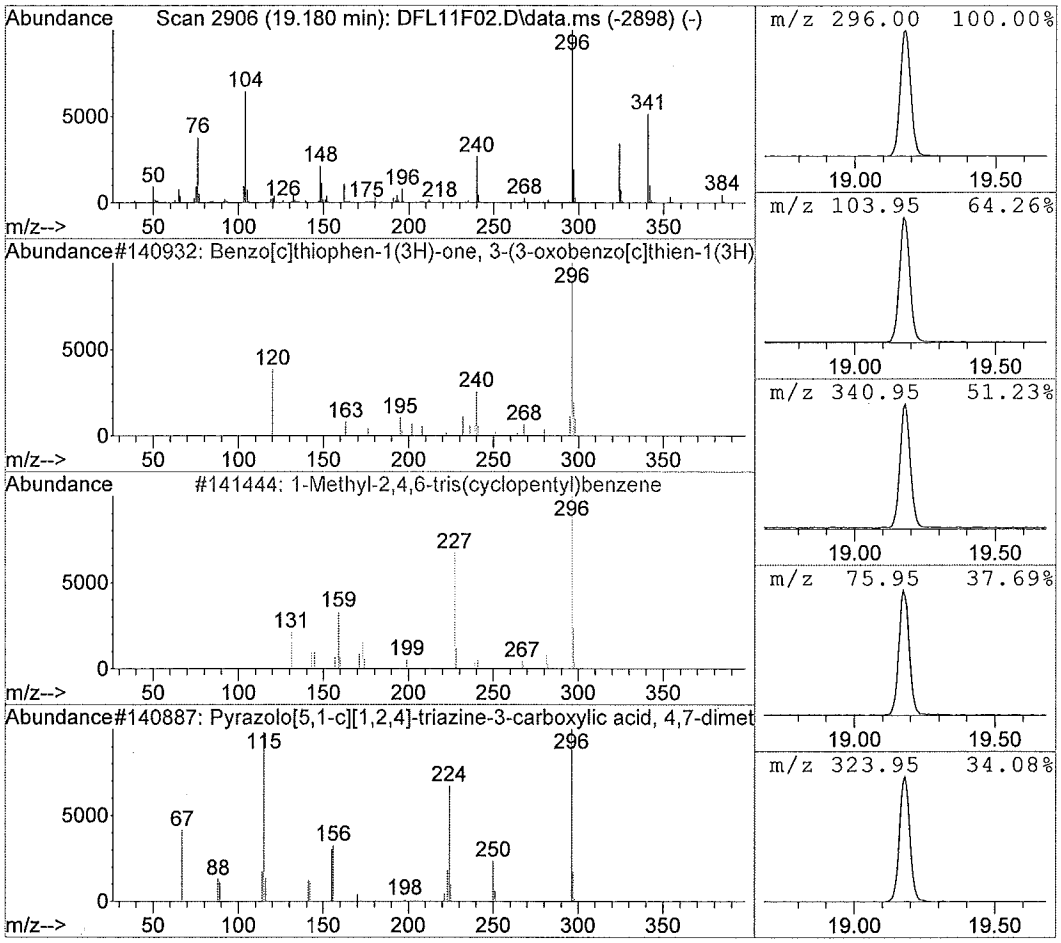
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	2.46 ug/ml	1096179	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
3	Pyrazolo[5,1-c][1,2,4]-triazine-3-c	140887	077632-06-5	22.00
4	Bithiophthalide	140931	032819-84-4	16.00
5	Phthalic anhydride	23154	000085-44-9	14.00



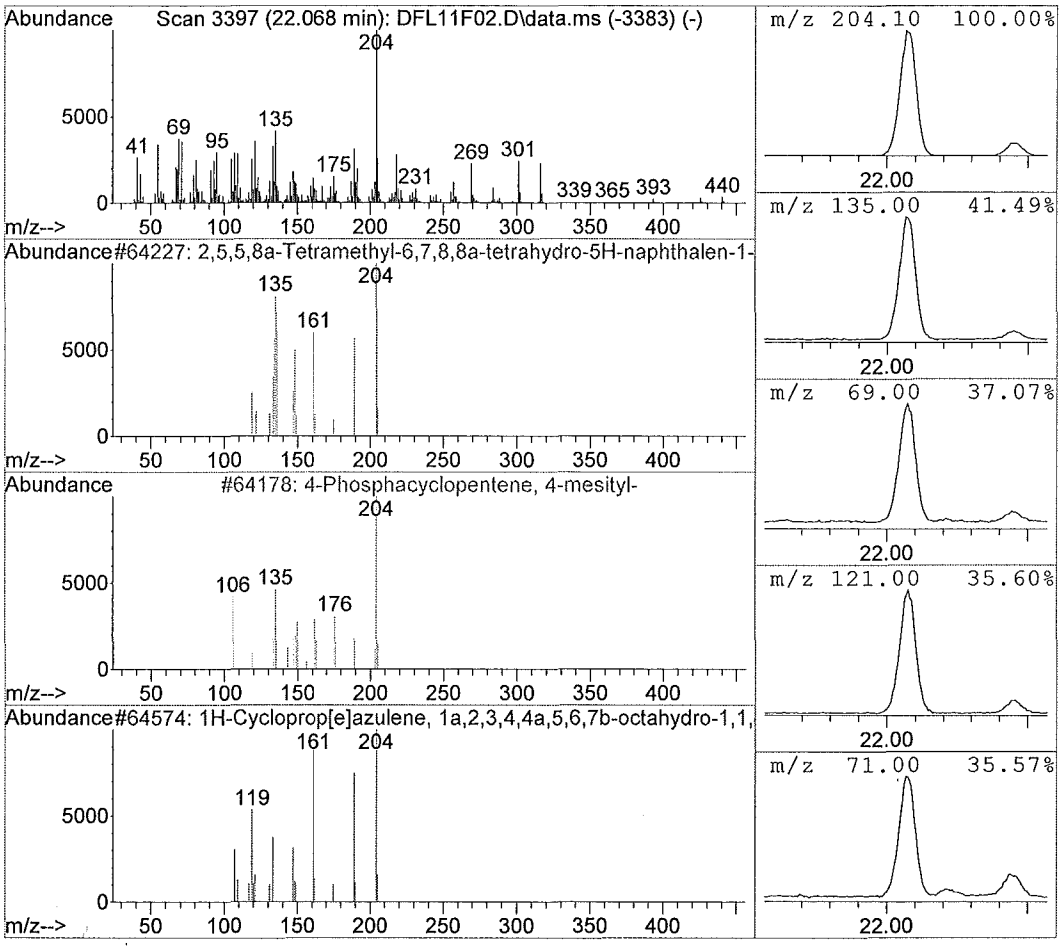
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	15.34 ug/ml	6835053	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	42.00
4	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	41.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00



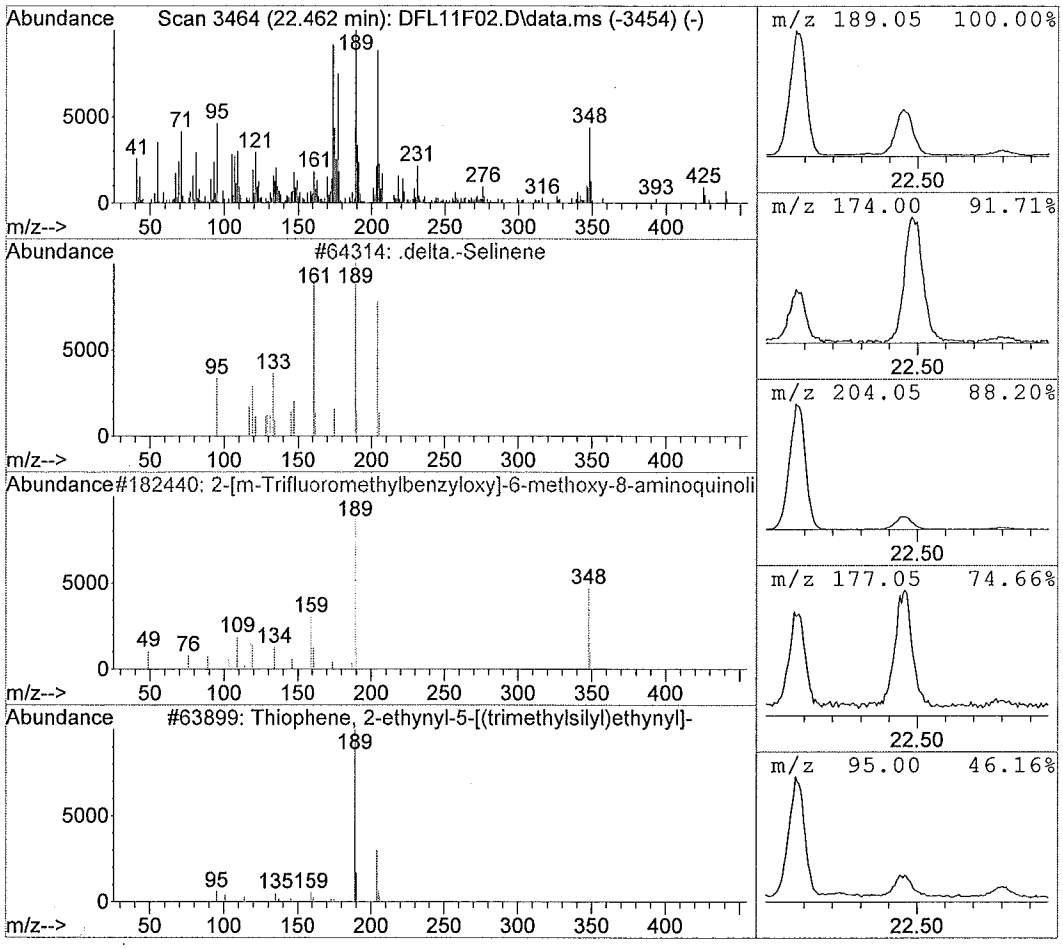
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.46	2.10 ug/ml	936948	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.delta.-Selinene	64314	028624-23-9	41.00
2	2-[m-Trifluoromethylbenzyloxy]-6-me	182440	063624-55-5	35.00
3	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	30.00
4	2-Naphthalenemethanol, 1,2,3,4,4a,5	79488	001209-71-8	30.00
5	Guanidine, 1-(4-methoxy-6-methylqui	86533	331841-06-6	30.00



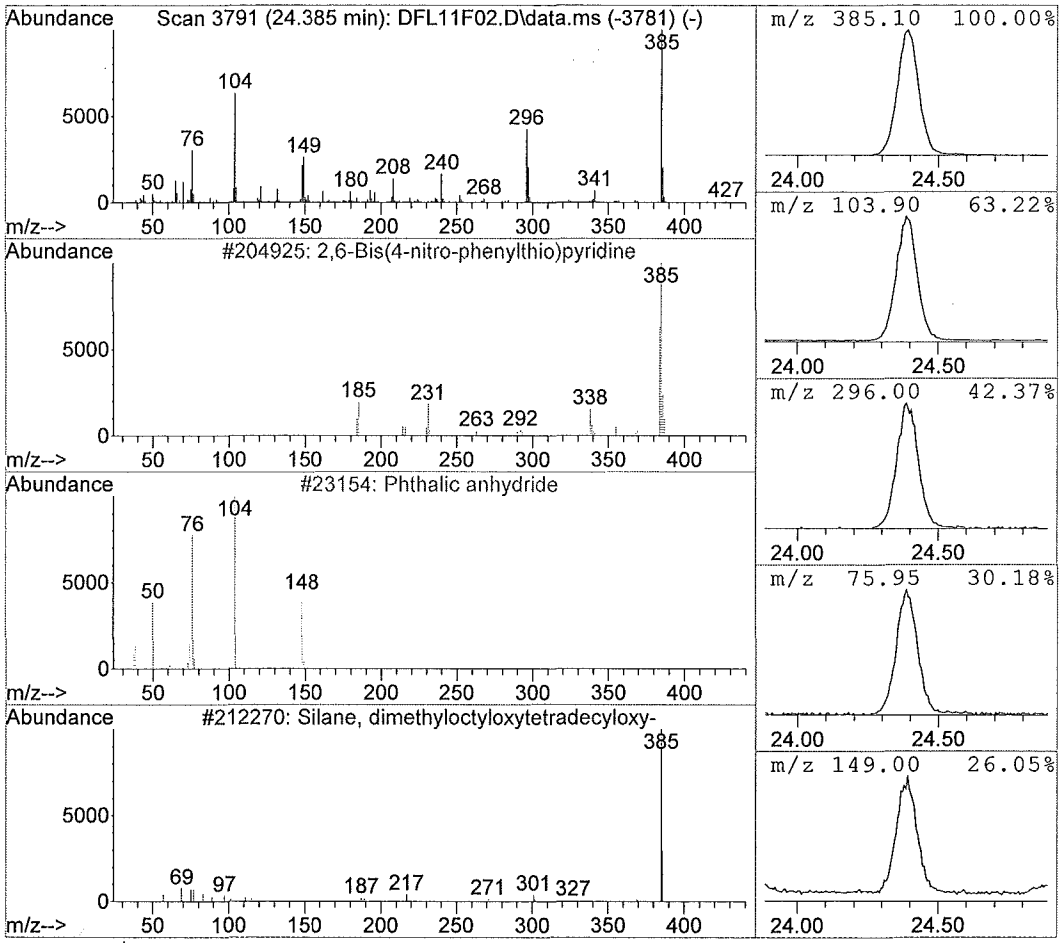
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL11F02.D Vial: 11
Acq On : 05/27/2015 14:27 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.39	2.92 ug/ml	1302920	Perylene-d12	8912421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	25.00
2	Phthalic anhydride	23154	000085-44-9	14.00
3	Silane, dimethyloctyloxytetradecylo	212270	1000346-75-1	10.00
4	Silane, diethyldecyloxyundecyloxy-	217317	1000363-32-9	10.00
5	Silane, dimethylnonyloxytridecyloxy	212262	1000356-05-2	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL12F03

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL12F03

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC -

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.:

F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL12F03

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.26	87.	J
02	78-95-5	2-Propanone, 1-chloro-	2.48	77.	JNB
03		Unknown Acetaldehyde, O-ethyloxime-	2.53	260	J
04	625-86-5	Furan, 2,5-dimethyl-	2.63	110	JNB
05		Unknown 4-Chloro-2-butanone	3.52	90.	JB
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4700	JB
07		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.45	82.	J
08	638-58-4	Tetradecanamide	13.09	78.	JN
09		Unknown 9-Octadecenamide, (Z)-	14.31	120	JB
10	629-54-9	Hexadecanamide	14.42	240	JNB
11	301-02-0	9-Octadecenamide, (Z)-	15.32	2200	JNB
12	124-26-5	Octadecanamide	15.41	91.	JNB
13		Unknown 3-Pentenoic acid, methyl ester	16.50	130	J
14	112-84-5	13-Docosenamide, (Z)-	17.34	250	JN
15		Unknown 5-(2-Chlorophenyl)-3-[5-(trifluoromethyl	19.18	260	J
16		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	300	J
17		Unknown Hexadecanoic acid, 4-nitrophenyl ester	22.22	100	J
18		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.39	310	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

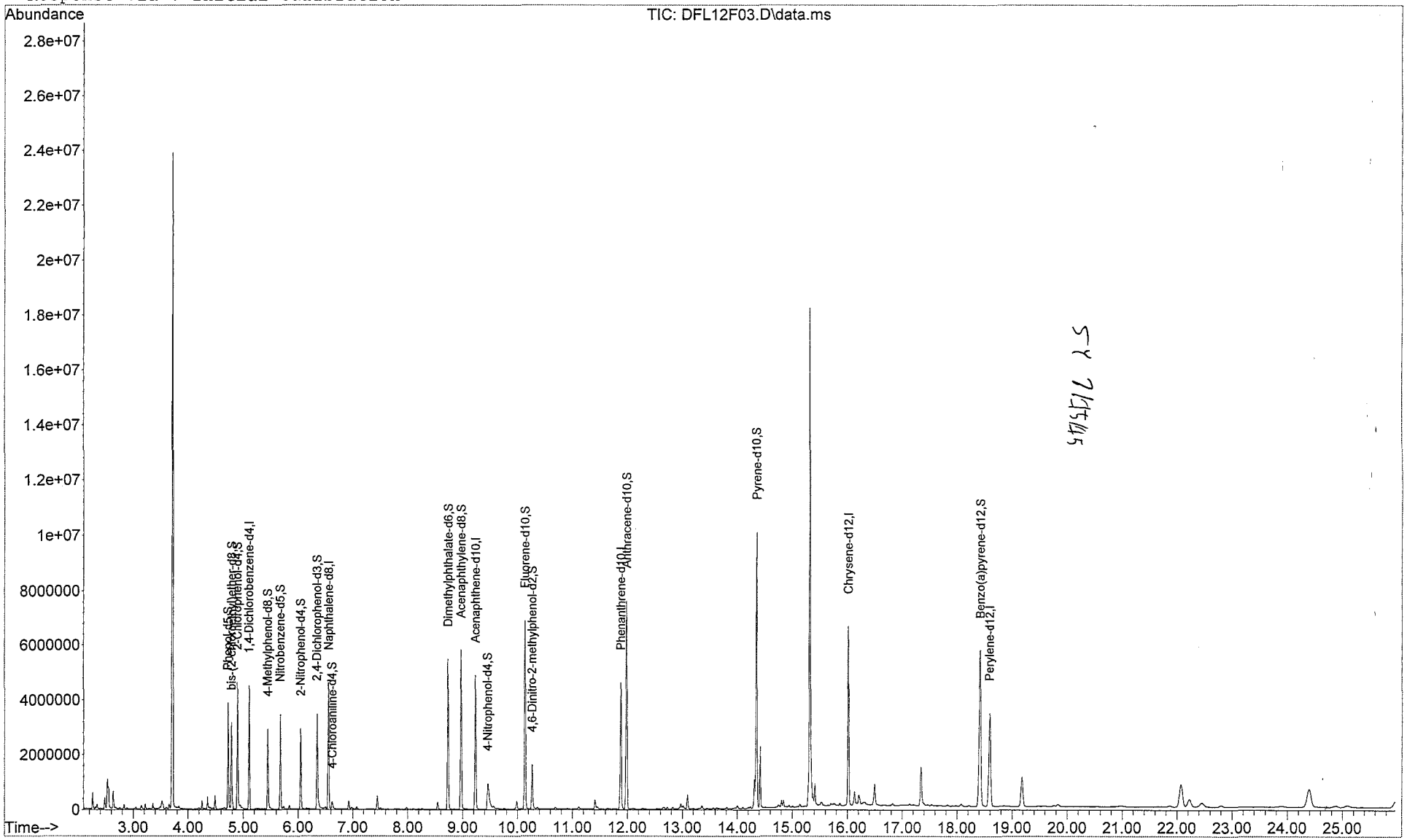
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:16:23 2015 Results File: DSOM01D5.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)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:23 2015 Results File: DSOM01D5.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	5.11	152	806611	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2718683	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1670624	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2860153	20.00 ug/ml
73) Chrysene-d12	16.02	240	3287845	20.00 ug/ml
81) Perylene-d12	18.59	264	3097343	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1408130	28.050ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	831465	22.635ug/mL
7) 2-Chlorophenol-d4	4.89	132	1313294	26.245ug/ml
13) 4-Methylphenol-d8	5.45	113	754630	20.054ug/mL
17) Nitrobenzene-d5	5.67	128	557436	25.034ug/ml
21) 2-Nitrophenol-d4	6.05	143	692923	26.241ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1132014	26.528ug/mL
28) 4-Chloroaniline-d4	6.62	131	139730	4.359ug/mL
42) Dimethylphthalate-d6	8.73	166	3447313	33.468ug/mL
45) Acenaphthylene-d8	8.97	160	3773369	27.822ug/mL
50) 4-Nitrophenol-d4	9.46	143	501400	29.309ug/mL
57) Fluorene-d10	10.13	176	2819179	30.974ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	442029	24.473ug/mL
69) Anthracene-d10	11.98	188	5022332	34.275ug/mL
75) Pyrene-d10	14.35	212	5038956	36.393ug/mL
86) Benzo(a)pyrene-d12	18.42	264	4980191	35.134ug/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)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:23 2015 Results File: DSOM01D5.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)

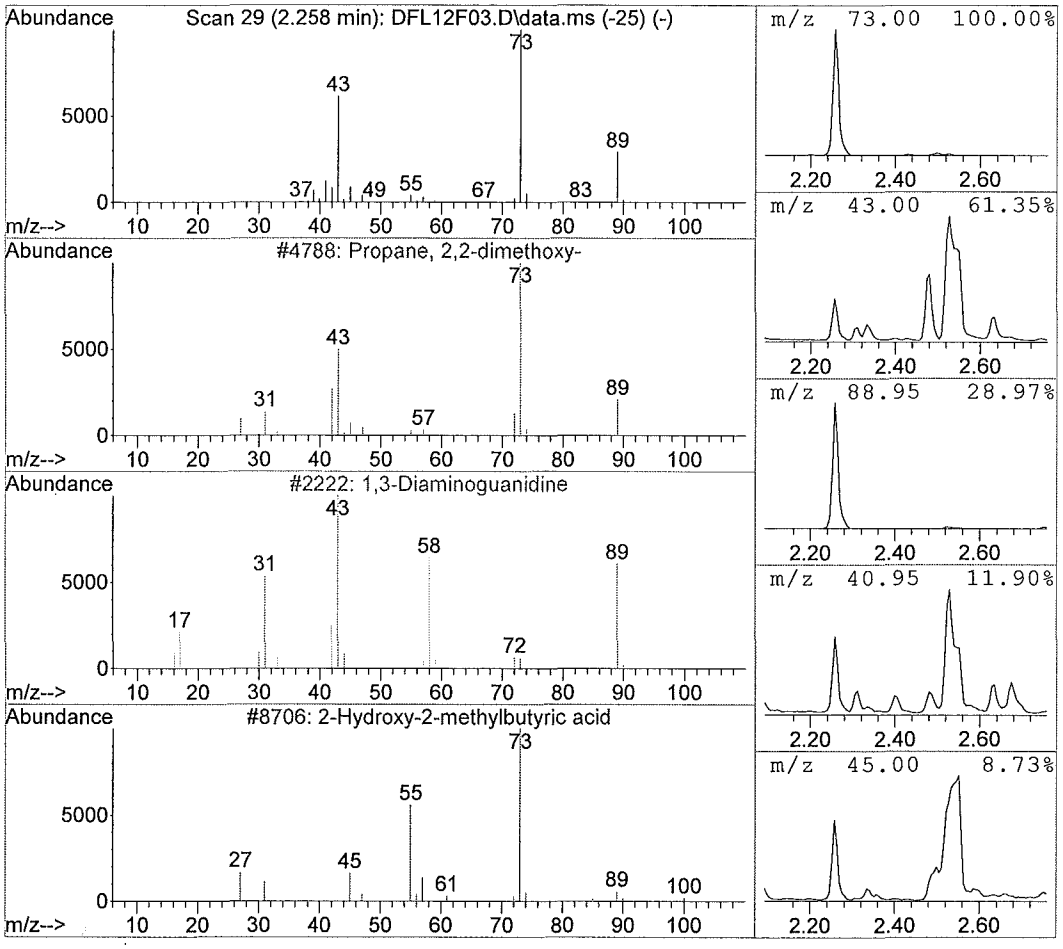
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.27 ug/ml	540652	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	56.00
2	1,3-Diaminoguanidine	2222	004364-78-7	9.00
3	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
4	Propane, 2-methoxy-2-methyl-	2136	001634-04-4	9.00
5	Oxirane-2-carboxylic acid, ethyl es	8052	1000192-50-3	9.00



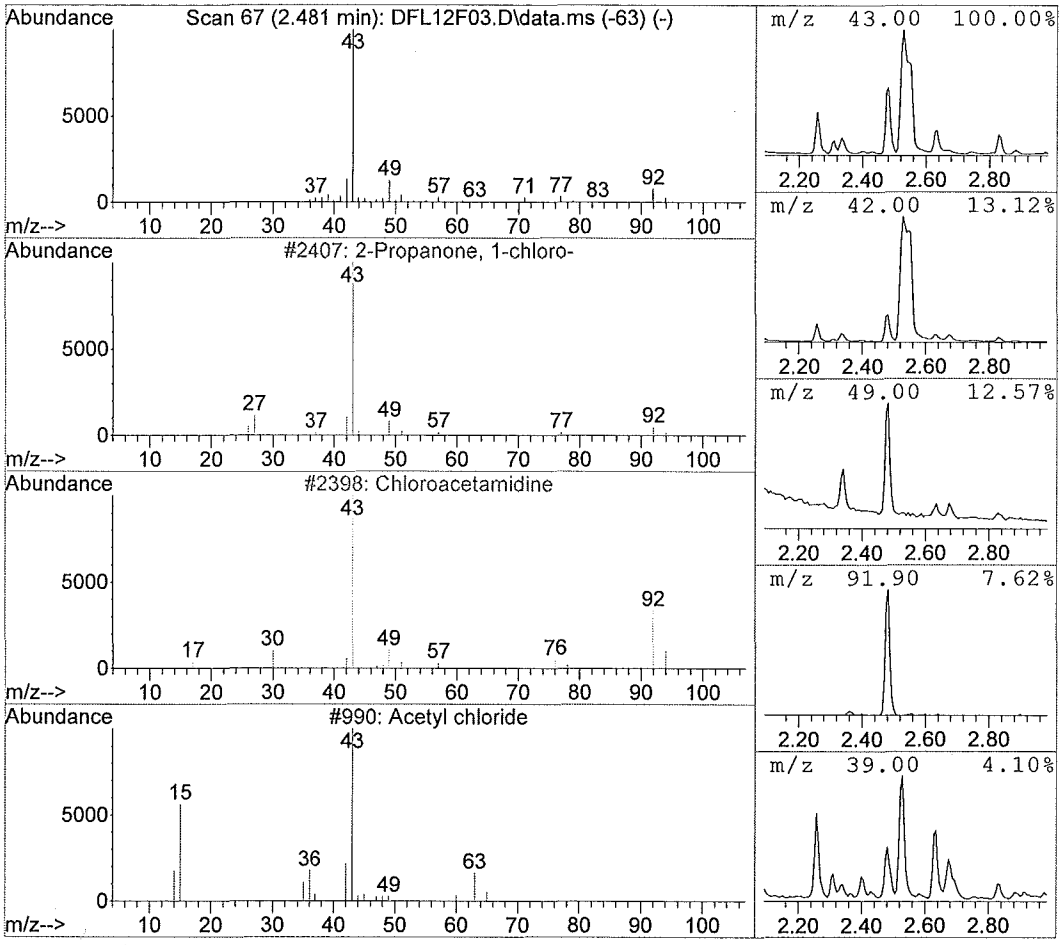
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.01 ug/ml	477155	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Acetyl chloride	990	000075-36-5	17.00
4	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
5	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00



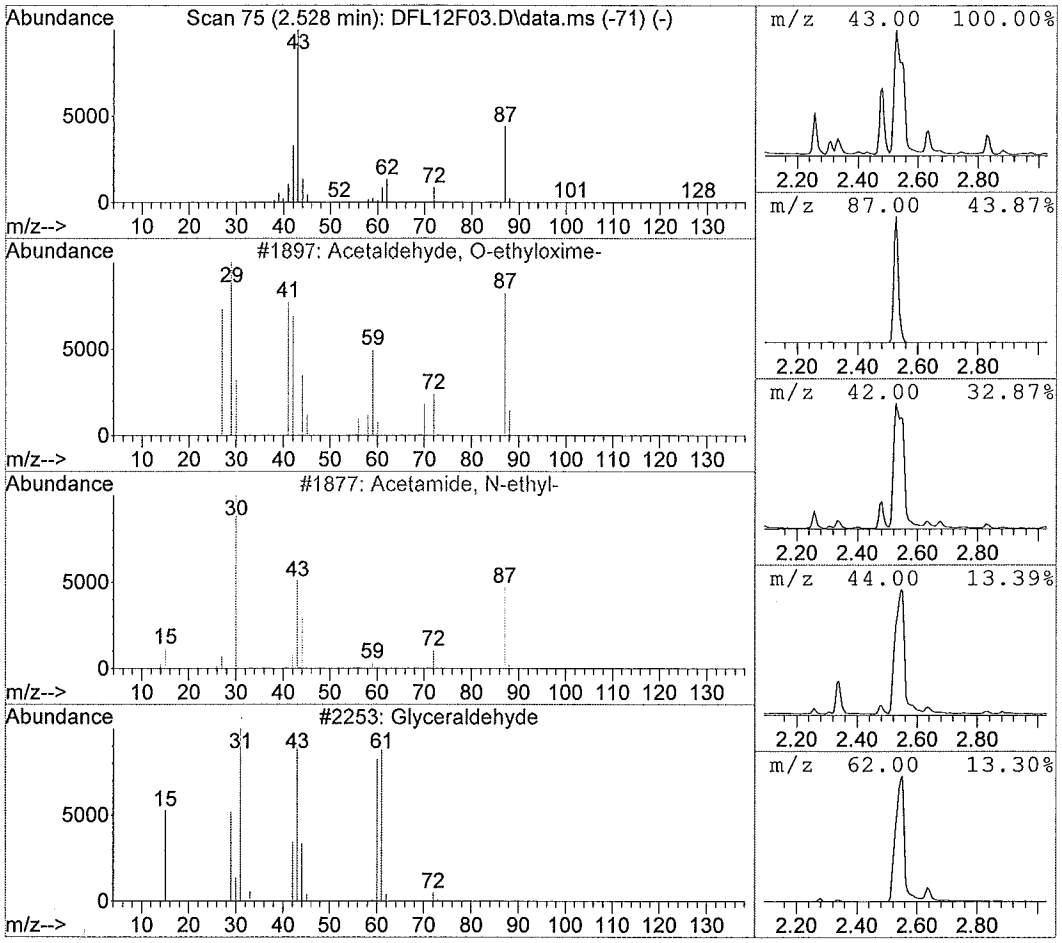
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.53	6.81 ug/ml	1620765	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	32.00
2	Acetamide, N-ethyl-	1877	000625-50-3	9.00
3	Glyceraldehyde	2253	000056-82-6	9.00
4	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	9.00
5	dl-Glyceraldehyde dimer	45907	026793-98-6	9.00



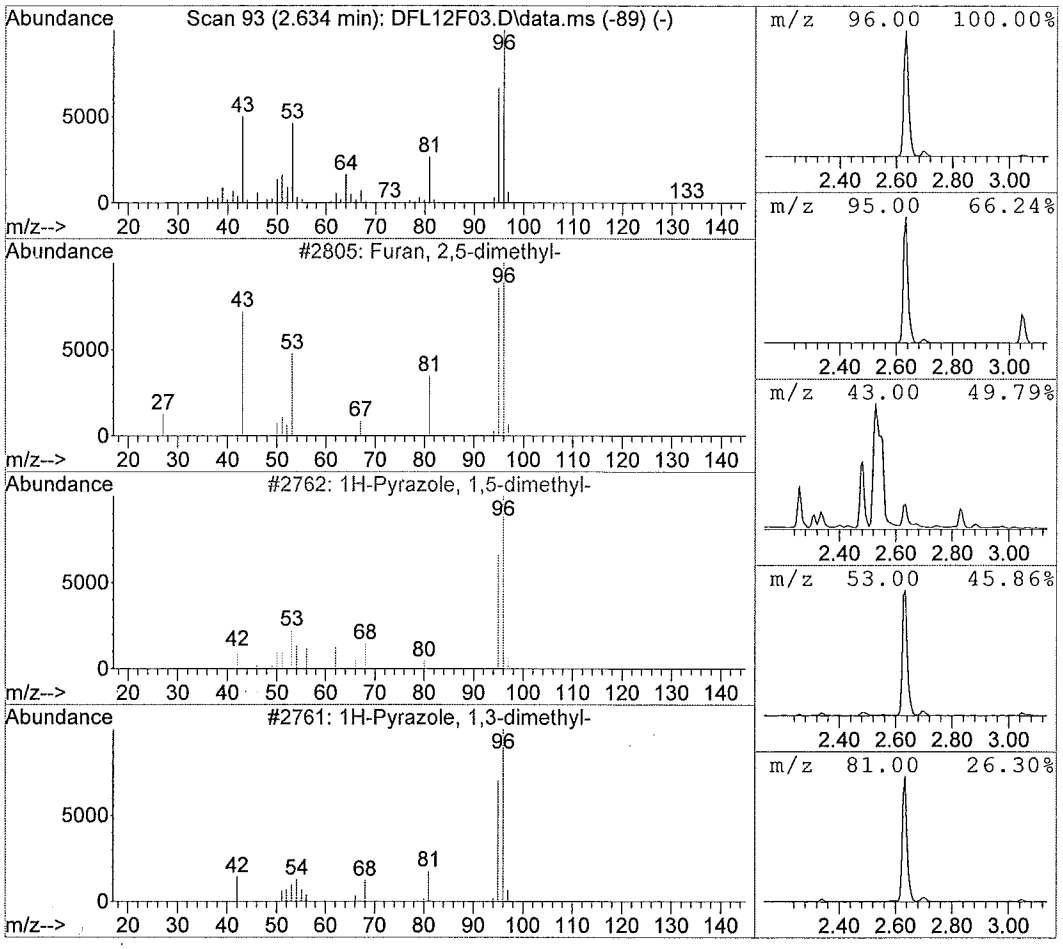
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.63	2.93 ug/ml	698259	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	90.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	32.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	27.00
4	3,5-Dimethylpyrazole	2747	000067-51-6	22.00
5	2-Cyclopenten-1-one, 3-methyl-	2821	002758-18-1	22.00



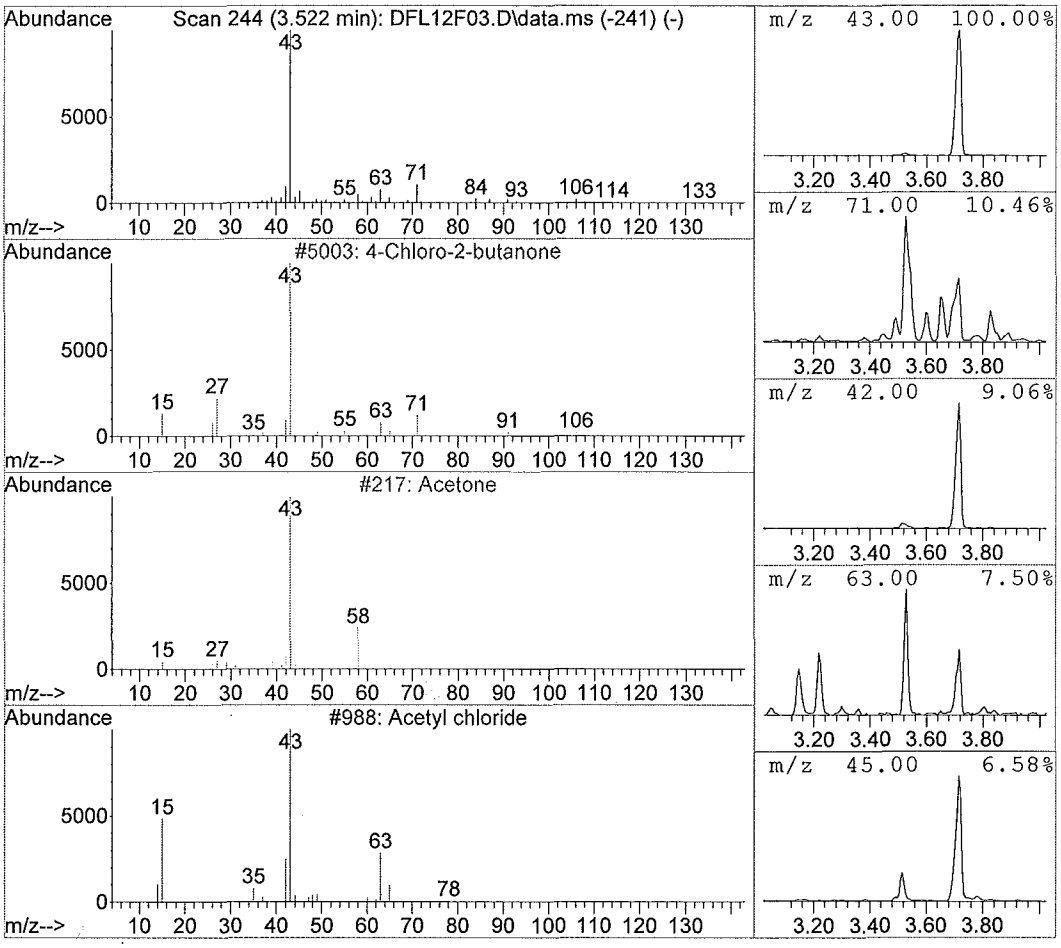
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.35 ug/ml	559114	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	64.00
2	Acetone	217	000067-64-1	23.00
3	Acetyl chloride	988	000075-36-5	9.00
4	Ethanol, 2-chloro-, acetate	9743	000542-58-5	9.00
5	Propanoic acid, 2-chloro-, pentyl e	44438	086711-71-9	9.00



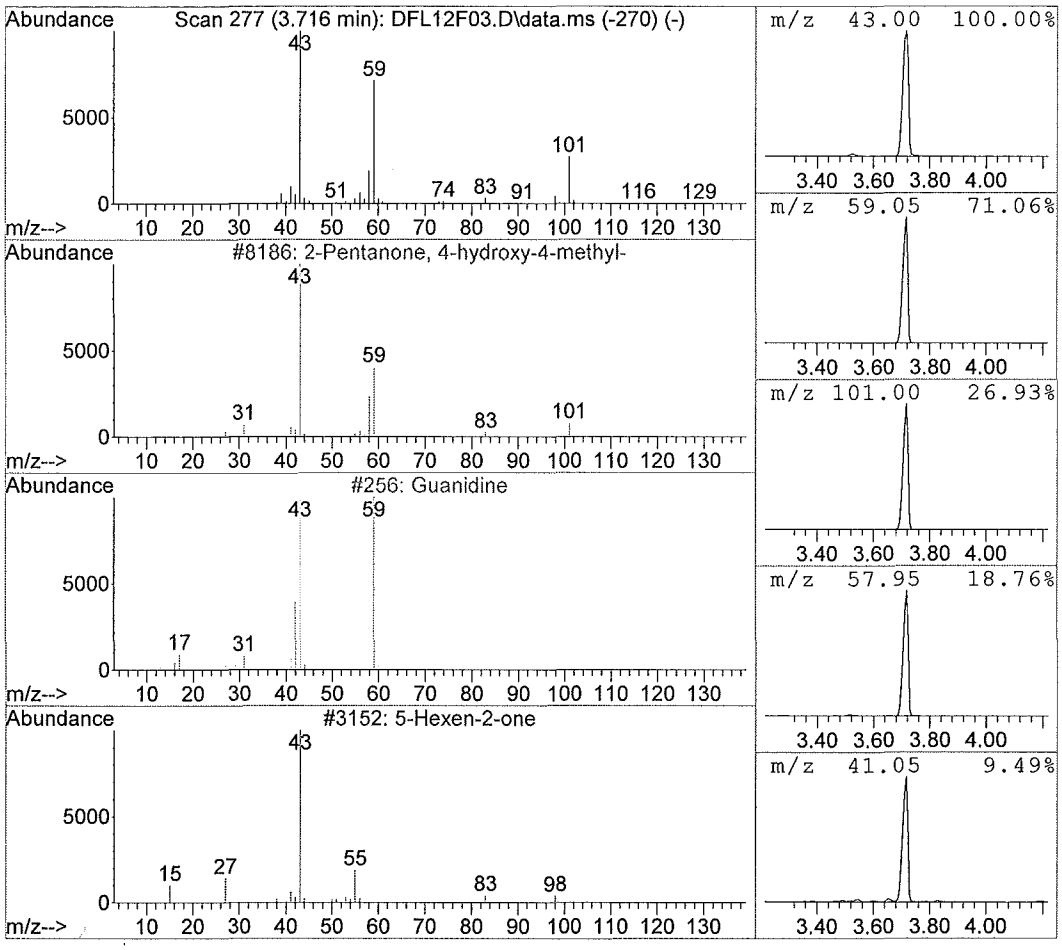
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	123.60 ug/ml	29414593	1,4-Dichlorobenzene-d4	4759529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	43.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	Butane, 1-ethoxy-	4425	000628-81-9	9.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00



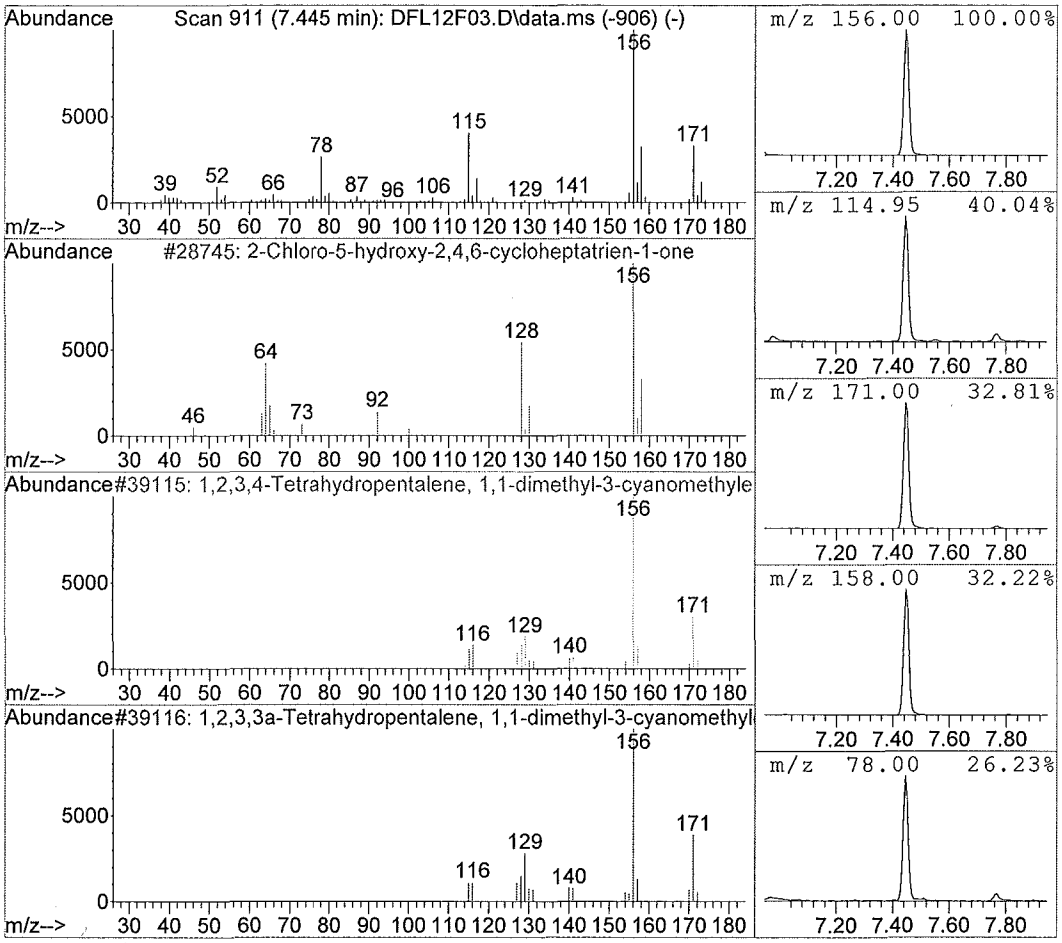
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.45	2.14 ug/ml	607215	Naphthalene-d8	5676280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	43.00
3	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00
4	Bicyclo[3.2.0]hept-2-ene, 4-isoprop	39117	1000217-15-6	32.00
5	6-Isopropylquinoline	39076	000135-79-5	32.00



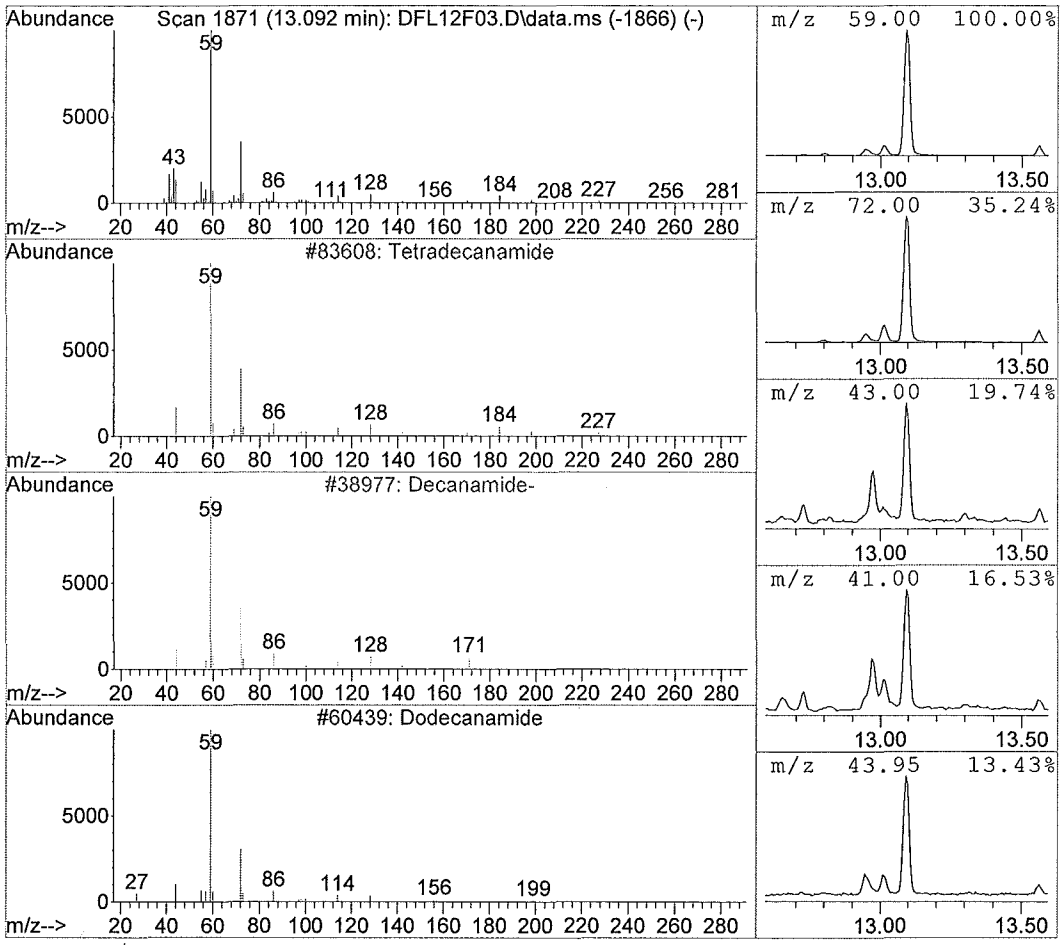
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.09	2.05 ug/ml	721213	Phenanthrene-d10	7041176

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Hexadecanamide	106565	000629-54-9	83.00
5	Nonanamide	29478	001120-07-6	78.00



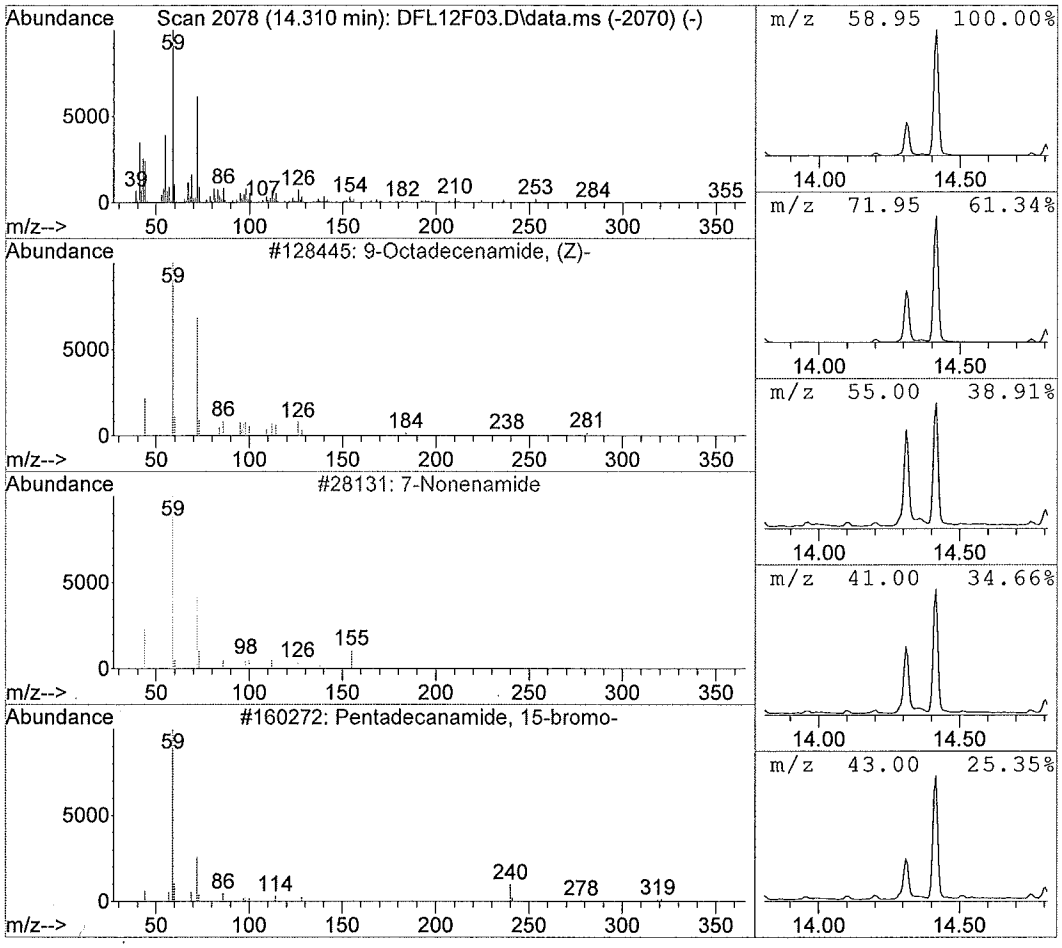
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	3.24 ug/ml	1360033	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Octanamide	20317	000629-01-6	59.00



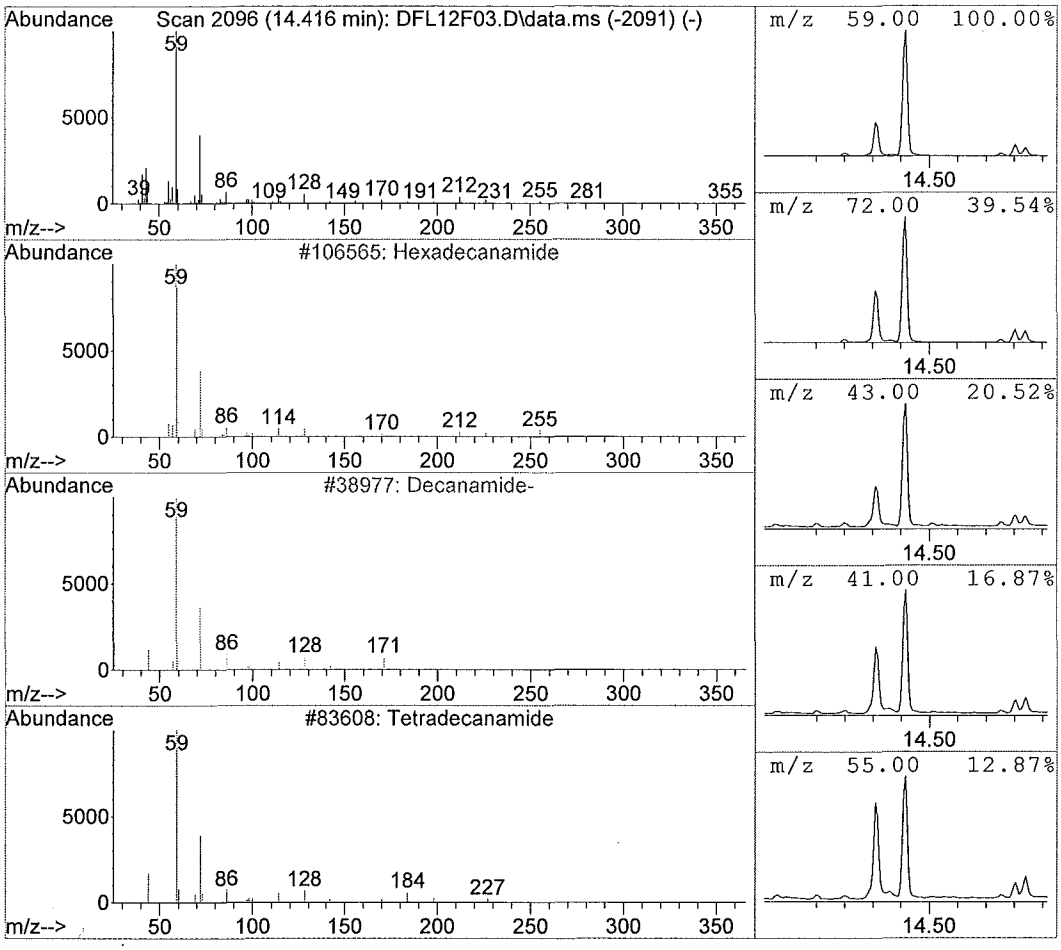
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	6.22 ug/ml	2610720	Chrysene-d12	8393413

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



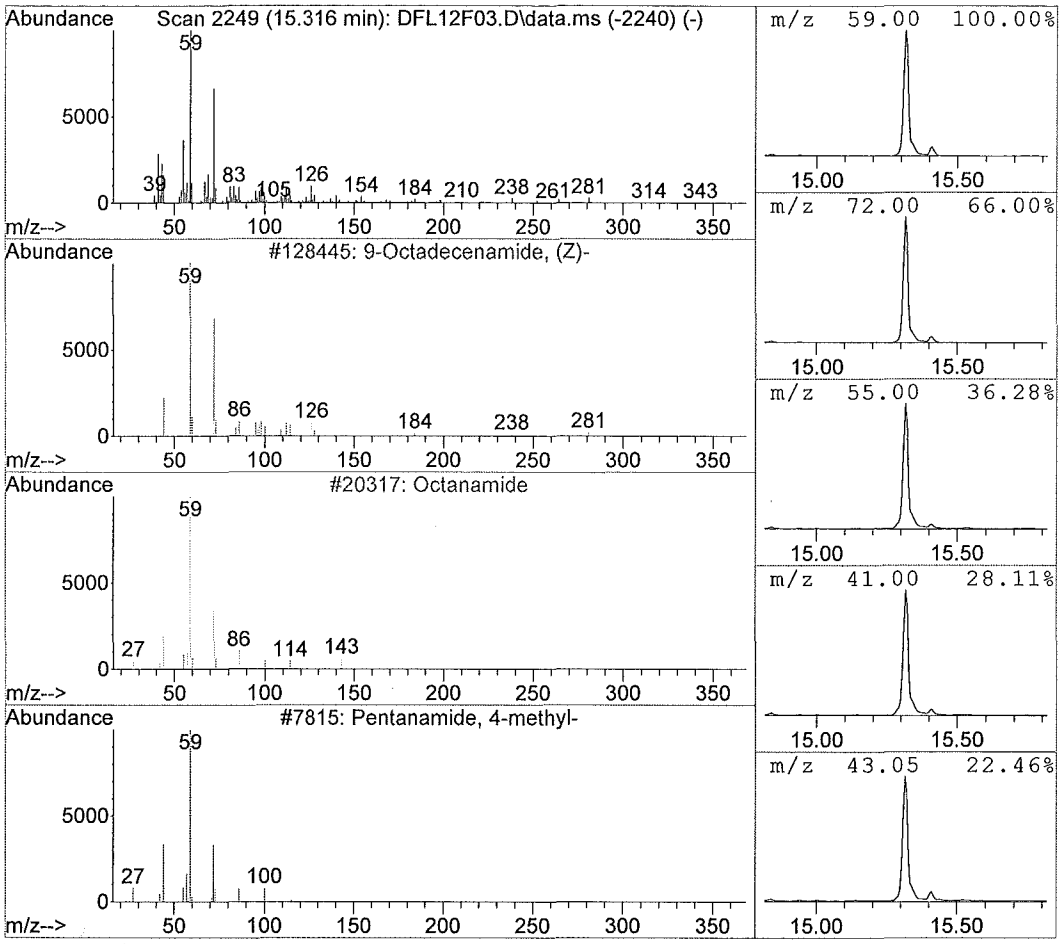
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	58.36 ug/ml	24493557	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	53.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
4	Tetradecanamide	83609	000638-58-4	50.00
5	Dodecanamide	60439	001120-16-7	42.00



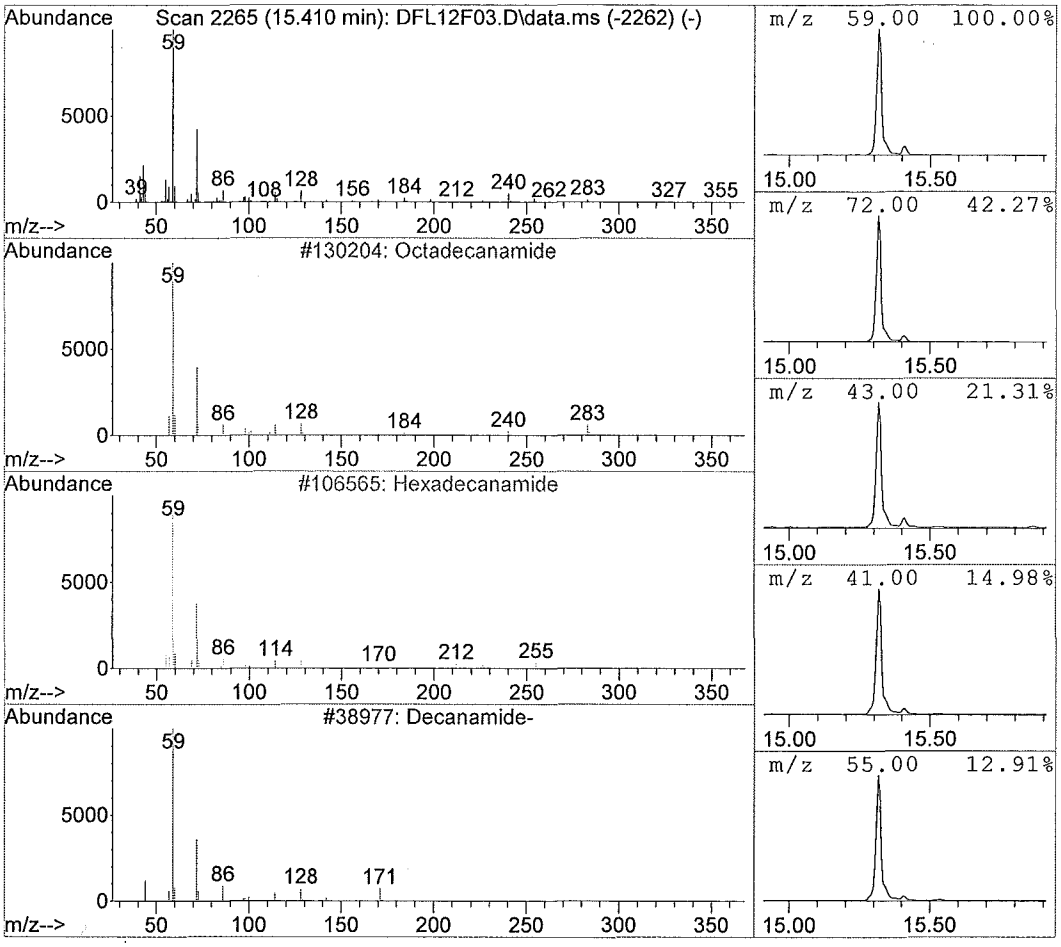
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.38 ug/ml	997494	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130204	000124-26-5	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Decanamide-	38977	002319-29-1	86.00
4	Tetradecanamide	83608	000638-58-4	78.00
5	Dodecanamide	60439	001120-16-7	78.00



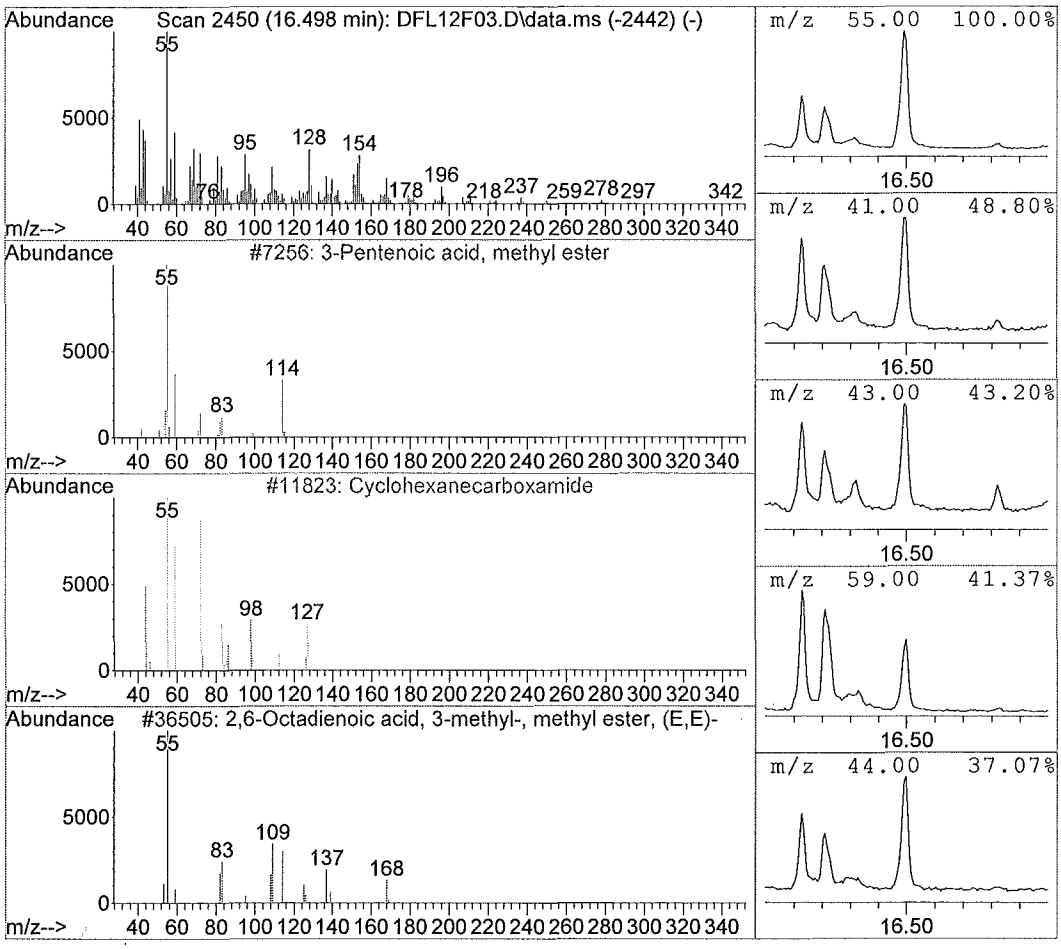
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.51 ug/ml	1474730	Chrysene-d12	8393413

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	Cyclohexanecarboxamide	11823	001122-56-1	14.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
4	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	9.00



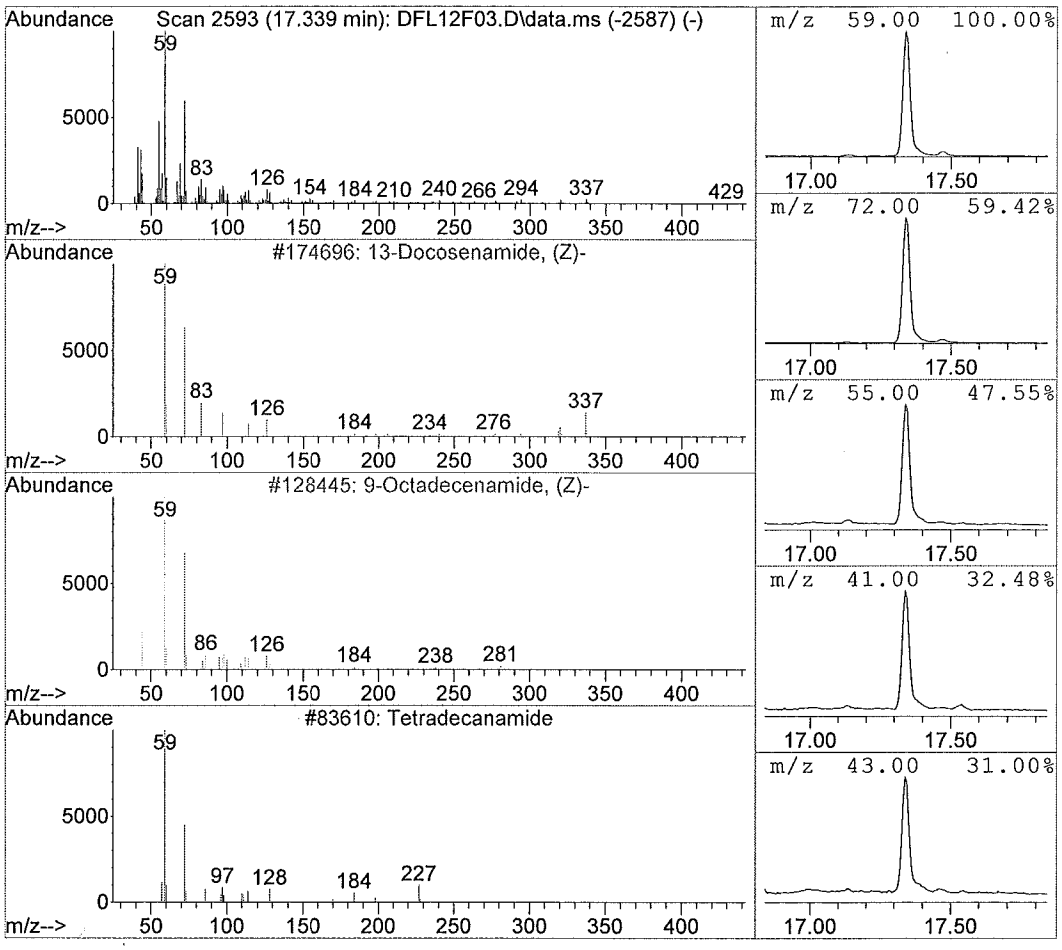
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	6.50 ug/ml	2592821	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	94.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Octadecanamide	130204	000124-26-5	59.00
5	7-Nonenamide	28131	090949-53-4	50.00



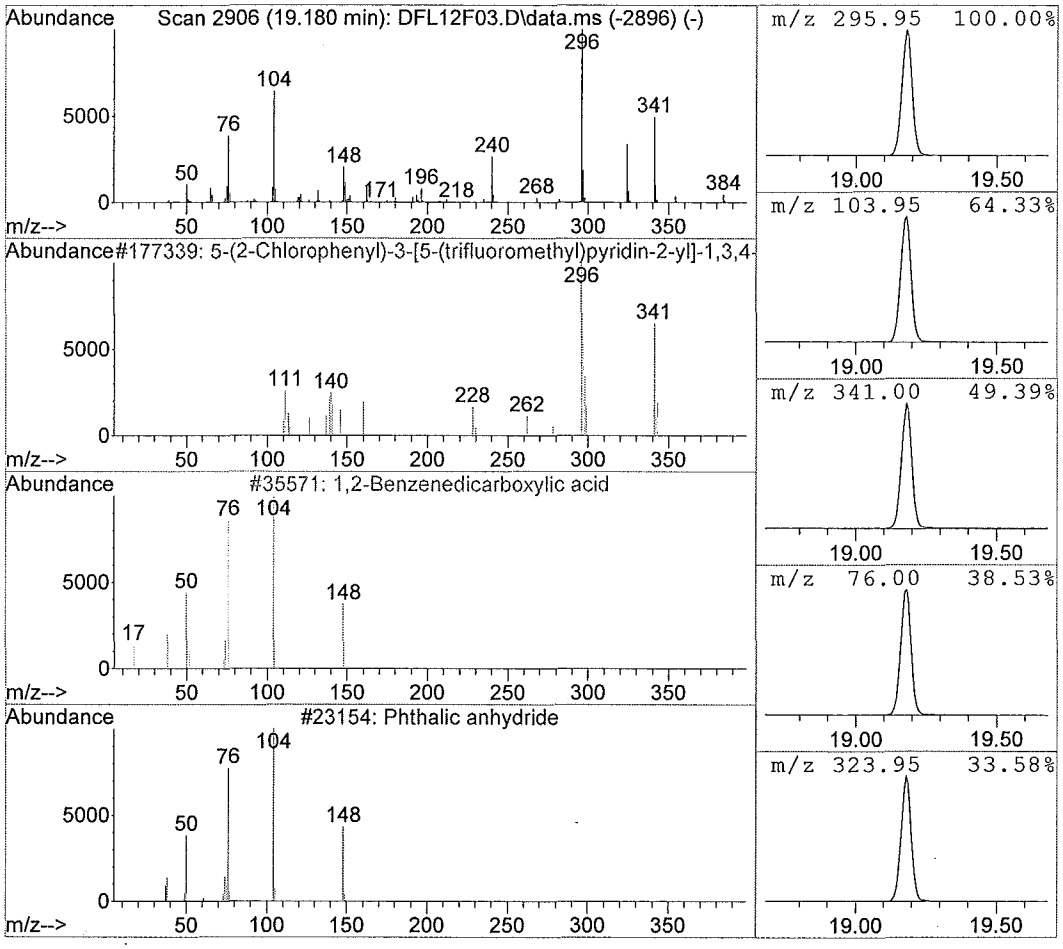
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	6.76 ug/ml	2694929	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00
2	1,2-Benzenedicarboxylic acid	35571	000088-99-3	12.00
3	Phthalic anhydride	23154	000085-44-9	12.00
4	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	12.00
5	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	10.00



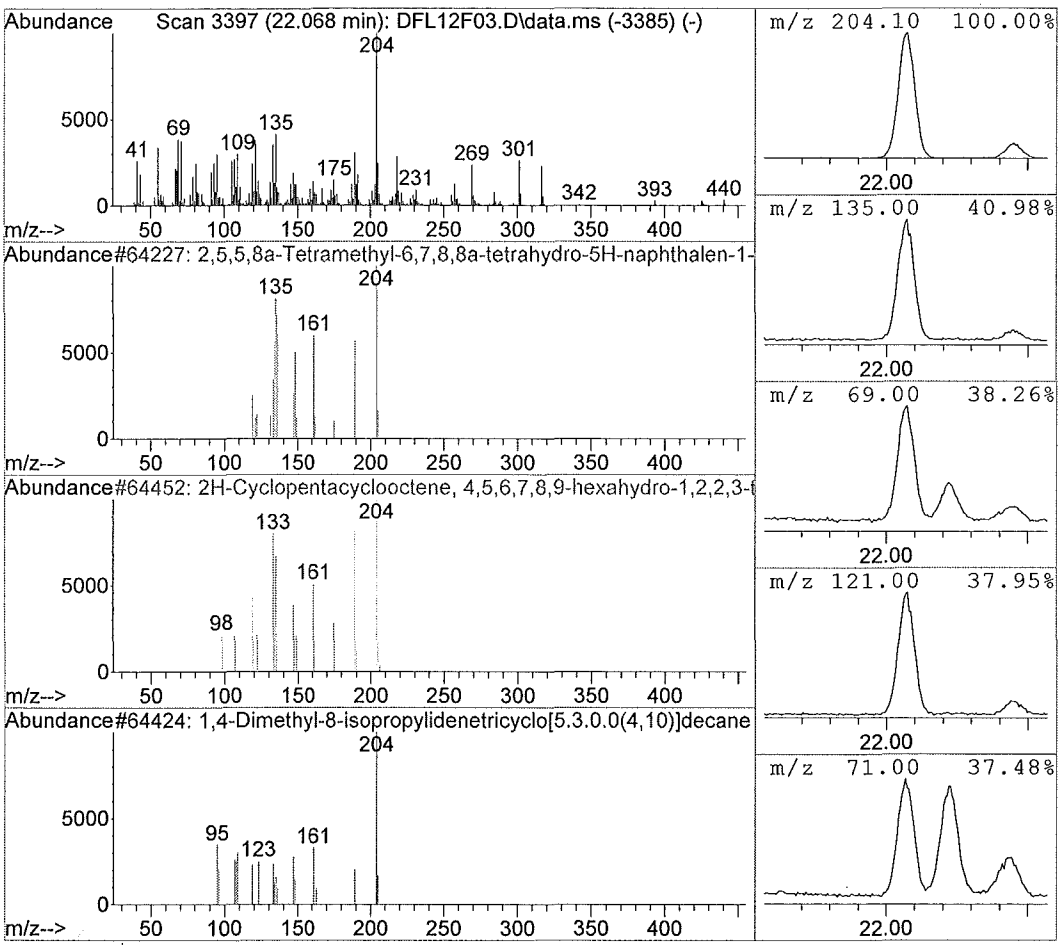
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	7.97 ug/ml	3177539	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	58.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	45.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	43.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	38.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	38.00



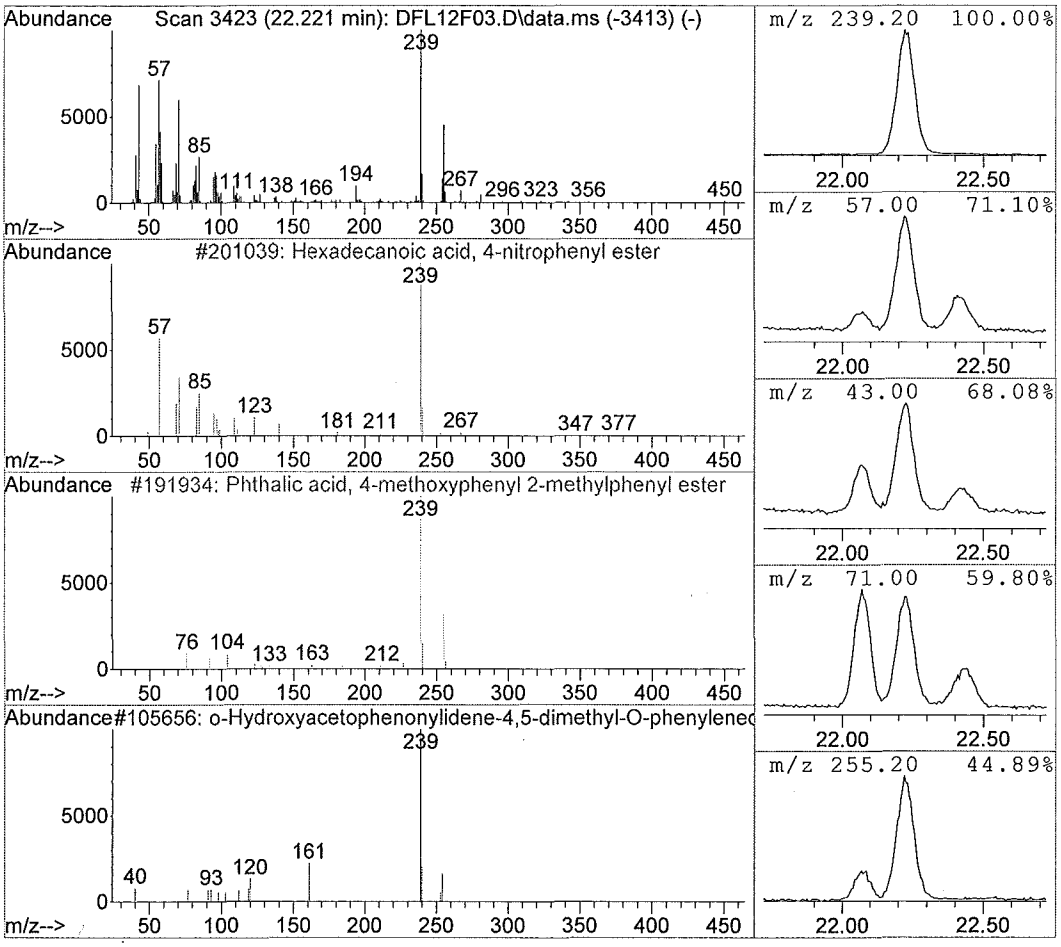
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	2.74 ug/ml	1093959	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	38.00
2	Phthalic acid, 4-methoxyphenyl 2-me	191934	1000315-59-5	35.00
3	o-Hydroxyacetophenonylidene-4,5-dim	105656	103133-80-8	22.00
4	Heptamethyl-3-phenyl-1,4-cyclohexad	105907	122531-52-6	16.00
5	Pyridine, 4-(5-phenyl-1,3,4-thiadia	93097	004291-07-0	14.00



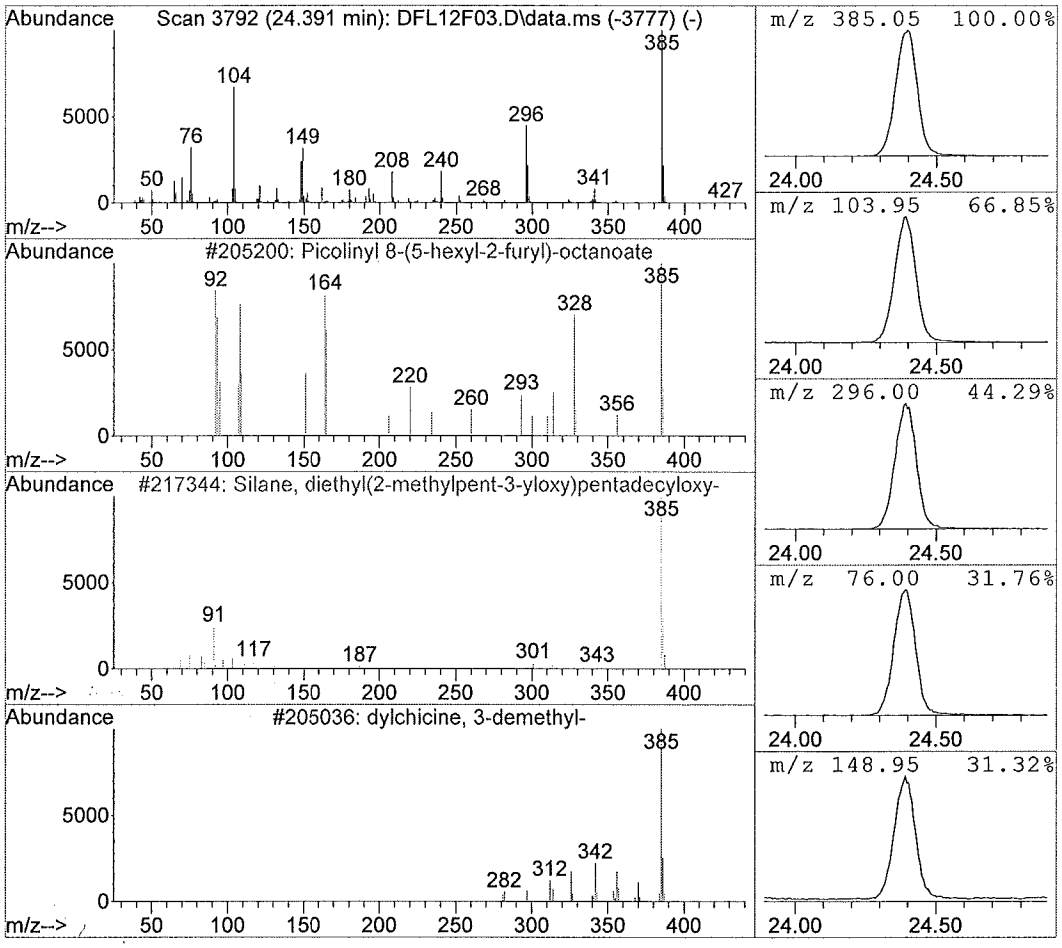
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL12F03.D Vial: 12
Acq On : 05/27/2015 15:00 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.39	8.19 ug/ml	3265895	Perylene-d12	7978178

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	30.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
3	dylchicine, 3-demethyl-	205036	007336-34-7	12.00
4	Silane, diethyl(2-hexyloxy)pentadec	217329	1000363-51-0	10.00
5	Silane, dimethylnonyloxytridecyloxy	212262	1000356-05-2	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCK03F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	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.: F9K77

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004
Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCK03F04
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015
GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	25.	J
129-00-0	Pyrene	27.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	18.	J
218-01-9	Chrysene	38.	J
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	35.	J
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	18.	J
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.

F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCK03F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.19	94.	JN
02	78-95-5	2-Propanone, 1-chloro-	2.27	120	JN
03		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.31	87.	J
04		Unknown 1,2-Ethanediol	2.36	370	J
05		Unknown 2H-Pyran, tetrahydro-2-methyl-	2.80	100	J
06		Unknown 4-Chloro-2-butanone	3.31	120	J
07		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6100	J
08		Unknown 1H-Pyrrole-2,5-dione	4.27	200	J
09		Unknown 2-Butanol, 3-methyl-	4.69	130	J
10		Unknown Isopentyloxyethyl acetate	4.98	95.	J
11		Unknown Butanoic acid, 2-propenyl ester	9.66	110	J
12		Unknown Phthalic acid, isobutyl undecyl ester	11.94	310	J
13	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	89.	JN
14	57-10-3	n-Hexadecanoic acid	12.66	250	JN
15	1120-16-7	Dodecanamide	12.77	90.	JN
16	26528-50-7	8-Octadecenoic acid, methyl ester, (E)-	13.68	110	JN
17	1120-16-7	Dodecanamide	14.15	290	JN
18	301-02-0	9-Octadecenamide, (Z)-	15.08	2100	JN
19		Unknown Tetradecanamide	15.17	88.	J
20	112-84-5	13-Docosenamide, (Z)-	16.99	210	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	140	J

[2] EPA-designated Registry Number.

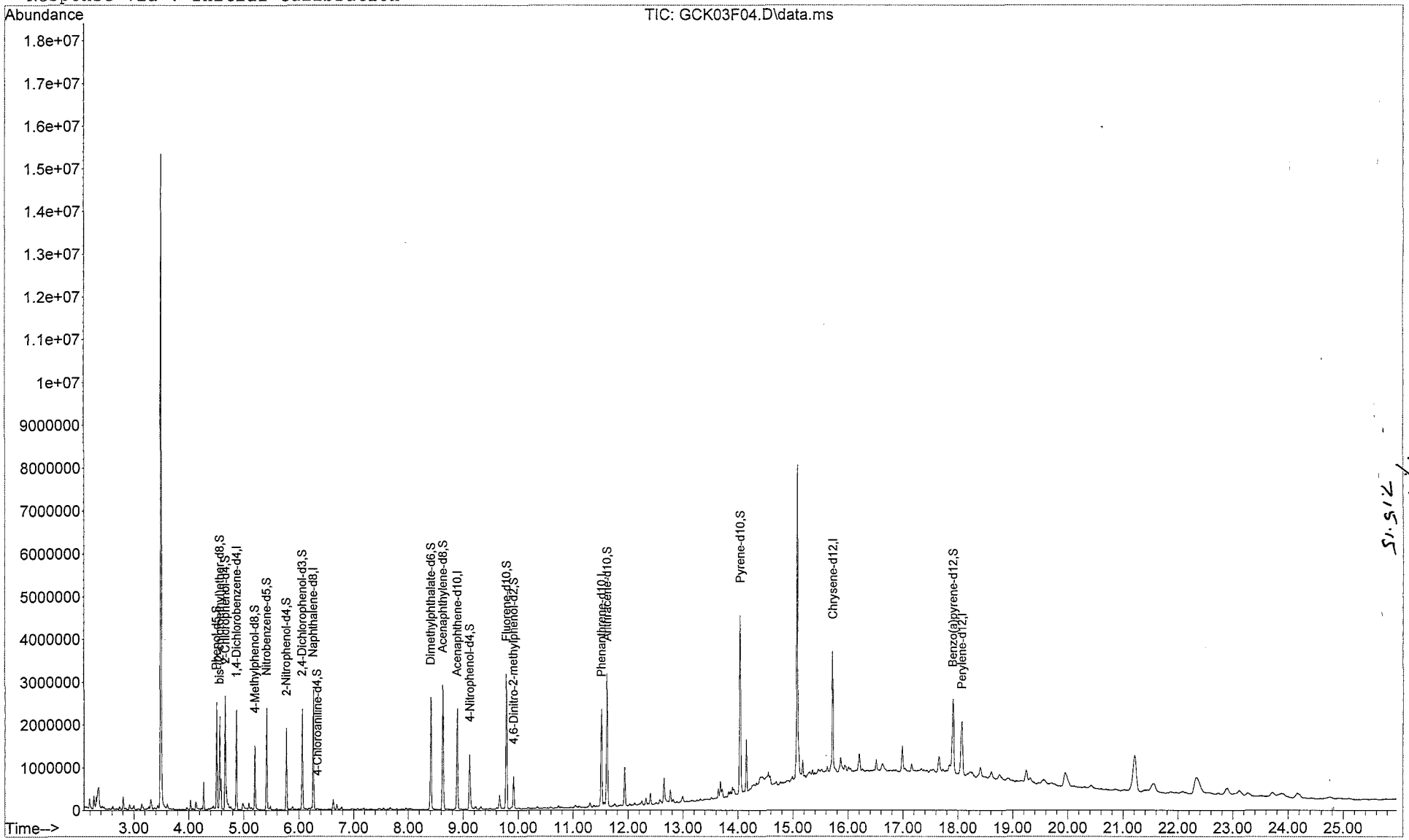
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:54:15 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration



7.15.15

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:54:15 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	348861	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1306777	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	762895	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1272423	20.00 ug/ml
73) Chrysene-d12	15.72	240	1194583	20.00 ug/ml
81) Perylene-d12	18.07	264	950562	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.50	99	749963	24.703ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	525544	22.214ug/mL
7) 2-Chlorophenol-d4	4.66	132	654452	25.532ug/ml
13) 4-Methylphenol-d8	5.20	113	317558	15.639ug/mL
17) Nitrobenzene-d5	5.42	128	284178	24.755ug/ml
21) 2-Nitrophenol-d4	5.77	143	309487	25.506ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	504972	26.726ug/mL
28) 4-Chloroaniline-d4	6.33	131	13004	0.631ug/mL
42) Dimethylphthalate-d6	8.41	166	1396884	29.200ug/mL
45) Acenaphthylene-d8	8.63	160	1762553	27.111ug/mL
50) 4-Nitrophenol-d4	9.12	143	281562	28.851ug/mL
57) Fluorene-d10	9.79	176	1181209	28.913ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	127639	14.133ug/mL
69) Anthracene-d10	11.62	188	1849246	27.406ug/mL
75) Pyrene-d10	14.04	212	1757110	29.474ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1236492	27.147ug/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)

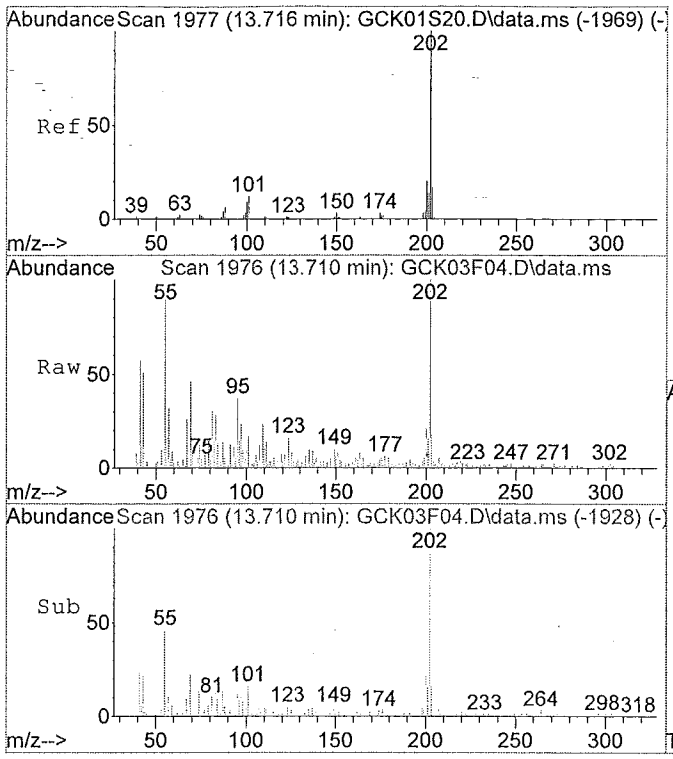
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:54:15 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 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	13.71	202	47167	0.631ug/ml	97
74) Pyrene	14.06	202	53269	0.701ug/ml	81
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.71	228	34074	0.470ug/ml	84
79) Chrysene	15.75	228	62984	0.962ug/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	17.33	252	53544	0.899ug/ml	95
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	17.96	252	26450	0.472ug/ml	91
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	

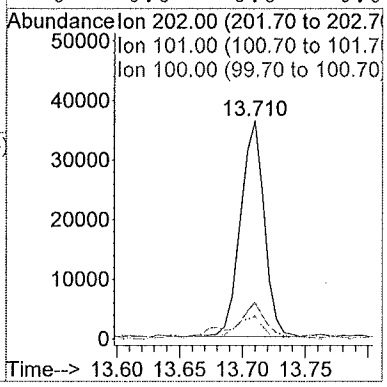
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

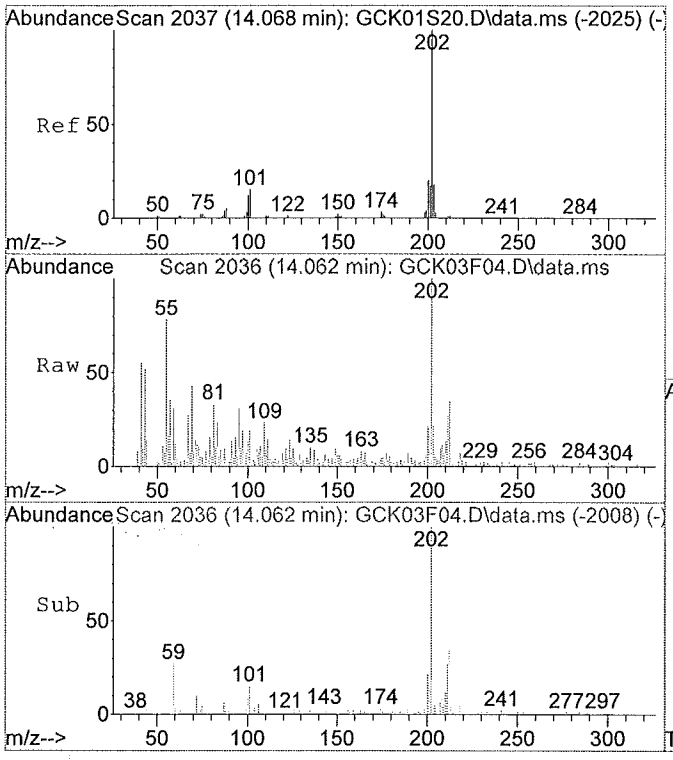


#72
Fluoranthene
Concen: 0.63 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCK03F04.D
Acq: 07/02/2015 11:56

Tgt Ion:202 Resp: 47167

Ion	Ratio	Lower	Upper
202	100		
101	14.6	10.5	19.5
100	12.6	7.4	13.8
0	0.0	0.0	0.0

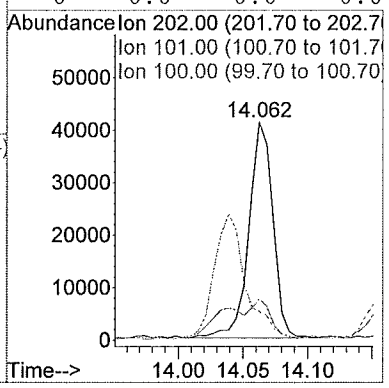


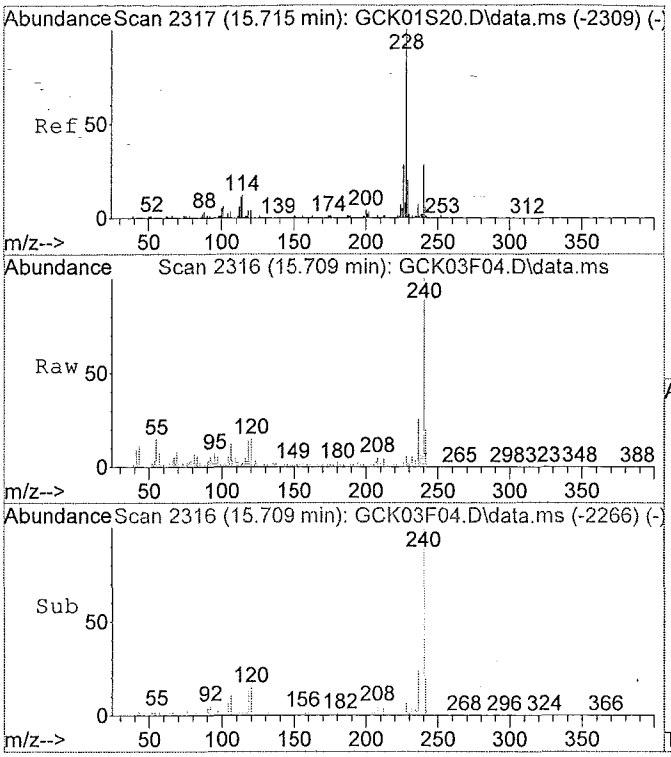


#74
Pyrene
Concen: 0.70 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCK03F04.D
Acq: 07/02/2015 11:56

Tgt Ion:202 Resp: 53269

Ion	Ratio	Lower	Upper
202	100		
101	14.6	12.2	22.7
100	0.0	10.1	18.7#
0	0.0	0.0	0.0

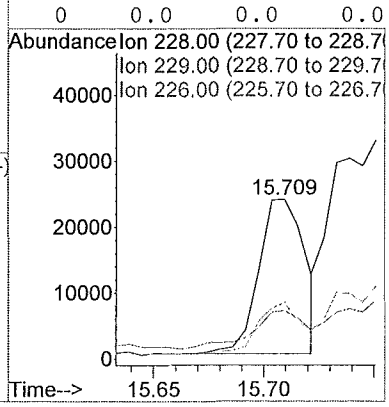


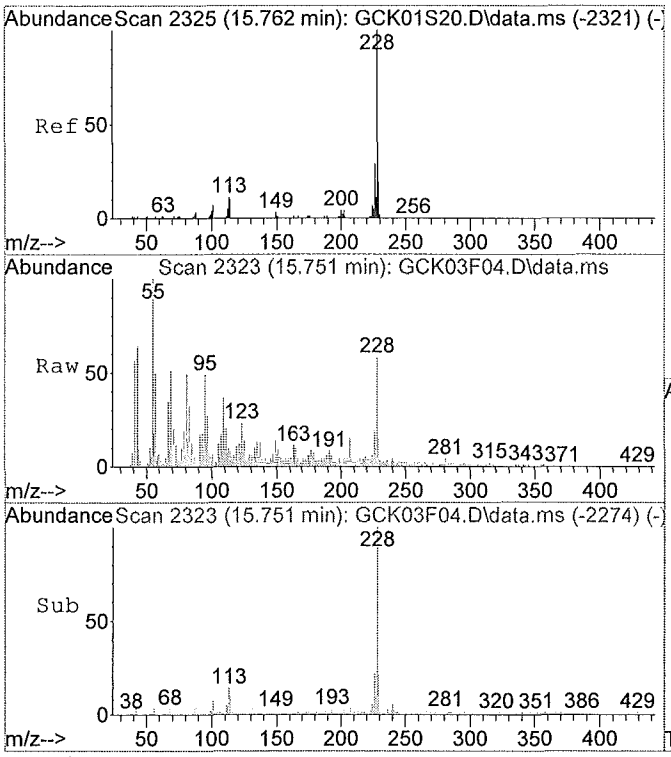


#78
Benzo(a)anthracene
Concen: 0.47 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCK03F04.D
Acq: 07/02/2015 11:56

Tgt Ion:228 Resp: 34074

Ion	Ratio	Lower	Upper
228	100		
229	27.8	13.7	25.5#
226	32.9	18.2	33.8
0	0.0	0.0	0.0

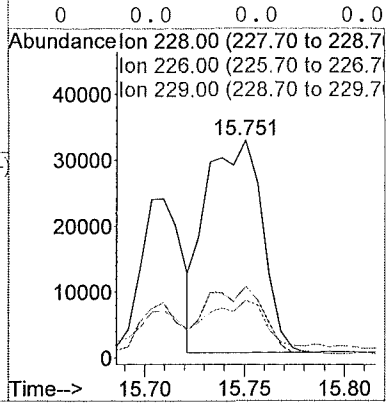


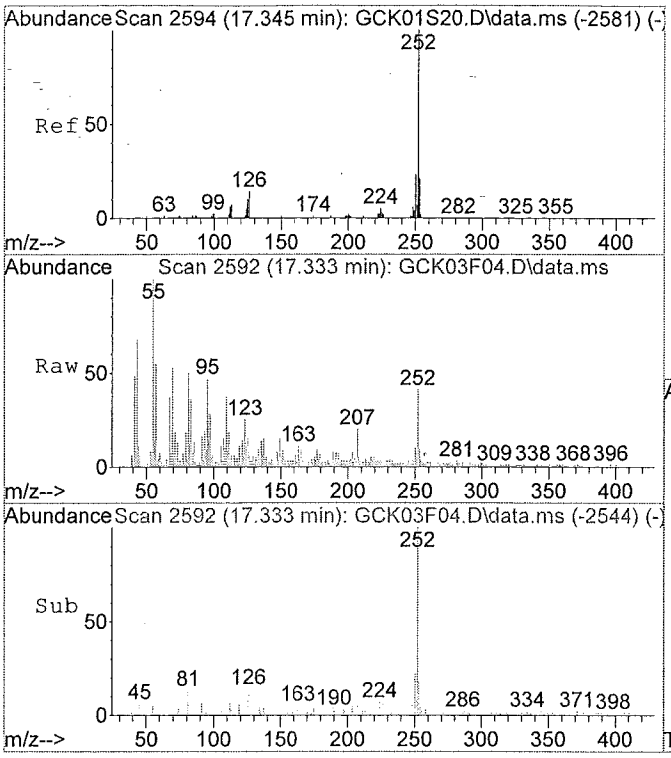


#79
Chrysene
Concen: 0.96 ug/ml
RT: 15.75 min Scan# 2323
Delta R.T. -0.01 min
Lab File: GCK03F04.D
Acq: 07/02/2015 11:56

Tgt Ion:228 Resp: 62984

Ion	Ratio	Lower	Upper
228	100		
226	32.8	20.1	37.3
229	20.7	13.7	25.5
0	0.0	0.0	0.0

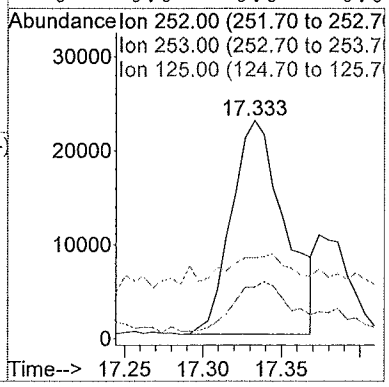


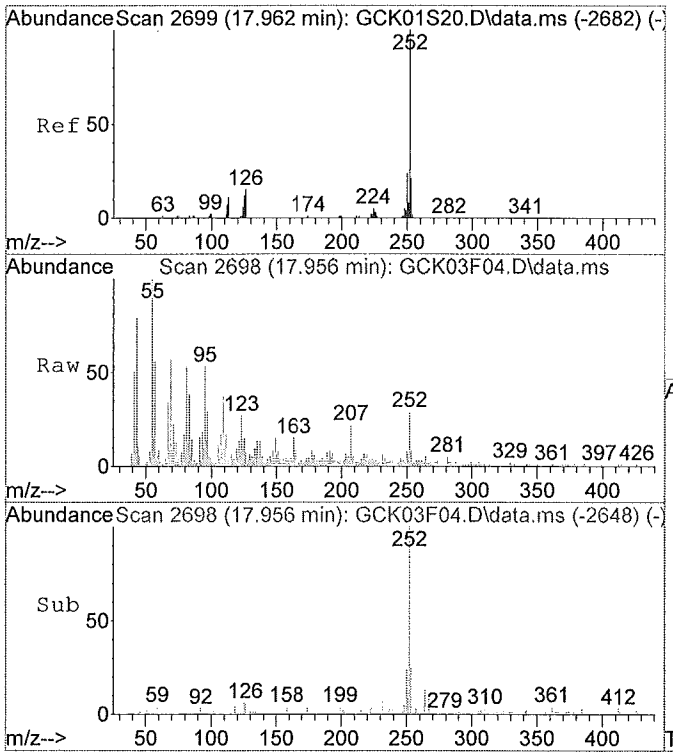


#83
Benzo(b)fluoranthene
Concen: 0.90 ug/ml
RT: 17.33 min Scan# 2592
Delta R.T. -0.01 min
Lab File: GCK03F04.D
Acq: 07/02/2015 11:56

Tgt Ion:252 Resp: 53544

Ion	Ratio	Lower	Upper
252	100		
253	23.7	15.1	28.1
125	13.1	10.6	19.8
0	0.0	0.0	0.0

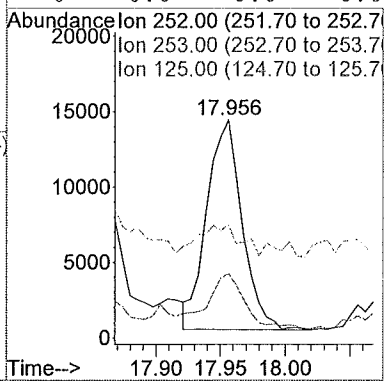




#85
Benzo(a)pyrene
Concen: 0.47 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.01 min
Lab File: GCK03F04.D
Acq: 07/02/2015 11:56

Tgt Ion:252 Resp: 26450

Ion	Ratio	Lower	Upper
252	100		
253	28.5	15.2	28.2#
125	17.8	11.8	21.8
0	0.0	0.0	0.0



Library Search Compound Report

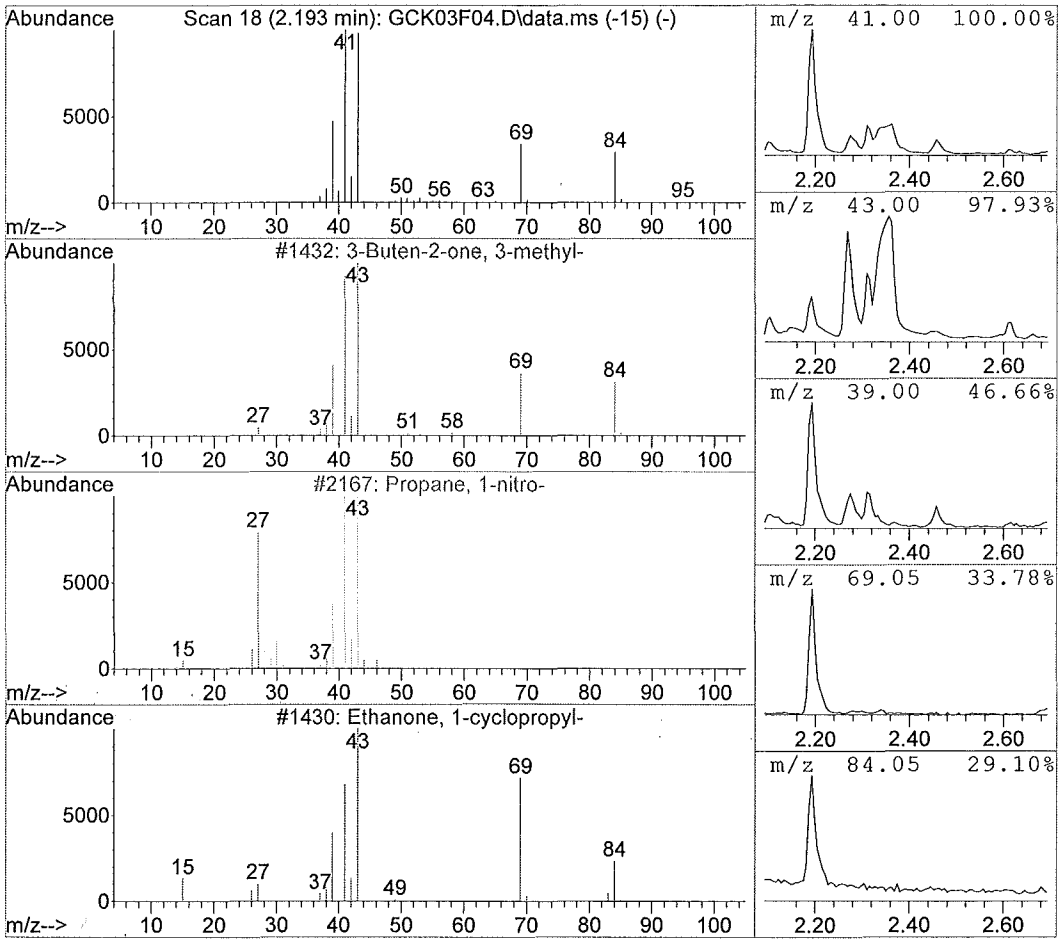
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.19	2.42 ug/ml	294773	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Propane, 1-nitro-	2167	000108-03-2	45.00
3	Ethanone, 1-cyclopropyl-	1430	000765-43-5	45.00
4	3-Penten-2-one	1397	000625-33-2	25.00
5	Butane, 1-isocyano-	1294	002769-64-4	17.00



Library Search Compound Report

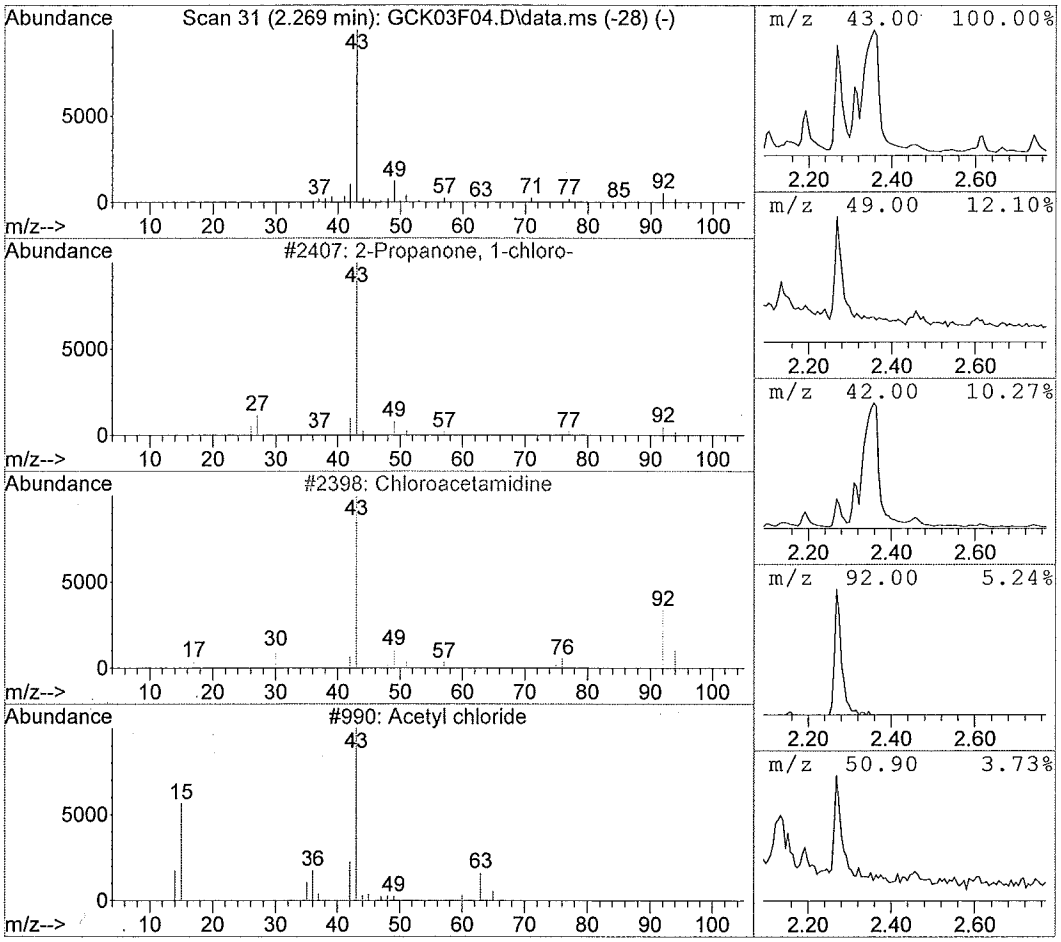
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.27	3.16 ug/ml	384987	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	47.00
3	Acetyl chloride	990	000075-36-5	4.00
4	Ethyl Chloride	352	000075-00-3	4.00
5	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	4.00



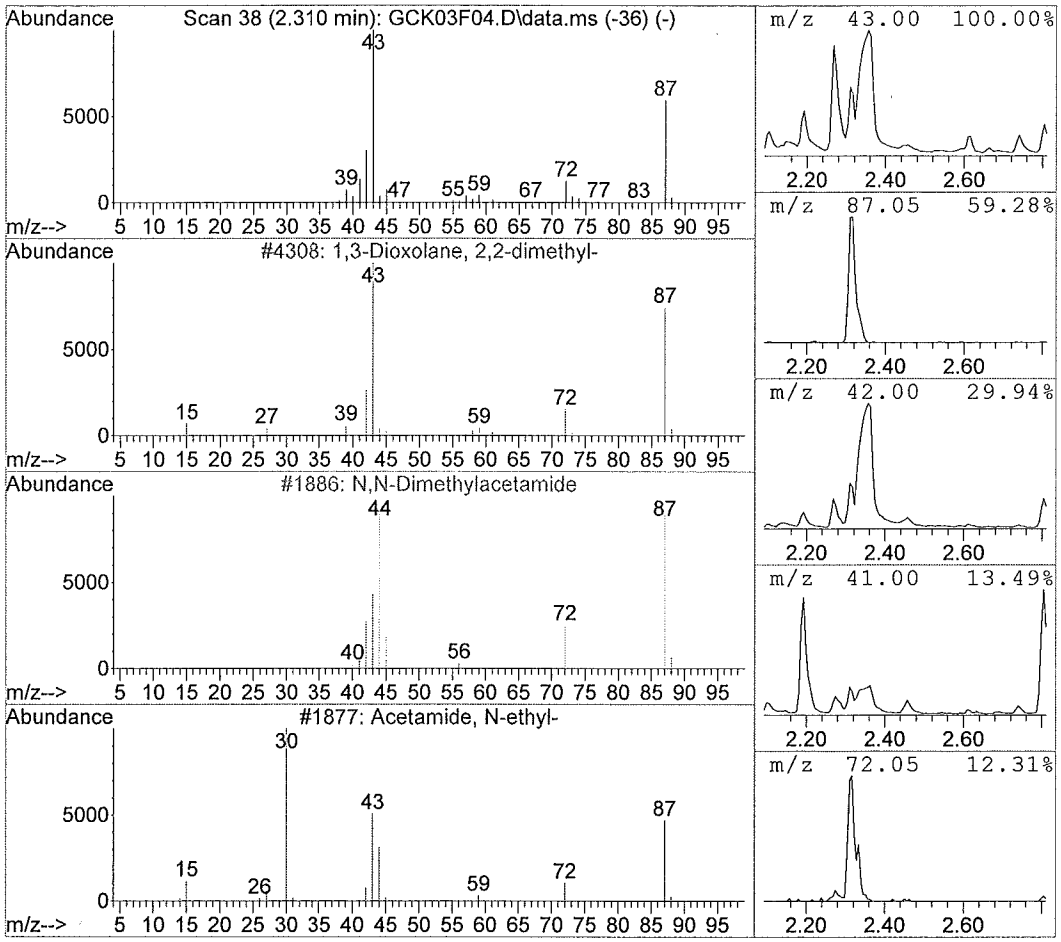
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.31	2.24 ug/ml	272521	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	78.00
2	N,N-Dimethylacetamide	1886	000127-19-5	38.00
3	Acetamide, N-ethyl-	1877	000625-50-3	33.00
4	Oxazolidin-2-one	1845	000497-25-6	32.00
5	Isobutane	237	000075-28-5	16.00



Library Search Compound Report

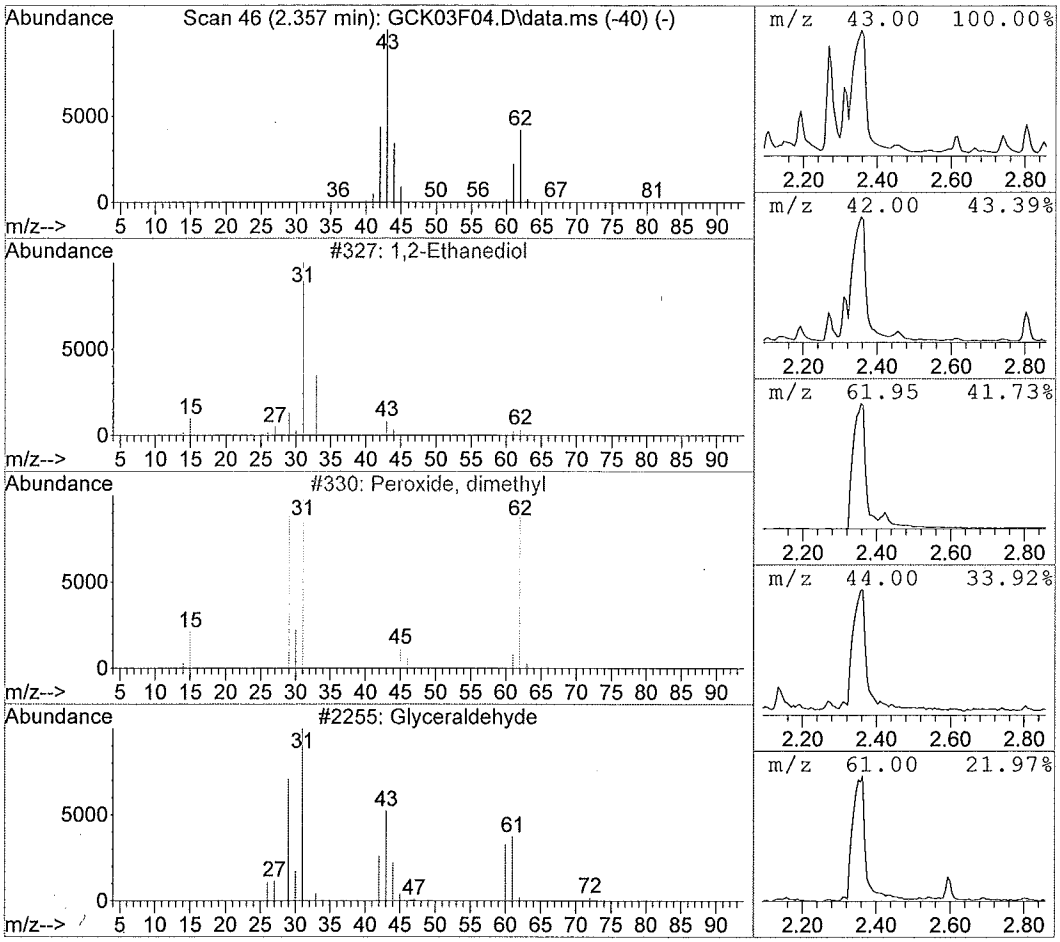
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.36	9.41 ug/ml	1146060	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	327	000107-21-1	7.00
2	Peroxide, dimethyl	330	000690-02-8	5.00
3	Glyceraldehyde	2255	000056-82-6	4.00
4	Monoethanolamine	306	000141-43-5	3.00
5	Acetic acid, anhydride with formic	1955	002258-42-6	2.00



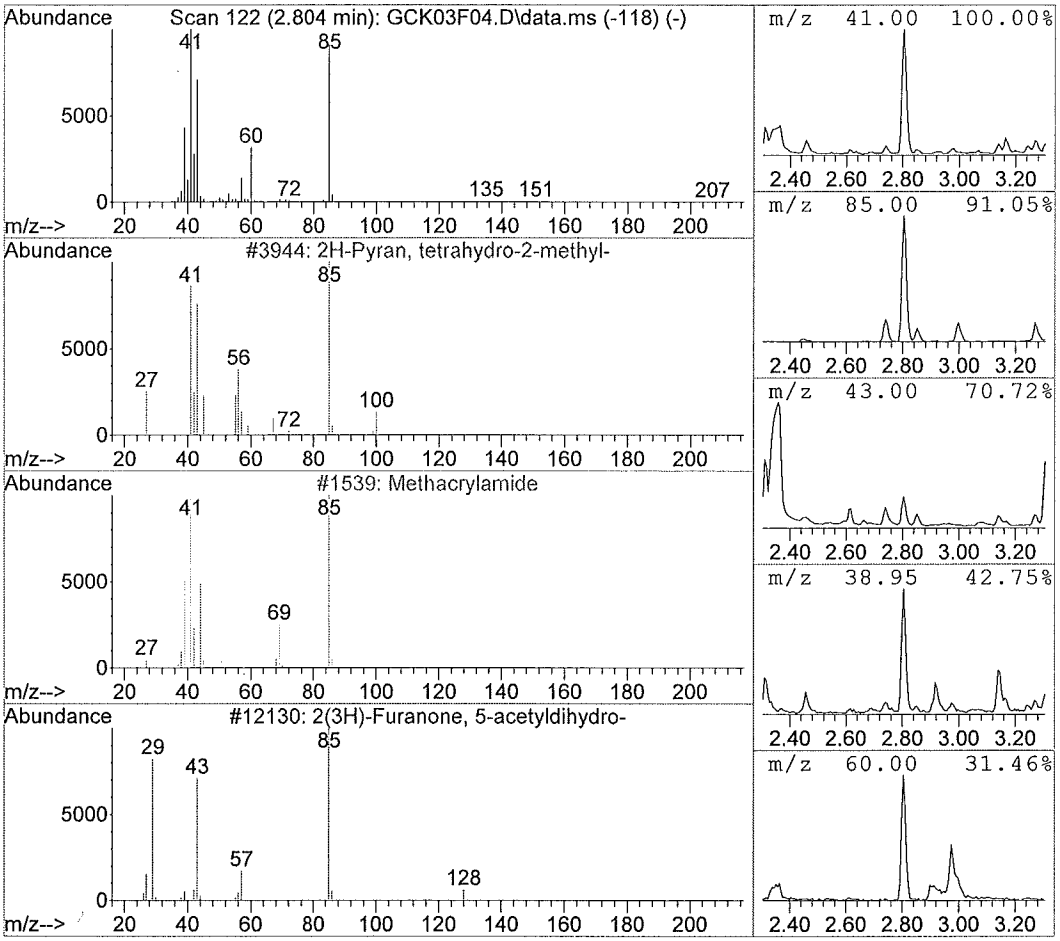
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	2.62 ug/ml	318601	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran, tetrahydro-2-methyl-	3944	010141-72-7	40.00
2	Methacrylamide	1539	000079-39-0	36.00
3	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	23.00
4	Thiazole	1535	000288-47-1	17.00
5	2,2'-Bi-2H-pyran, octahydro-	37957	016282-29-4	17.00



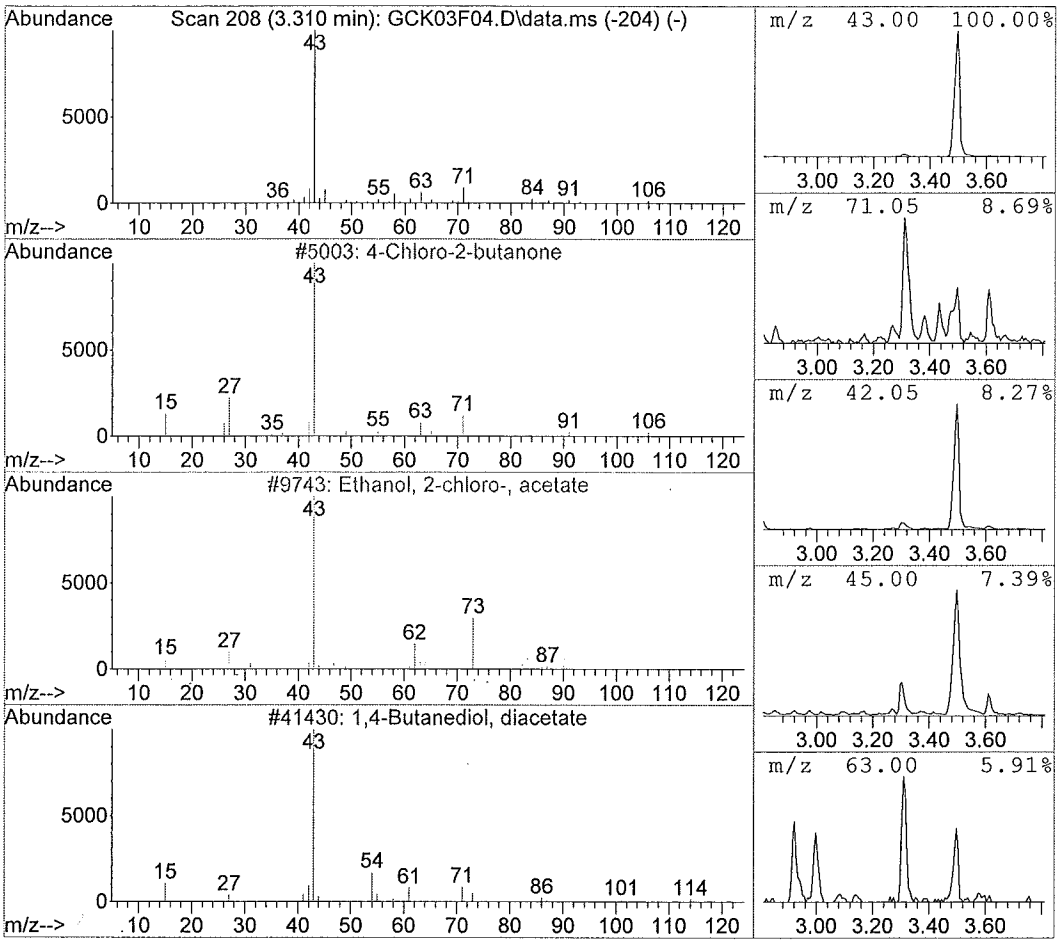
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	3.00 ug/ml	365000	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	35.00
2	Ethanol, 2-chloro-, acetate	9743	000542-58-5	28.00
3	1,4-Butanediol, diacetate	41430	000628-67-1	9.00
4	Hydroxylamine, O-(2-methylpropyl)-	2220	005618-62-2	7.00
5	Pyrrolidine	607	000123-75-1	7.00



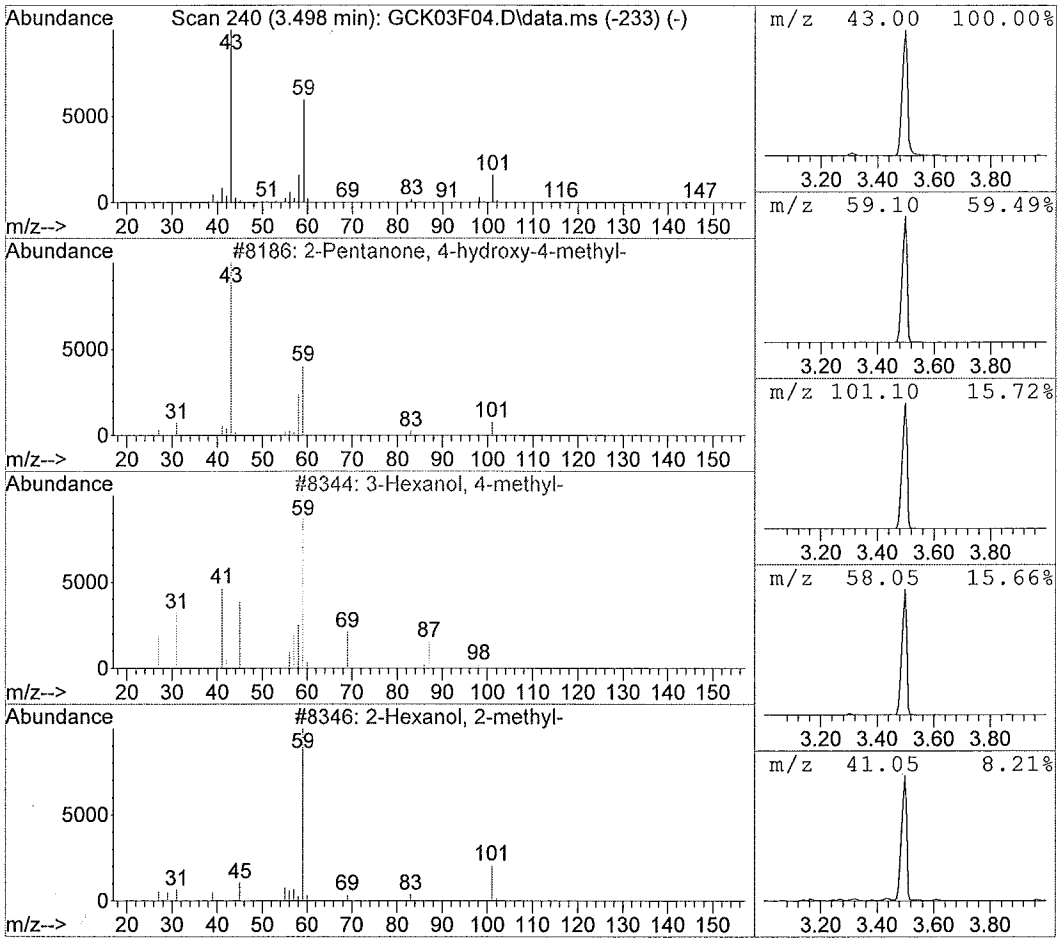
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	155.14 ug/ml	18886473	1,4-Dichlorobenzene-d4	2434833

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	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



Library Search Compound Report

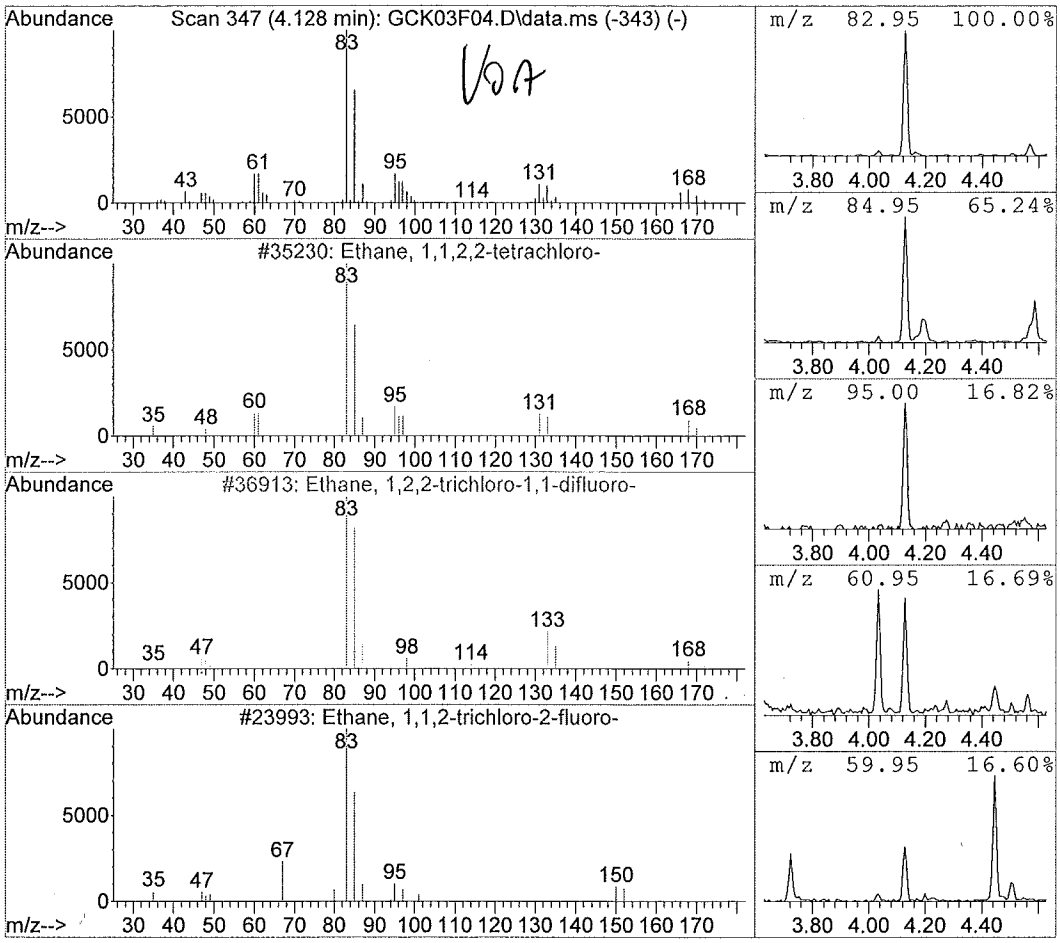
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.14 ug/ml	260657	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	70.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	45.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00



Library Search Compound Report

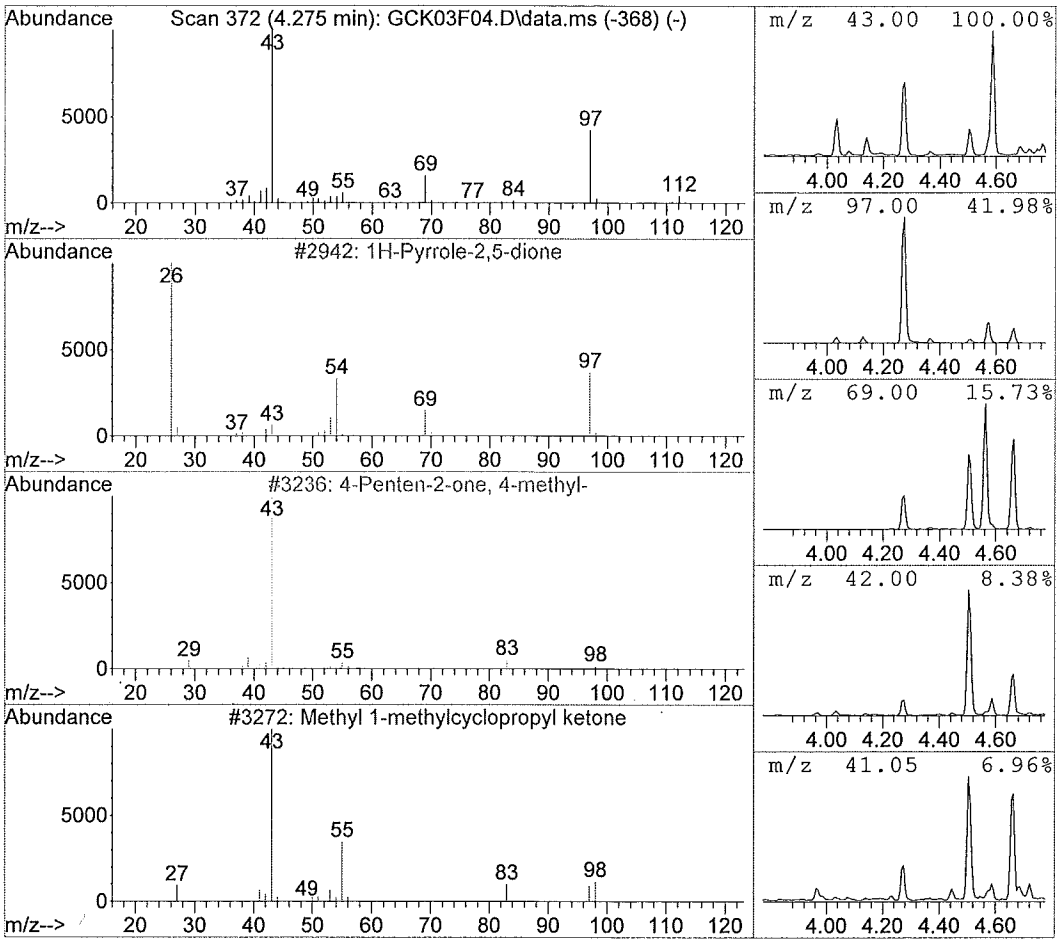
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	5.12 ug/ml	623651	1,4-Dichlorobenzene-d4	2434833

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	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
5	1-Butene-1,4-diol, diacetate	40122	054484-67-2	9.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

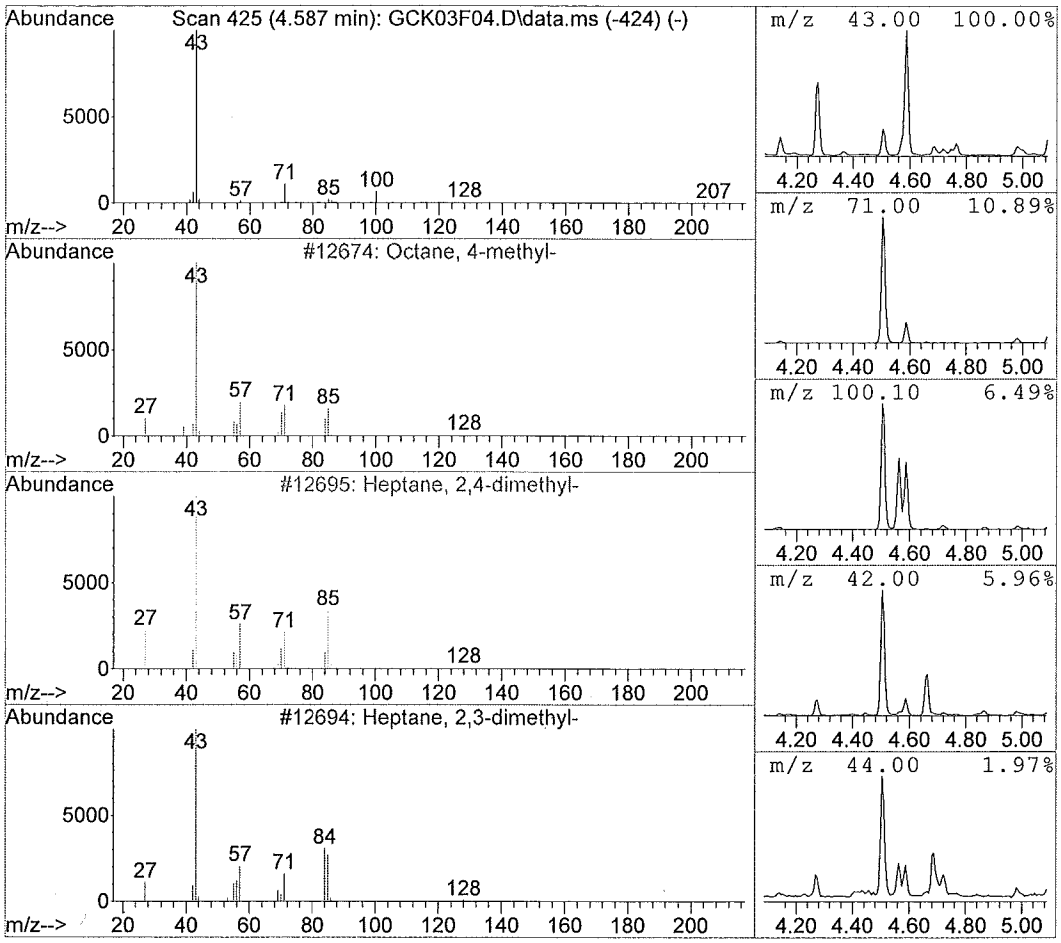
Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.49 ug/ml	425240	1,4-Dichlorobenzene-d4	2434833

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

BA



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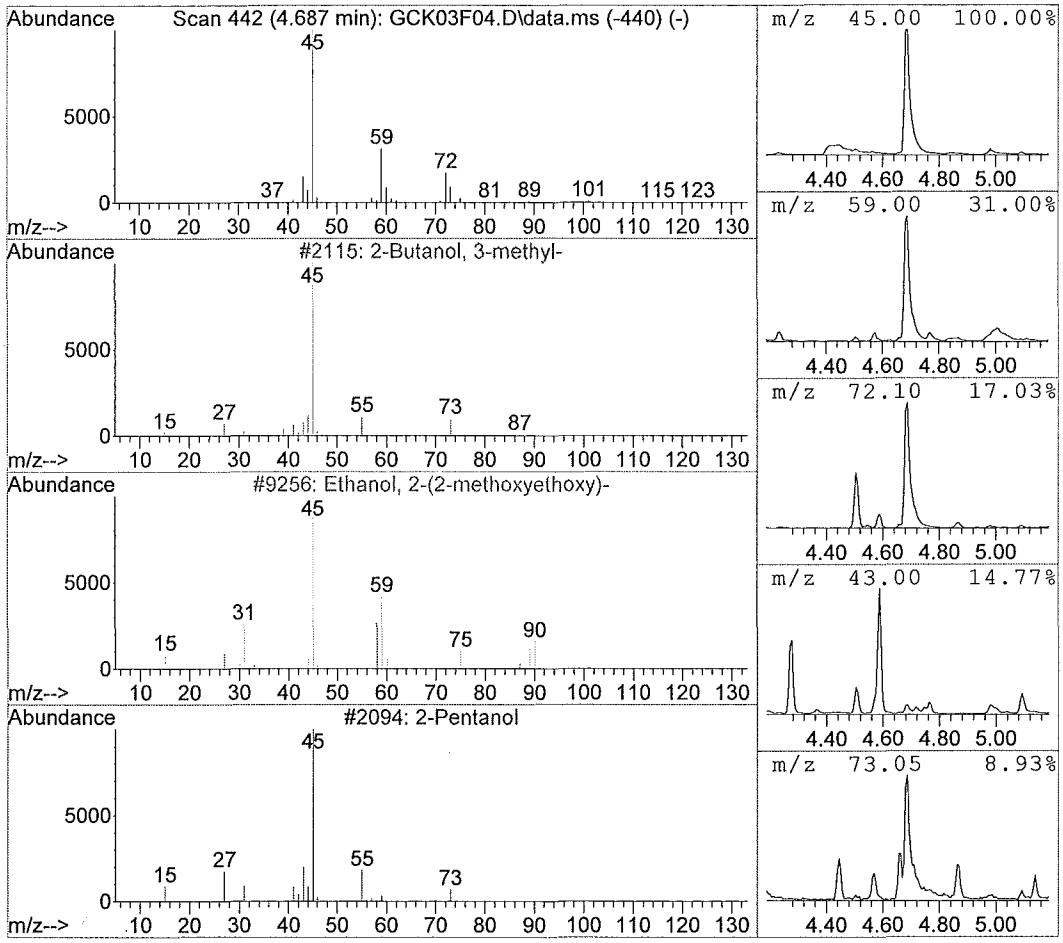
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	3.37 ug/ml	410244	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Butanol, 3-methyl-	2115	000598-75-4	50.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	2-Pentanol	2094	006032-29-7	36.00
4	2-Methoxyisopropyl cyanoacetate	29350	032804-79-8	36.00
5	Methoxyacetic acid, butyl ester	21952	017640-22-1	33.00



Library Search Compound Report

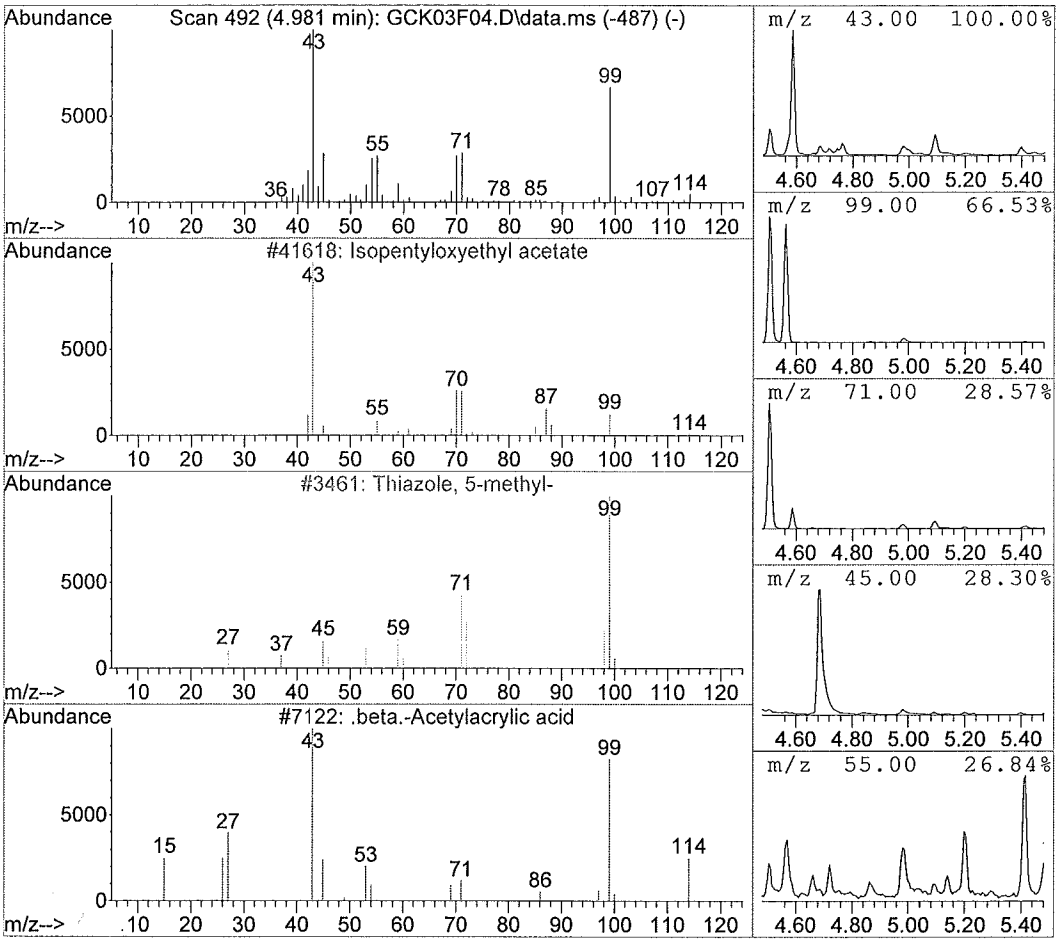
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.44 ug/ml	296458	1,4-Dichlorobenzene-d4	2434833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isopentyloxyethyl acetate	41618	204652-53-9	47.00
2	Thiazole, 5-methyl-	3461	003581-89-3	47.00
3	.beta.-Acetylacrylic acid	7122	004743-82-2	43.00
4	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	38.00
5	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	37.00



Library Search Compound Report

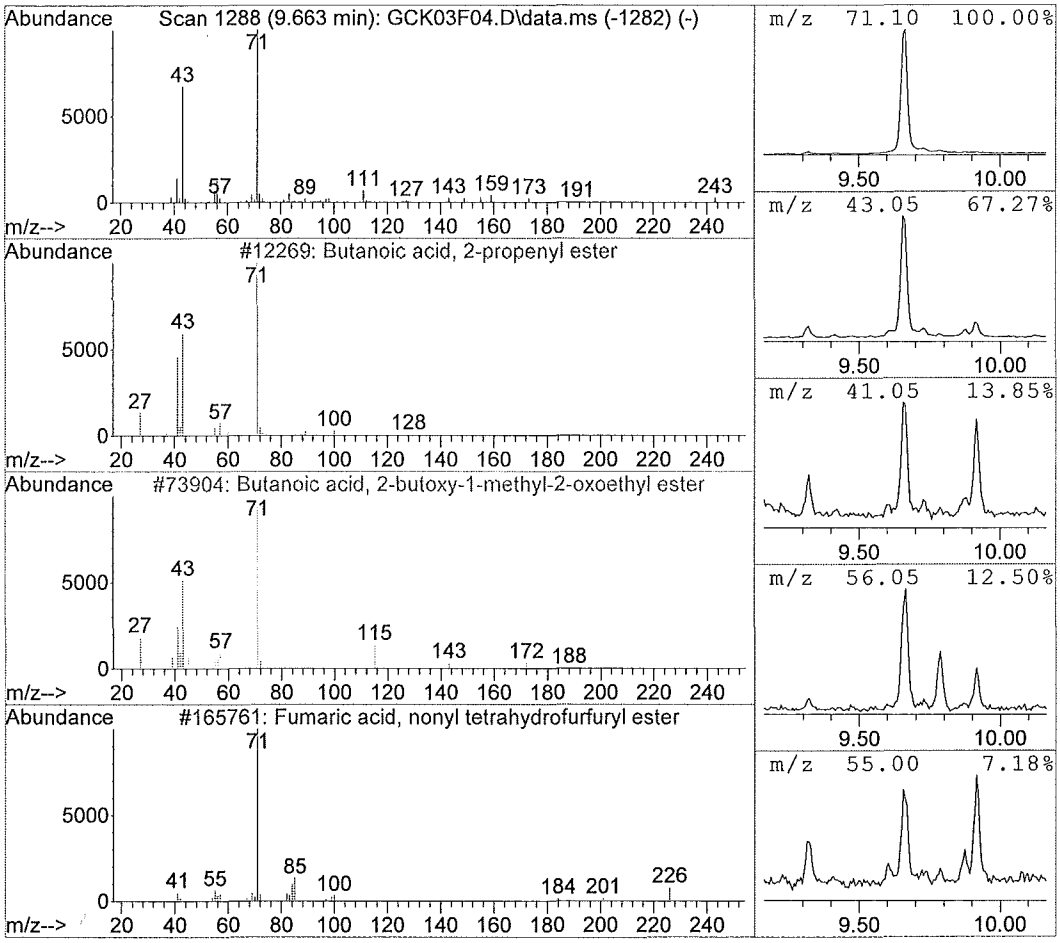
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.79 ug/ml	452603	Acenaphthene-d10	3243351

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 2-propenyl ester	12269	002051-78-7	53.00
2	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	50.00
3	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	45.00
4	3-Methyl-hepta-1,6-dien-3-ol	11422	034780-69-3	45.00
5	Butane, 2-iodo-3-methyl-	59962	018295-27-7	45.00



Library Search Compound Report

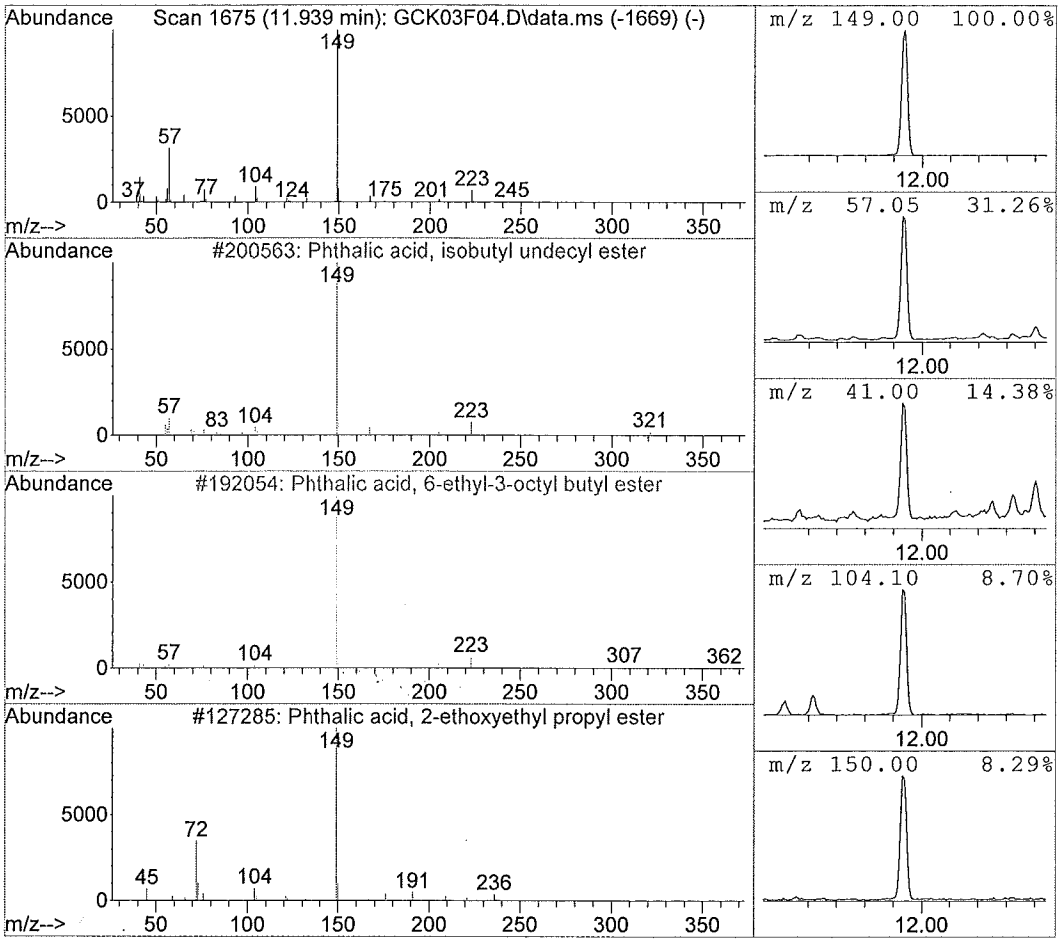
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.94	7.91 ug/ml	1310505	Phenanthrene-d10	3315024

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, isobutyl undecyl est	200563	1000308-97-3	83.00
2	Phthalic acid, 6-ethyl-3-octyl buty	192054	1000315-17-4	83.00
3	Phthalic acid, 2-ethoxyethyl propyl	127285	1000322-87-0	78.00
4	Phthalic acid, decyl isobutyl ester	191978	1000308-94-2	78.00
5	Phthalic acid, hexyl propyl ester	137727	1000309-00-3	72.00



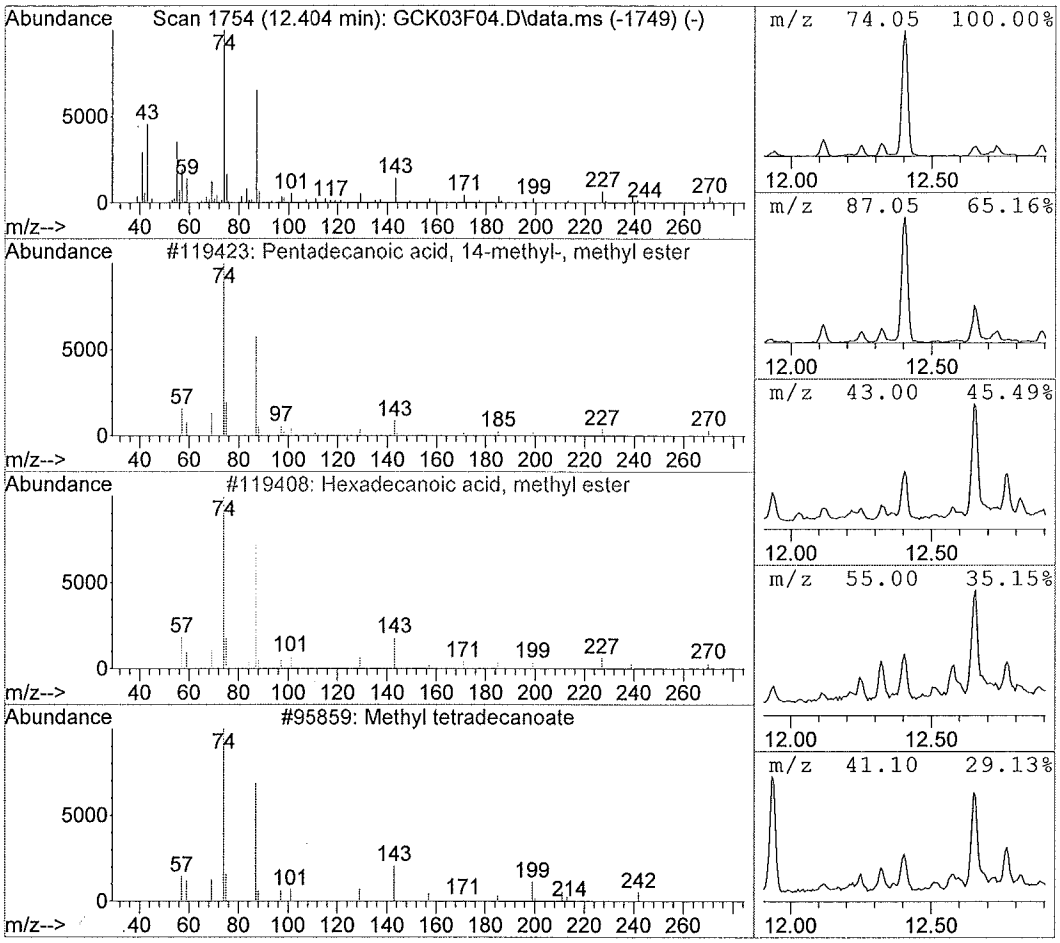
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.28 ug/ml	378078	Phenanthrene-d10	3315024

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	95.00
2	Hexadecanoic acid, methyl ester	119408	000112-39-0	94.00
3	Methyl tetradecanoate	95859	000124-10-7	93.00
4	Tridecanoic acid, methyl ester	84483	001731-88-0	90.00
5	Dodecanoic acid, methyl ester	72688	000111-82-0	90.00



Library Search Compound Report

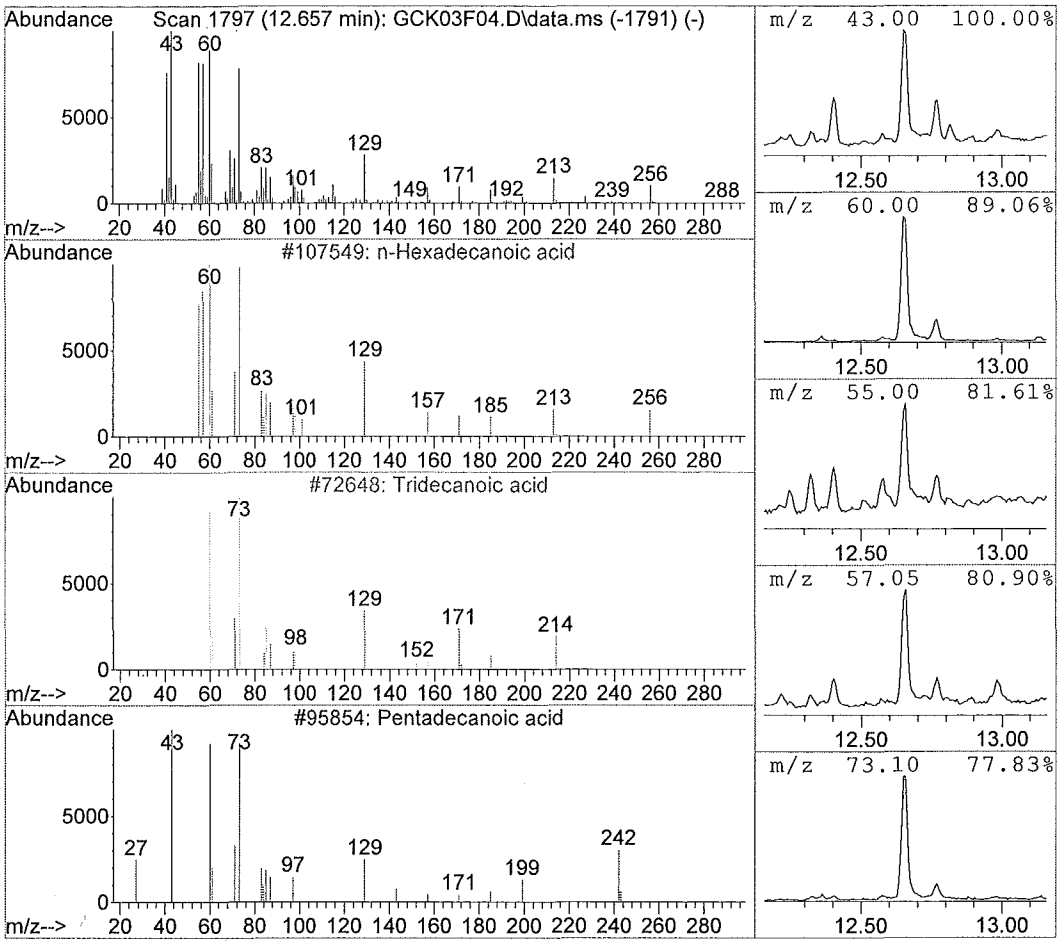
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	6.29 ug/ml	1041842	Phenanthrene-d10	3315024

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72648	000638-53-9	64.00
3	Pentadecanoic acid	95854	001002-84-2	64.00
4	Undecanoic acid	50052	000112-37-8	53.00
5	Dodecanoic acid	61117	000143-07-7	53.00



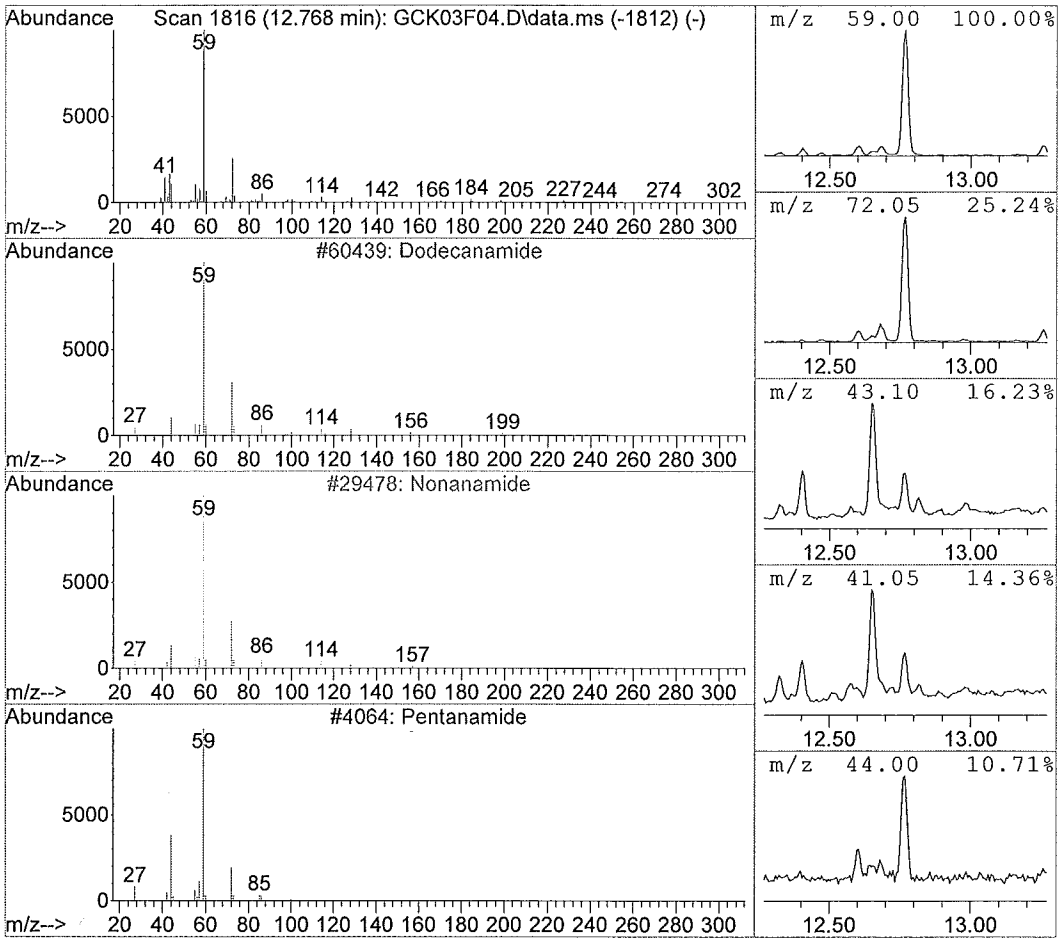
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.30 ug/ml	380429	Phenanthrene-d10	3315024

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	94.00
2	Nonanamide	29478	001120-07-6	83.00
3	Pentanamide	4064	000626-97-1	80.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
5	Tetradecanamide	83608	000638-58-4	64.00



Library Search Compound Report

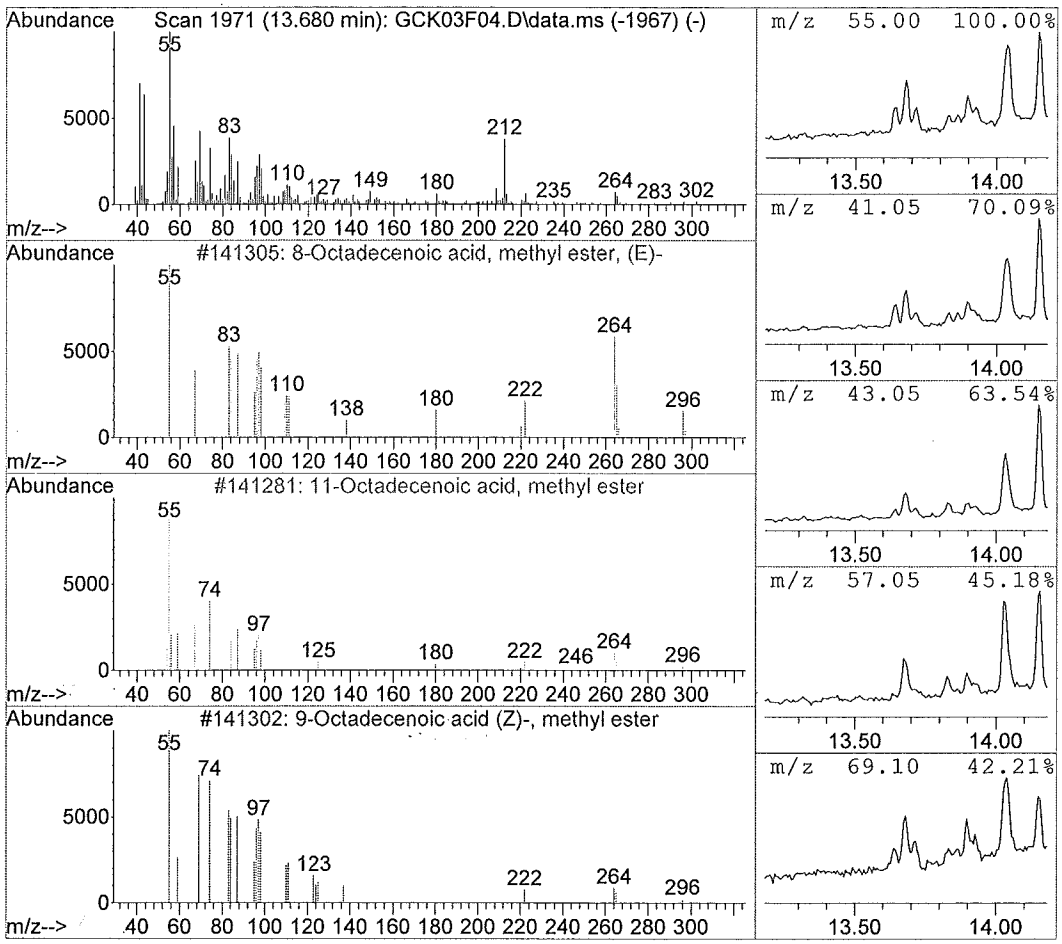
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.78 ug/ml	542673	Chrysene-d12	3911146

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	8-Octadecenoic acid, methyl ester,	141305	026528-50-7	98.00
2	11-Octadecenoic acid, methyl ester	141281	052380-33-3	95.00
3	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	93.00
4	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	91.00
5	13-Octadecenoic acid, methyl ester	141286	056554-47-3	86.00



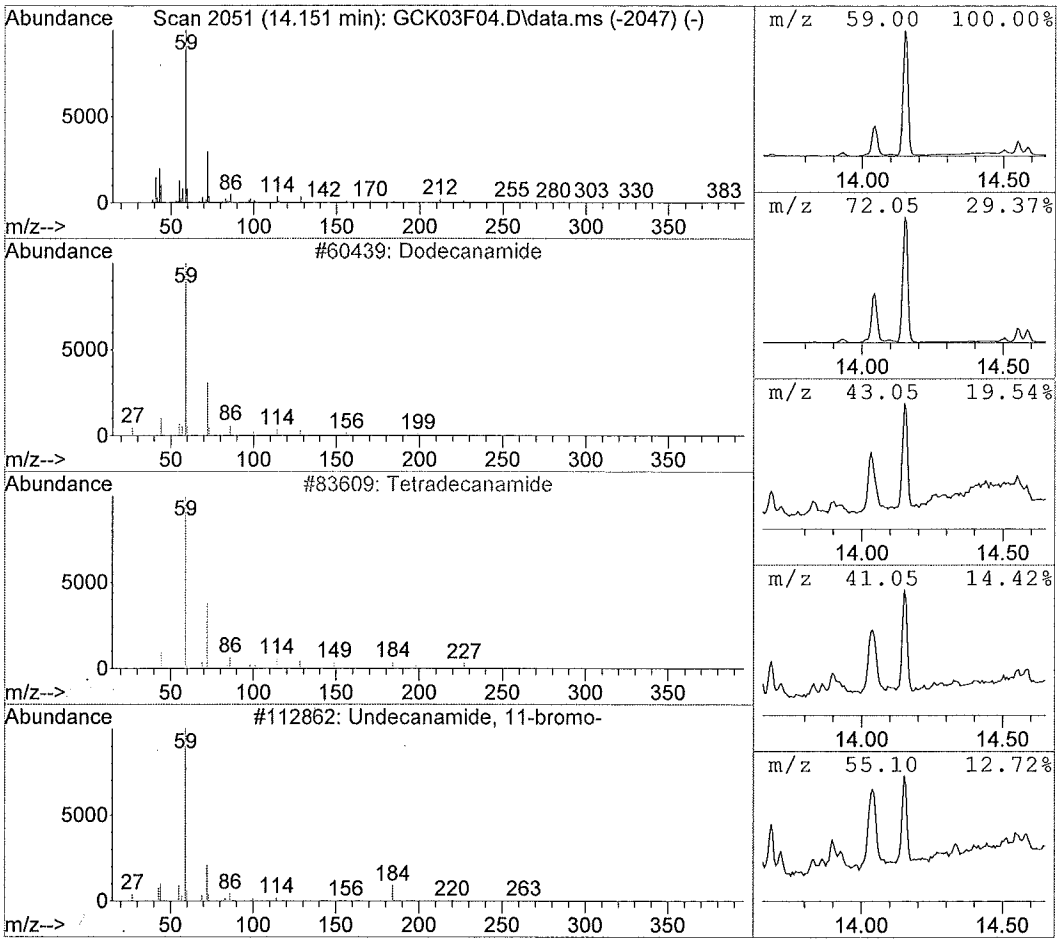
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.39 ug/ml	1445600	Chrysene-d12	3911146

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	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Decanamide-	38977	002319-29-1	64.00



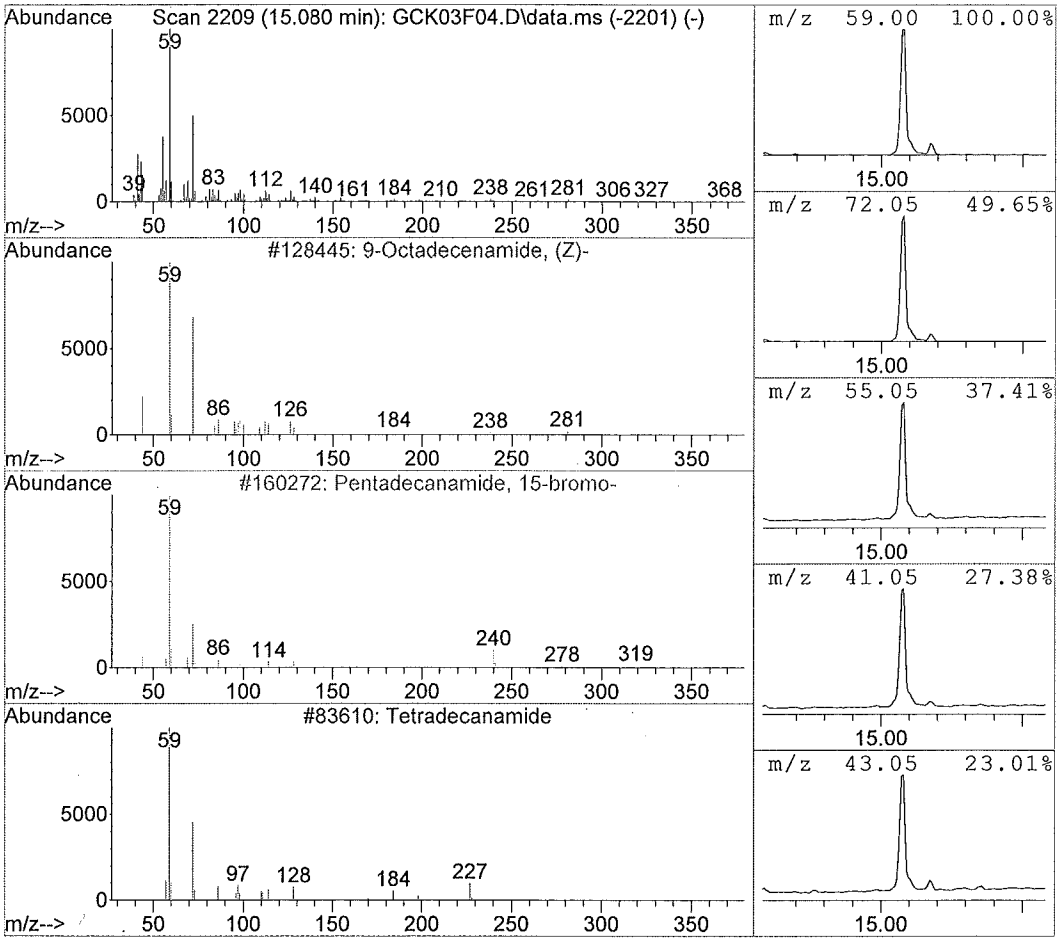
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	53.65 ug/ml	10491234	Chrysene-d12	3911146

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	83610	000638-58-4	72.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Octanamide	20317	000629-01-6	56.00



Library Search Compound Report

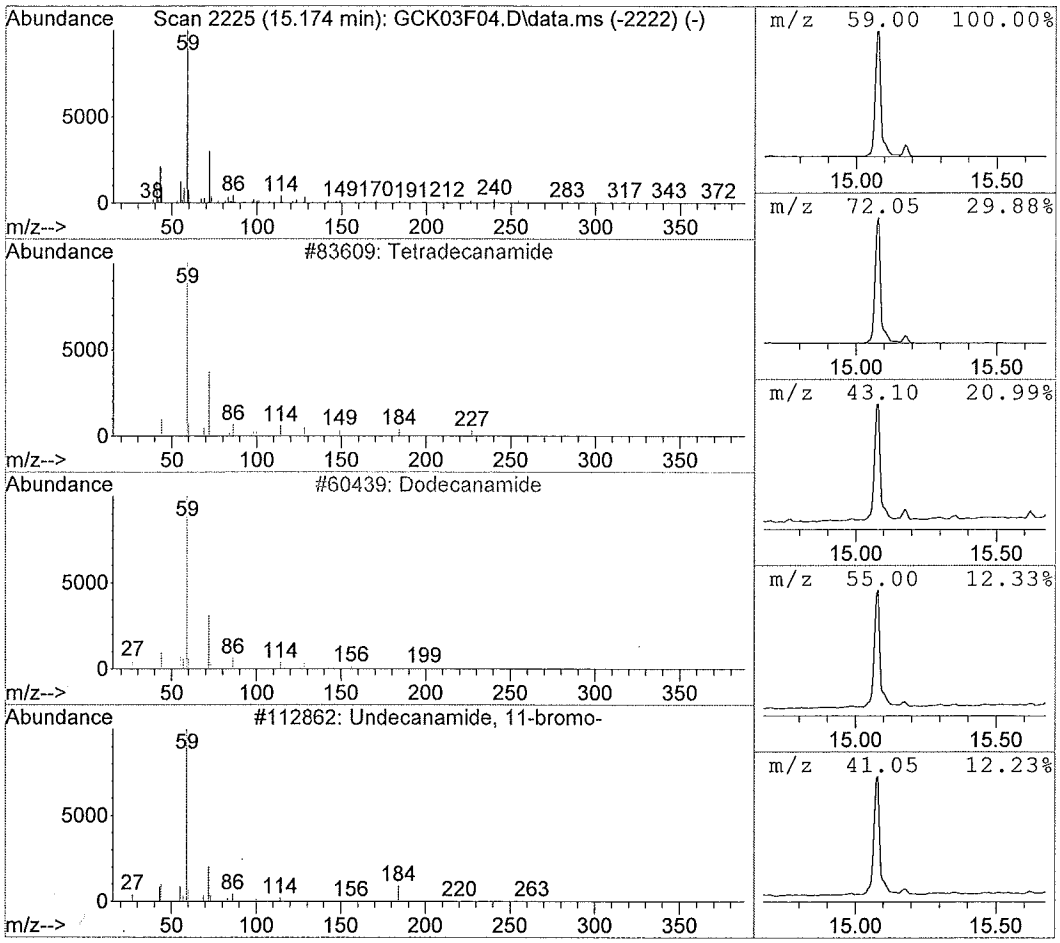
Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D
Acq On : 07/02/2015 11:56
Sample : 1514052004 F9K77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.25 ug/ml	439784	Chrysene-d12	3911146

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	78.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	64.00
4	Pentanamide	4063	000626-97-1	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00



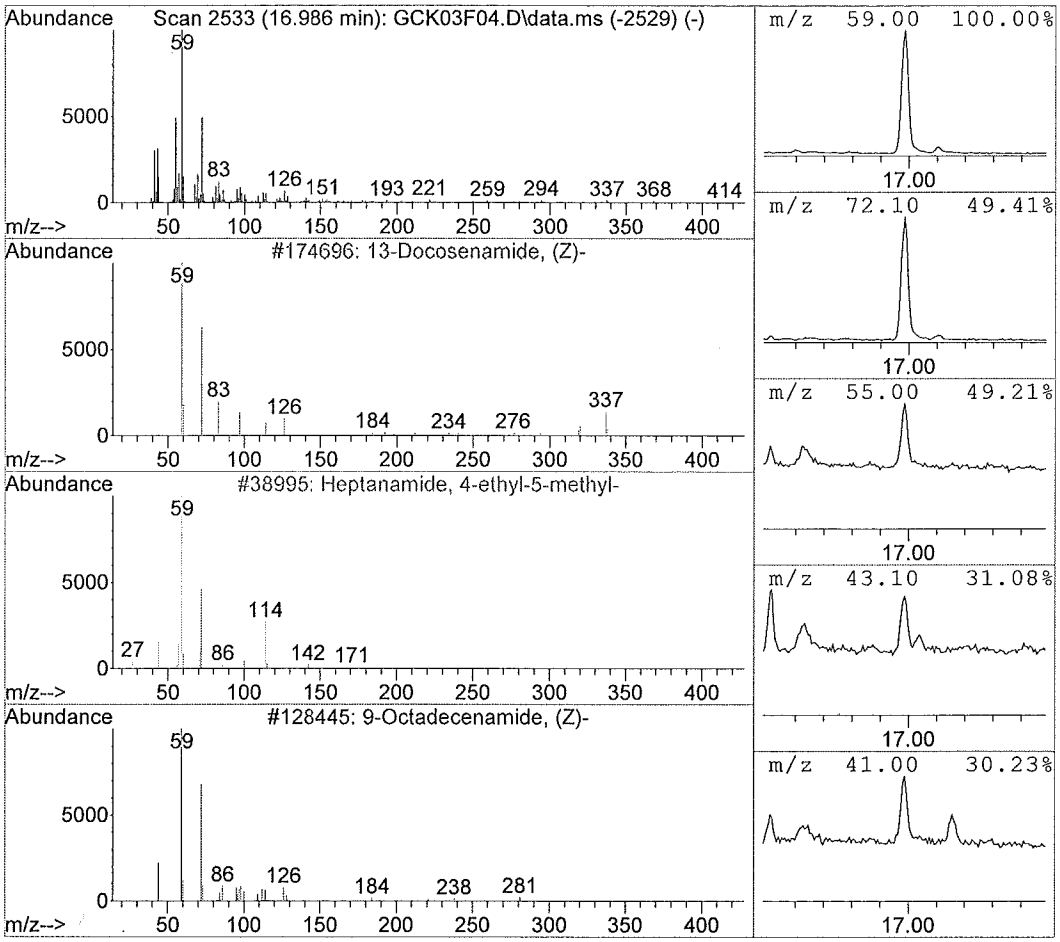
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK03F04.D Vial: 3
Acq On : 07/02/2015 11:56 Operator: DJC
Sample : 1514052004 F9K77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	5.51 ug/ml	818962	Perylene-d12	2973899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	87.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
3	9-Octadecenamide, (Z)-	128445	000301-02-0	58.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	7-Nonenamide	28131	090949-53-4	56.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL13F05

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL13F05

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL13F05

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.26	99.	J
02		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.53	580	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4300	JB
04		Unknown 3-Hexene-2,5-dione	4.49	110	J
05		Unknown 9-Octadecenamide, (Z)-	14.31	86.	JB
06	629-54-9	Hexadecanamide	14.42	170	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
08		Unknown Cyclohexanecarboxamide	16.50	110	J
09	112-84-5	13-Docosenamide, (Z)-	17.34	400	JN
10		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	440	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		

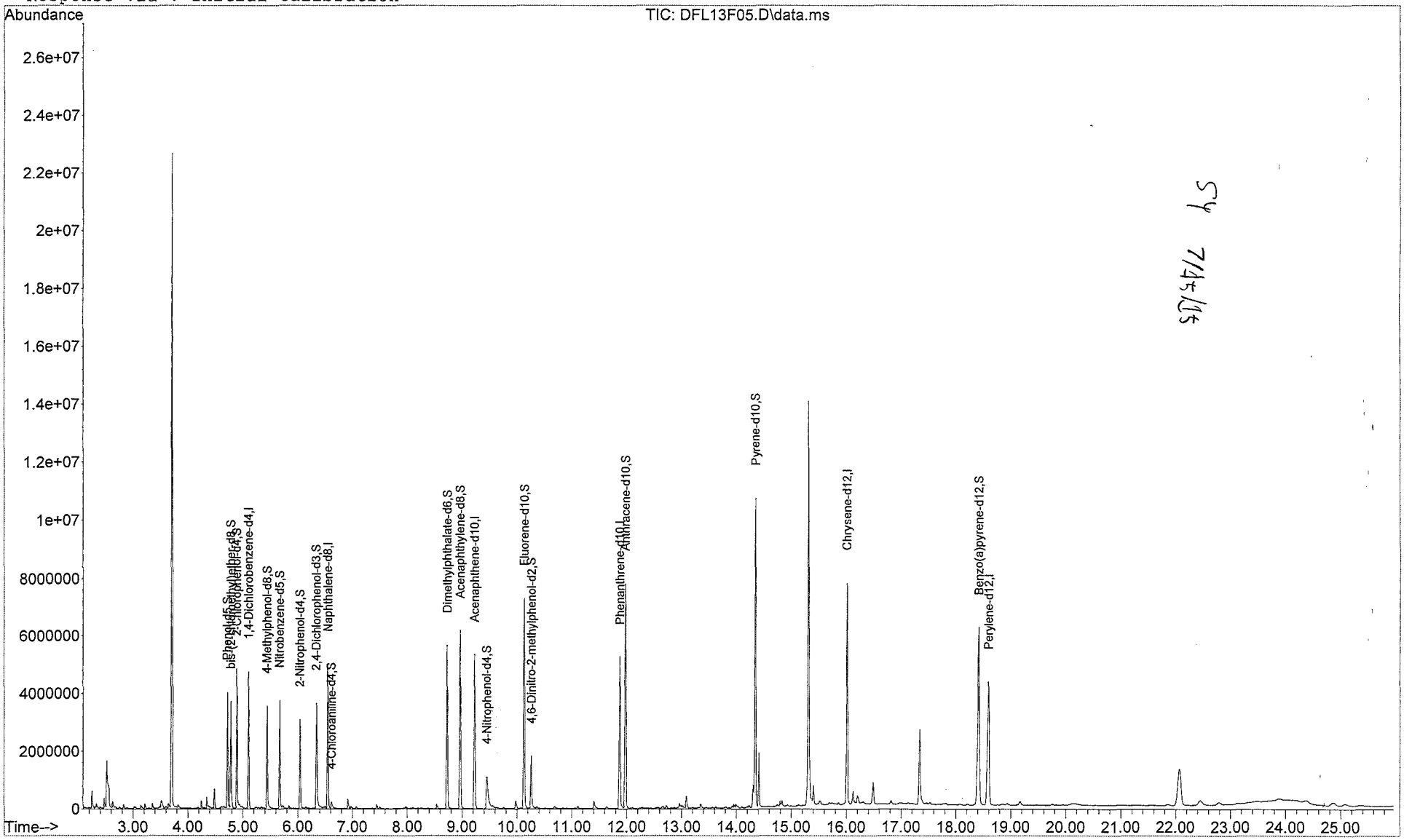
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:16:48 2015 Results File: DSOM01D5.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 7/14/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:48 2015 Results File: DSOM01D5.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	5.11	152	841038	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2887588	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1791807	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3191014	20.00 ug/ml
73) Chrysene-d12	16.02	240	3873949	20.00 ug/ml
81) Perylene-d12	18.60	264	3751001	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1471880	28.120ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	911323	23.794ug/mL
7) 2-Chlorophenol-d4	4.89	132	1390397	26.649ug/ml
13) 4-Methylphenol-d8	5.45	113	901758	22.983ug/mL
17) Nitrobenzene-d5	5.67	128	613508	25.940ug/ml
21) 2-Nitrophenol-d4	6.05	143	741110	26.424ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1209861	26.694ug/mL
28) 4-Chloroaniline-d4	6.62	131	121957	3.582ug/mL
42) Dimethylphthalate-d6	8.73	166	3578525	32.392ug/mL
45) Acenaphthylene-d8	8.97	160	4061909	27.924ug/mL
50) 4-Nitrophenol-d4	9.46	143	564311	30.755ug/mL
57) Fluorene-d10	10.14	176	3006588	30.799ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	495366	24.582ug/mL
69) Anthracene-d10	11.98	188	5146863	31.483ug/mL
75) Pyrene-d10	14.35	212	5321958	32.622ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5259995	30.642ug/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)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:16:48 2015 Results File: DSOM01D5.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)

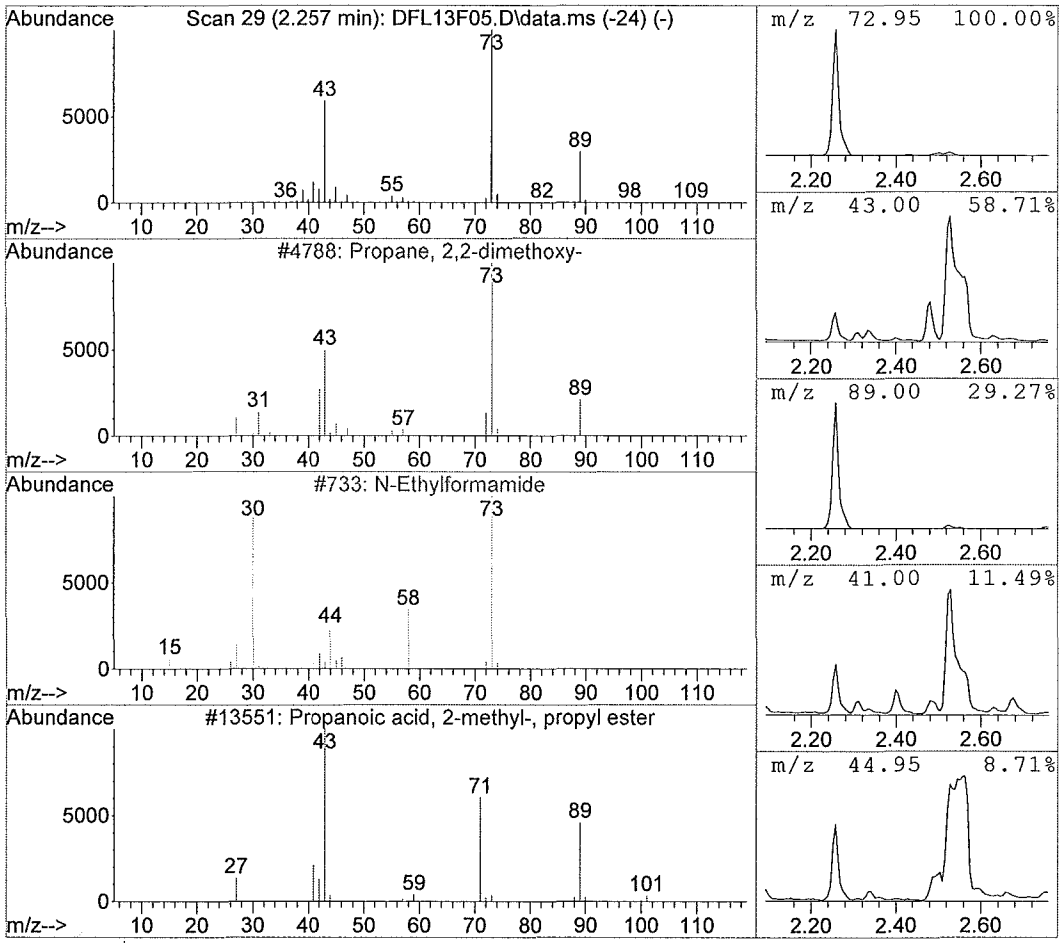
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.41 ug/ml	601646	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	56.00
2	N-Ethylformamide	733	000627-45-2	9.00
3	Propanoic acid, 2-methyl-, propyl e	13551	000644-49-5	9.00
4	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00
5	Oxirane-2-carboxylic acid, ethyl es	8052	1000192-50-3	9.00



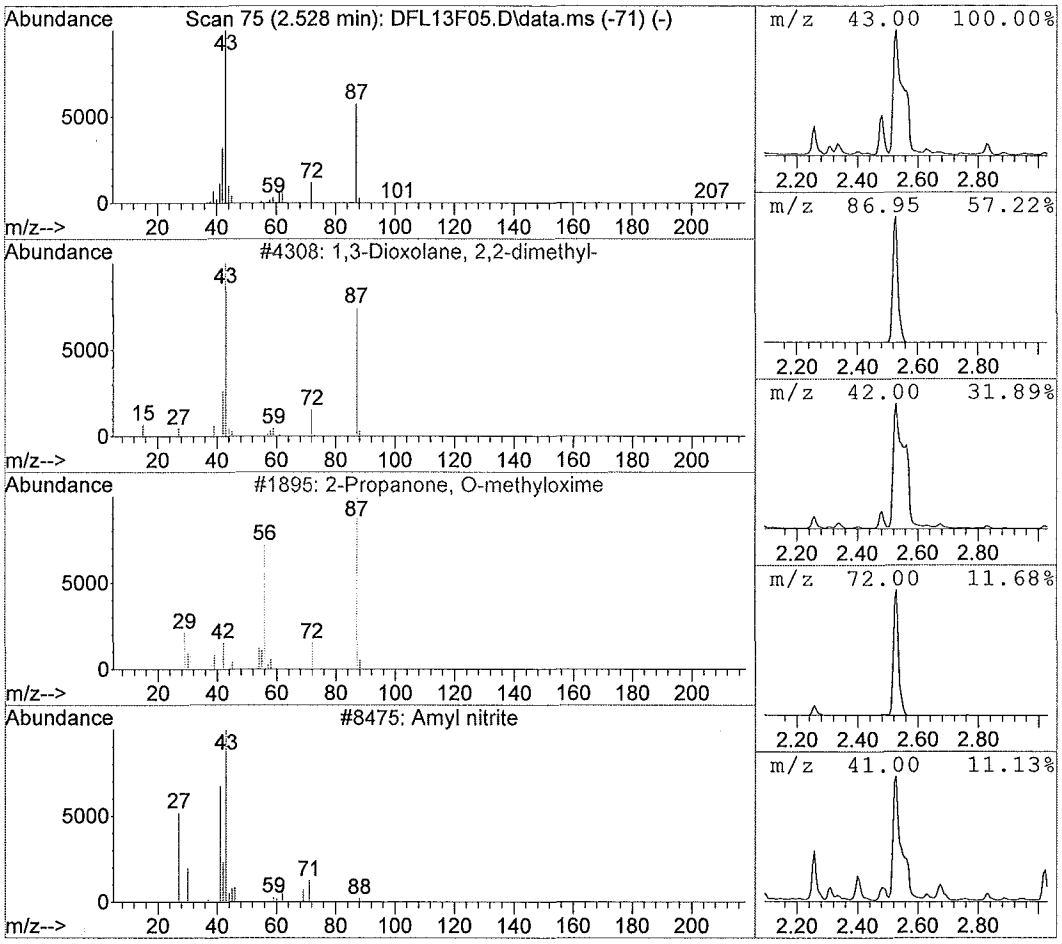
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.53	14.14 ug/ml	3532004	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	45.00
2	2-Propanone, O-methyloxime	1895	003376-35-0	32.00
3	Amyl nitrite	8475	000463-04-7	23.00
4	dl-Glyceraldehyde dimer	45907	026793-98-6	23.00
5	N,N-Dimethylacetamide	1886	000127-19-5	9.00



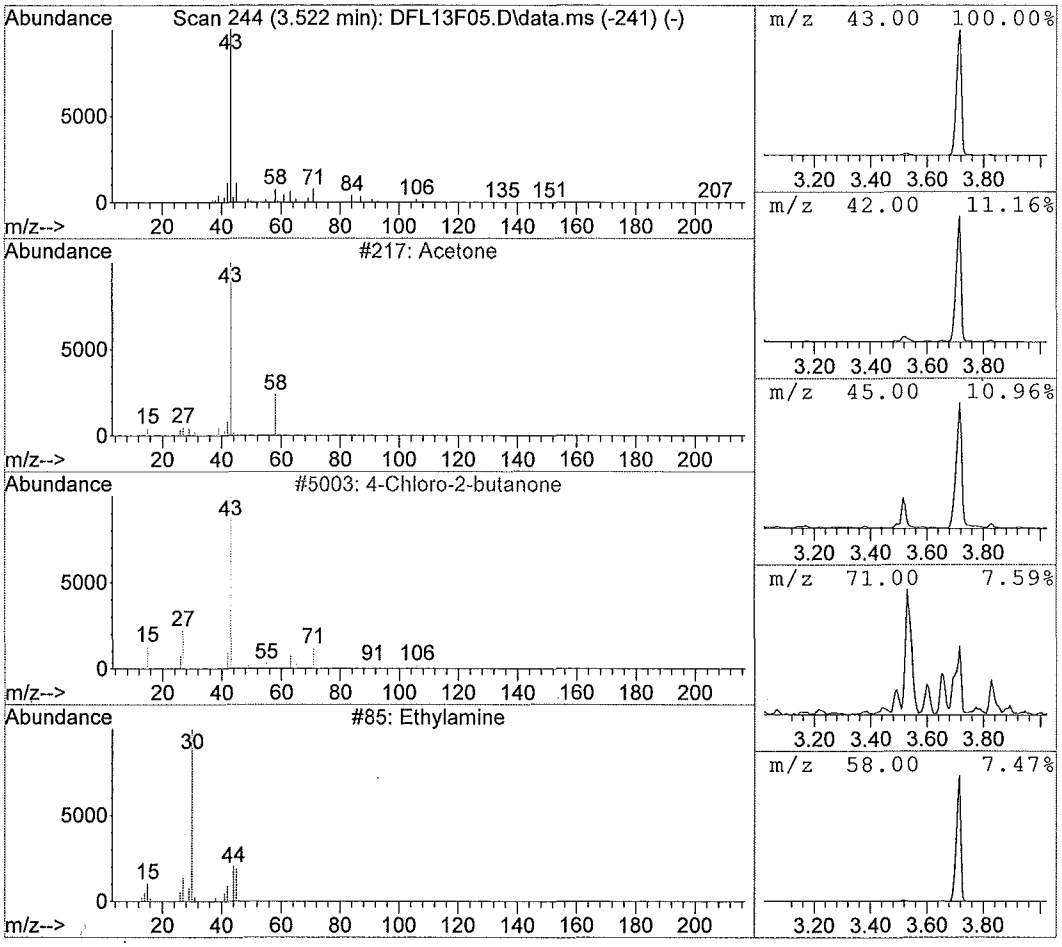
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.03 ug/ml	507005	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetone VOA	217	000067-64-1	35.00
2	4-Chloro-2-butanone	5003	006322-49-2	27.00
3	Ethylamine	85	000075-04-7	9.00
4	Methyl glyoxal	628	000078-98-8	9.00
5	CH3C(O)CH2CH2OH	2022	000590-90-9	9.00



: 00149

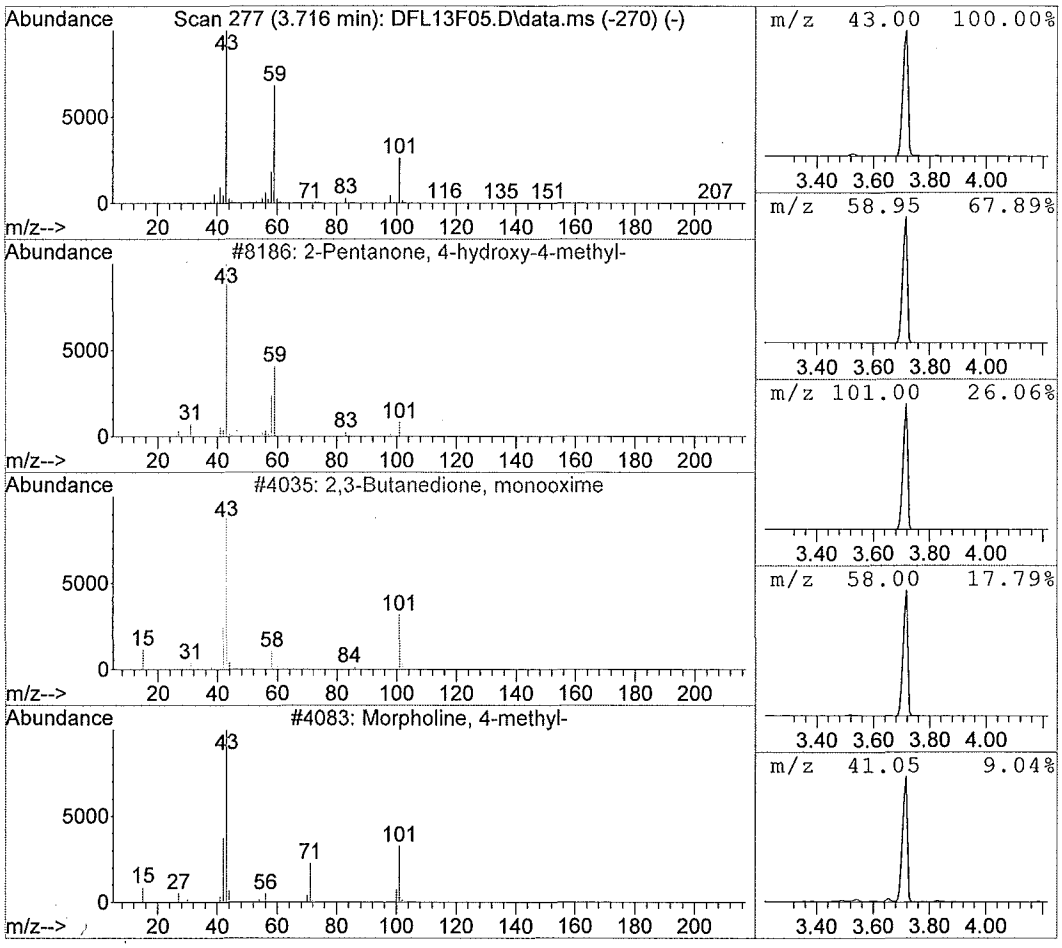
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	104.15 ug/ml	26020743	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	2,3-Butanedione, monooxime	4035	000057-71-6	17.00
3	Morpholine, 4-methyl-	4083	000109-02-4	9.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00
5	Acetone	213	000067-64-1	9.00



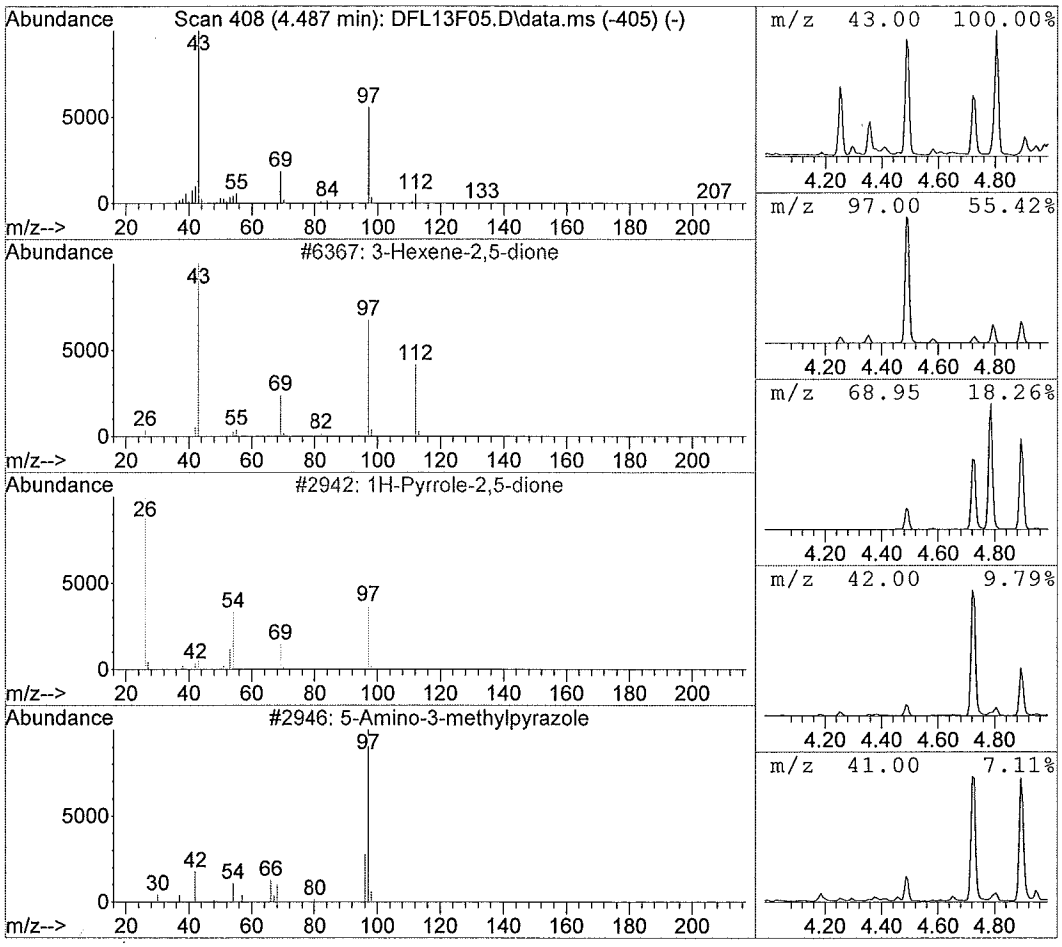
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.67 ug/ml	665990	1,4-Dichlorobenzene-d4	4996716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	39.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
3	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
5	5-Hexen-2-one	3152	000109-49-9	10.00



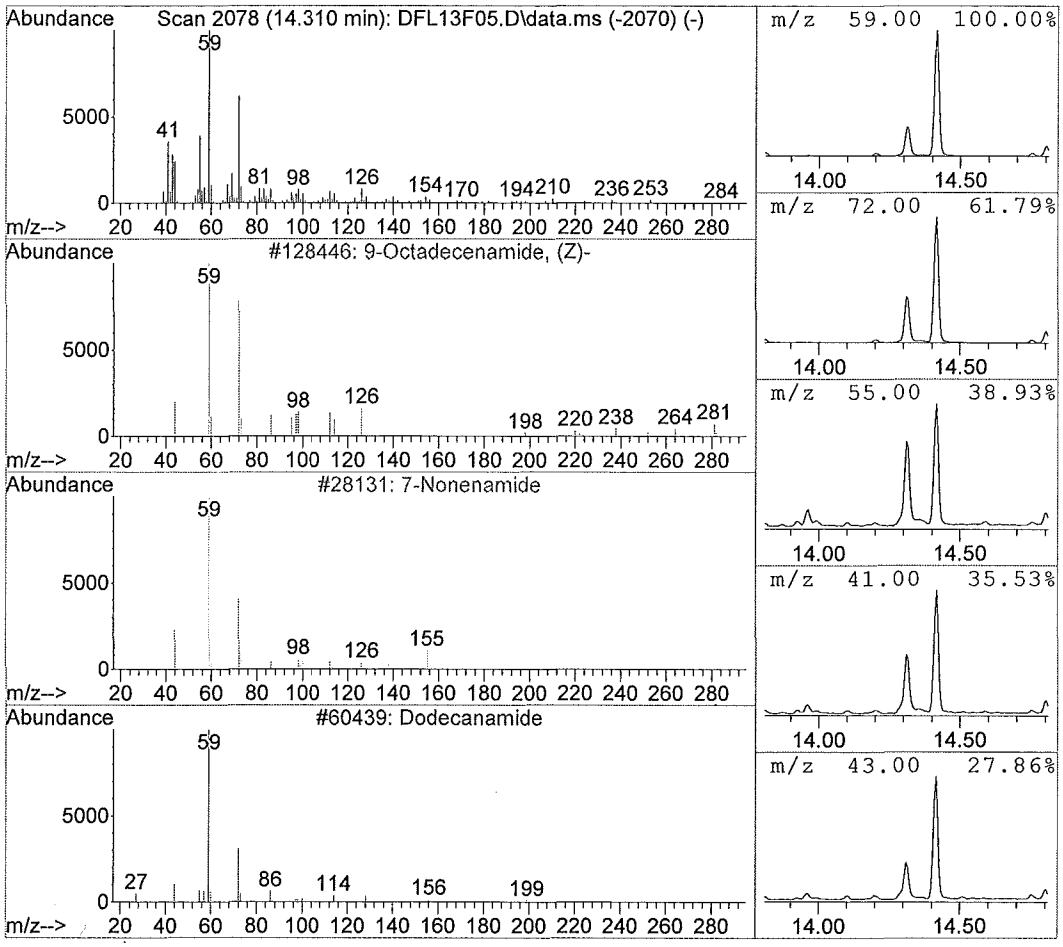
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.09 ug/ml	1046920	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Nonanamide	29478	001120-07-6	59.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	56.00



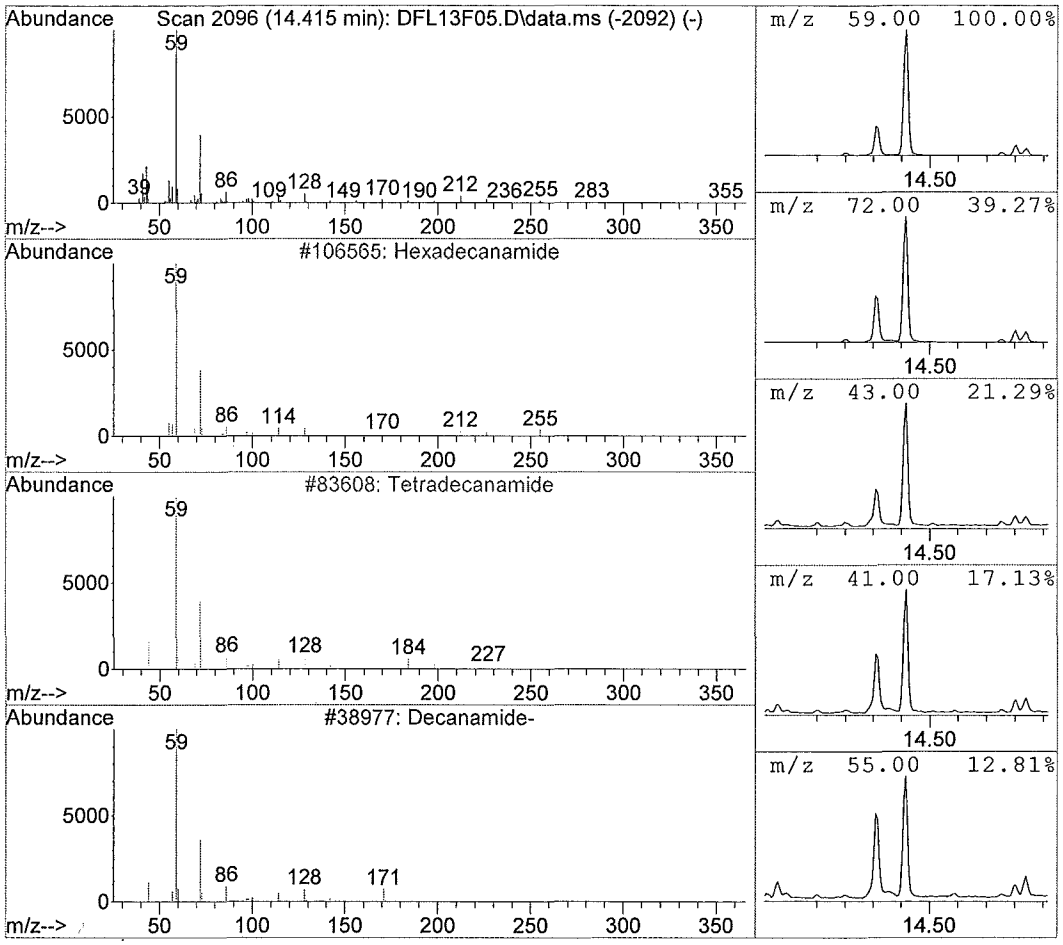
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.26 ug/ml	2130275	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	87.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Nonanamide	29478	001120-07-6	64.00



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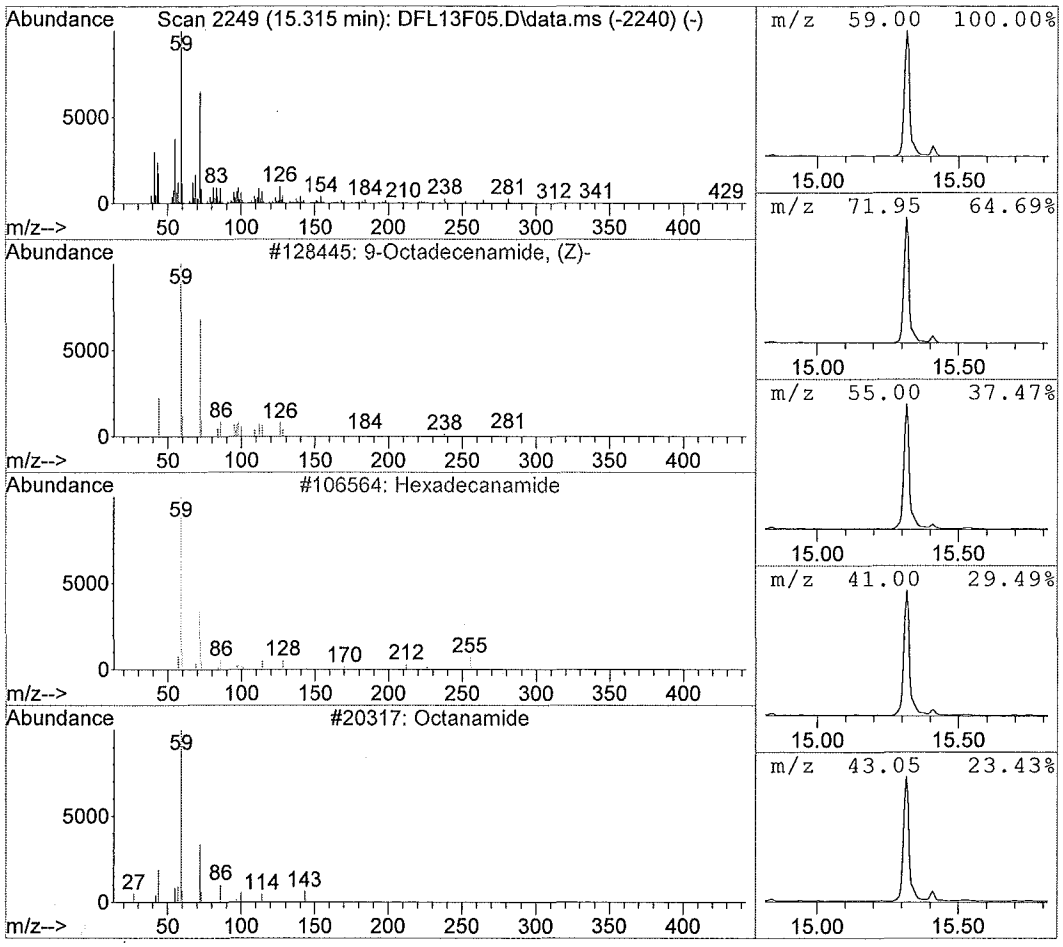
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	38.24 ug/ml	19124236	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Octanamide	20317	000629-01-6	53.00
4	6,8-Dichlorooctanamide	70436	003579-00-8	43.00
5	Dodecanamide	60439	001120-16-7	42.00



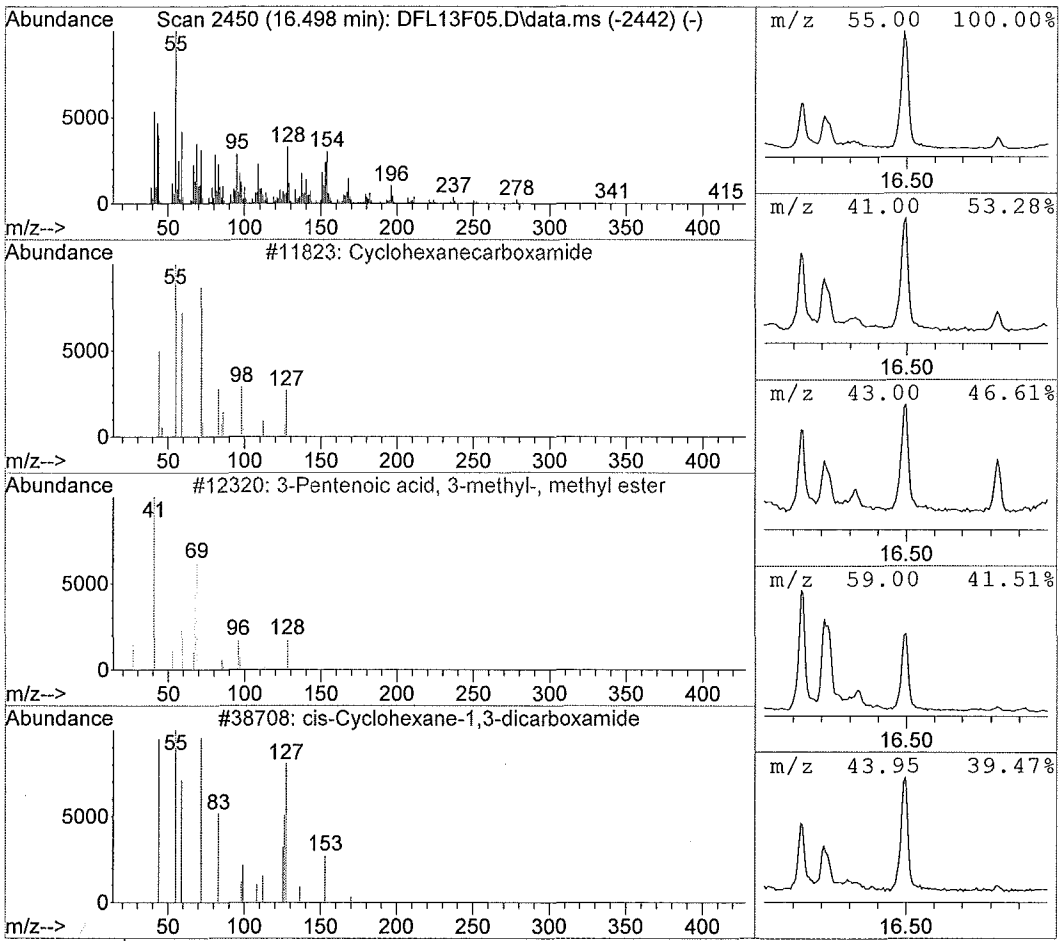
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	2.71 ug/ml	1357553	Chrysene-d12	10002238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, 3-methyl-, methyl	12320	002258-58-4	14.00
3	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	12.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00
5	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00



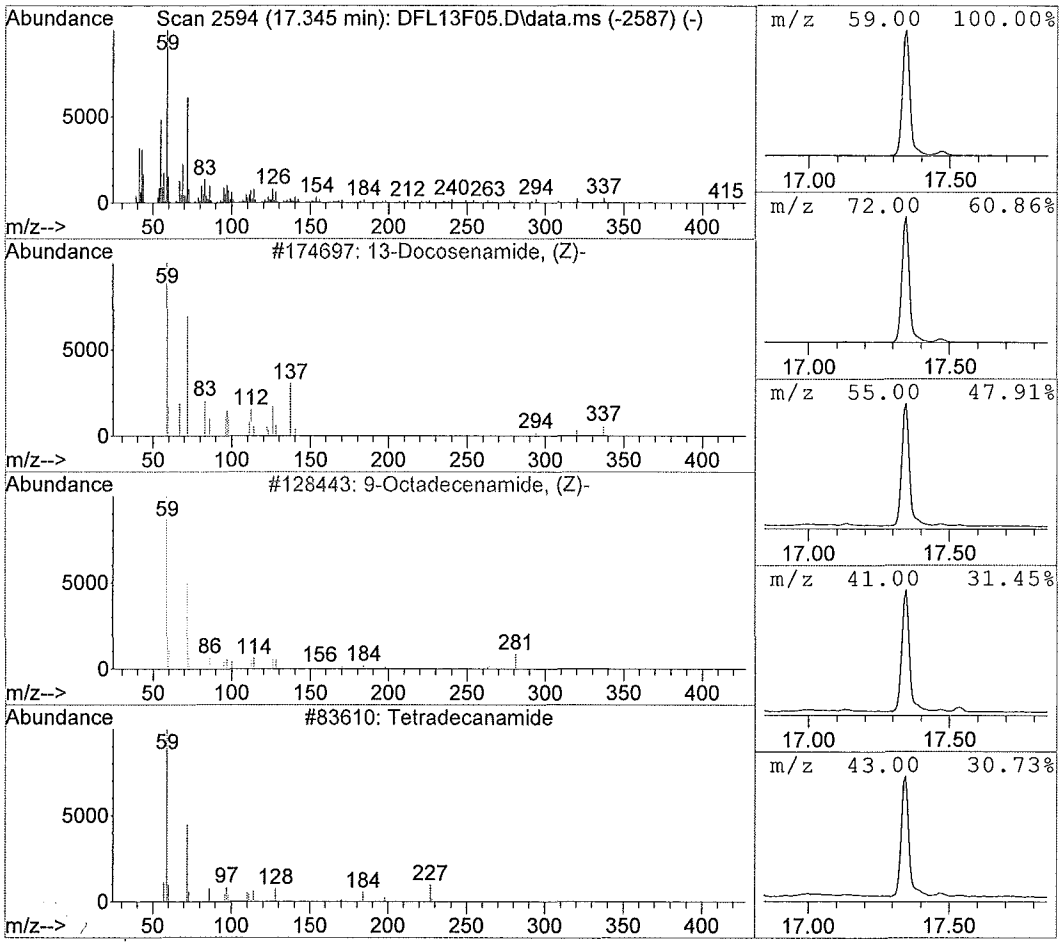
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	9.80 ug/ml	4744913	Perylene-d12	9682401

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
5	Octanamide	20317	000629-01-6	59.00



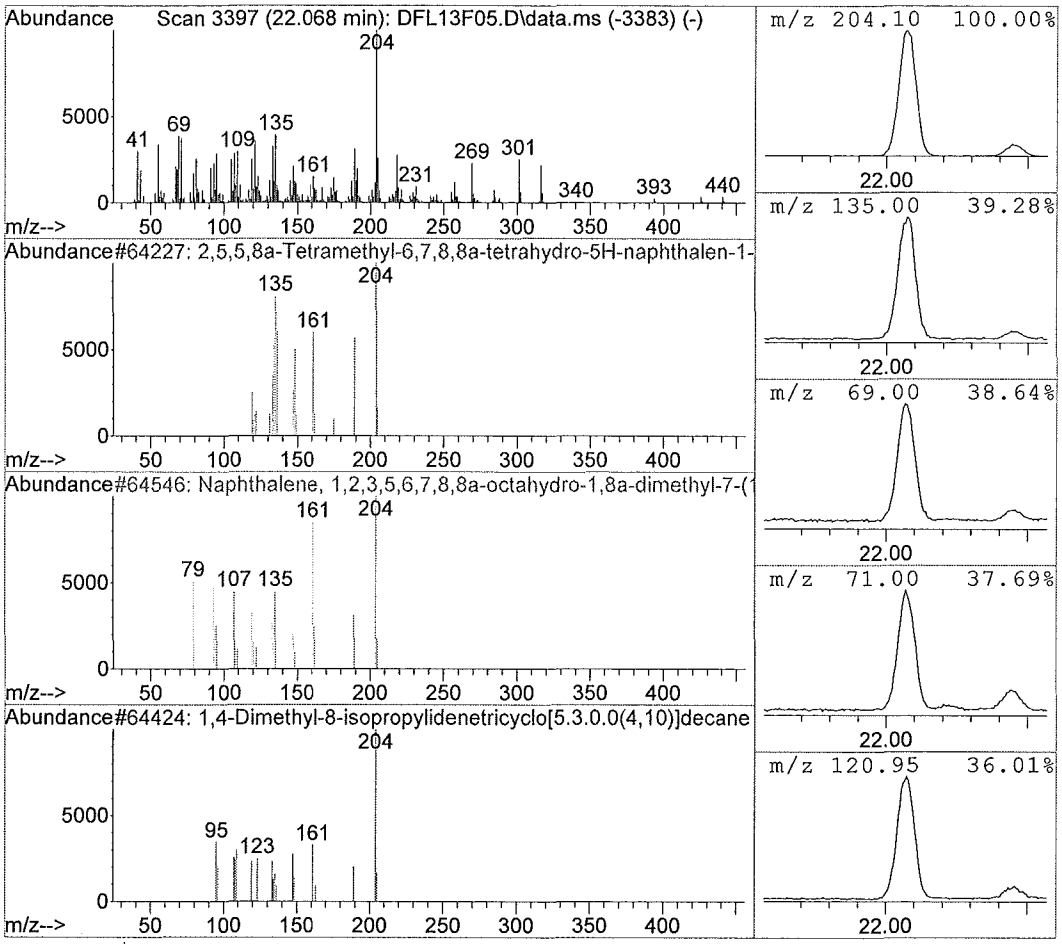
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL13F05.D Vial: 13
Acq On : 05/27/2015 15:33 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	10.79 ug/ml	5221578	Perylene-d12	9682401

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	47.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	46.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	35.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL14F01

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

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL14F01

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

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL14F01

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

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.55	280	J
02		Unknown 4-Chloro-2-butanone	3.52	79.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	3900	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.49	82.	J
05		Unknown 9-Octadecenamide, (Z)-	14.31	91.	JB
06	629-54-9	Hexadecanamide	14.42	210	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
08	629-54-9	Hexadecanamide	15.41	77.	JN
09		Unknown Cyclohexanecarboxamide	16.50	130	J
10	301-02-0	9-Octadecenamide, (Z)-	17.34	320	JN
11		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	22.07	76.	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		

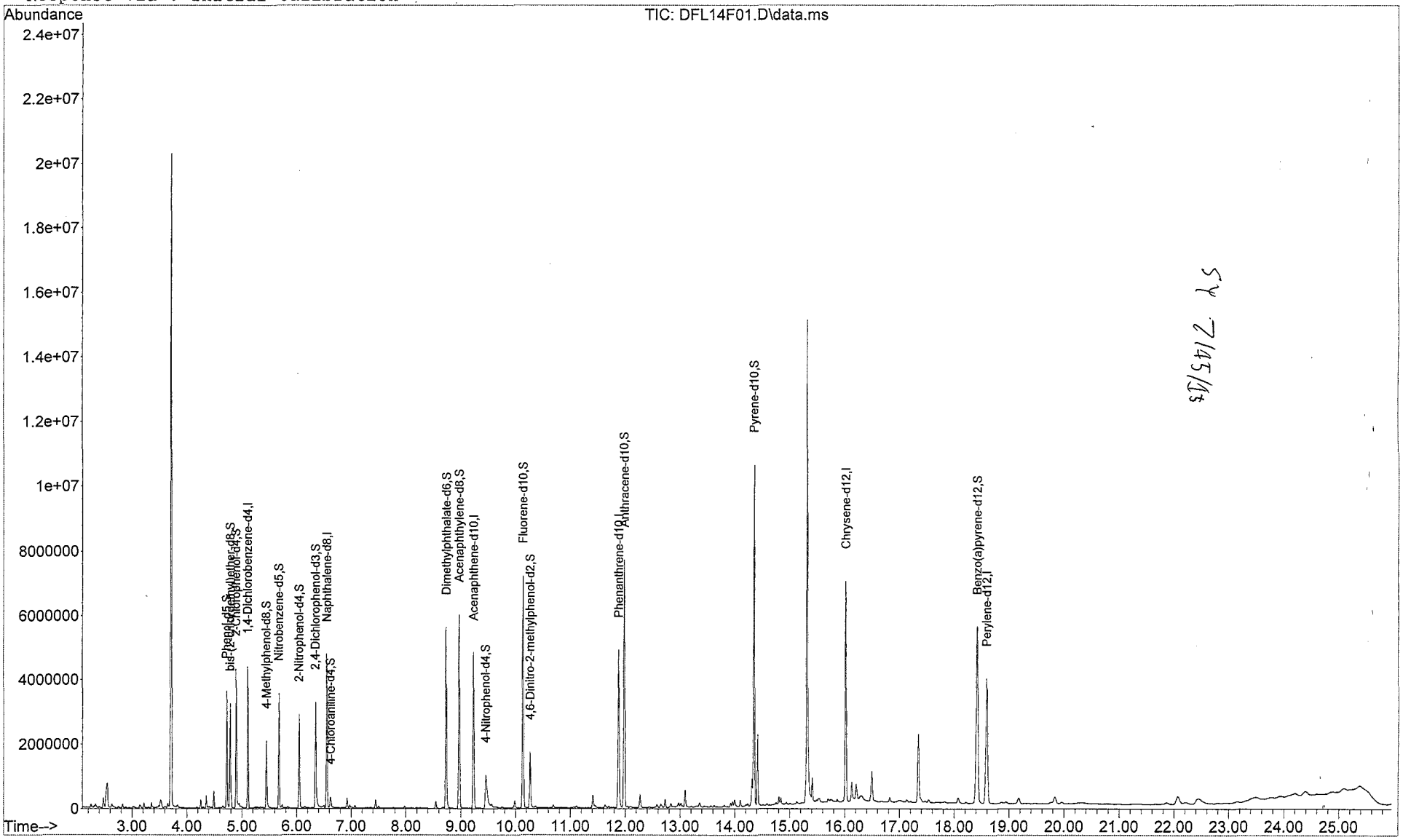
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:17:12 2015 Results File: DSOM01D5.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 7/15/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:12 2015 Results File: DSOM01D5.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	5.10	152	781530	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2646503	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1664972	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2976695	20.00 ug/ml
73) Chrysene-d12	16.02	240	3576597	20.00 ug/ml
81) Perylene-d12	18.59	264	3415453	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1301185	26.751ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	839562	23.589ug/mL
7) 2-Chlorophenol-d4	4.89	132	1214359	25.047ug/ml
13) 4-Methylphenol-d8	5.45	113	548844	15.053ug/mL
17) Nitrobenzene-d5	5.67	128	570644	26.326ug/ml
21) 2-Nitrophenol-d4	6.05	143	682084	26.535ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1072311	25.814ug/mL
28) 4-Chloroaniline-d4	6.62	131	170773	5.472ug/mL
42) Dimethylphthalate-d6	8.73	166	3568599	34.763ug/mL
45) Acenaphthylene-d8	8.97	160	3965703	29.339ug/mL
50) 4-Nitrophenol-d4	9.46	143	546505	32.054ug/mL
57) Fluorene-d10	10.13	176	2964073	32.677ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	448719	23.870ug/mL
69) Anthracene-d10	11.98	188	5064997	33.213ug/mL
75) Pyrene-d10	14.35	212	5227160	34.705ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5019277	32.112ug/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)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:12 2015 Results File: DSOM01D5.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)

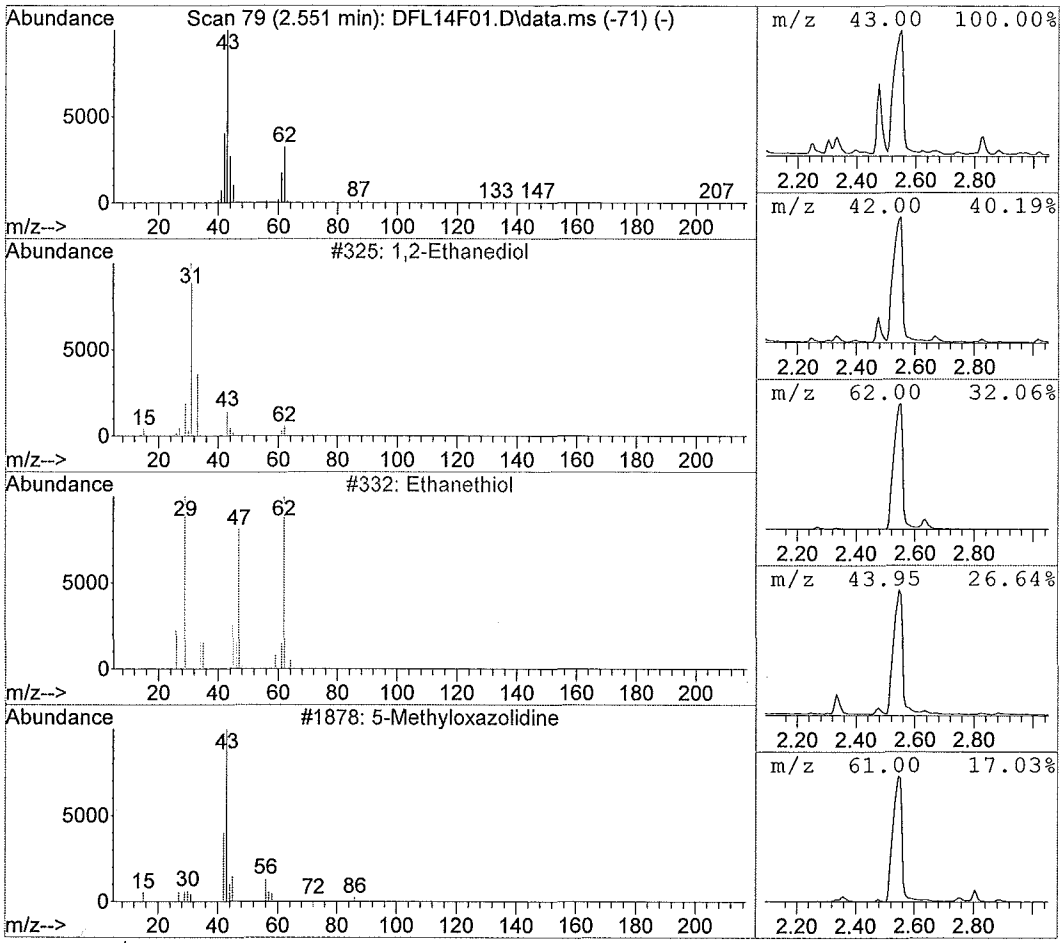
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.55	7.49 ug/ml	1727351	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Ethanethiol	332	000075-08-1	5.00
3	5-Methyloxazolidine	1878	058328-22-6	5.00
4	Ethanimidic acid, ethyl ester	1898	001000-84-6	5.00
5	Peroxide, dimethyl	330	000690-02-8	4.00



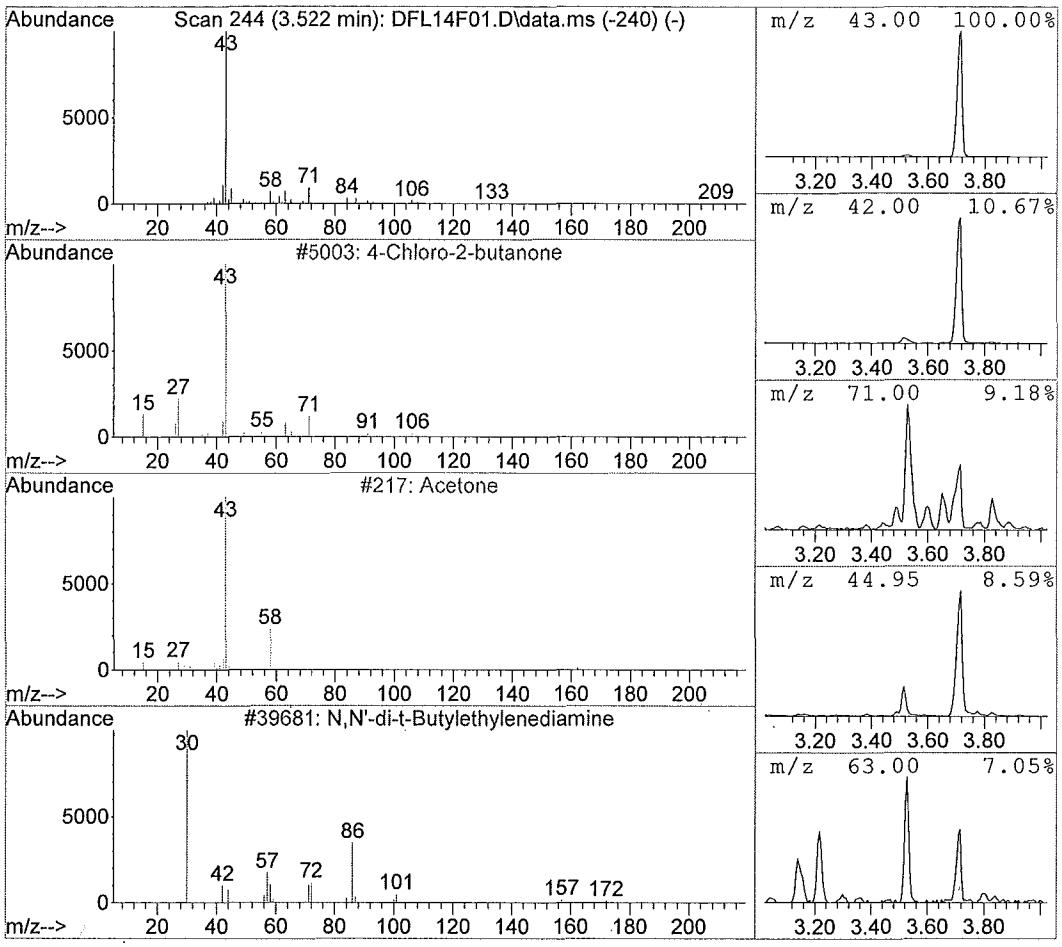
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.12 ug/ml	488167	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	47.00
2	Acetone	217	000067-64-1	35.00
3	N,N'-di-t-Butylethylenediamine	39681	004062-60-6	9.00
4	2-Pentanone, 4-hydroxy-	4267	004161-60-8	9.00
5	Acetamide, N-methyl-	739	000079-16-3	9.00



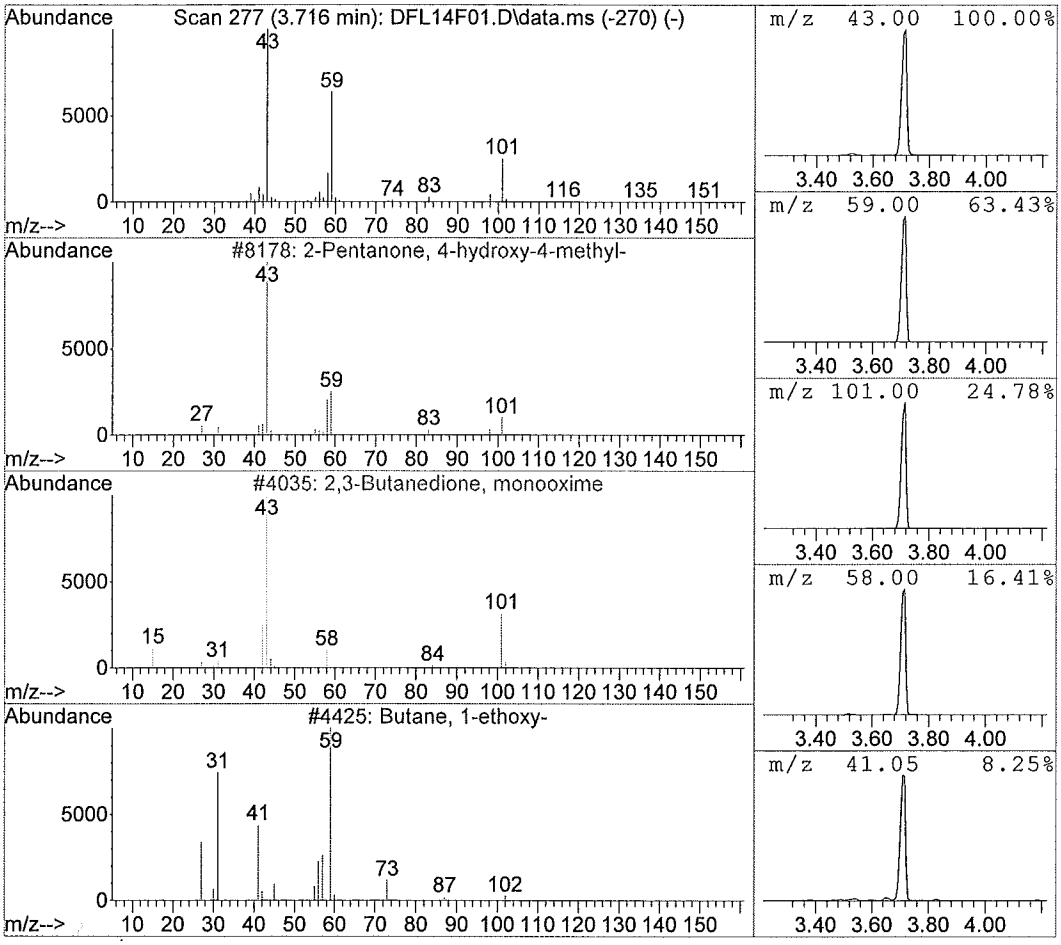
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	105.32 ug/ml	24300929	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	59.00
2	2,3-Butanedione, monooxime	4035	000057-71-6	25.00
3	Butane, 1-ethoxy-	4425	000628-81-9	9.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00
5	Guanidine	258	000113-00-8	9.00



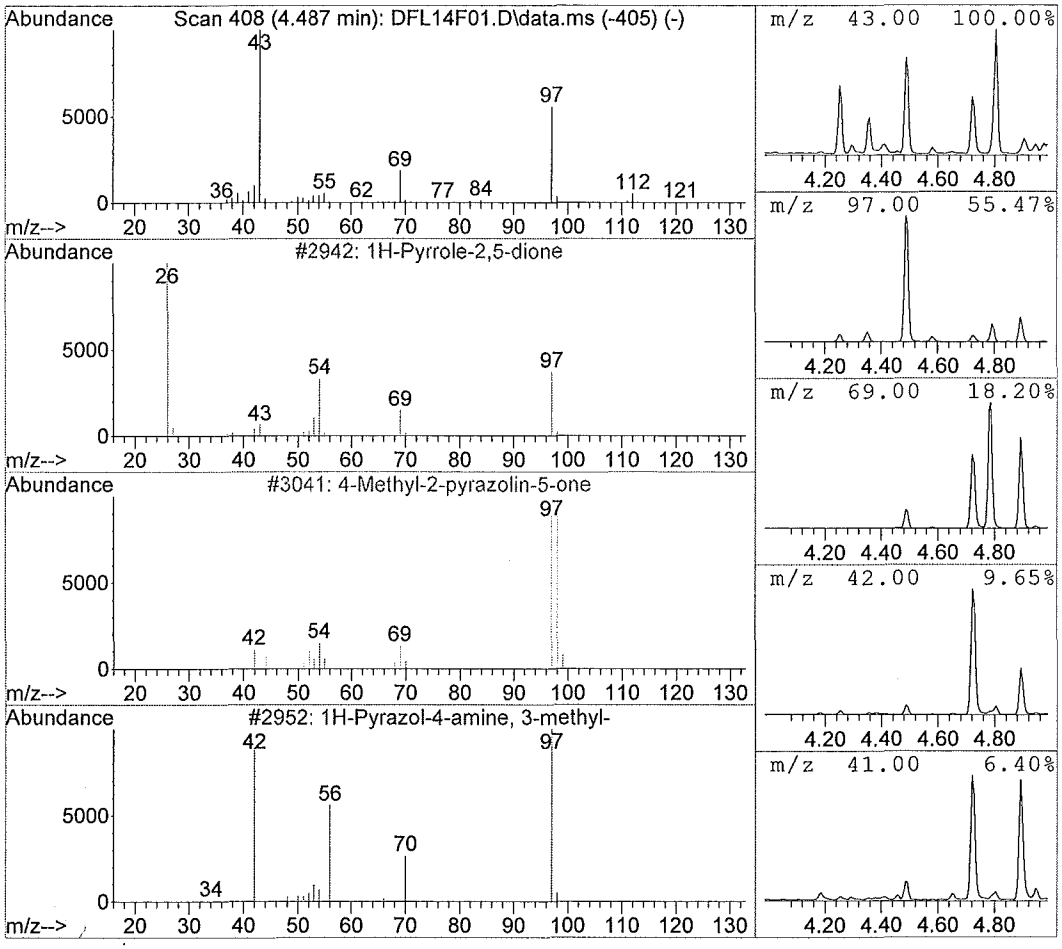
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.21 ug/ml	509529	1,4-Dichlorobenzene-d4	4614766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
3	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00
4	5-Hexen-2-one	3152	000109-49-9	10.00
5	1H-Pyrazole, 4,5-dihydro-3,4,5-trim	6320	022591-95-3	9.00



: 00167

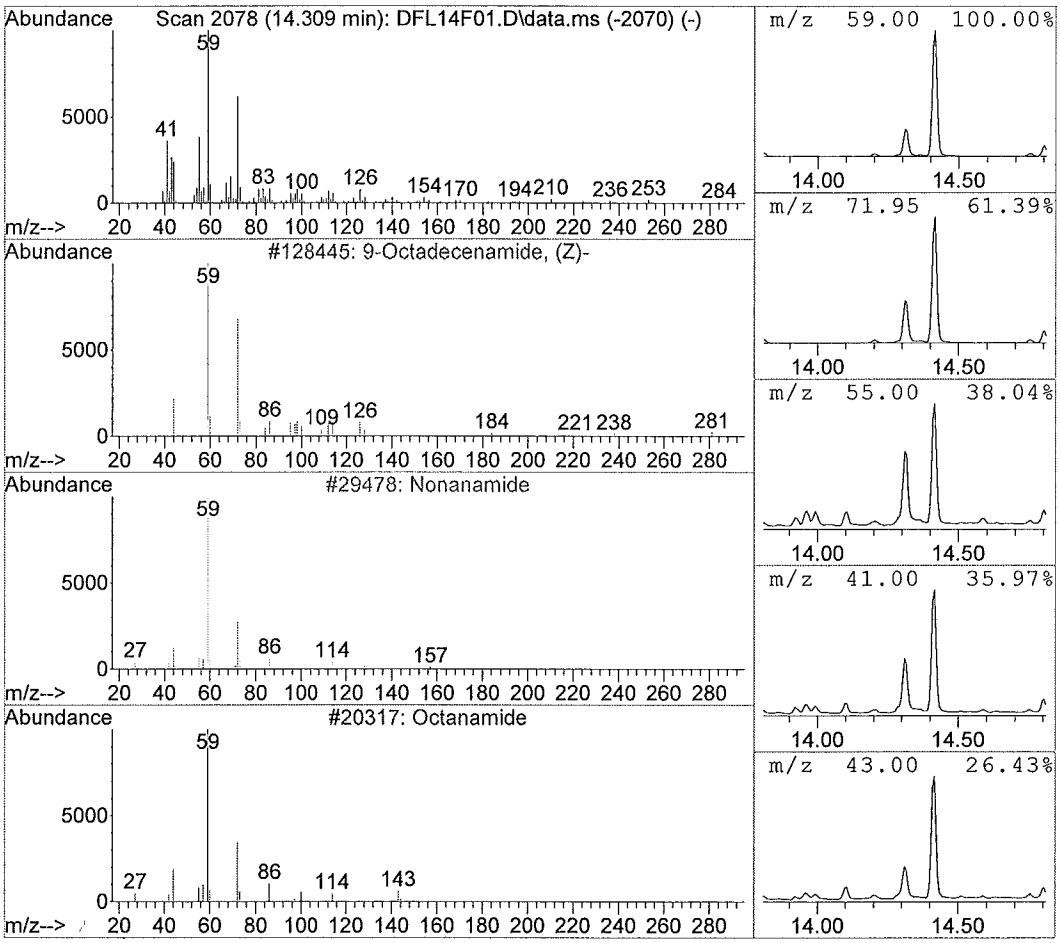
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.45 ug/ml	1124349	Chrysene-d12	9179833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	Nonanamide	29478	001120-07-6	59.00
3	Octanamide	20317	000629-01-6	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	7-Nonenamide	28131	090949-53-4	59.00



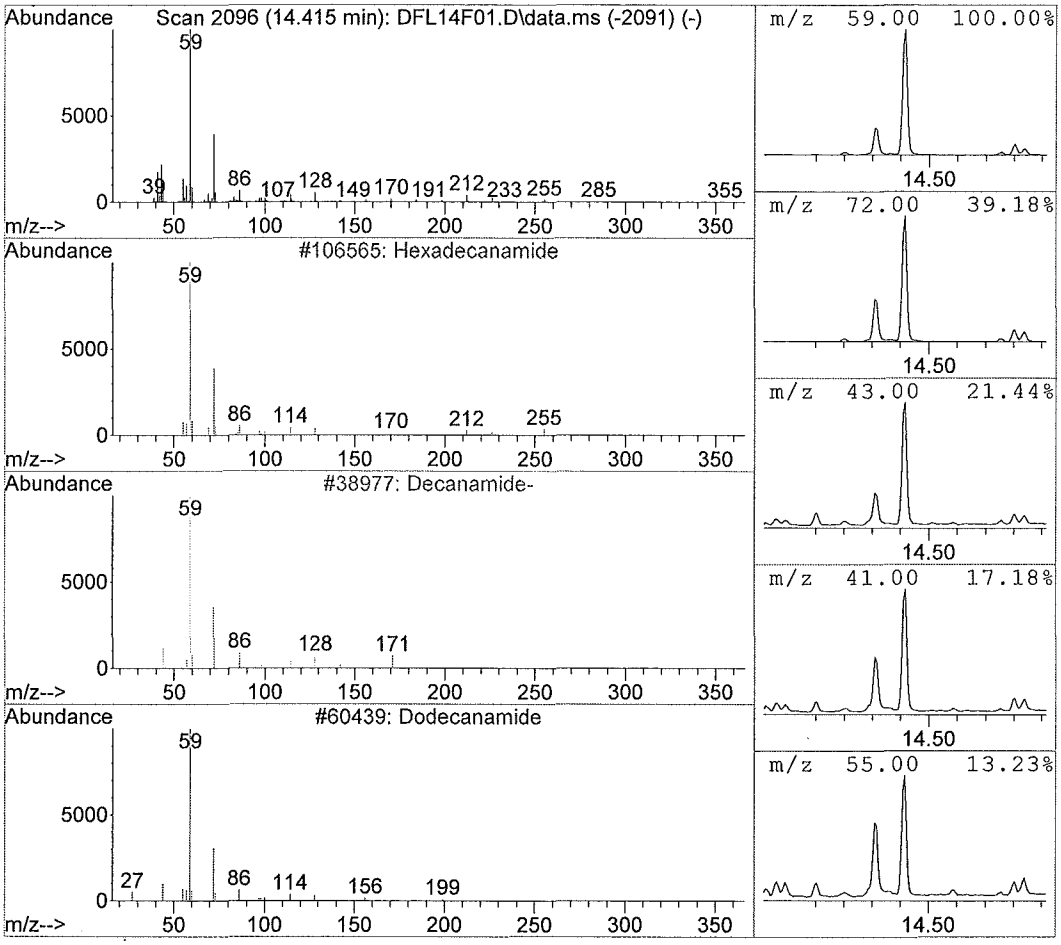
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.55 ug/ml	2546182	Chrysene-d12	9179833

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	Dodecanamide	60439	001120-16-7	86.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



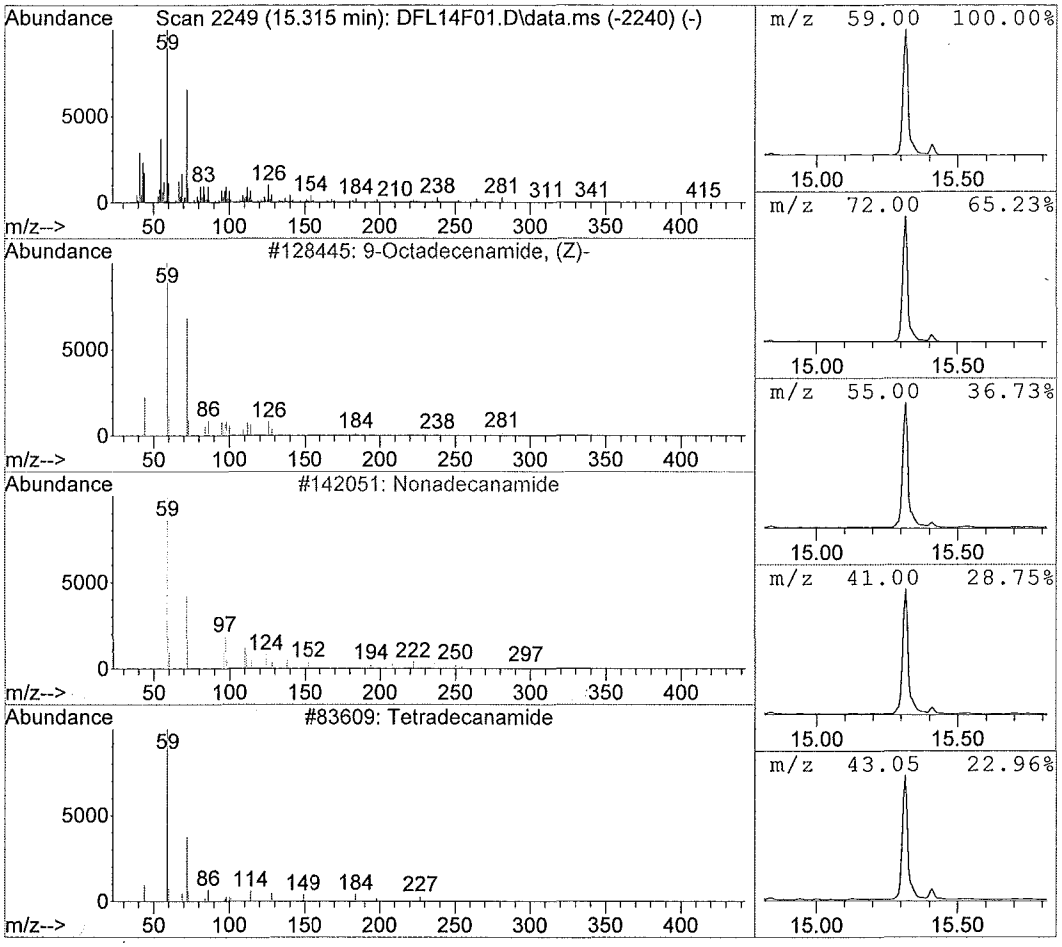
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	42.86 ug/ml	19672095	Chrysene-d12	9179833

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	Tetradecanamide	83609	000638-58-4	64.00
4	Octanamide	20317	000629-01-6	53.00
5	Hexadecanamide	106564	000629-54-9	50.00



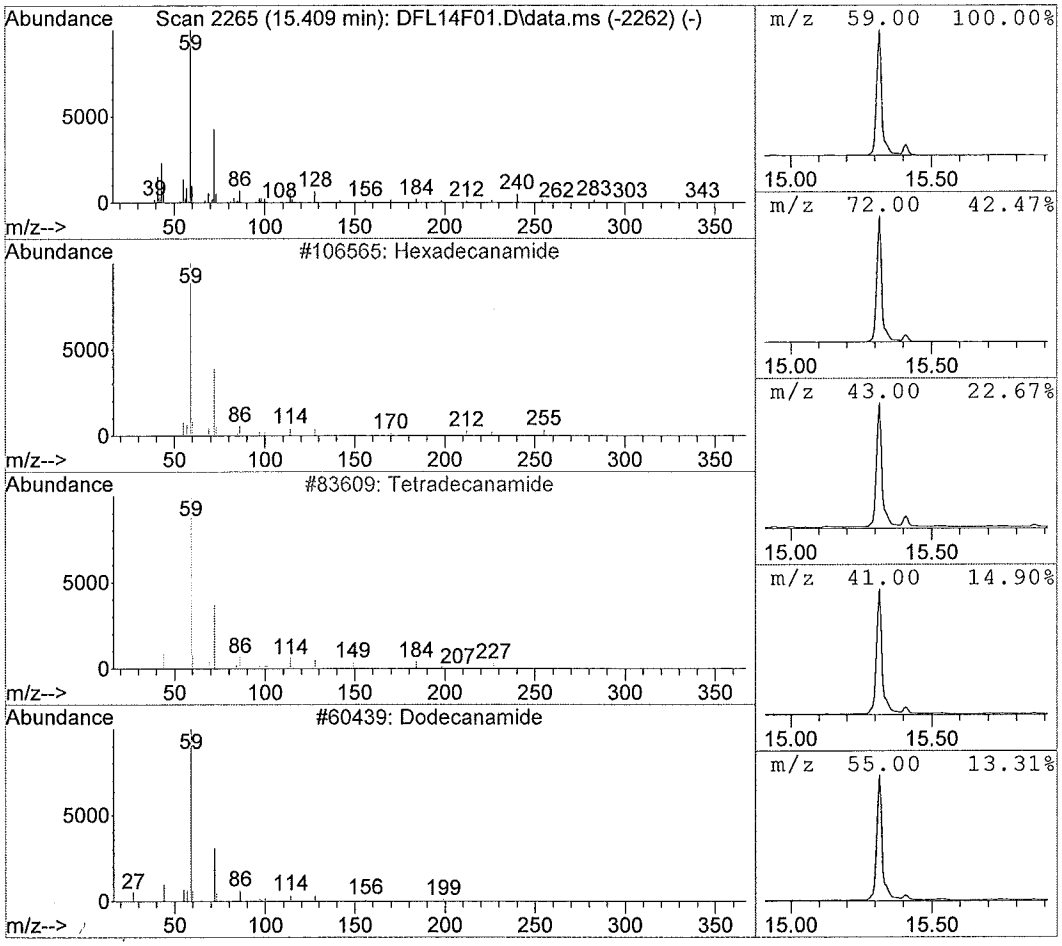
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.06 ug/ml	943487	Chrysene-d12	9179833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	78.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Nonadecanamide	142051	058185-32-3	64.00



00171

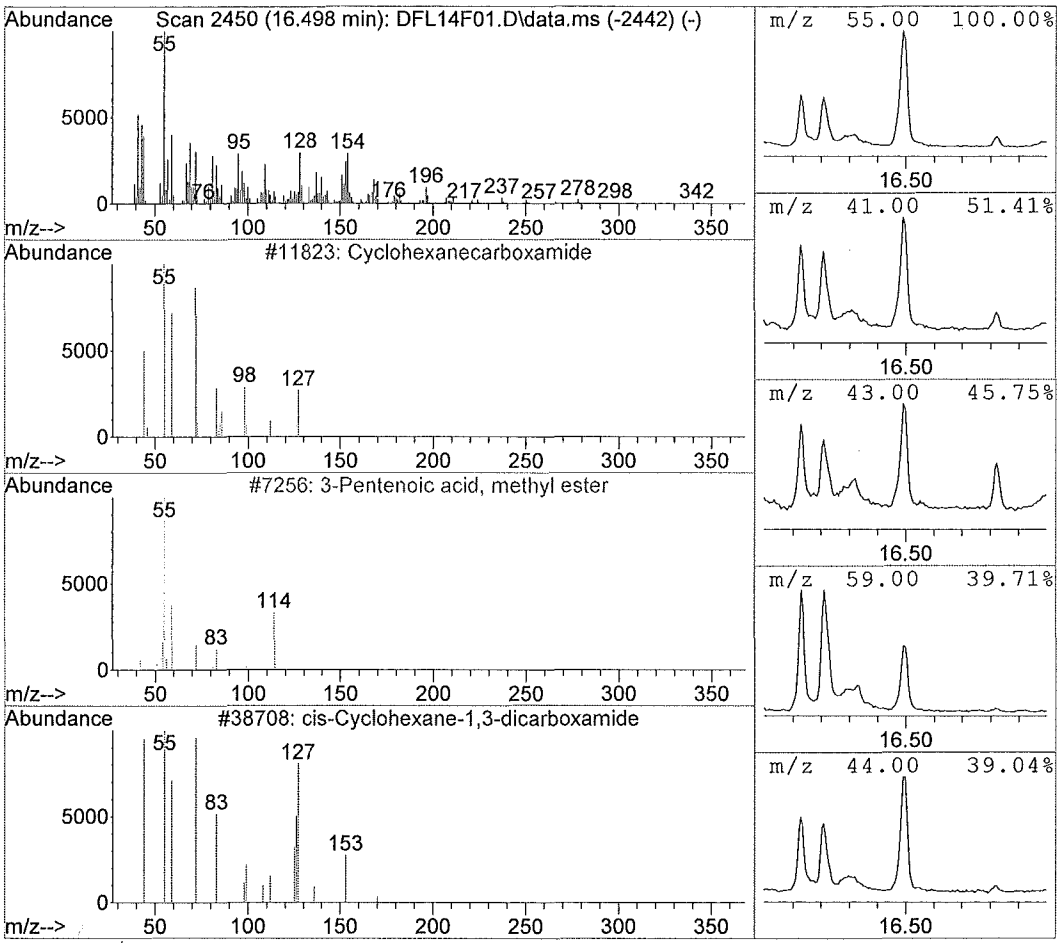
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.46 ug/ml	1589564	Chrysene-d12	9179833

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00
3	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	10.00
4	1-Decanol, 5,9-dimethyl-	50339	091482-38-1	10.00
5	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00



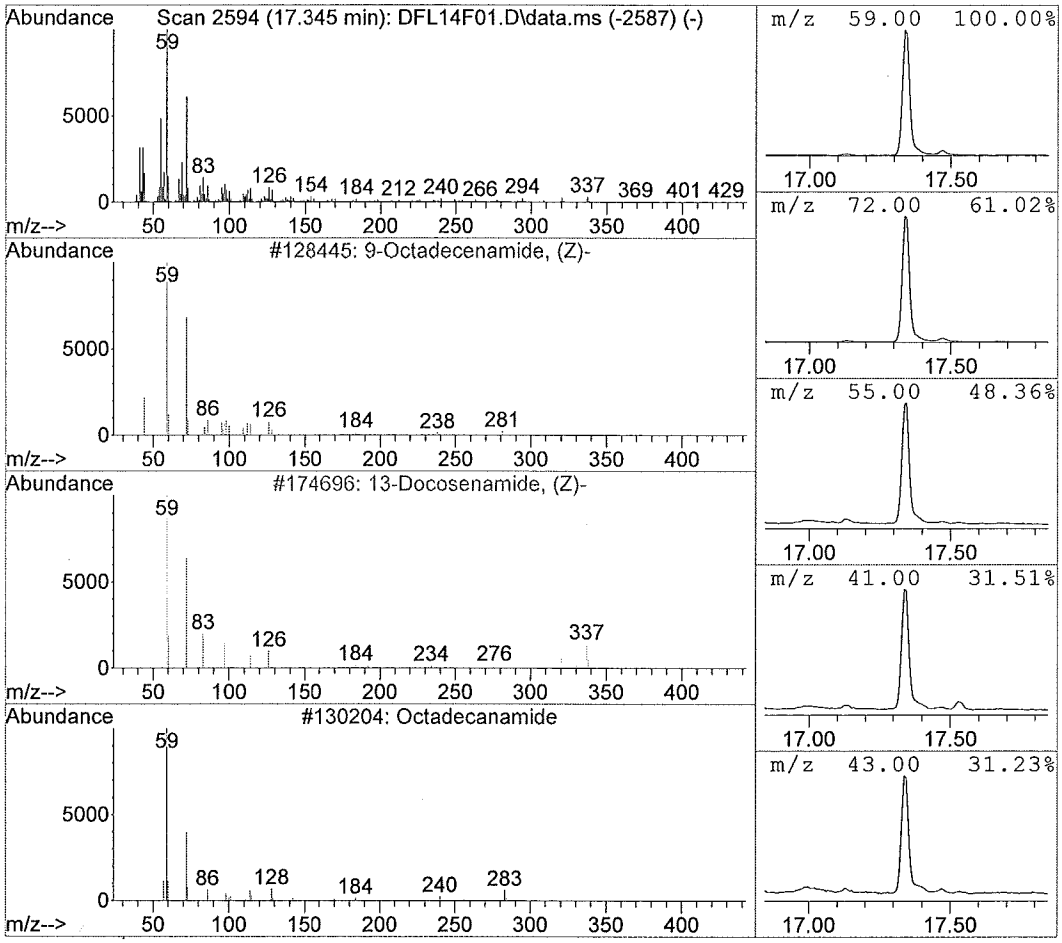
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	8.62 ug/ml	3804909	Perylene-d12	8830059

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	78.00
3	Octadecanamide	130204	000124-26-5	59.00
4	Octanamide	20317	000629-01-6	59.00
5	N-Chloroacetyl-dl-erythro-O-methylt	68766	1000214-48-1	43.00



: 88173

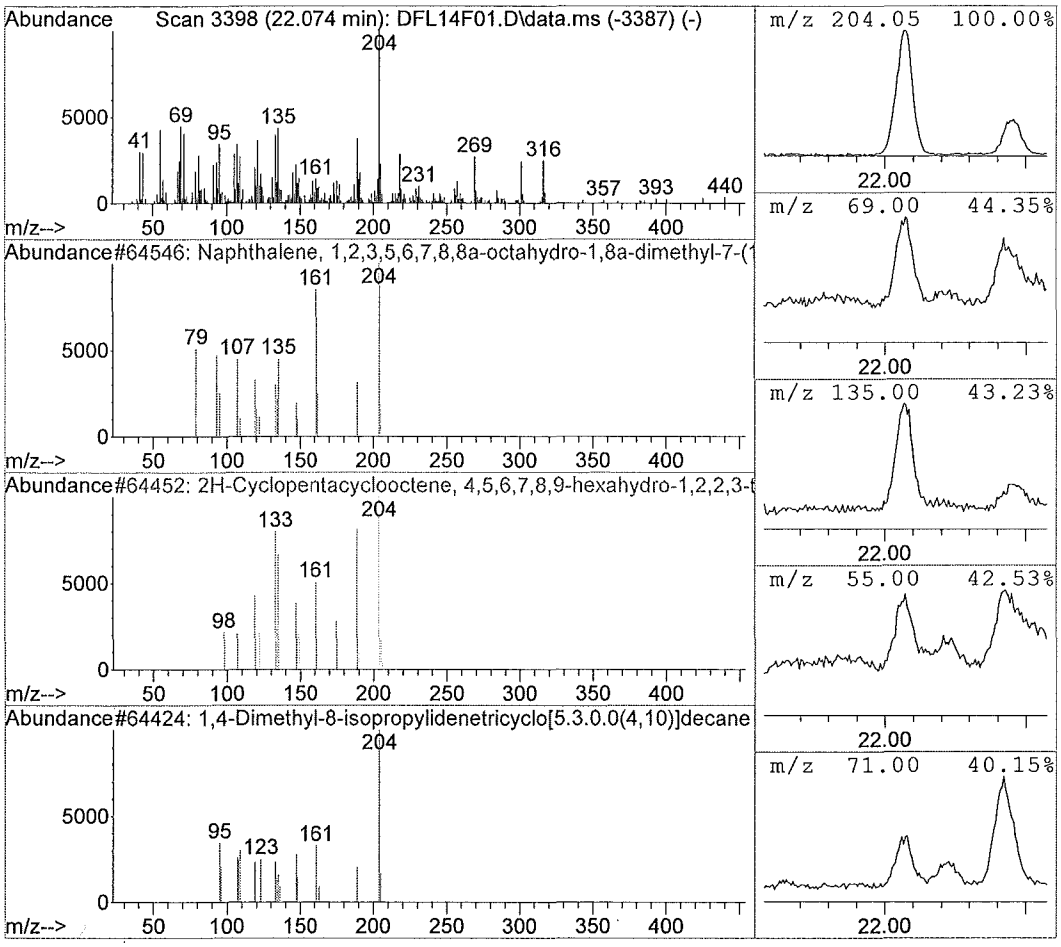
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL14F01.D Vial: 14
Acq On : 05/27/2015 16:06 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	2.05 ug/ml	904553	Perylene-d12	8830059

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	83.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	58.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	53.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00



: 00174

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK04F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK04F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	23.	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK04F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

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-	2.19	190	JN
02		Unknown 2-Propanone, 1-chloro-	2.27	180	J
03		Unknown Amyl nitrite	2.34	570	J
04		Unknown 1-Butene, 3,3-dimethyl-	3.10	150	J
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	5500	J
06		Unknown 1,2-Ethanediol, monoacetate	3.52	1100	J
07		Unknown 1H-Pyrrole-2,5-dione	4.27	170	J
08		Unknown 2-Pentanone, 3-methyl-	4.59	420	J
09		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	650	J
10		Unknown 3-Pentenoic acid, 4-methyl-	4.99	120	J
11		Unknown 2-Propanone, 1-hydroxy-	5.09	160	J
12		Unknown Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-,	5.37	150	J
13		Unknown Carbonic acid, isobutyl undec-10-enyl es	11.72	170	J
14	57-10-3	n-Hexadecanoic acid	12.66	650	JN
15	150-86-7	Phytol	13.82	140	JN
16	1120-16-7	Dodecanamide	14.15	350	JN
17	301-02-0	9-Octadecenamide, (Z)-	15.08	2500	JN
18	629-54-9	Hexadecanamide	15.17	130	JN
19		Unknown 3-Pentenoic acid, methyl ester	16.20	210	J
20	15594-90-8	1-Heneicosanol	16.61	220	JN
21	301-02-0	9-Octadecenamide, (Z)-	16.99	980	JN
22	7683-64-9	Supraene	17.16	250	JN
23		Unknown Phthalic acid, monoethyl ester	18.62	1100	J
24	53057-53-7	1,21-Docosadiene	18.75	340	JN
25	71502-22-2	9-Hexacosene	19.47	2400	JN
26	83-48-7	Stigmasterol	21.46	590	JN
27	83-46-5	.beta.-Sitosterol	22.27	3900	JN
28		Unknown 3-[1-Bromo-2-(phenylthio)cycloprop-1-yl]	22.90	410	J
29		Unknown Phthalic anhydride	23.30	890	J
30	1058-61-3	Stigmast-4-en-3-one	24.21	2200	JN
	E966796[2]	Total Alkanes	N/A	3700	J

[2] EPA-designated Registry Number.

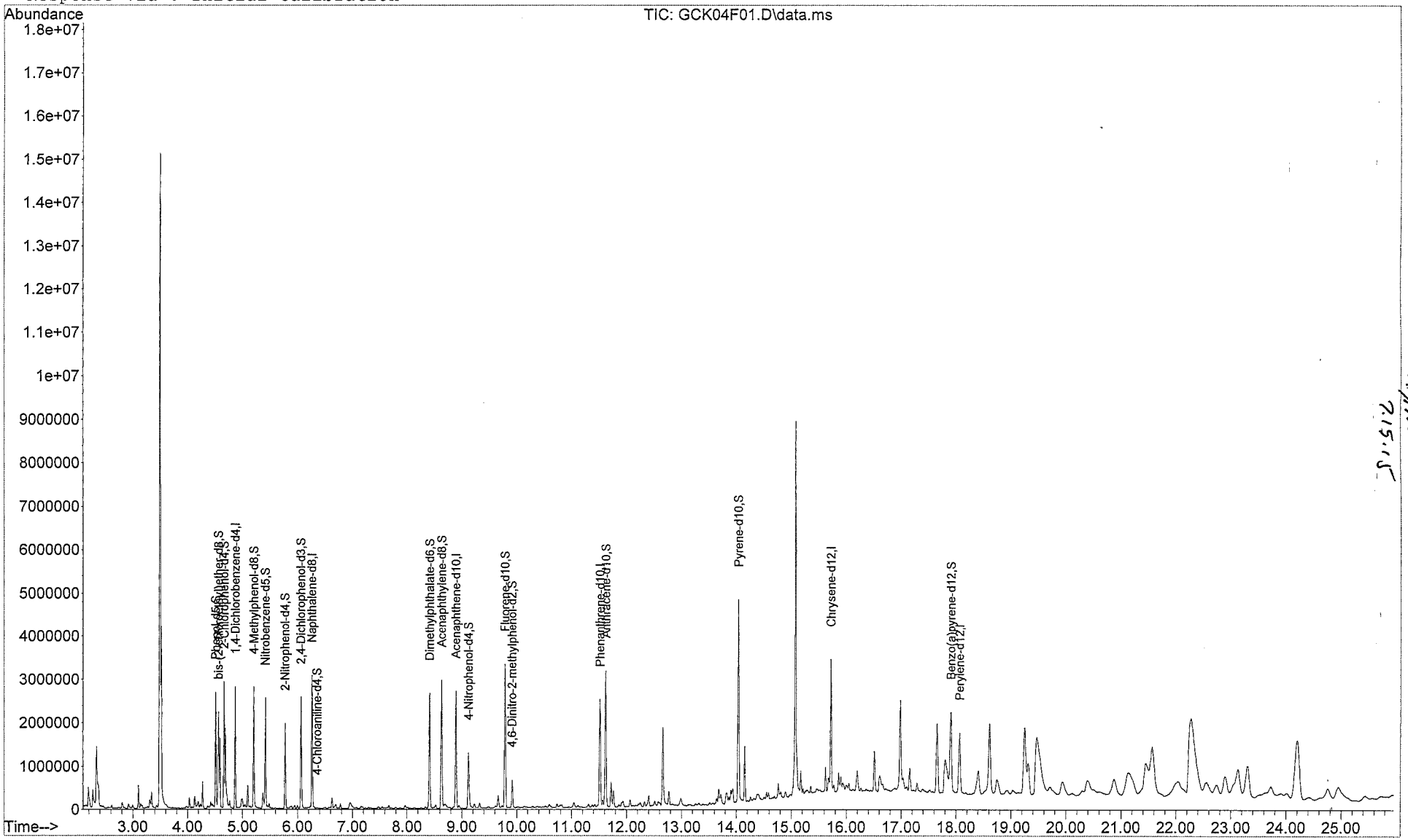
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:54:48 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration



GCK04F01.D GSOM01D6.M Tue Jul 14 15:11:08 2015 Page 3

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:54:48 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	389667	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1480979	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	845752	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1359862	20.00 ug/ml
73) Chrysene-d12	15.72	240	1253832	20.00 ug/ml
81) Perylene-d12	18.07	264	1000805	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	833396	24.577ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	521415	19.731ug/mL
7) 2-Chlorophenol-d4	4.66	132	674354	23.553ug/ml
13) 4-Methylphenol-d8	5.20	113	555868	24.508ug/mL
17) Nitrobenzene-d5	5.42	128	291074	22.373ug/ml
21) 2-Nitrophenol-d4	5.77	143	318572	23.166ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	550078	25.689ug/mL
28) 4-Chloroaniline-d4	6.36	131	9566	0.409ug/mL
42) Dimethylphthalate-d6	8.42	166	1452645	27.391ug/mL
45) Acenaphthylene-d8	8.63	160	1854971	25.738ug/mL
50) 4-Nitrophenol-d4	9.12	143	279873	25.868ug/mL
57) Fluorene-d10	9.79	176	1247799	27.551ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	109677	11.363ug/mL
69) Anthracene-d10	11.62	188	1949723	27.037ug/mL
75) Pyrene-d10	14.04	212	1802083	28.800ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1315972	27.441ug/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)

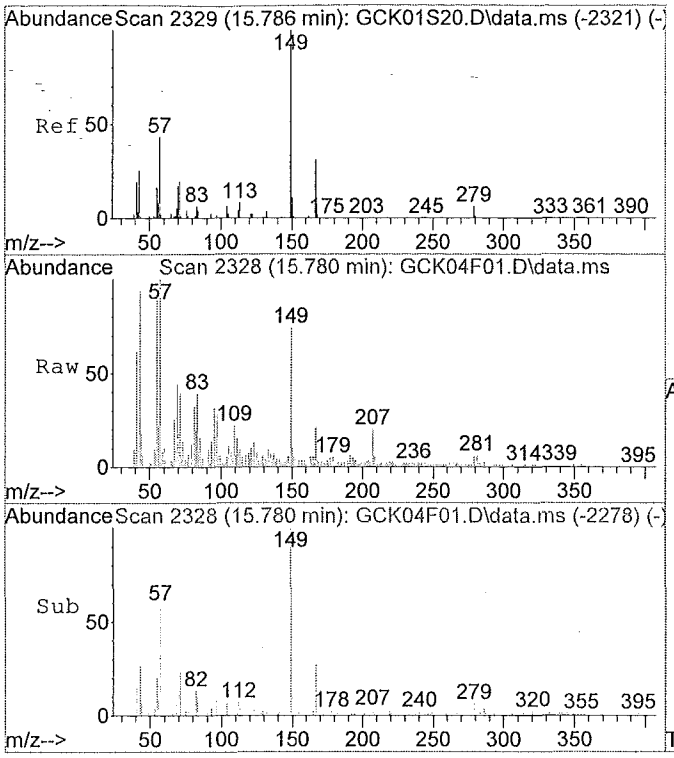
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:54:48 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 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	35518	0.573ug/ml	95
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

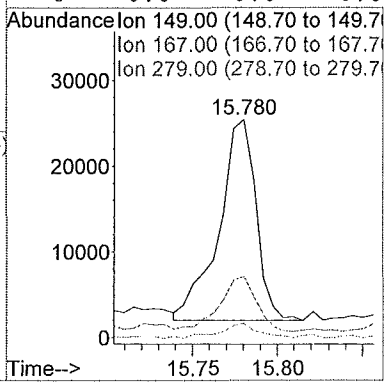
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.57 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCK04F01.D
Acq: 07/02/2015 12:29

Tgt Ion:149 Resp: 35518

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.0	40.8
279	7.2	5.0	9.2
0	0.0	0.0	0.0



Library Search Compound Report

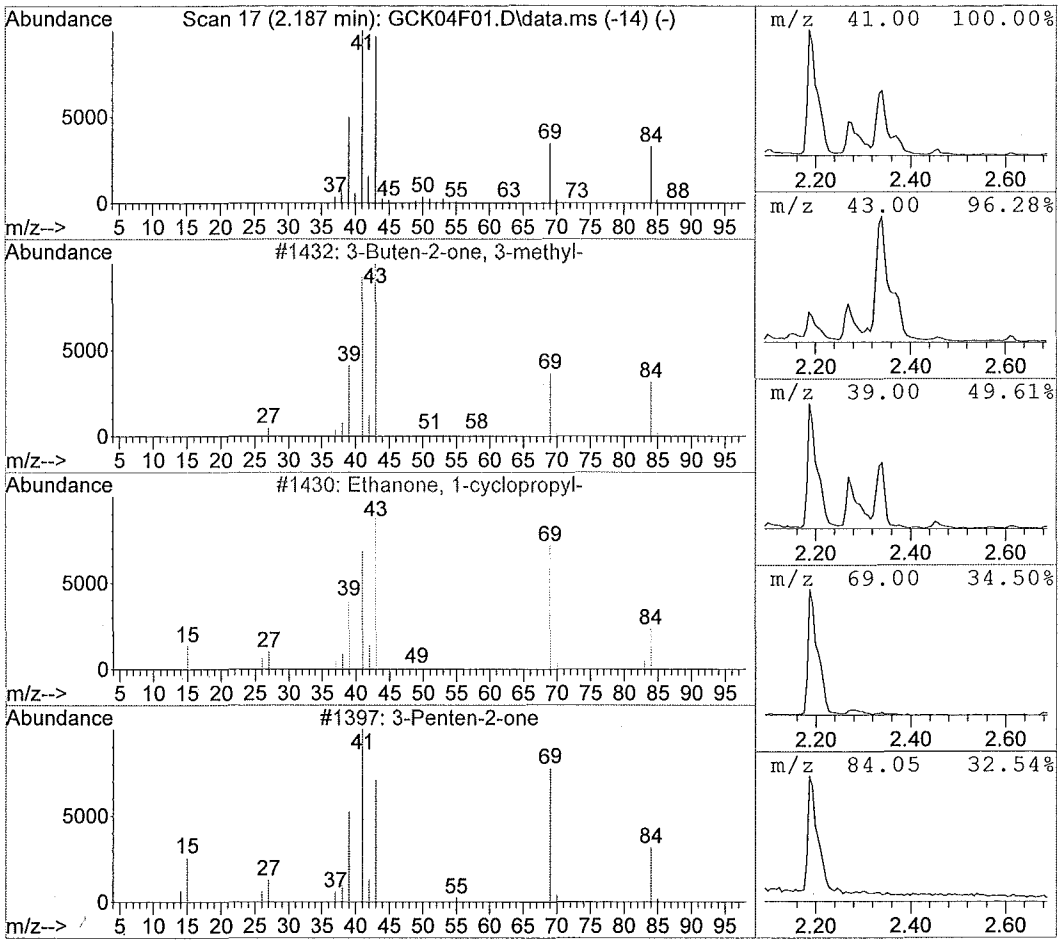
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.19	4.74 ug/ml	658303	1,4-Dichlorobenzene-d4	2778865

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	72.00
3	3-Penten-2-one	1397	000625-33-2	56.00
4	Propane, 1-nitro-	2167	000108-03-2	45.00
5	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	32.00



: 001182

Library Search Compound Report

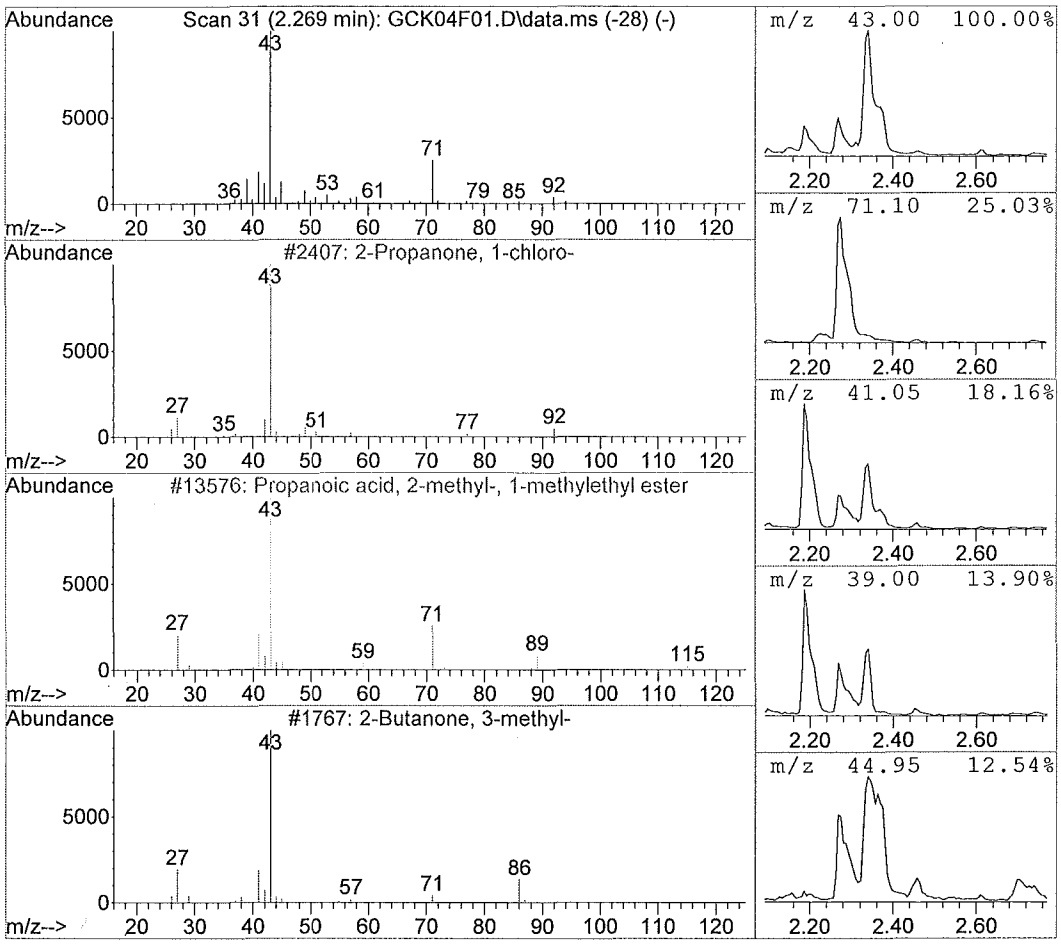
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.27	4.44 ug/ml	616637	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	46.00
2	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	36.00
3	2-Butanone, 3-methyl-	1767	000563-80-4	17.00
4	Methyl glyoxal	628	000078-98-8	12.00
5	Butanal, 2,2-dimethyl-	3861	002094-75-9	10.00



: 00183

Library Search Compound Report

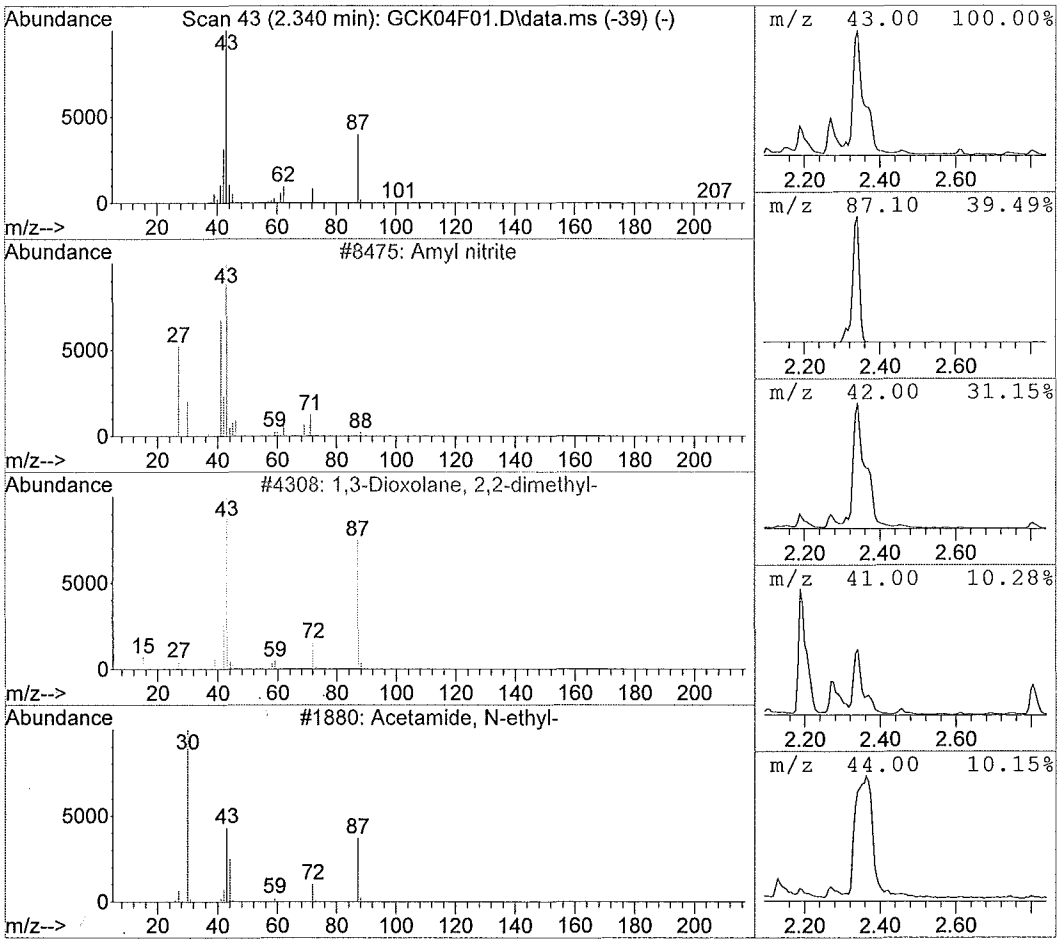
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	14.21 ug/ml	1973702	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amyl nitrite	8475	000463-04-7	28.00
2	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	23.00
3	Acetamide, N-ethyl-	1880	000625-50-3	12.00
4	Thiocyanic acid, ethyl ester	1856	000542-90-5	9.00
5	2-Pentanol, acetate	13419	000626-38-0	9.00



Library Search Compound Report

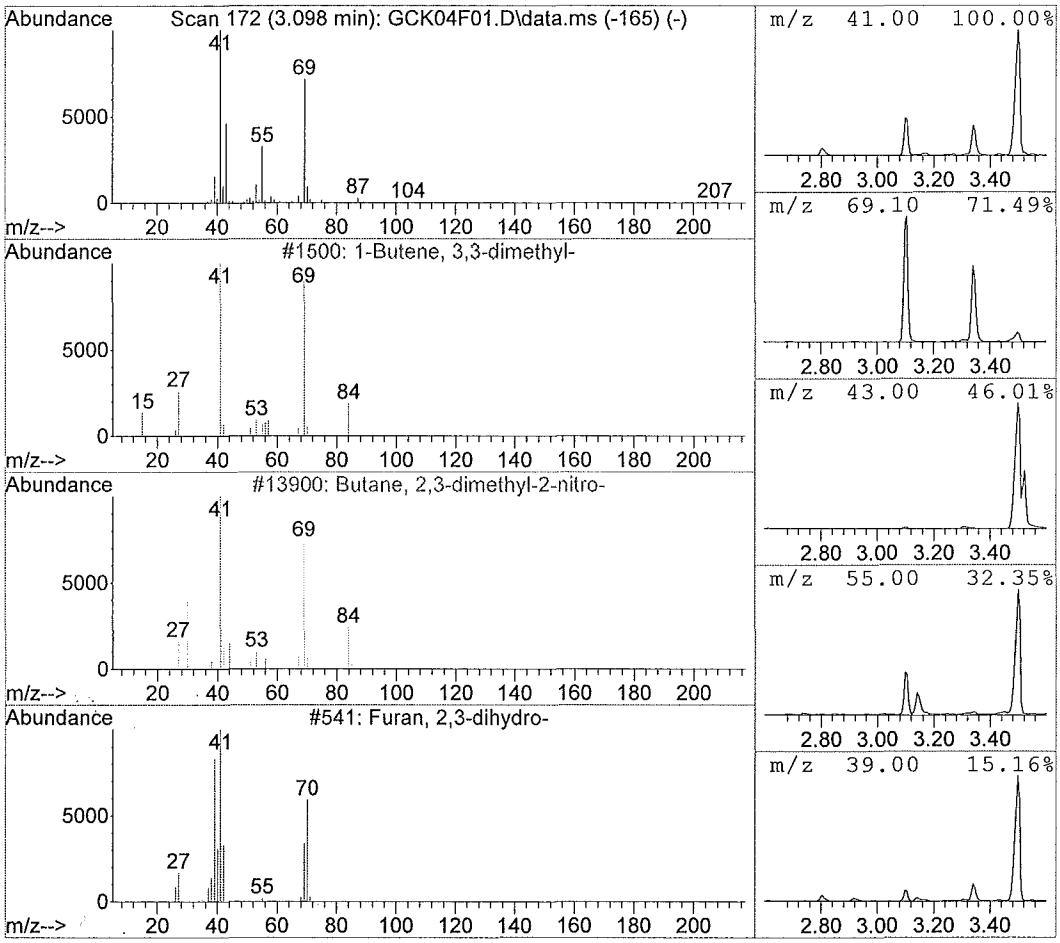
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.10	3.84 ug/ml	533723	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Butene, 3,3-dimethyl-	1500	000558-37-2	39.00
2	Butane, 2,3-dimethyl-2-nitro-	13900	034075-28-0	38.00
3	Furan, 2,3-dihydro-	541	001191-99-7	9.00
4	Isoxazole	476	000288-14-2	9.00
5	3-Methyl-3-nitrobut-1-ene	7751	001809-67-2	9.00



Library Search Compound Report

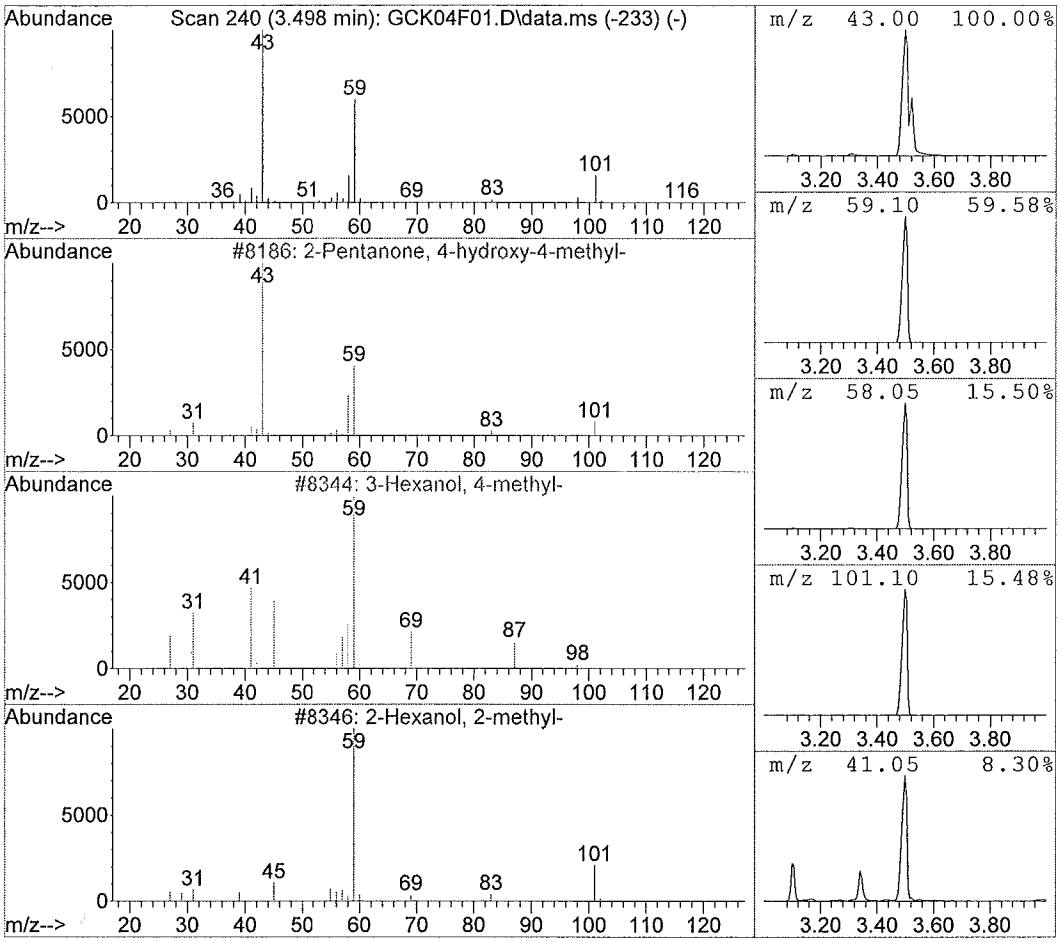
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	137.96 ug/ml	19168629	1,4-Dichlorobenzene-d4	2778865

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, 1,1-dimethylethyl este	8205	000540-88-5	25.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00



Library Search Compound Report

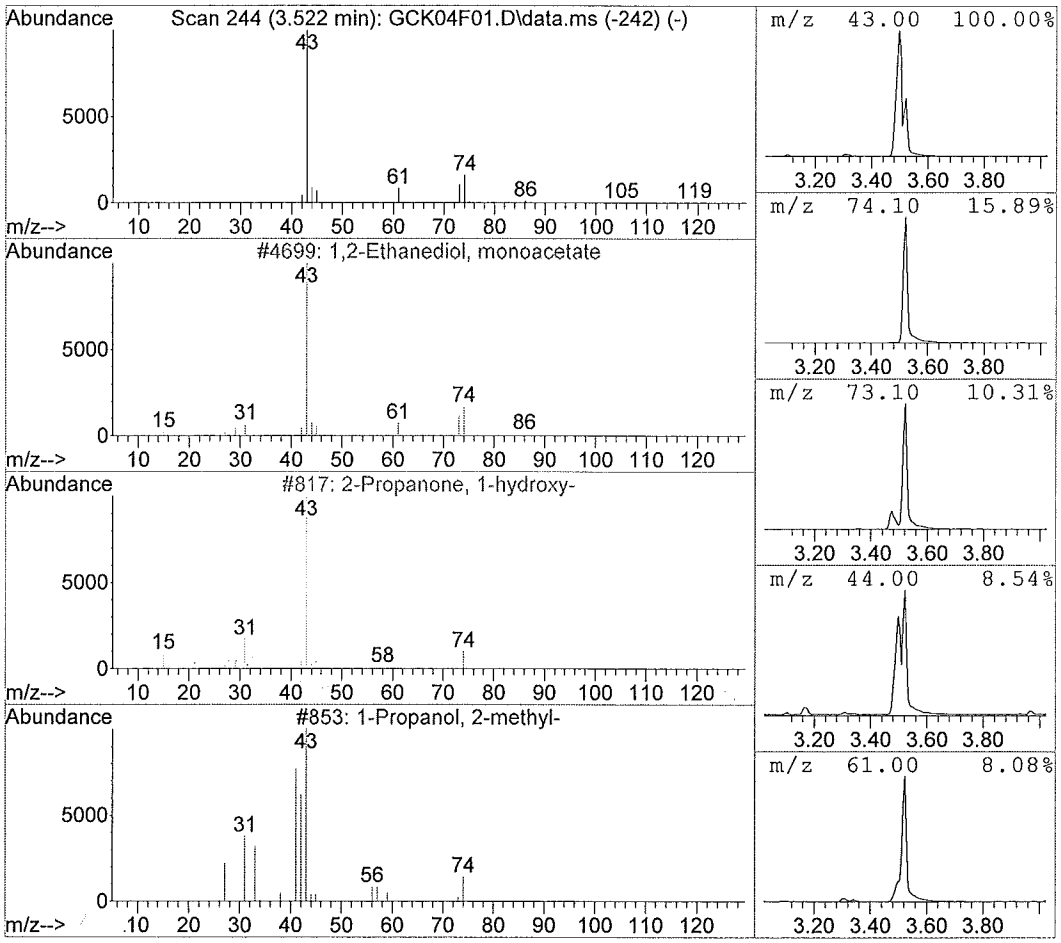
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	27.61 ug/ml	3835535	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol, monoacetate	4699	000542-59-6	78.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	9.00
3	1-Propanol, 2-methyl-	853	000078-83-1	7.00
4	Urea, methyl-	771	000598-50-5	5.00
5	Ethylamine	85	000075-04-7	5.00



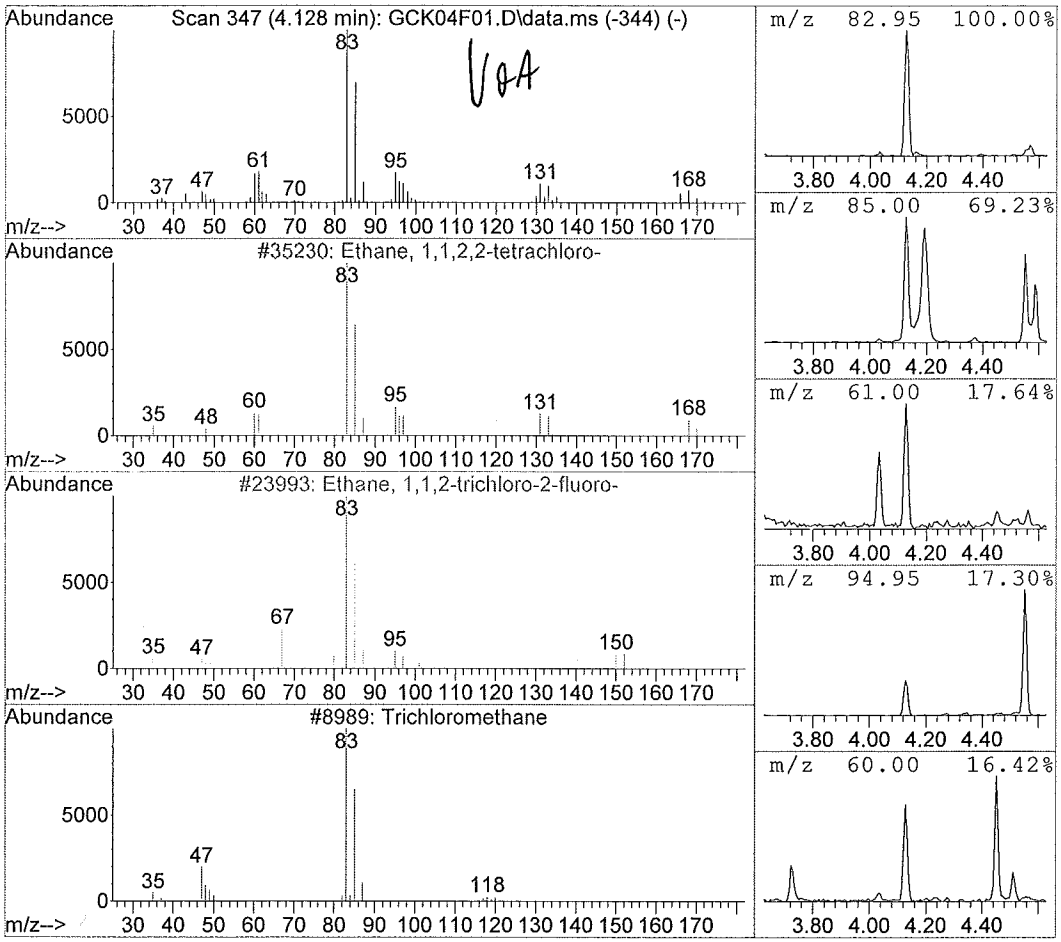
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.55 ug/ml	354247	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	96.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Trichloromethane	8989	000067-66-3	53.00
4	Methane, dichloronitro-	13083	007119-89-3	50.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	45.00



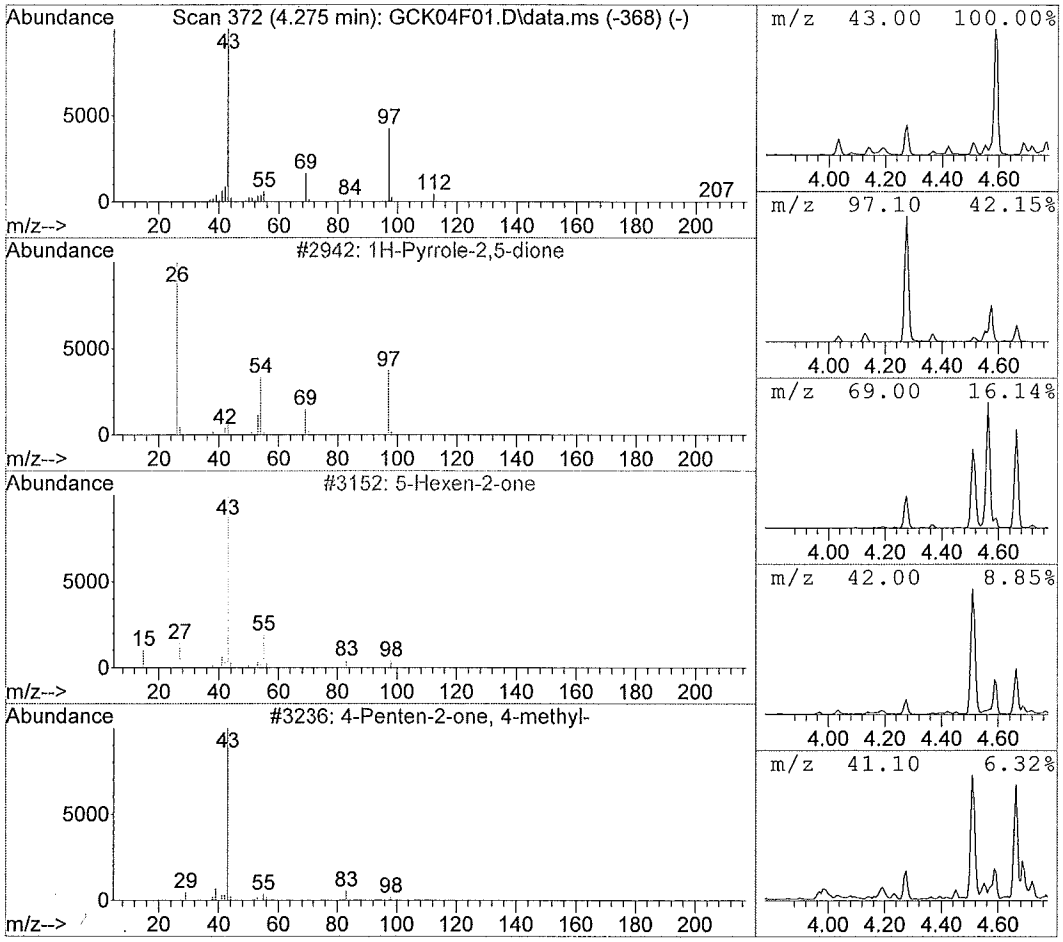
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.31 ug/ml	598601	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	5-Hexen-2-one	3152	000109-49-9	10.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	2-Vinylethyl acetate	7190	001576-84-7	9.00



Library Search Compound Report

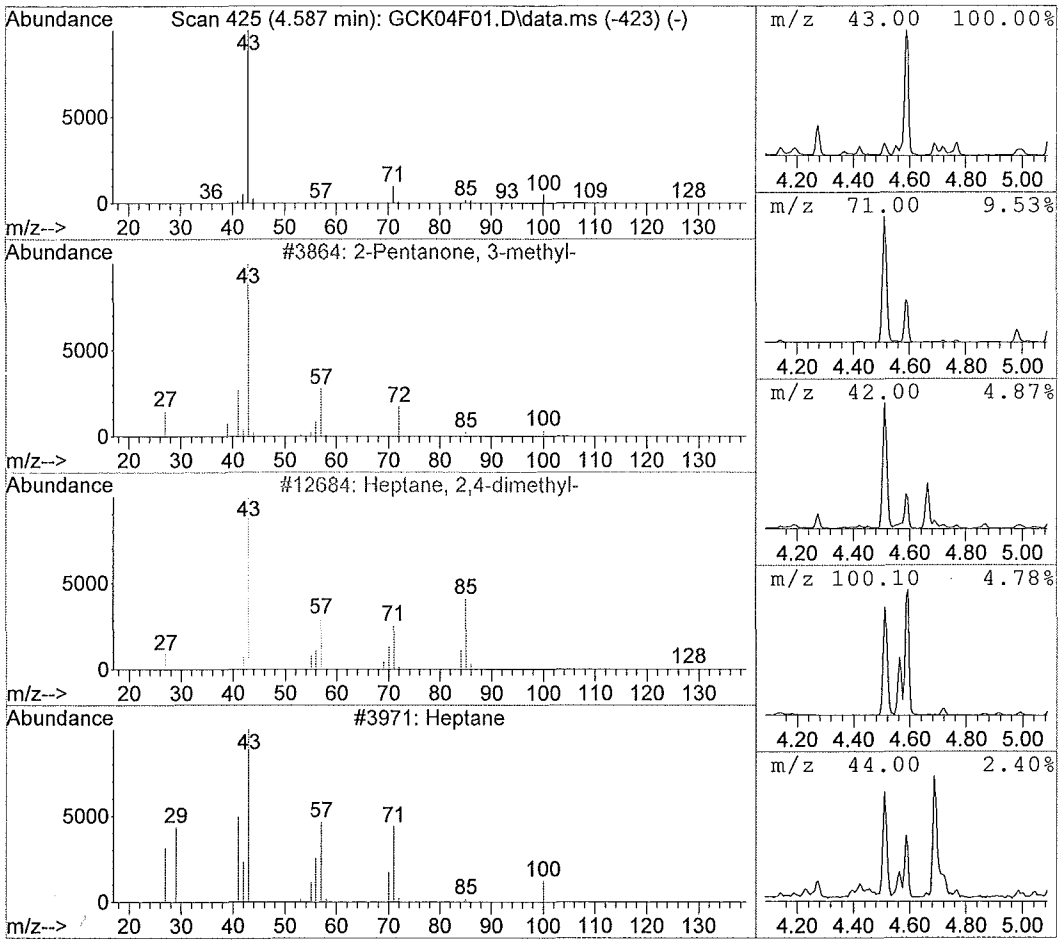
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	10.48 ug/ml	1456295	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	Heptane	3971	000142-82-5	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Pentane, 2-methyl-	1823	000107-83-5	4.00



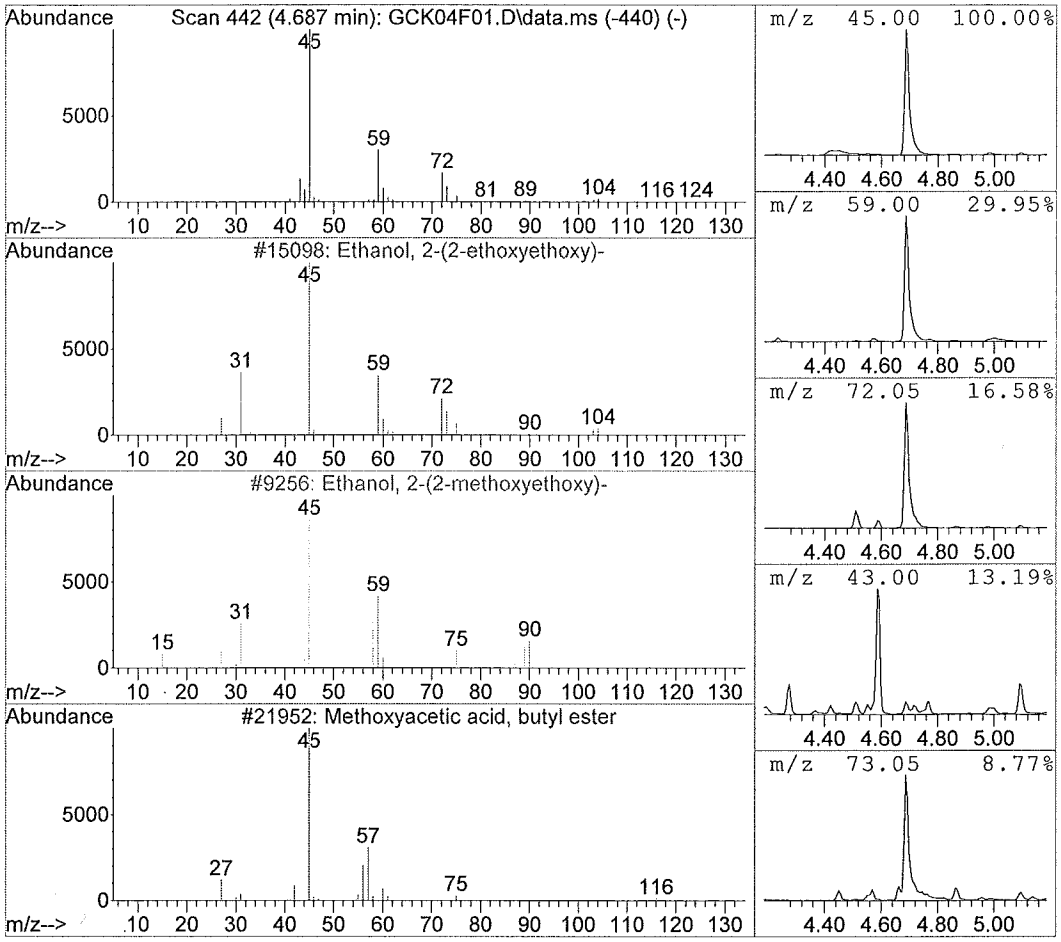
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	16.04 ug/ml	2228426	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	74.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	Methoxyacetic acid, butyl ester	21952	017640-22-1	36.00
4	(S)-(+)-1,2-Propanediol	946	004254-15-3	33.00
5	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00



Library Search Compound Report

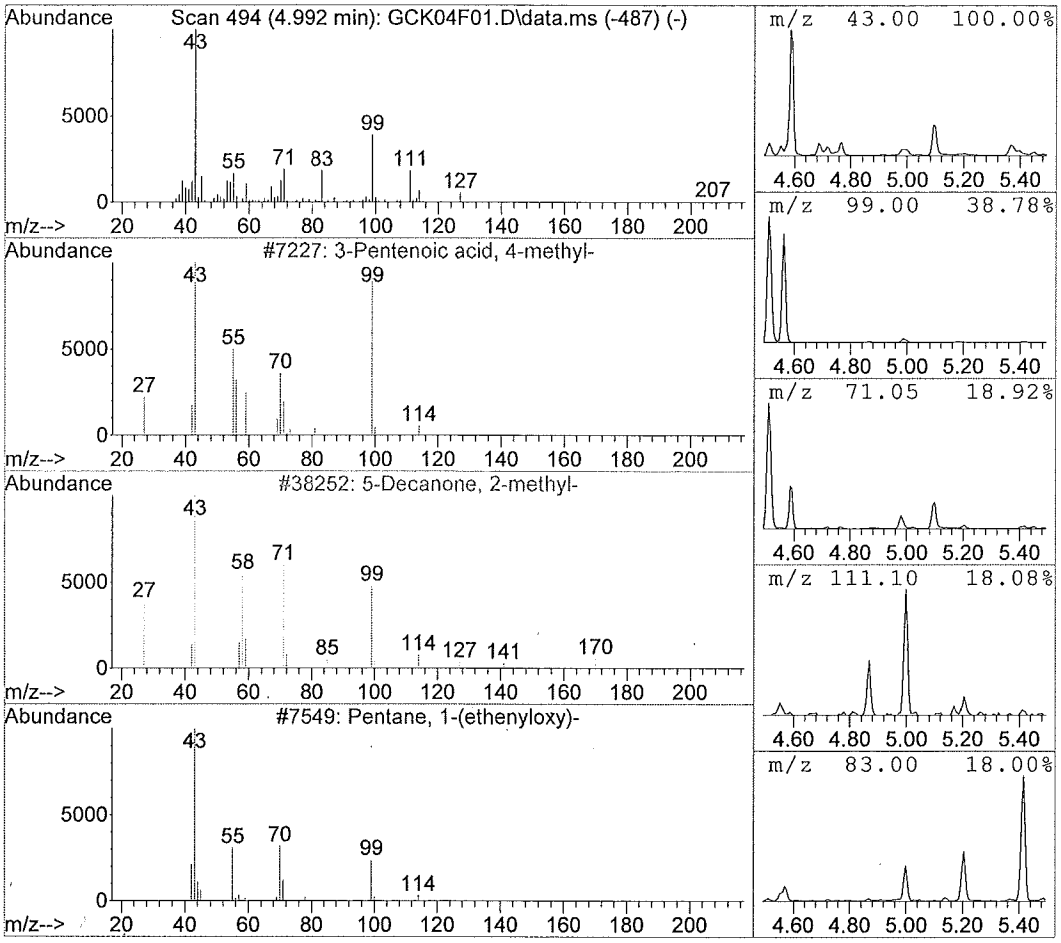
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.99	3.05 ug/ml	424310	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	43.00
2	5-Decanone, 2-methyl-	38252	054410-89-8	38.00
3	Pentane, 1-(ethenyloxy)-	7549	005363-63-3	35.00
4	.beta.-Acetylacrylic acid	7120	004743-82-2	23.00
5	6-Undecanone	38232	000927-49-1	23.00



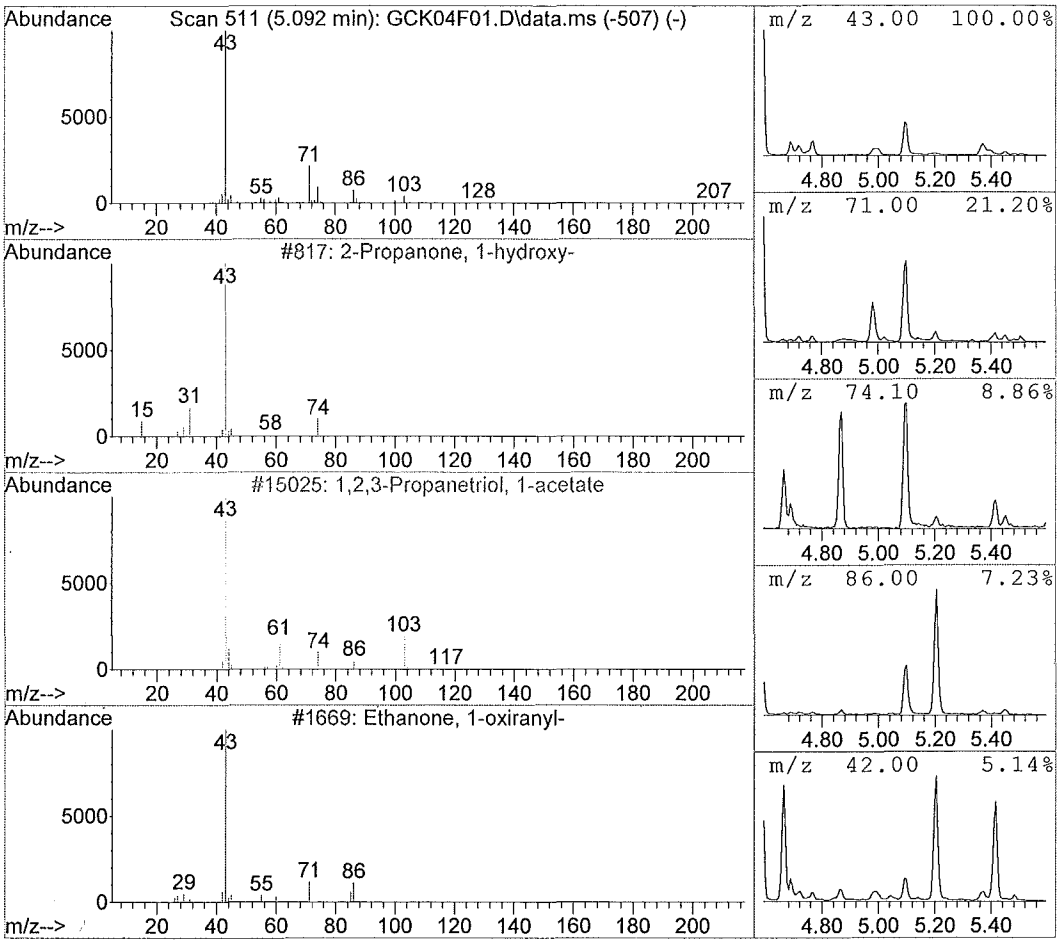
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.09	3.90 ug/ml	541556	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	13.00
3	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
4	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	9.00
5	2-Butanone, 3-methyl-	1769	000563-80-4	9.00



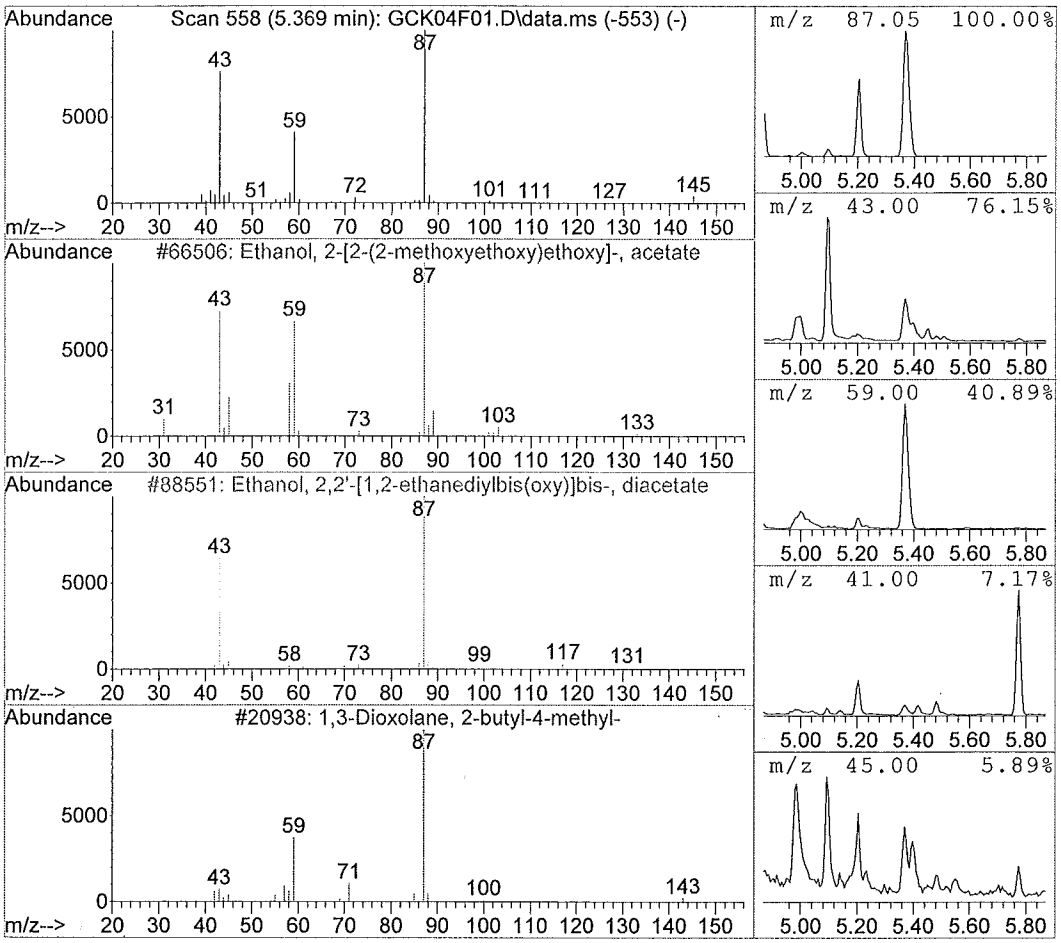
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.37	3.64 ug/ml	505392	1,4-Dichlorobenzene-d4	2778865

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-[2-(2-methoxyethoxy)etho	66506	003610-27-3	56.00
2	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	50.00
3	1,3-Dioxolane, 2-butyl-4-methyl-	20938	074094-60-3	39.00
4	2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]	139063	1000351-91-3	39.00
5	Hydrazine, 1,1-diethyl-2-(1-methylp	21077	067398-40-7	38.00



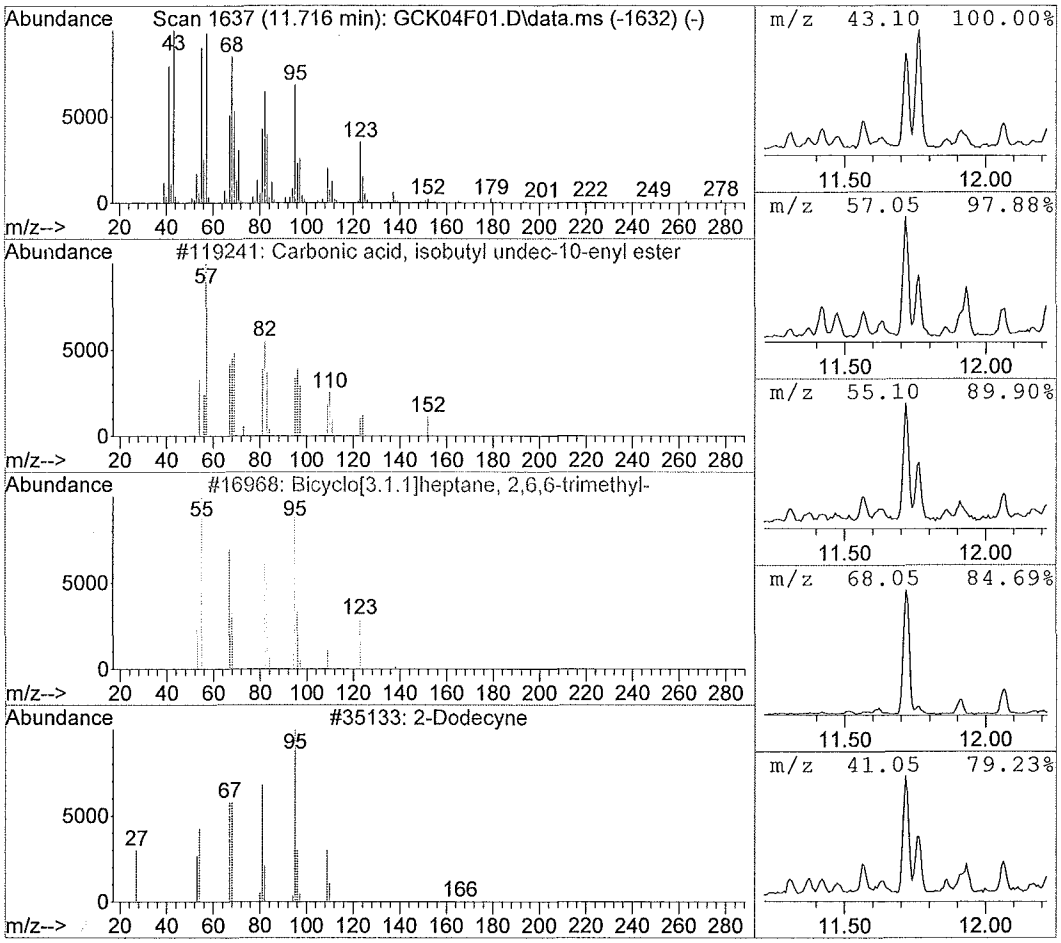
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.72	4.32 ug/ml	799872	Phenanthrene-d10	3700247

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbonic acid, isobutyl undec-10-en	119241	1000314-60-8	58.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16968	000473-55-2	53.00
3	2-Dodecyne	35133	000629-49-2	46.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	45.00
5	9-Tetradecen-1-ol, (E)-	71327	052957-16-1	43.00



Library Search Compound Report

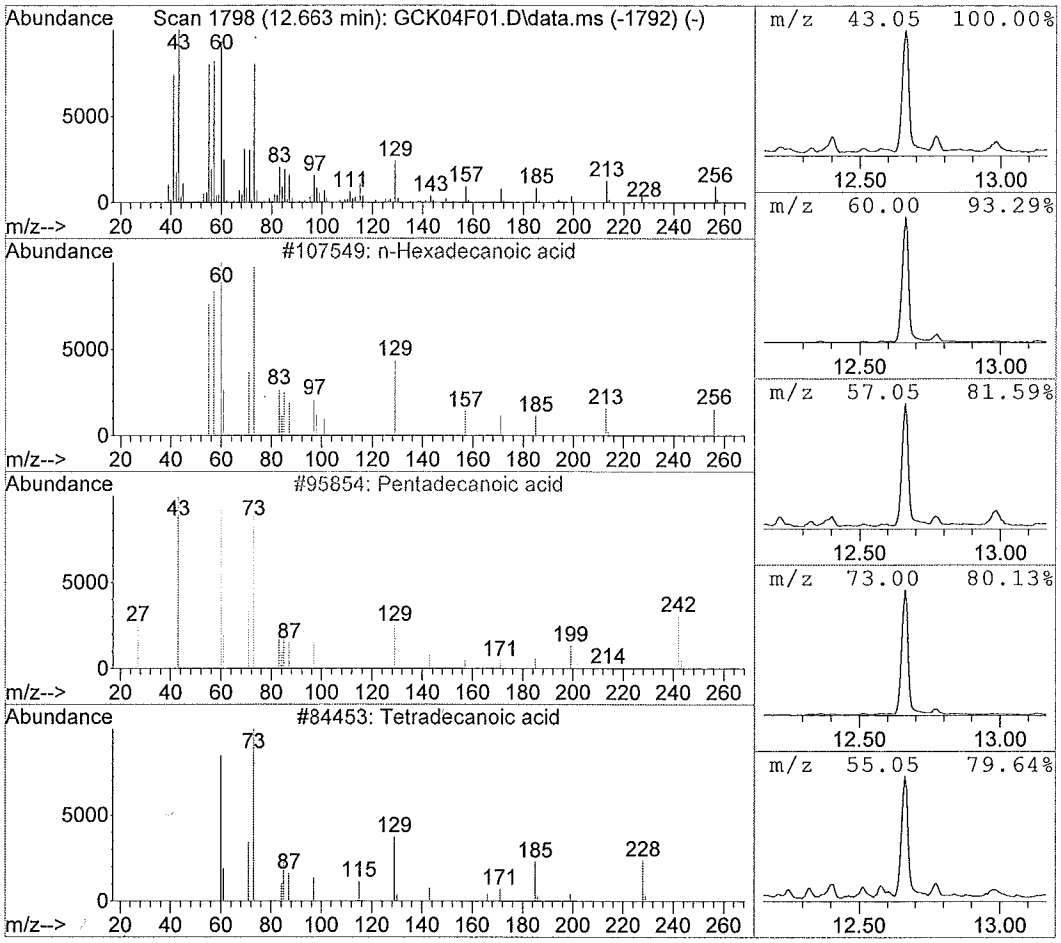
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	16.10 ug/ml	2978702	Phenanthrene-d10	3700247

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	83.00
3	Tetradecanoic acid	84453	000544-63-8	72.00
4	Undecanoic acid	50052	000112-37-8	64.00
5	Tridecanoic acid	72646	000638-53-9	64.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

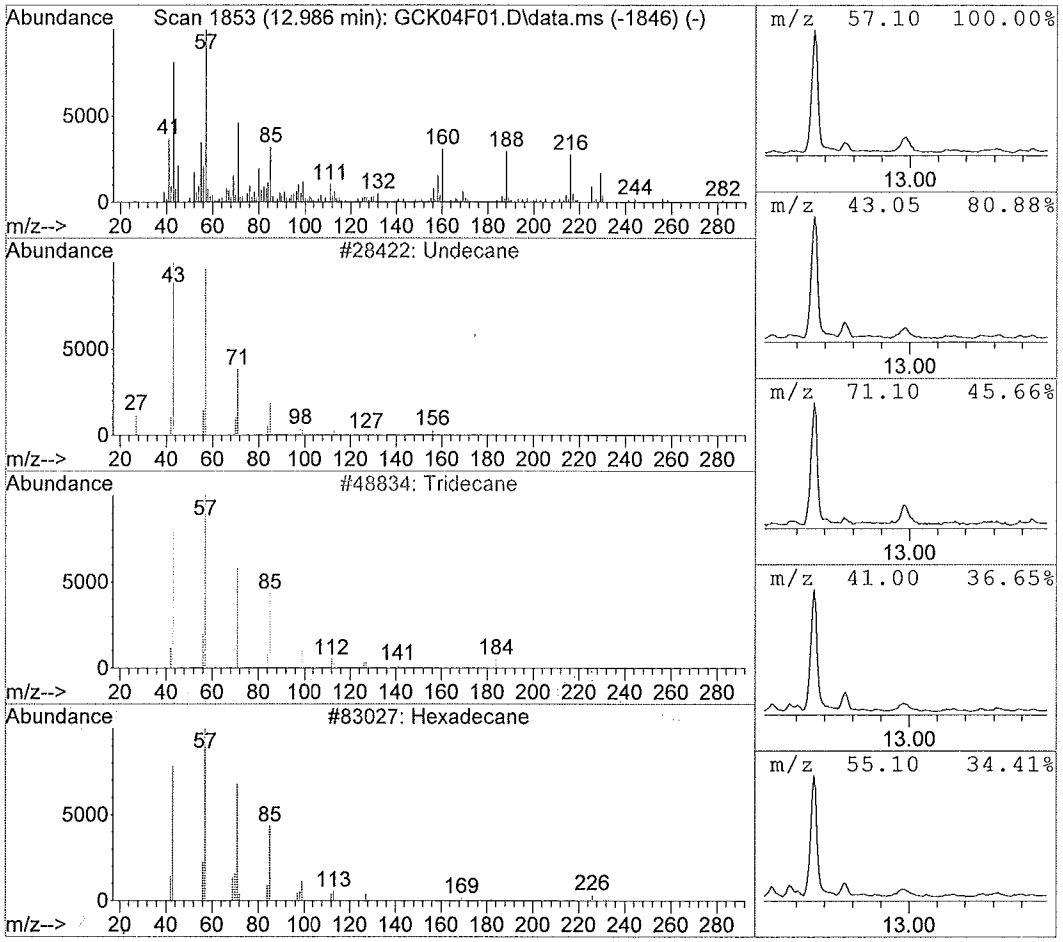
Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.14 ug/ml	395515	Phenanthrene-d10	3700247

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane	28422	001120-21-4	38.00
2	Tridecane	48834	000629-50-5	38.00
3	Hexadecane	83027	000544-76-3	25.00
4	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	25.00
5	Nonadecane	117637	000629-92-5	25.00

SCA



00197

Library Search Compound Report

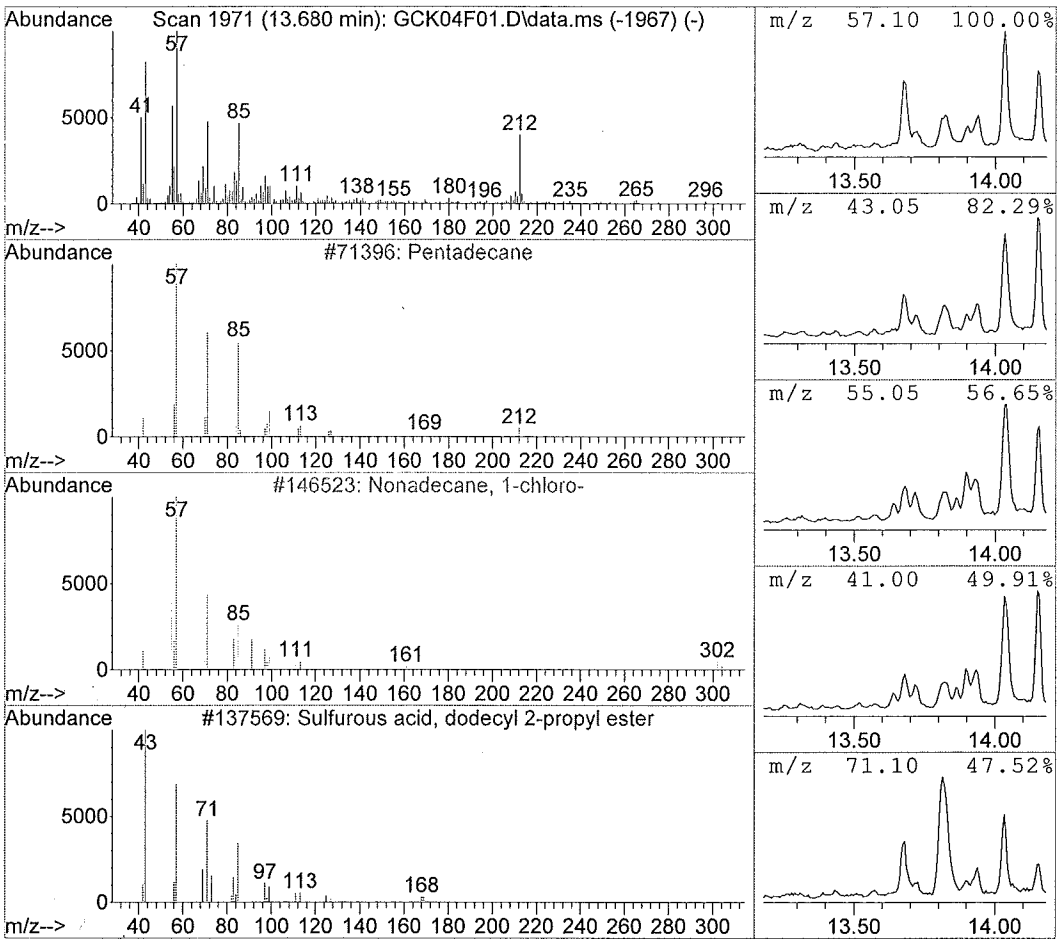
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.32 ug/ml	421086	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	71396	000629-62-9	74.00
2	Nonadecane, 1-chloro-	146523	062016-76-6	55.00
3	Sulfurous acid, dodecyl 2-propyl es	137569	1000309-12-3	49.00
4	Sulfurous acid, 2-propyl tridecyl e	149373	1000309-12-4	49.00
5	Sulfurous acid, 2-propyl tetradecyl	161094	1000309-12-5	49.00

SCA



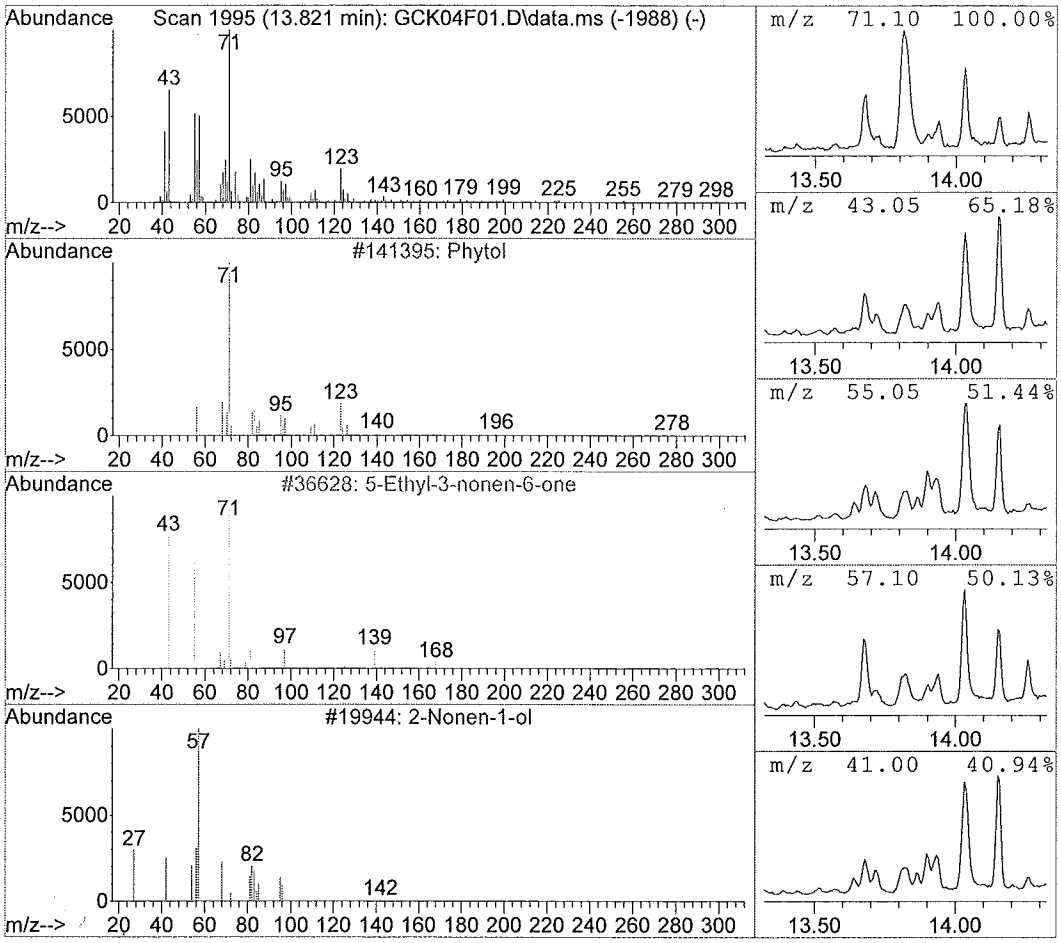
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.82	3.55 ug/ml	643652	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phytol	141395	000150-86-7	87.00
2	5-Ethyl-3-nonen-6-one	36628	1000374-06-6	38.00
3	2-Nonen-1-ol	19944	022104-79-6	15.00
4	Stearic acid hydrazide	143051	004130-54-5	15.00
5	Isobutyl tetradecyl carbonate	156543	959275-58-2	11.00



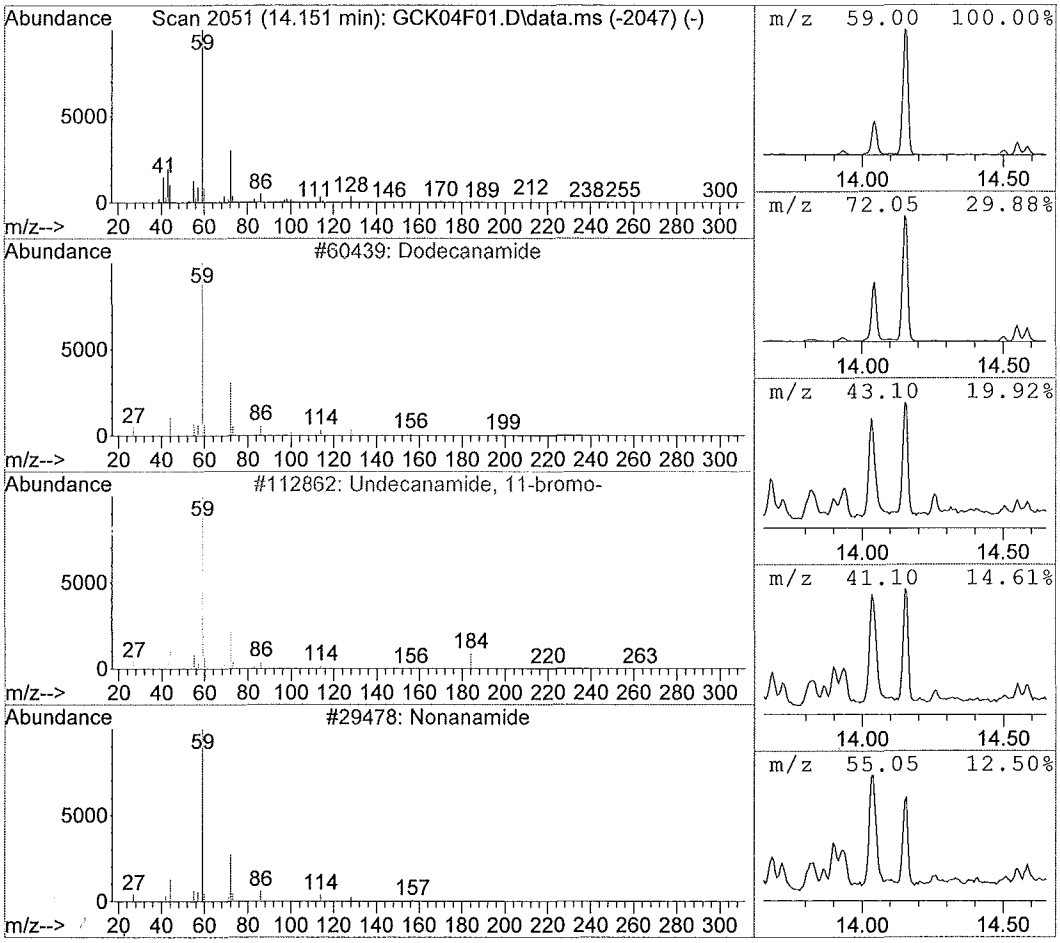
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	8.75 ug/ml	1585713	Chrysene-d12	3622995

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	Nonanamide	29478	001120-07-6	83.00
4	Decanamide-	38977	002319-29-1	74.00
5	Tetradecanamide	83609	000638-58-4	74.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

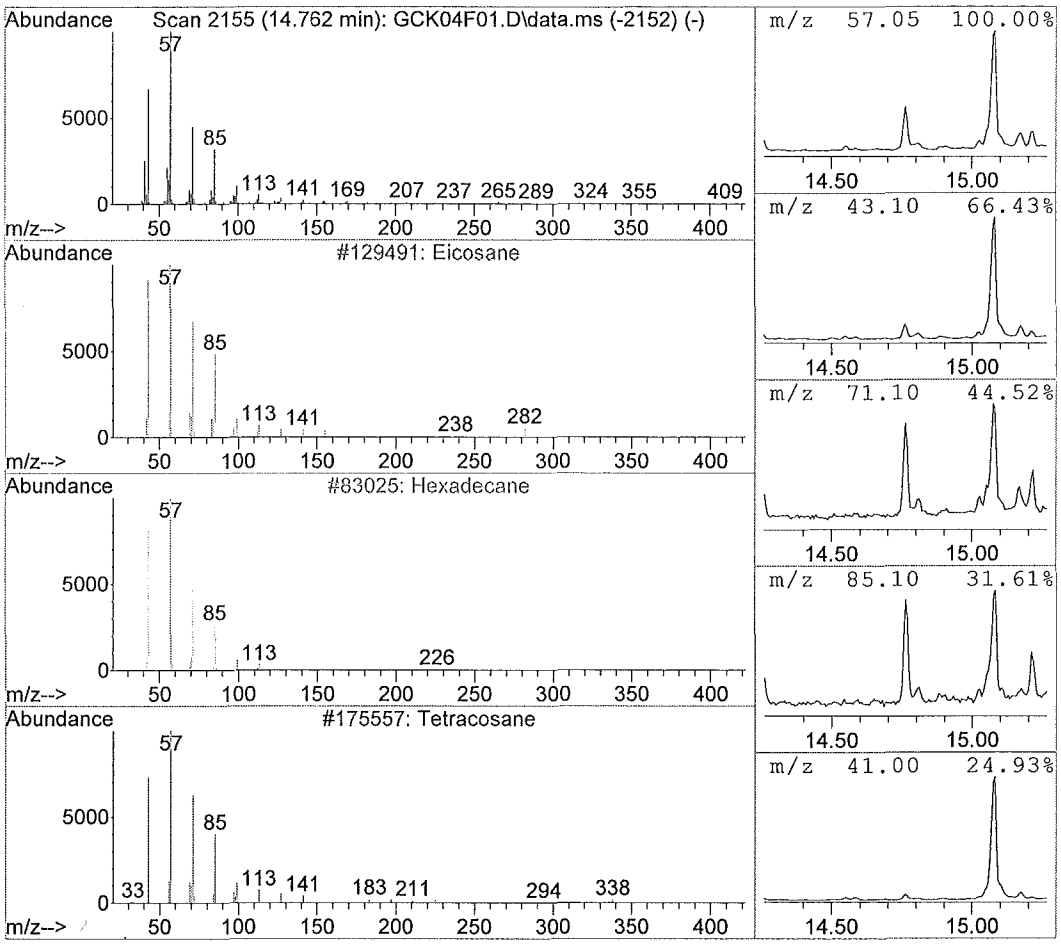
Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.76	2.03 ug/ml	366891	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129491	000112-95-8	97.00
2	Hexadecane	83025	000544-76-3	93.00
3	Tetracosane	175557	000646-31-1	90.00
4	Heptadecane	94345	000629-78-7	86.00
5	Nonadecane	117638	000629-92-5	86.00

SCA



Library Search Compound Report

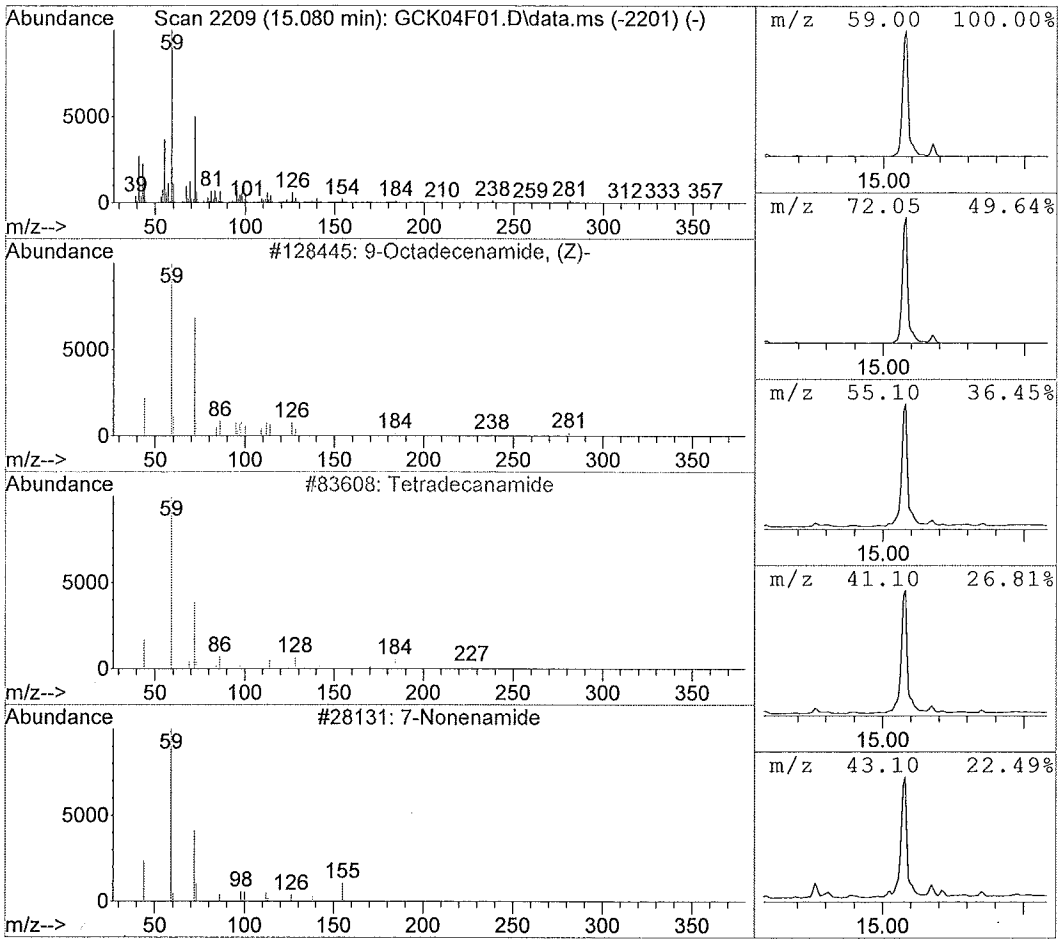
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	60.91 ug/ml	11033017	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83608	000638-58-4	56.00
3	7-Nonenamide	28131	090949-53-4	56.00
4	Octanamide	20317	000629-01-6	56.00
5	Hexadecanamide	106565	000629-54-9	56.00



Library Search Compound Report

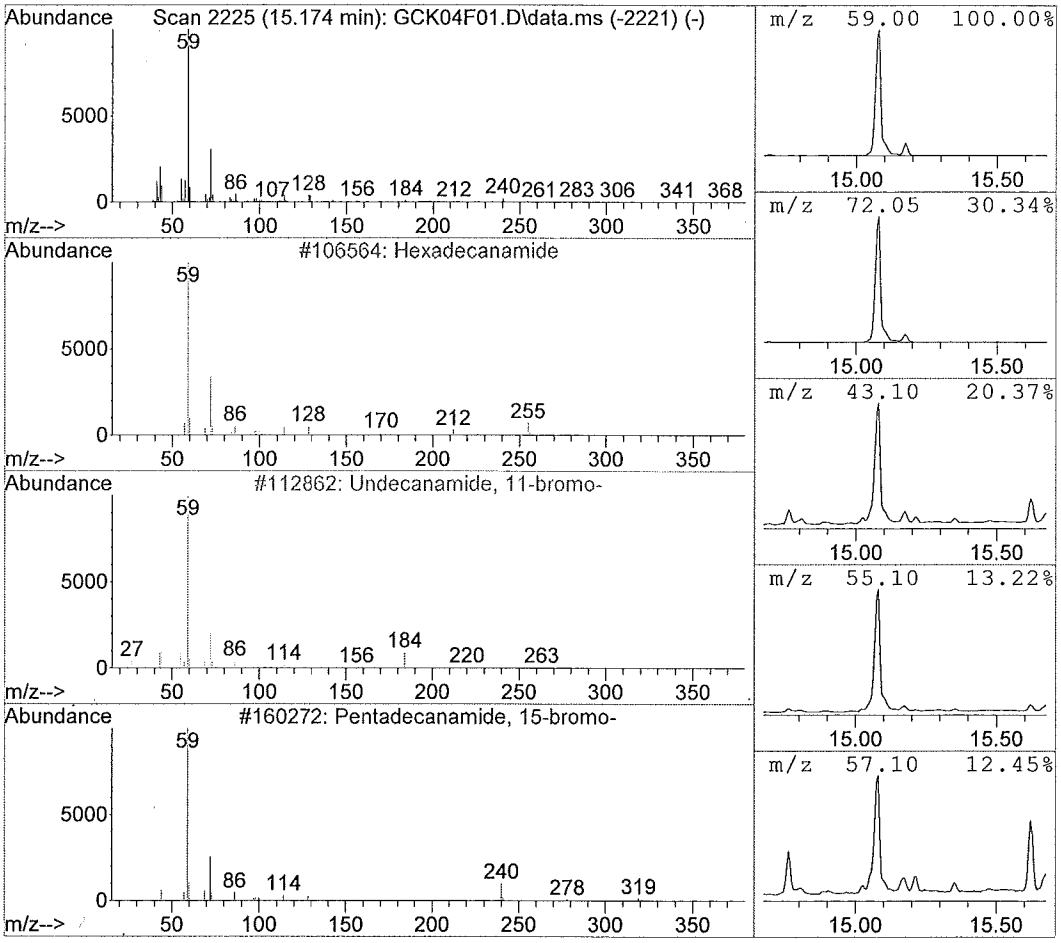
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.20 ug/ml	580153	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	86.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00
4	Dodecanamide	60439	001120-16-7	72.00
5	Pentanamide	4062	000626-97-1	59.00



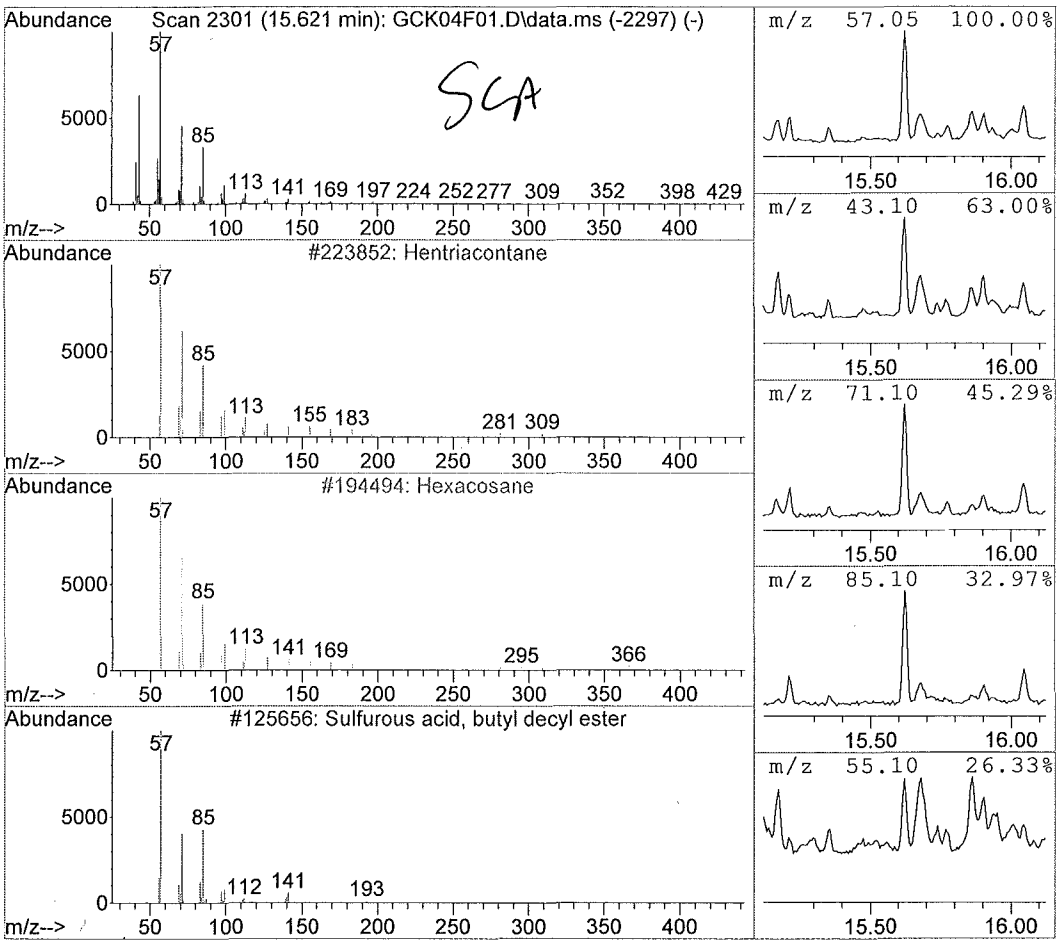
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.62	3.20 ug/ml	579725	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223852	000630-04-6	91.00
2	Hexacosane	194494	000630-01-3	91.00
3	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	90.00
4	Tetradecane, 6,9-dimethyl-	83045	055045-13-1	87.00
5	Tetracosane	175557	000646-31-1	86.00



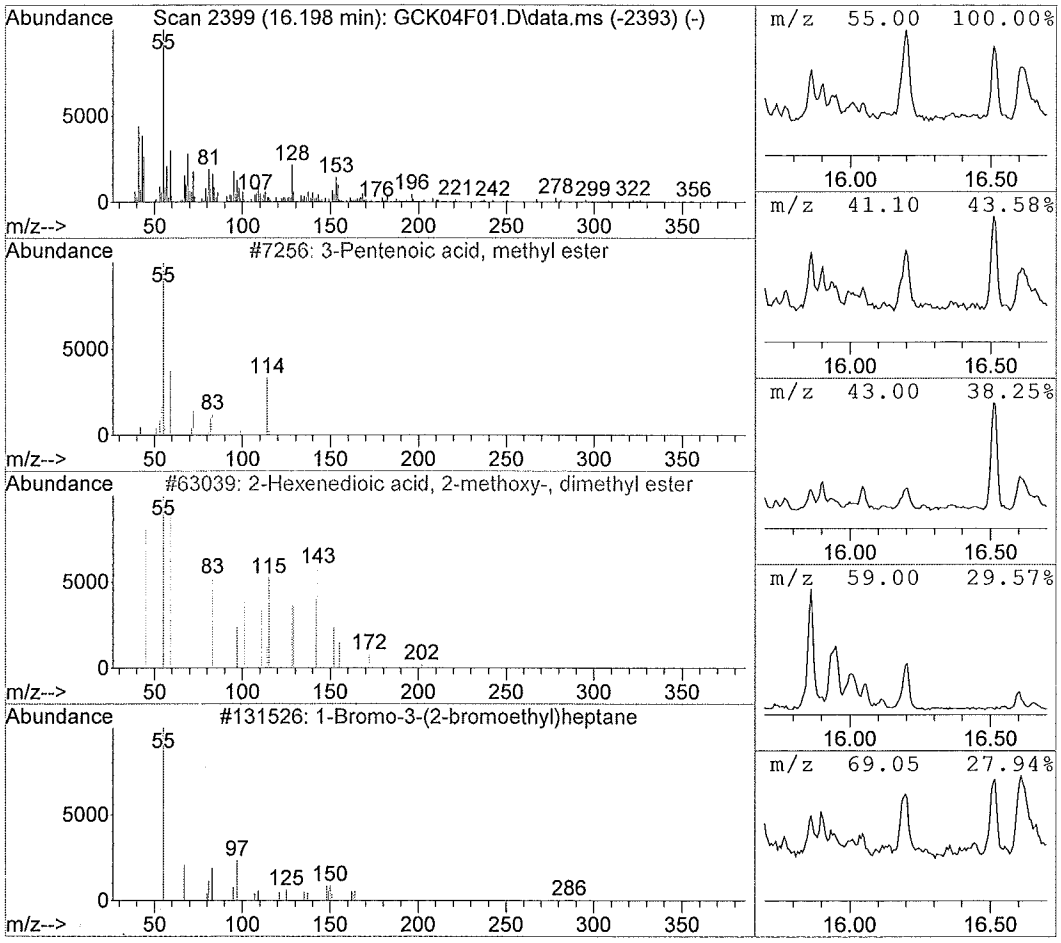
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	5.15 ug/ml	933077	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	27.00
2	2-Hexenedioic acid, 2-methoxy-, dim	63039	056114-71-7	25.00
3	1-Bromo-3-(2-bromoethyl)heptane	131526	070928-47-1	14.00
4	5-Undecene, (E)-	27038	000764-97-6	14.00
5	Cyclopropane, 1,2-dibutyl-	27073	041977-32-6	11.00



Library Search Compound Report

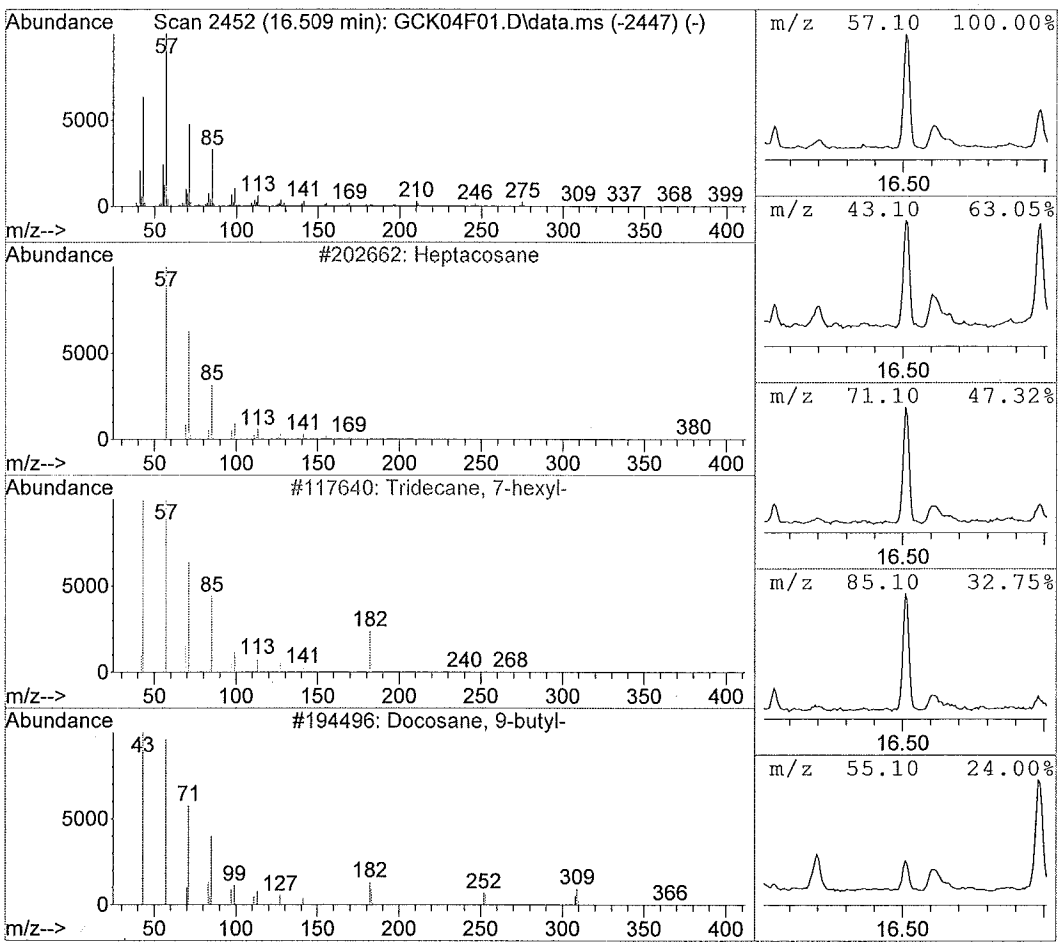
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	8.36 ug/ml	1513652	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	99.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
3	Docosane, 9-butyl-	194496	055282-14-9	93.00
4	Eicosane, 3-methyl-	141428	006418-46-8	93.00
5	Octadecane, 5,14-dibutyl-	194506	055282-13-8	91.00

SCA



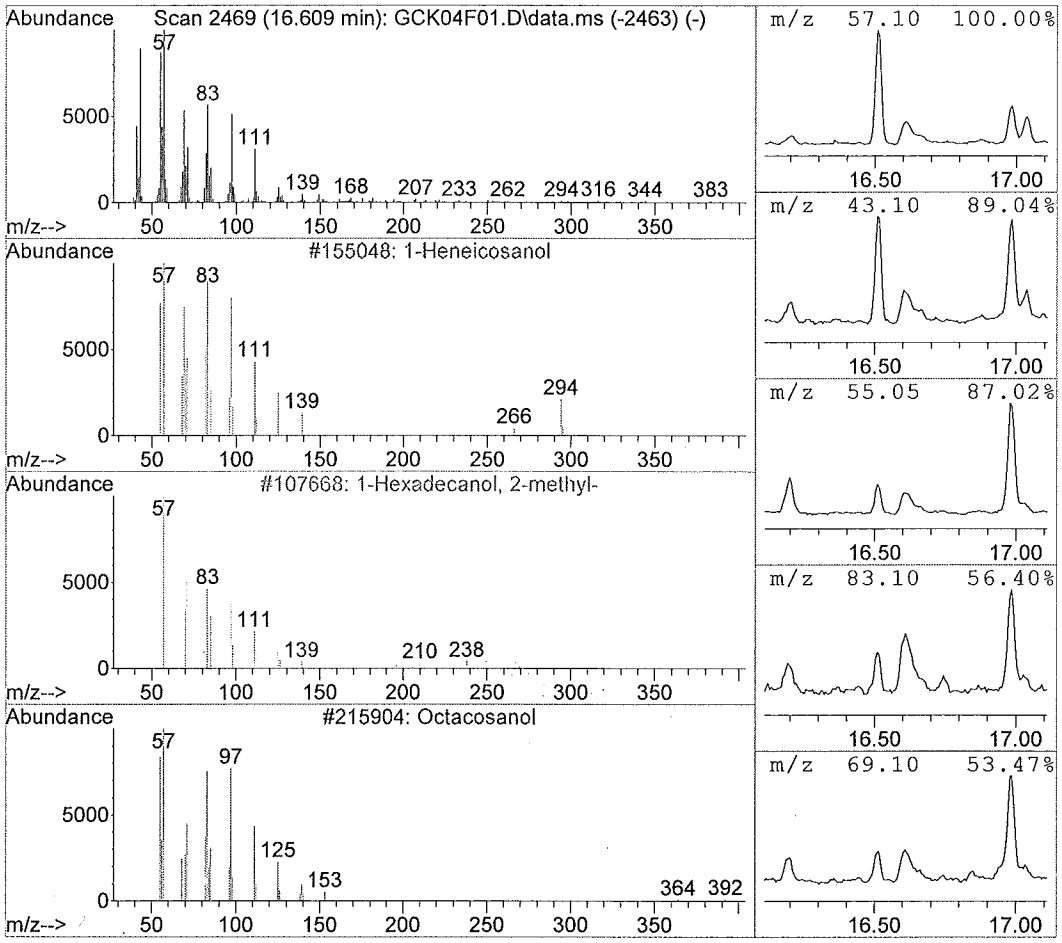
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.61	5.39 ug/ml	976512	Chrysene-d12	3622995

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Heneicosanol	155048	015594-90-8	87.00
2	1-Hexadecanol, 2-methyl-	107668	002490-48-4	83.00
3	Octacosanol	215904	000557-61-9	83.00
4	Behenic alcohol	166292	000661-19-8	83.00
5	1-Heptacosanol	210517	002004-39-9	80.00



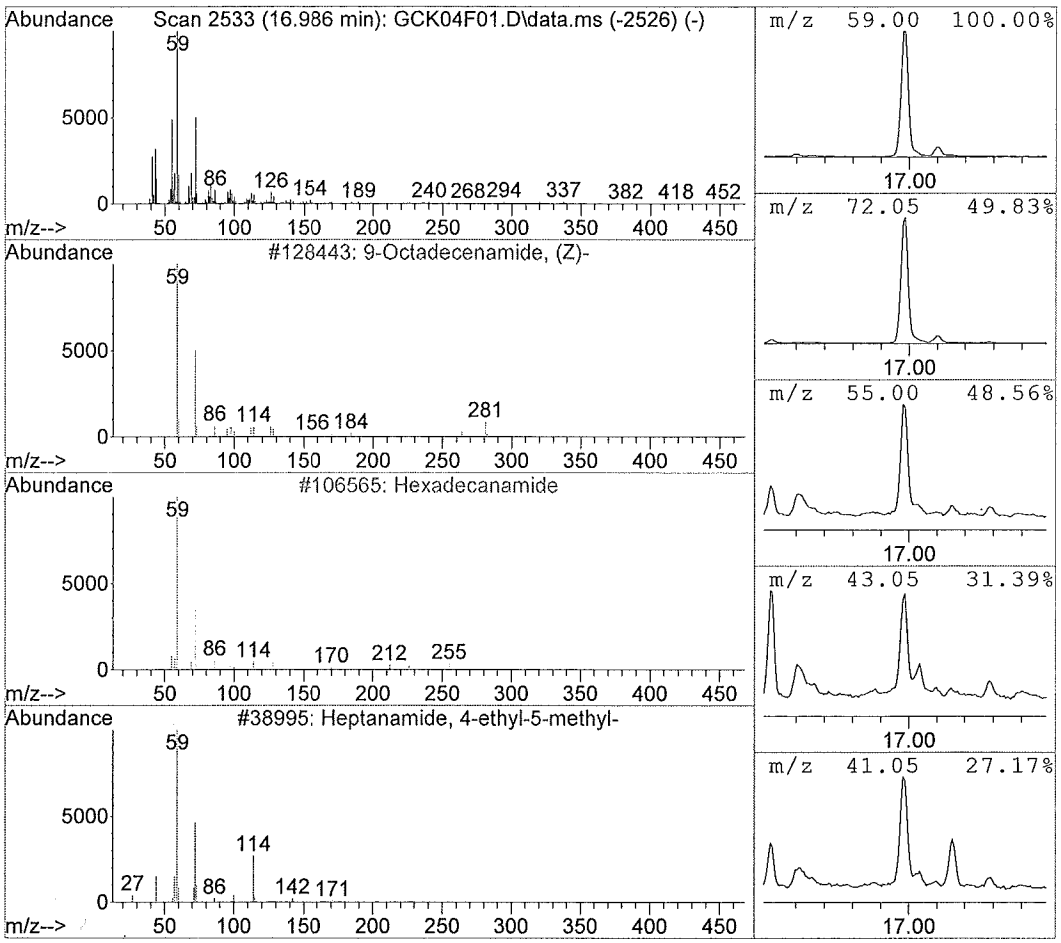
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	24.41 ug/ml	3484688	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Tetradecanamide	83608	000638-58-4	56.00
5	Nonanamide	29478	001120-07-6	53.00



Library Search Compound Report

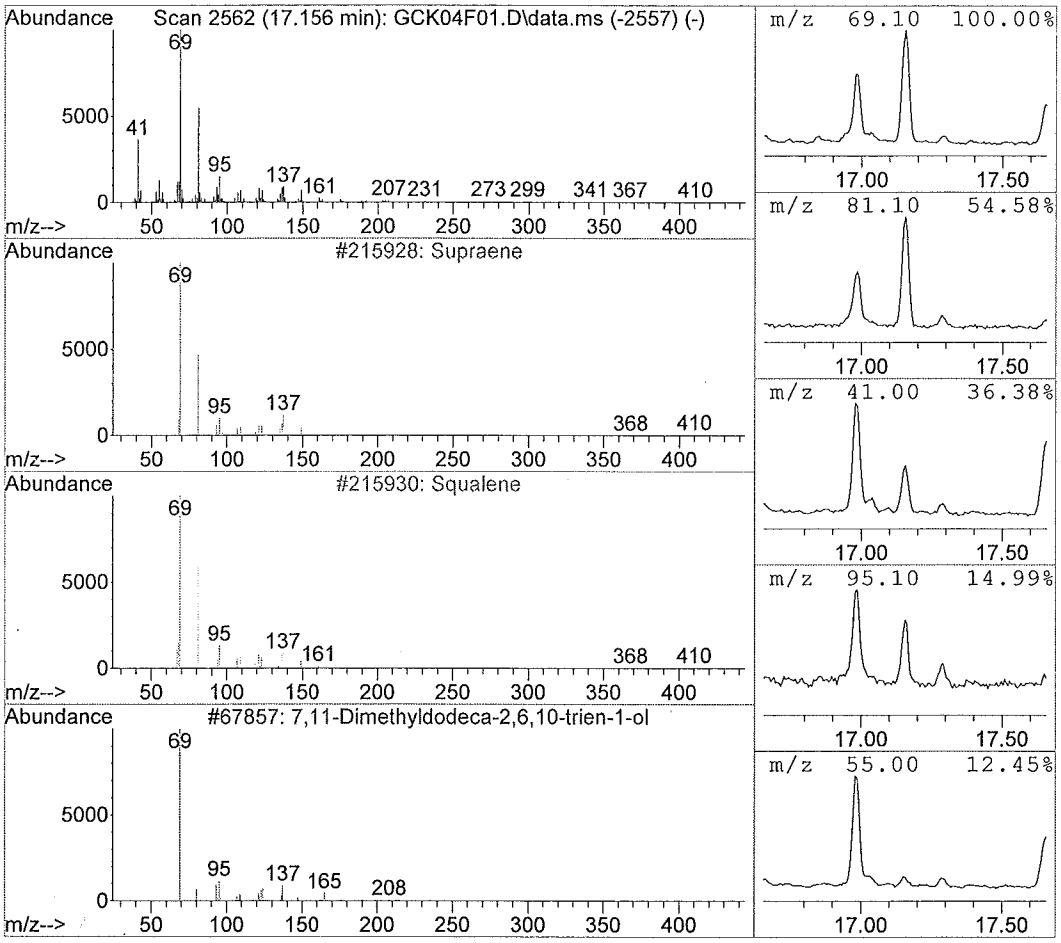
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	6.24 ug/ml	890799	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Supraene	215928	007683-64-9	96.00
2	Squalene	215930	000111-02-4	95.00
3	7,11-Dimethyldodeca-2,6,10-trien-1-	67857	125529-10-4	72.00
4	4,8,12-Tetradecatrienal, 5,9,13-tri	100905	066408-55-7	72.00
5	4,8,12-Tetradecatrienenitrile, 5,9,	98277	005981-31-7	64.00



Library Search Compound Report

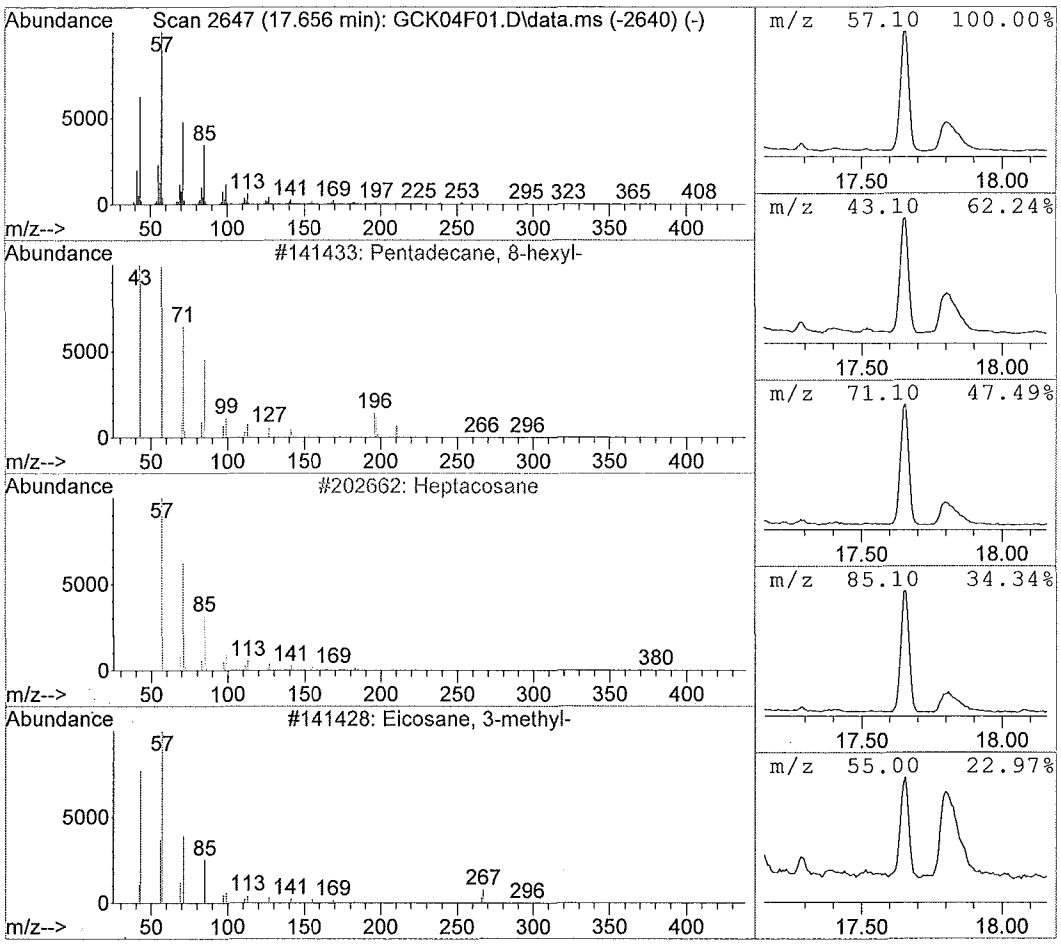
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	22.34 ug/ml	3189812	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	94.00
2	Heptacosane	202662	000593-49-7	91.00
3	Eicosane, 3-methyl-	141428	006418-46-8	91.00
4	Eicosane, 10-methyl-	141431	054833-23-7	91.00
5	Hentriacontane	223851	000630-04-6	91.00

BA



Library Search Compound Report

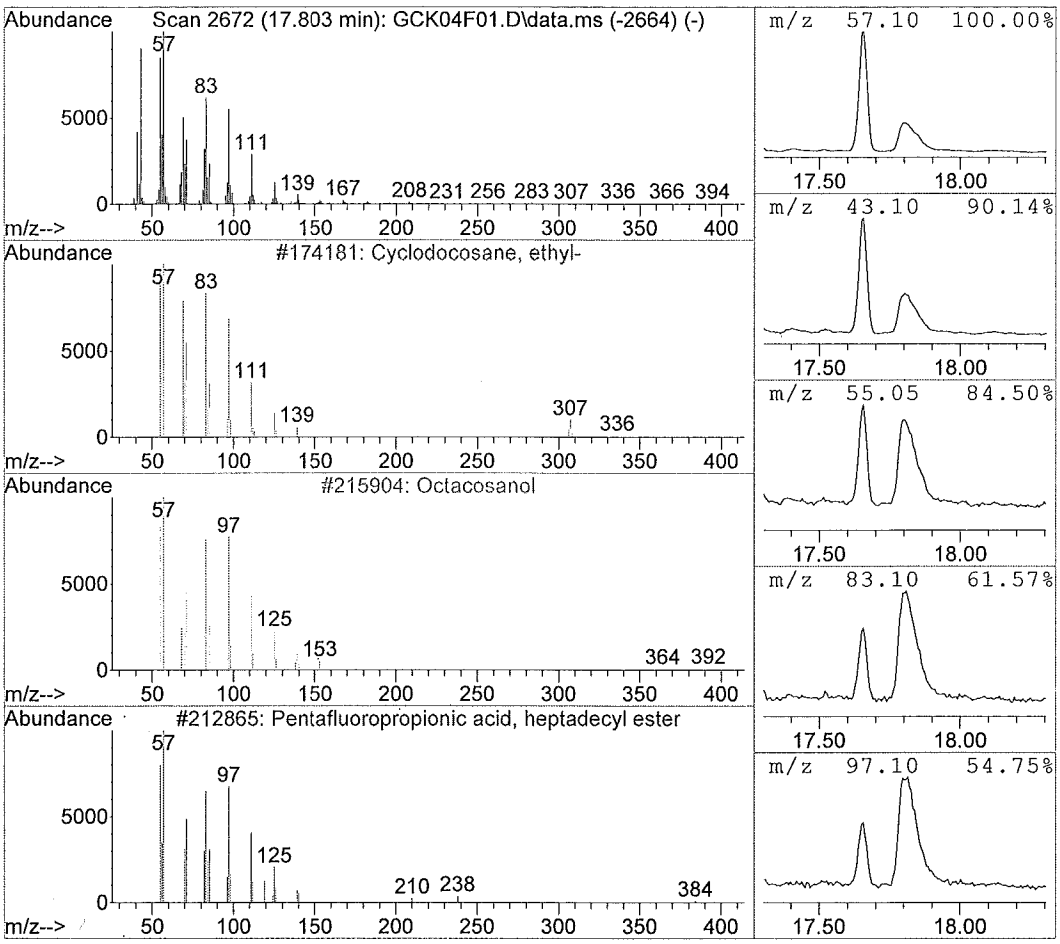
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	21.15 ug/ml	3018982	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclodocosane, ethyl-	174181	1000151-22-6	93.00
2	Octacosanol	215904	000557-61-9	91.00
3	Pentafluoropropionic acid, heptadec	212865	959218-78-1	91.00
4	1-Hexacosanol	203697	000506-52-5	91.00
5	1-Heptacosanol	210517	002004-39-9	90.00

C.A.



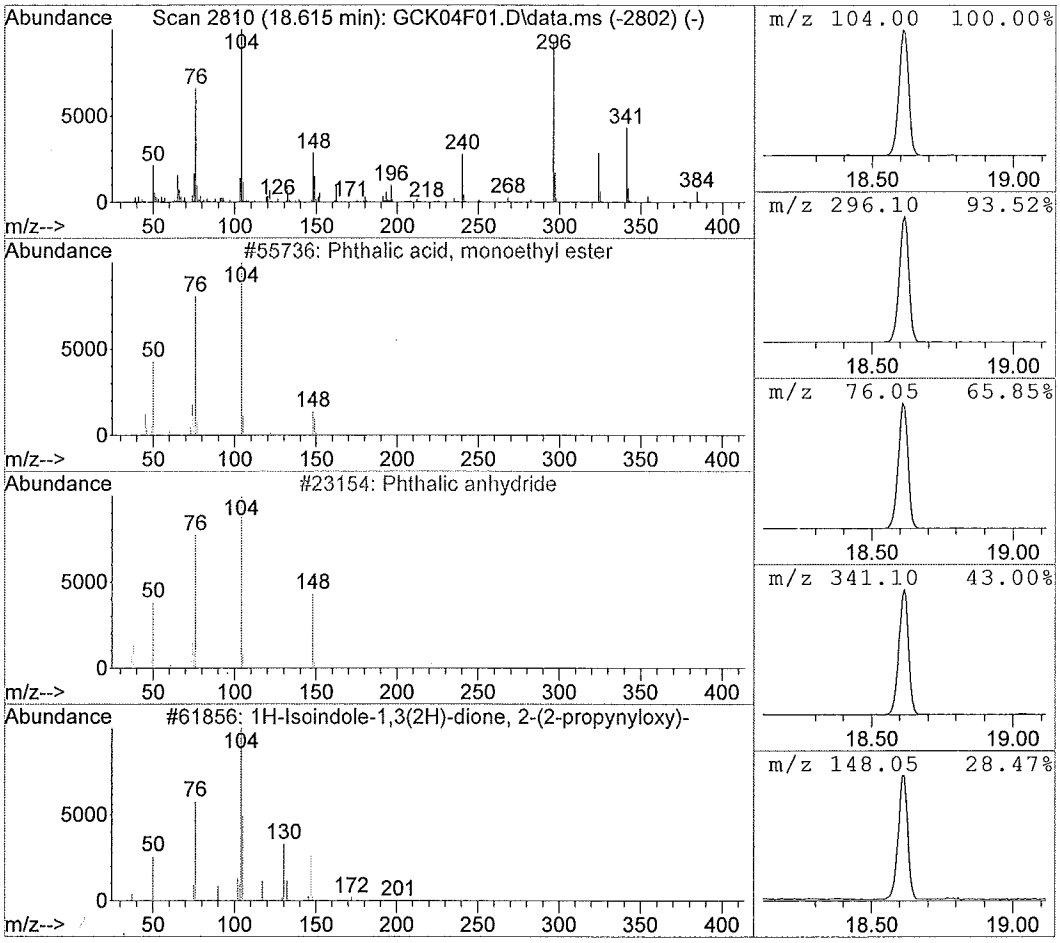
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	28.01 ug/ml	3999177	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
2	Phthalic anhydride	23154	000085-44-9	27.00
3	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	22.00
4	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
5	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	14.00



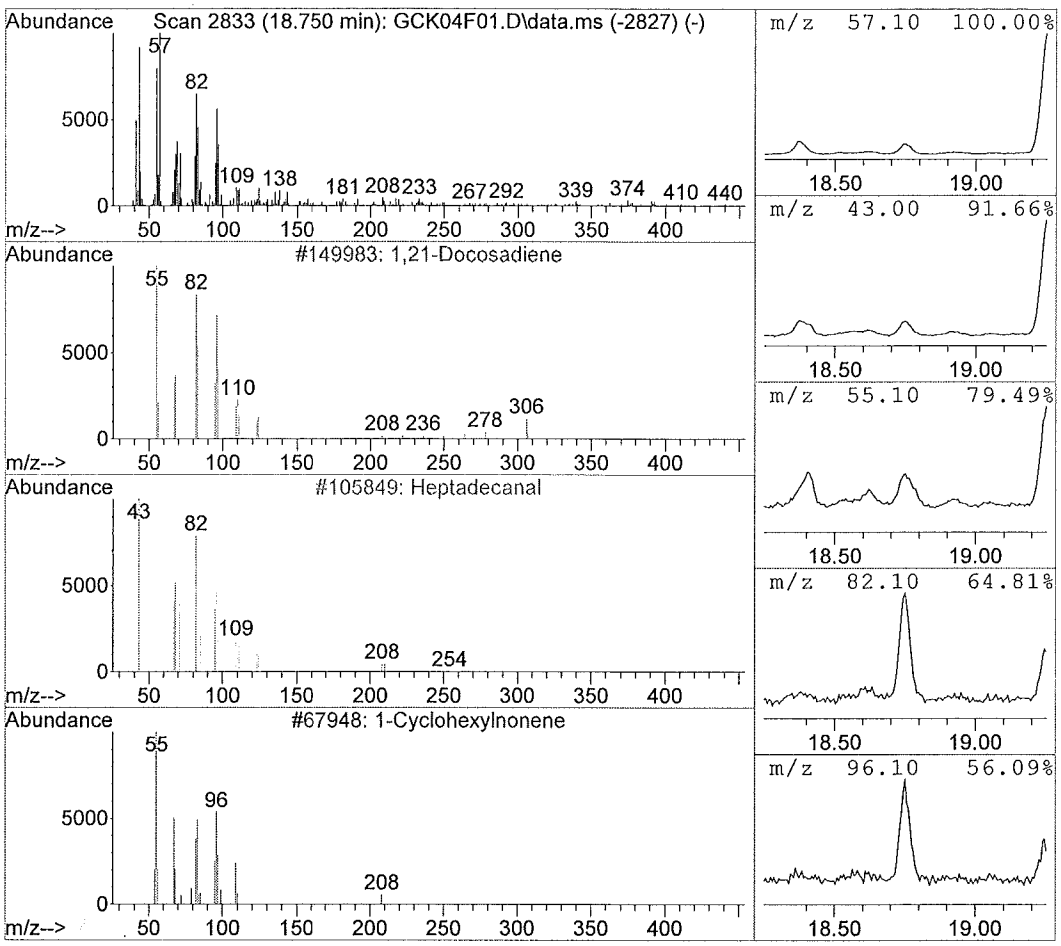
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.75	8.35 ug/ml	1192384	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,21-Docosadiene	149983	053057-53-7	93.00
2	Heptadecanal	105849	1000376-70-0	70.00
3	1-Cyclohexylnonene	67948	114614-84-5	64.00
4	1,16-Hexadecanediol	109264	007735-42-4	64.00
5	1,1'-Bicyclopentyl, 2-hexadecyl-	192267	055334-11-7	53.00



Library Search Compound Report

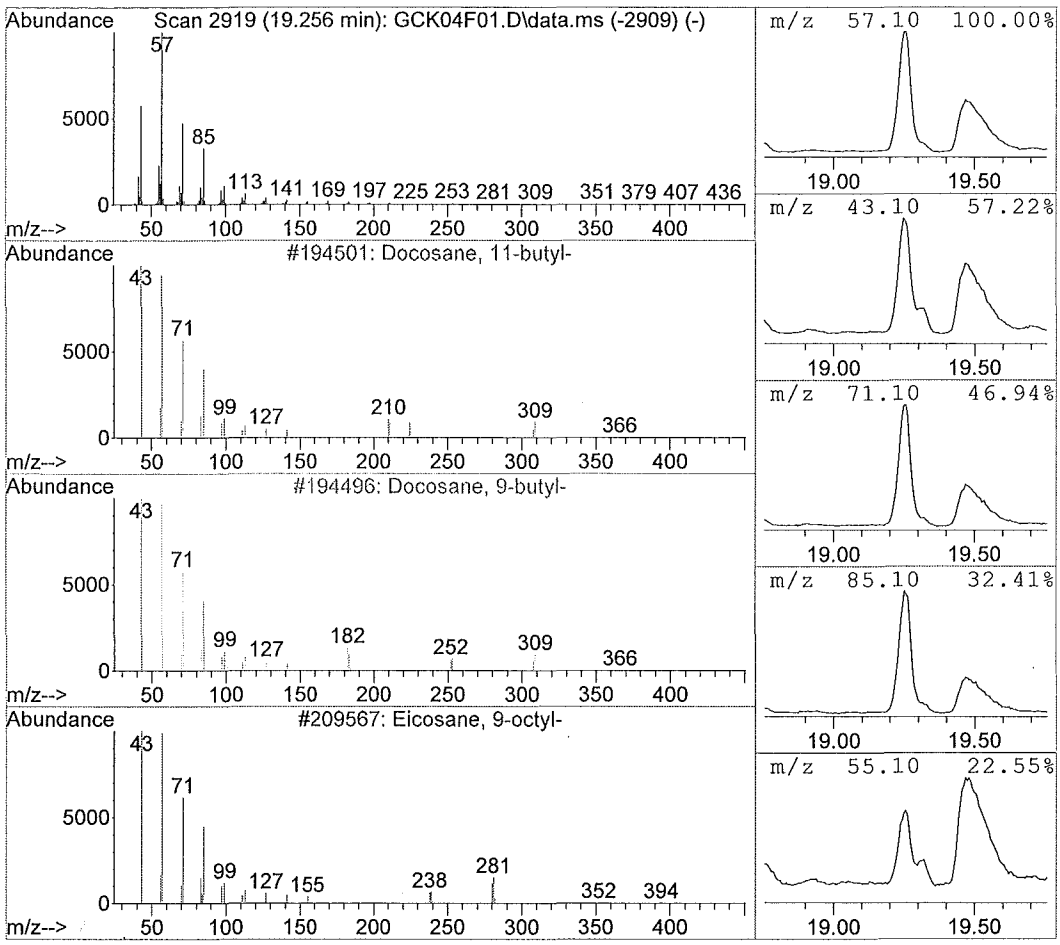
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.26	31.41 ug/ml	4484682	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane, 11-butyl-	194501	013475-76-8	93.00
2	Docosane, 9-butyl-	194496	055282-14-9	93.00
3	Eicosane, 9-octyl-	209567	013475-77-9	93.00
4	Heptacosane	202662	000593-49-7	91.00
5	Docosane, 5-butyl-	194498	055282-16-1	90.00

BA



: 00214

Library Search Compound Report

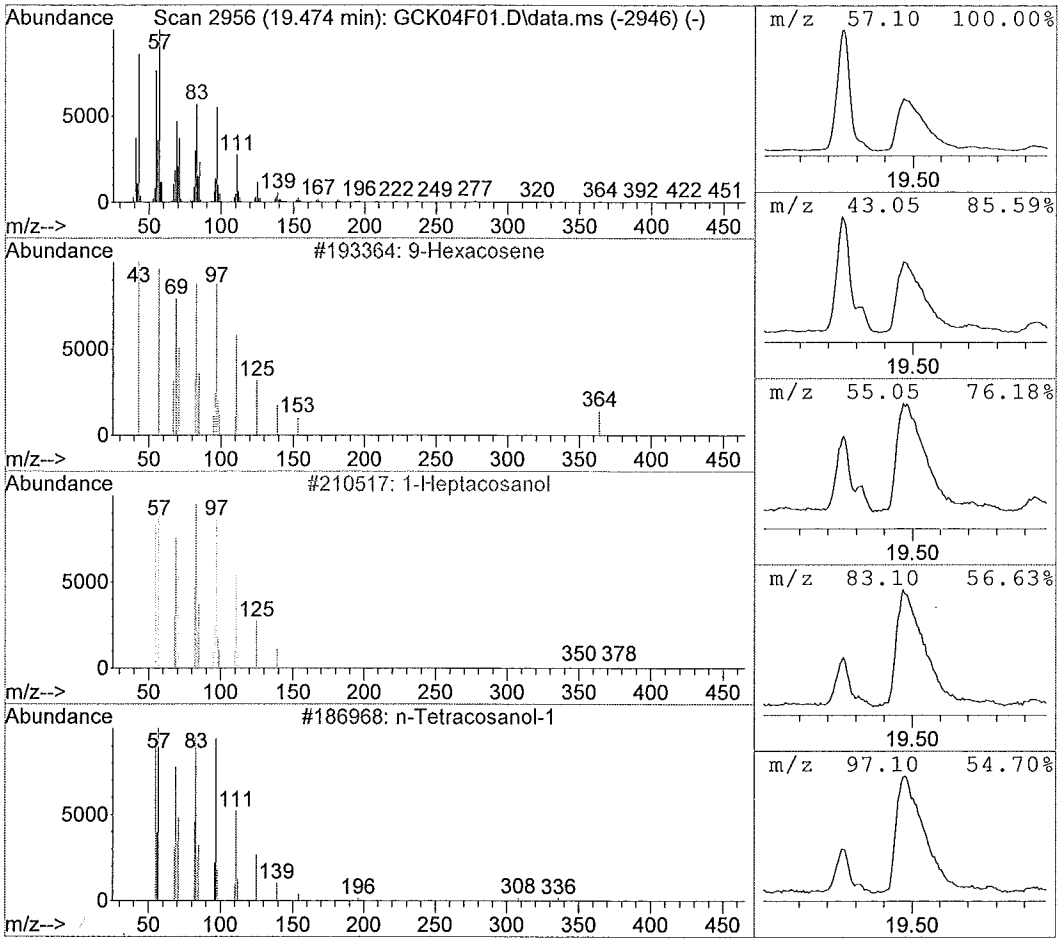
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.47	59.41 ug/ml	8481947	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexacosene	193364	071502-22-2	95.00
2	1-Heptacosanol	210517	002004-39-9	91.00
3	n-Tetracosanol-1	186968	000506-51-4	91.00
4	Octacosyl acetate	227661	018206-97-8	91.00
5	1-Hexacosene	193365	018835-33-1	91.00



Library Search Compound Report

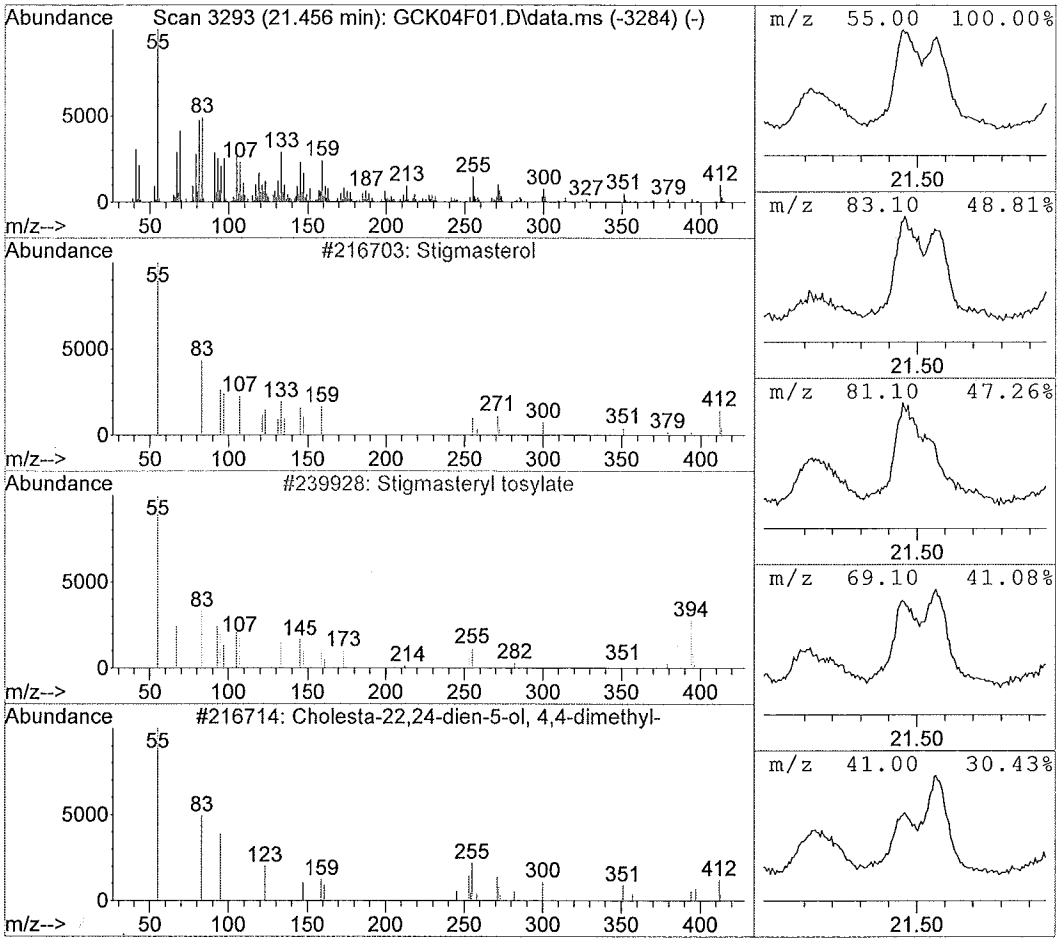
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.46	14.78 ug/ml	2110103	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmasterol	216703	000083-48-7	98.00
2	Stigmasteryl tosylate	239928	053139-42-7	58.00
3	Cholesta-22,24-dien-5-ol, 4,4-dimet	216714	1000128-66-1	50.00
4	Stigmastan-6,22-dien, 3,5-dedihydro	209574	107304-12-1	35.00
5	Ergost-5,8(14)-dien-3-ol	211506	177962-83-3	25.00



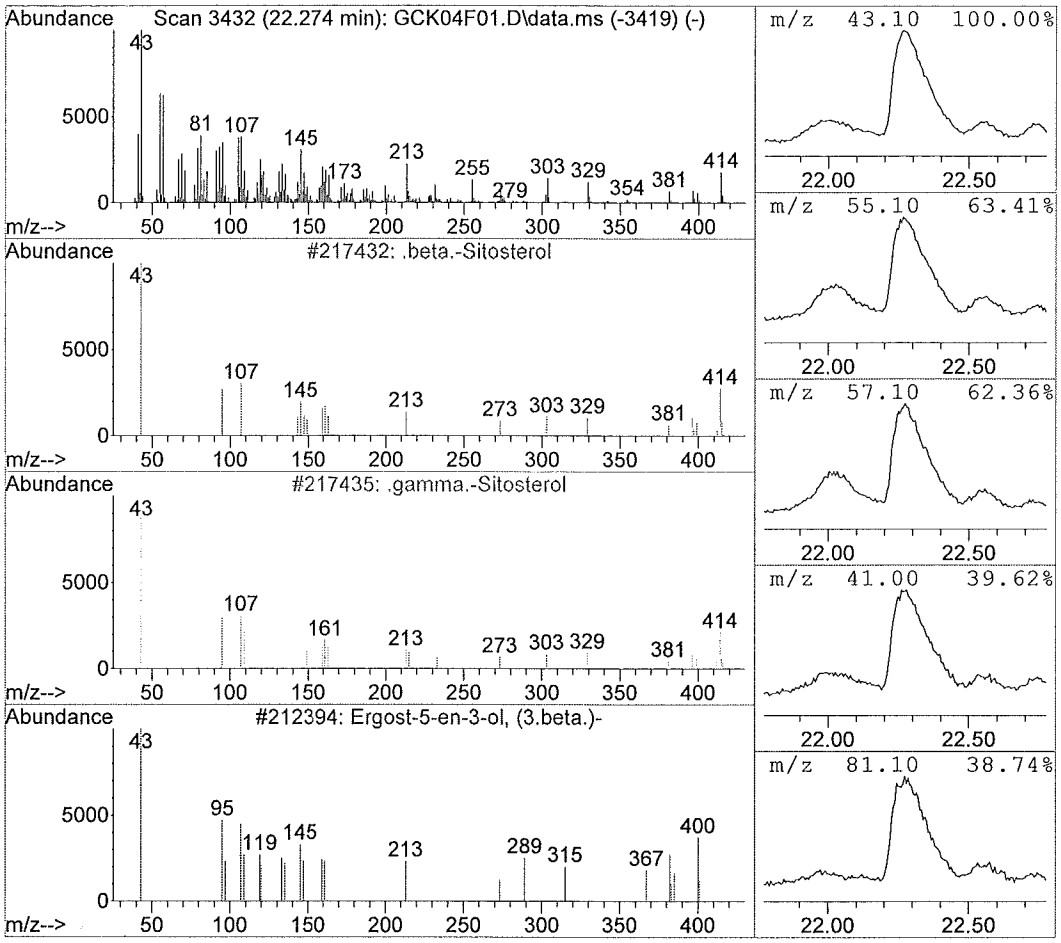
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D Vial: 4
Acq On : 07/02/2015 12:29 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.27	96.36 ug/ml	13756263	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	97.00
2	.gamma.-Sitosterol	217435	000083-47-6	87.00
3	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	76.00
4	Isocholesteryl methyl ether	212393	029944-53-4	60.00
5	5-Cholestene-3-ol, 24-methyl-	212397	1000214-17-4	53.00



Library Search Compound Report

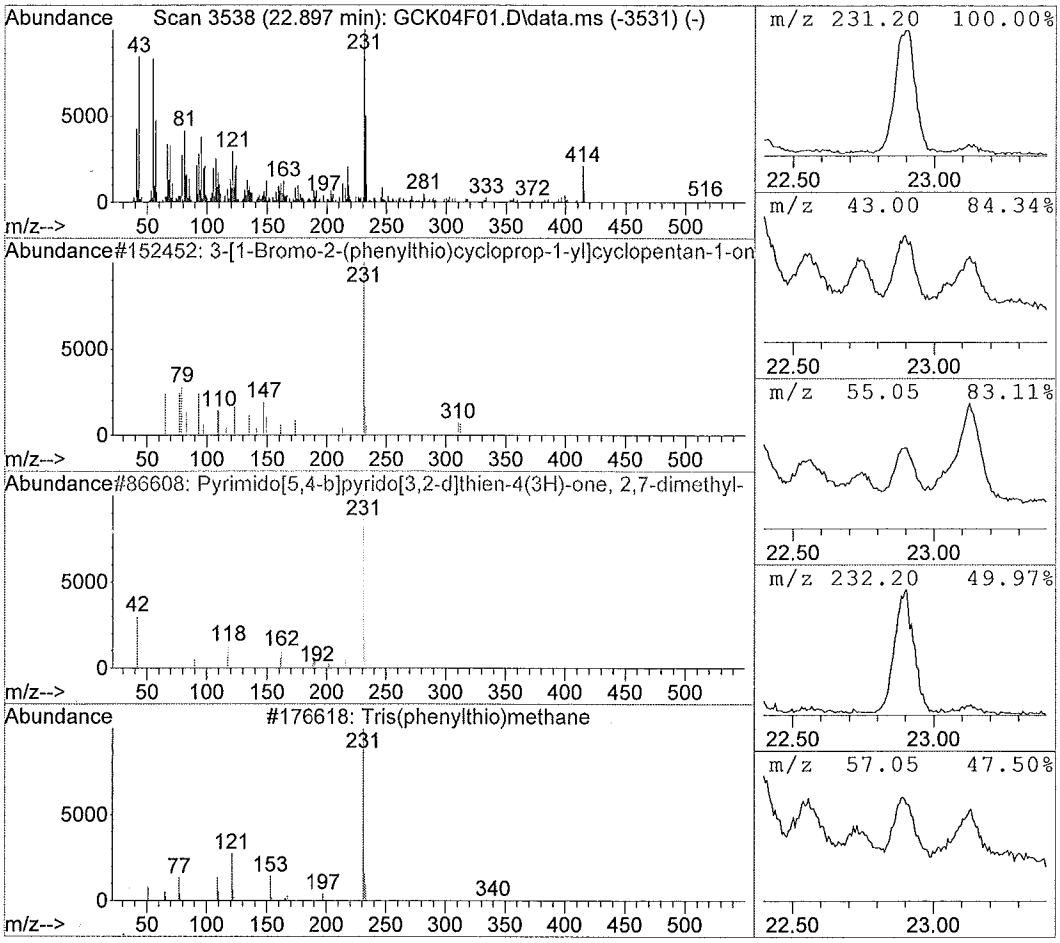
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.90	10.07 ug/ml	1438122	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-[1-Bromo-2-(phenylthio)cycloprop-	152452	121820-15-3	38.00
2	Pyrimido[5,4-b]pyrido[3,2-d]thien-4	86608	201681-22-3	30.00
3	Tris(phenylthio)methane	176618	004832-52-4	30.00
4	Resorcinol, 2-p-mentha-1,8-dien-3-y	156761	000521-37-9	27.00
5	Cannabidiol	156702	013956-29-1	27.00



Library Search Compound Report

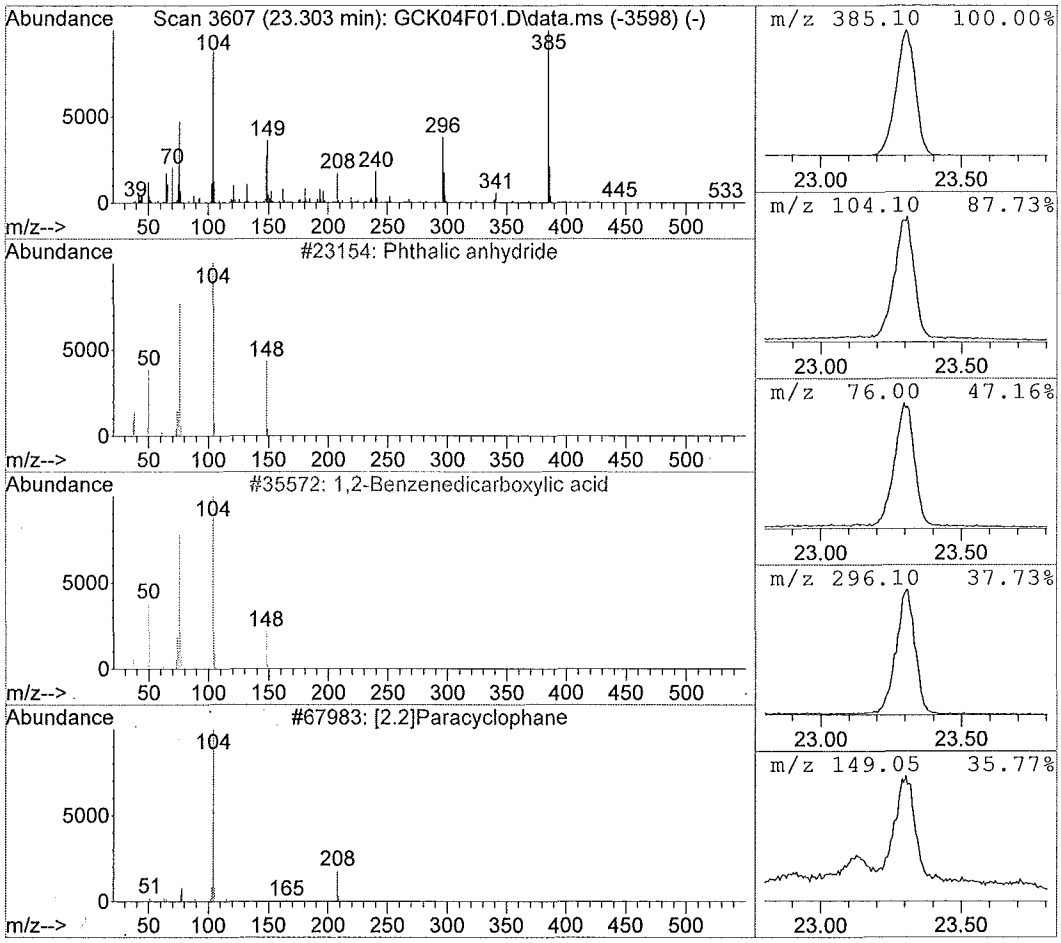
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.30	22.21 ug/ml	3170807	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	35.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	35.00
3	[2.2]Paracyclophane	67983	001633-22-3	14.00
4	Silane, dimethyldecyloxydodecyloxy-	212259	1000346-92-7	14.00
5	Naphthalene, 1,2,3,4-tetrahydro-2-p	68008	029422-13-7	14.00



Library Search Compound Report

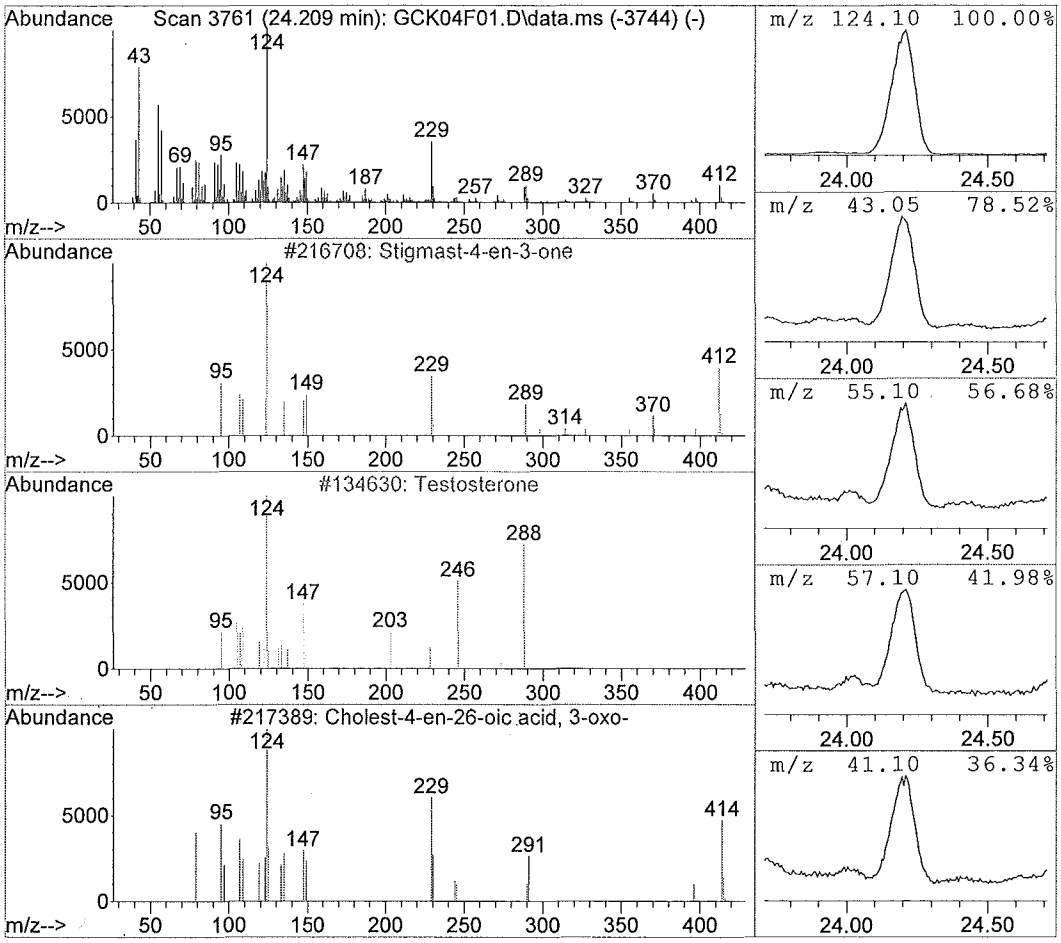
Data File : R:\G\2015\JUL15\02JUL15\GCK04F01.D
Acq On : 07/02/2015 12:29
Sample : 1513978001 F9KW7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.21	53.53 ug/ml	7641841	Perylene-d12	2855216

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	96.00
2	Testosterone	134630	000058-22-0	86.00
3	Cholest-4-en-26-oic acid, 3-oxo-	217389	023017-97-2	49.00
4	Acetamide, 2-[2-(5-methylfuran-2-yl	135118	1000259-79-3	46.00
5	Cyclobuta[1,2:3,4]dicyclooctene-1,7	100850	069926-83-6	46.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL06F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO:

F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL06F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	21.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL06F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.6 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-	2.48	81.	JB
02		Unknown 1,2-Ethanediol	2.56	360	J
03		Unknown 4-Chloro-2-butanone	3.52	81.	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4900	JB
05		Unknown 3-Hexene-2,5-dione	4.49	94.	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	120	JB
07	57-10-3	n-Hexadecanoic acid	12.97	87.	JN
08	301-02-0	9-Octadecenamide, (Z)-	14.31	110	JNB
09	629-54-9	Hexadecanamide	14.42	180	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.32	1400	JNB
11	629-54-9	Hexadecanamide	15.41	78.	JN
12		Unknown Cyclohexanecarboxamide	16.50	110	J
13	301-02-0	9-Octadecenamide, (Z)-	17.35	1000	JN
14		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.20	2200	J
15		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	22.07	140	J
16		Unknown 16-Hentriacontanone	22.23	310	J
17		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.47	2900	J
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

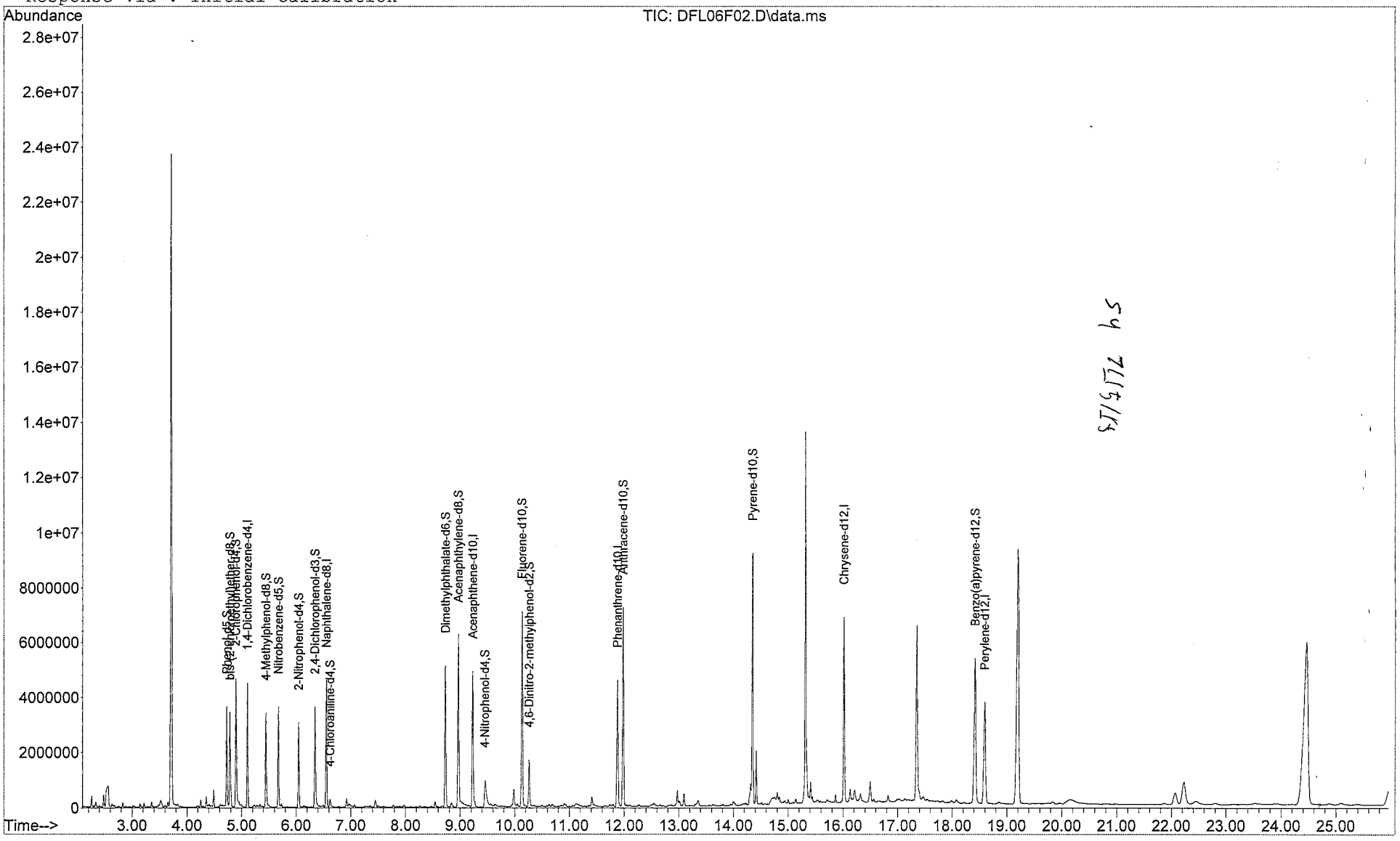
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 10:56:32 2015 Results File: DSOM01D5.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



54 7/15/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:56:32 2015 Results File: DSOM01D5.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	5.11	152	812837	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2715448	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1672690	20.00 ug/ml
59) Phenanthrene-d10	11.87	188	2895480	20.00 ug/ml
73) Chrysene-d12	16.02	240	3392654	20.00 ug/ml
81) Perylene-d12	18.59	264	3222814	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1385309	27.384ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	883154	23.858ug/mL
7) 2-Chlorophenol-d4	4.89	132	1352617	26.824ug/ml
13) 4-Methylphenol-d8	5.45	113	890006	23.470ug/mL
17) Nitrobenzene-d5	5.67	128	602396	27.085ug/ml
21) 2-Nitrophenol-d4	6.05	143	711764	26.986ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1138433	26.710ug/mL
28) 4-Chloroaniline-d4	6.62	131	144577	4.515ug/mL
42) Dimethylphthalate-d6	8.73	166	3263558	31.645ug/mL
45) Acenaphthylene-d8	8.97	160	4009350	29.525ug/mL
50) 4-Nitrophenol-d4	9.46	143	473949	27.670ug/mL
57) Fluorene-d10	10.13	176	2816917	30.911ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	448015	24.502ug/mL
69) Anthracene-d10	11.98	188	4592271	30.958ug/mL
75) Pyrene-d10	14.34	212	4632347	32.423ug/mL
86) Benzo(a)pyrene-d12	18.42	264	4521844	30.659ug/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)

: 000225

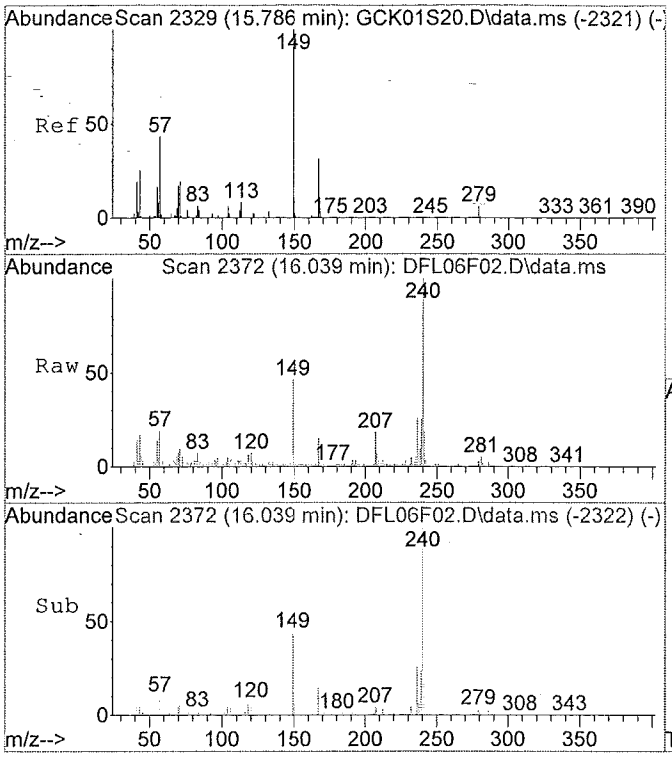
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:56:32 2015 Results File: DSOM01D5.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	16.04	149	64450	0.551ug/ml	92
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	

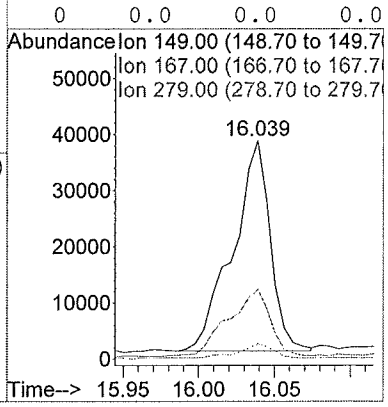
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.55 ug/ml
RT: 16.04 min Scan# 2372
Delta R.T. -0.01 min
Lab File: DFL06F02.D
Acq: 05/27/2015 11:39

Tgt Ion:149 Resp: 64450

Ion	Ratio	Lower	Upper
149	100		
167	36.3	22.0	40.8
279	6.4	5.0	9.2
0	0.0	0.0	0.0



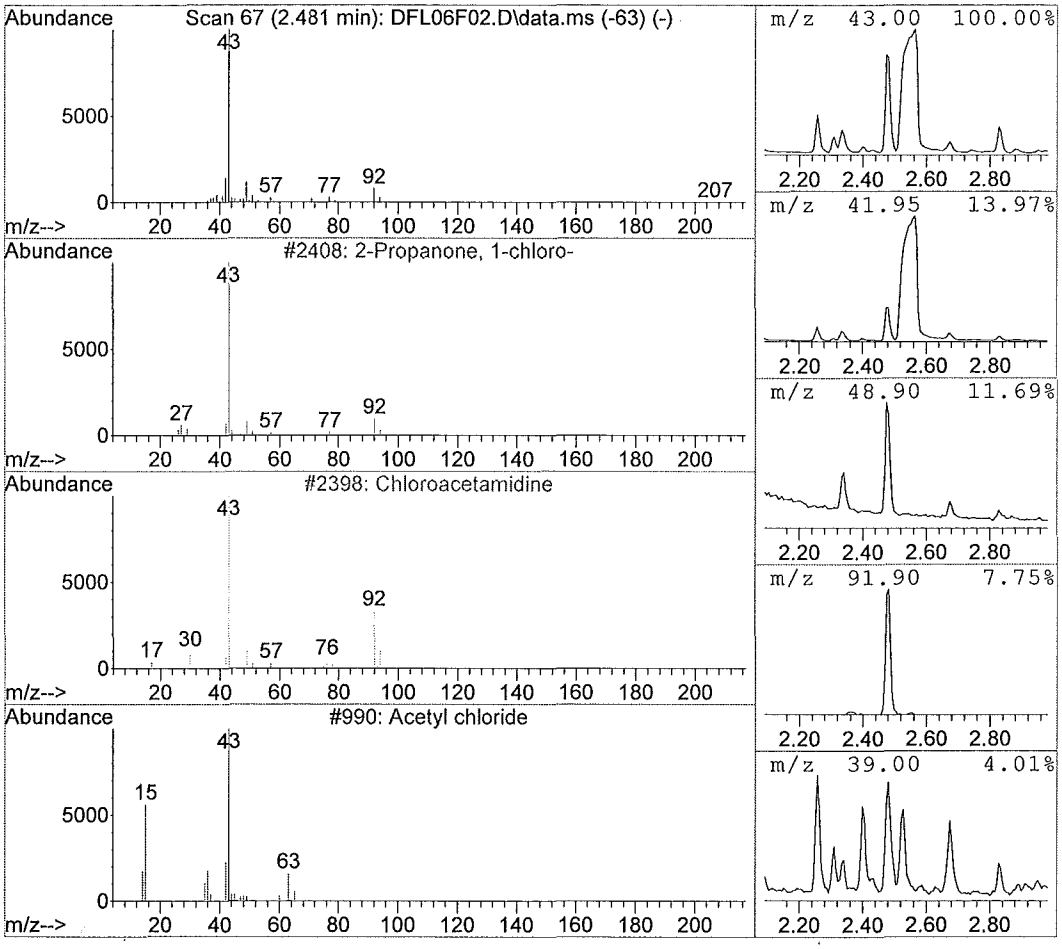
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.17 ug/ml	520536	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2408	000078-95-5	78.00
2	Chloroacetamidine	2398	020846-52-0	72.00
3	Acetyl chloride	990	000075-36-5	17.00
4	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
5	Ethyl Chloride	352	000075-00-3	9.00



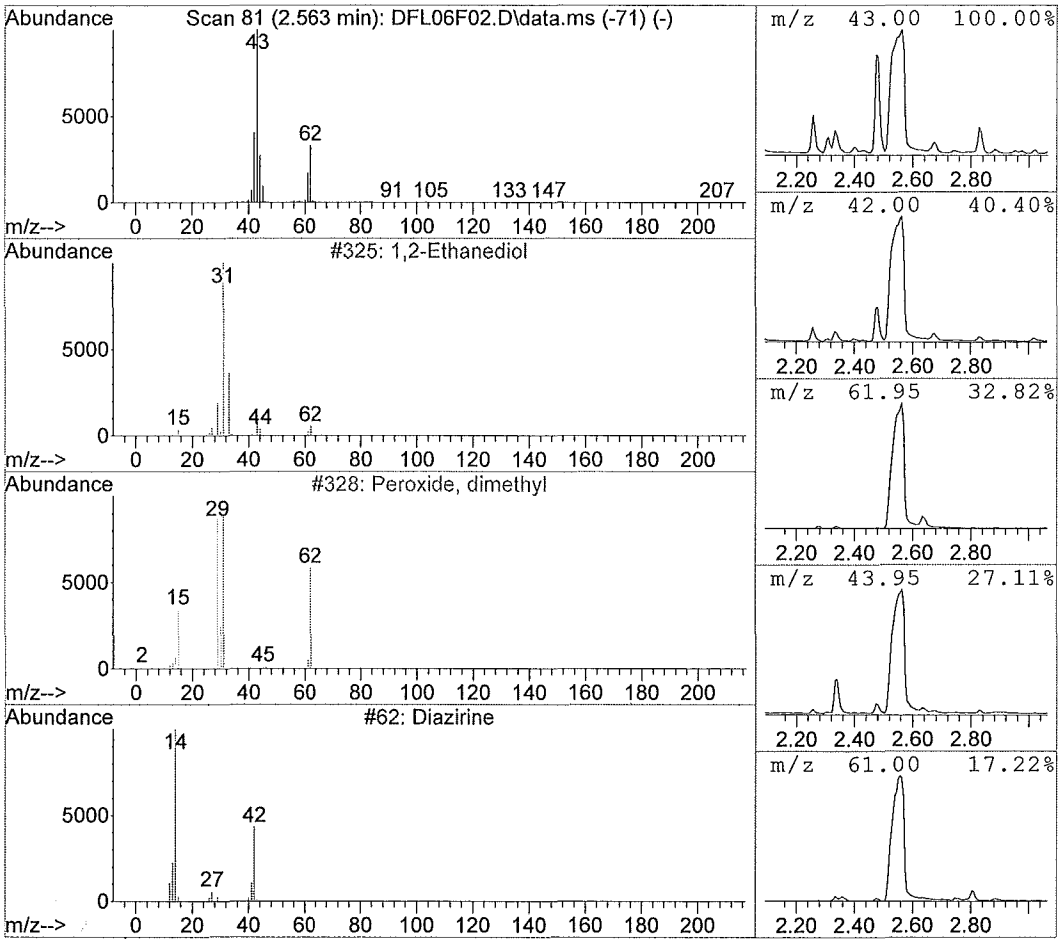
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.56	9.69 ug/ml	2321356	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	45.00
2	Peroxide, dimethyl	328	000690-02-8	4.00
3	Diazirine	62	1000305-84-1	3.00
4	Urea	299	000057-13-6	2.00
5	Cyclobutylamine	610	002516-34-9	2.00



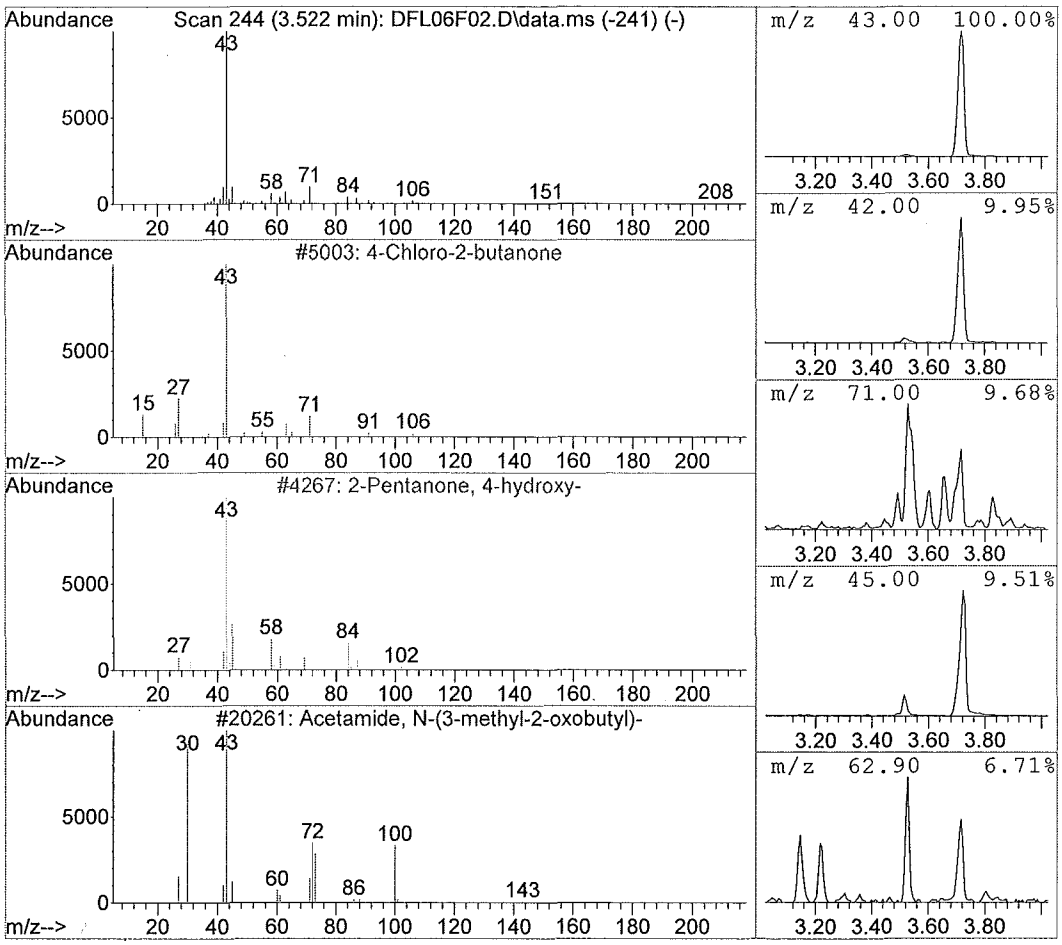
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.15 ug/ml	515327	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	23.00
2	2-Pentanone, 4-hydroxy-	4267	004161-60-8	9.00
3	Acetamide, N-(3-methyl-2-oxobutyl)-	20261	082479-25-2	9.00
4	Acetone	217	000067-64-1	9.00
5	CH3C(O)CH2CH2OH	2021	000590-90-9	9.00



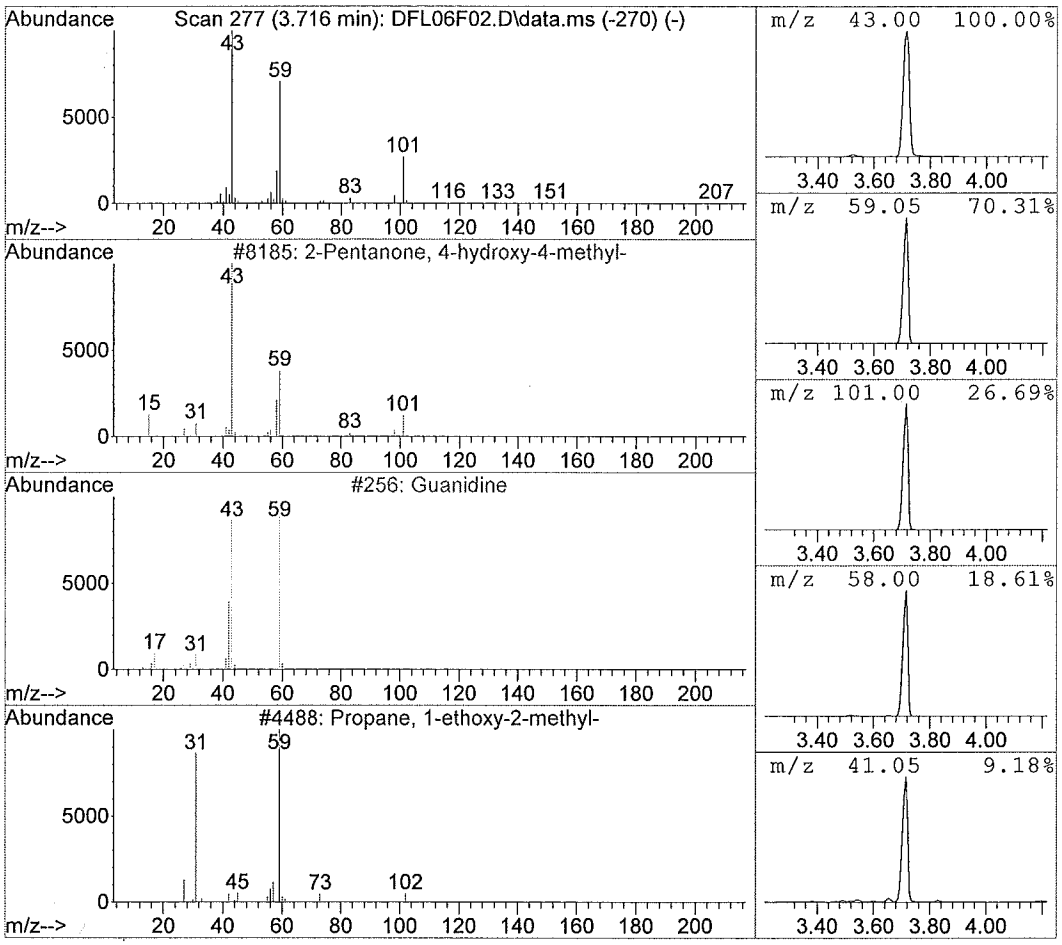
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	130.31 ug/ml	31201984	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	25.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	23.00
5	Formamide, N,N-diethyl-	4092	000617-84-5	9.00



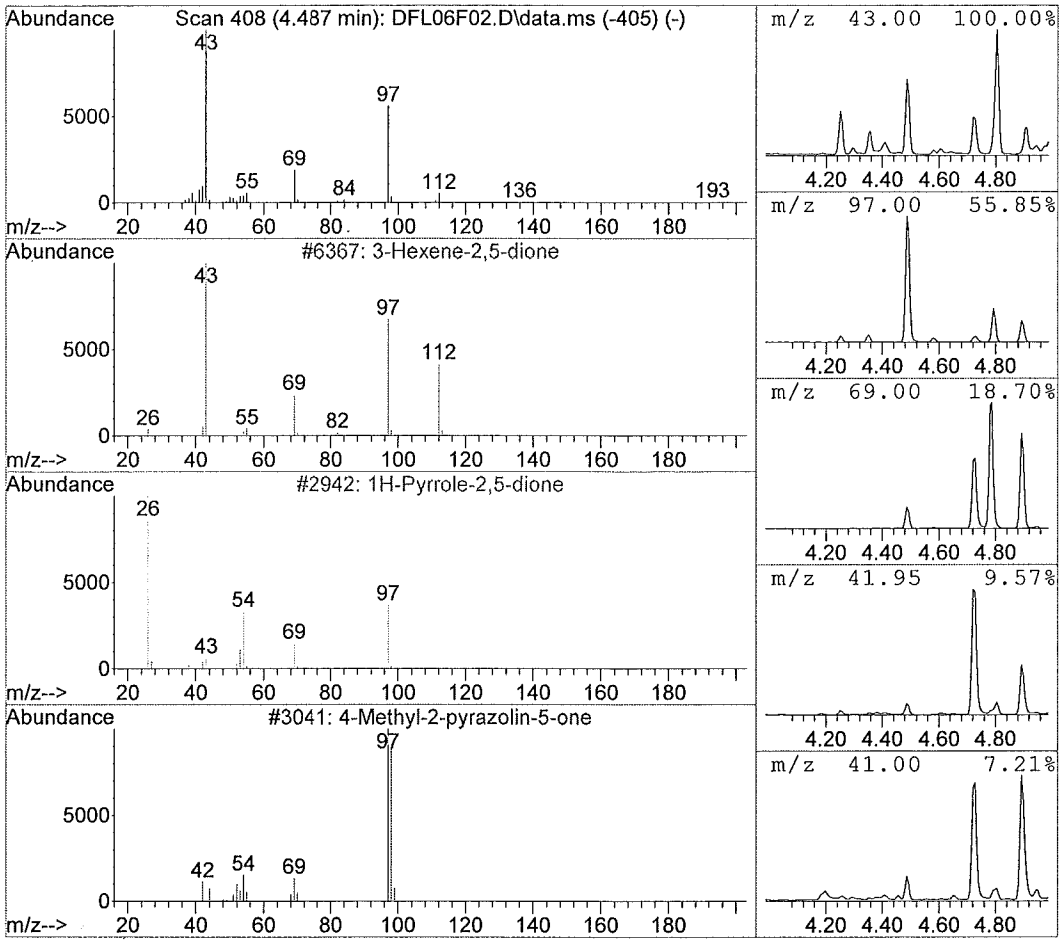
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.53 ug/ml	604853	1,4-Dichlorobenzene-d4	4788814

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	64.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	1H-Pyrazole, 4,5-dihydro-3,4,5-trim	6320	022591-95-3	9.00
5	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00



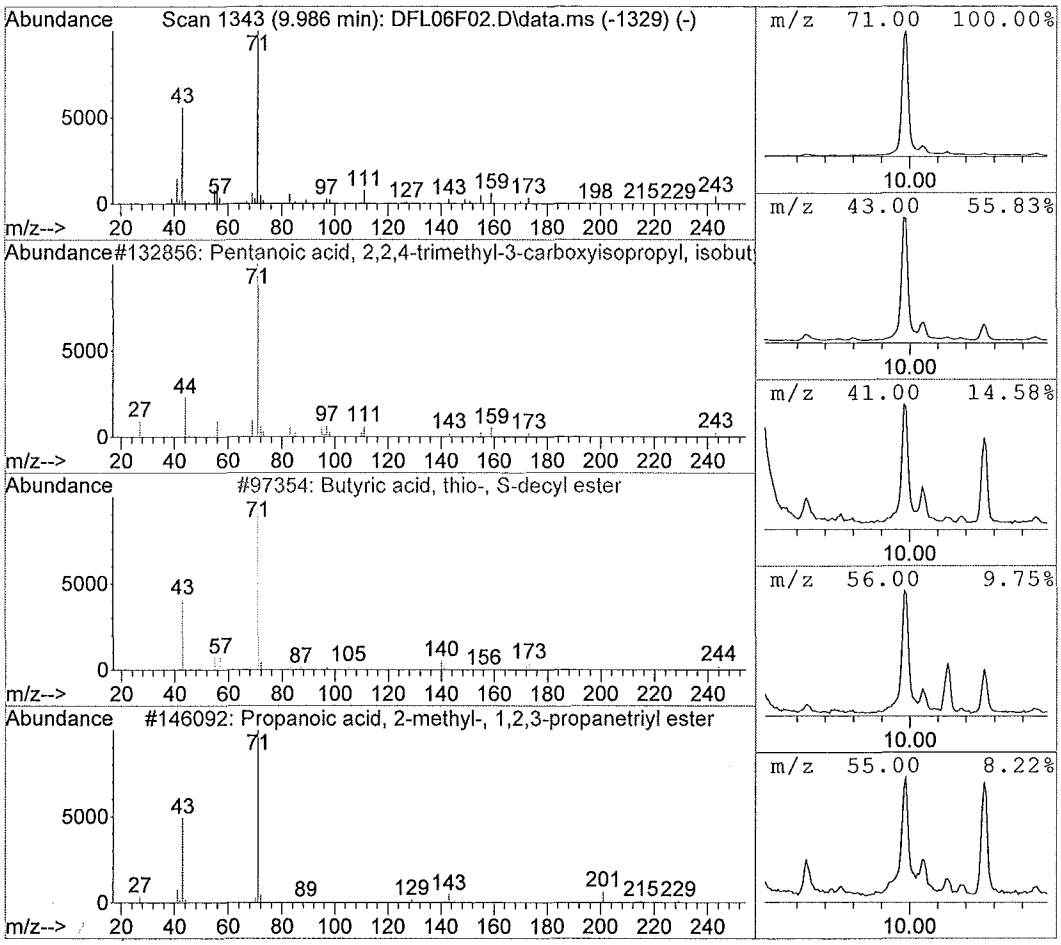
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	3.30 ug/ml	1120300	Acenaphthene-d10	6783238

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	56.00
2	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	53.00
3	Propanoic acid, 2-methyl-, 1,2,3-pr	146092	014295-64-8	42.00
4	Valeric acid, 2-tetrahydrofurylmeth	49885	005451-86-5	42.00
5	Ethylene glycol di-n-butyrate	62244	000105-72-6	42.00



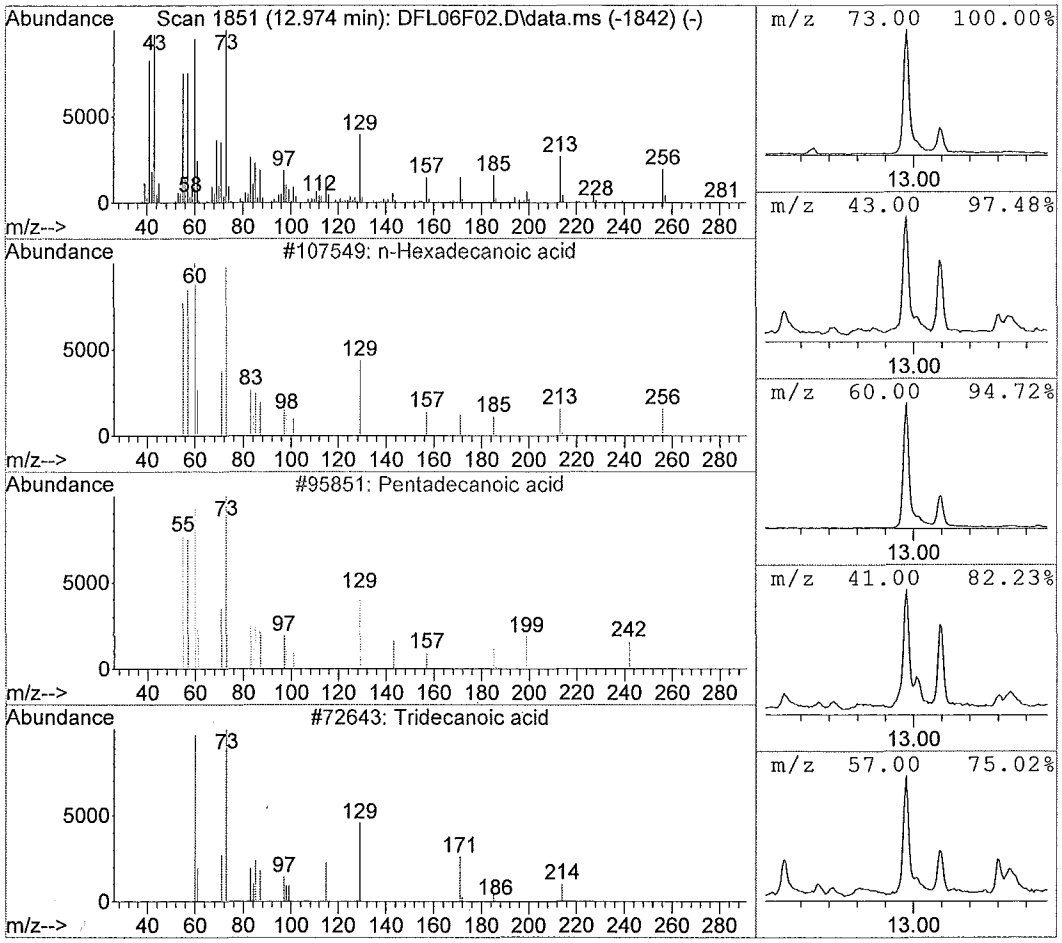
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.97	2.32 ug/ml	834693	Phenanthrene-d10	7206732

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95851	001002-84-2	89.00
3	Tridecanoic acid	72643	000638-53-9	76.00
4	Tetradecanoic acid	84452	000544-63-8	74.00
5	n-Decanoic acid	39469	000334-48-5	53.00



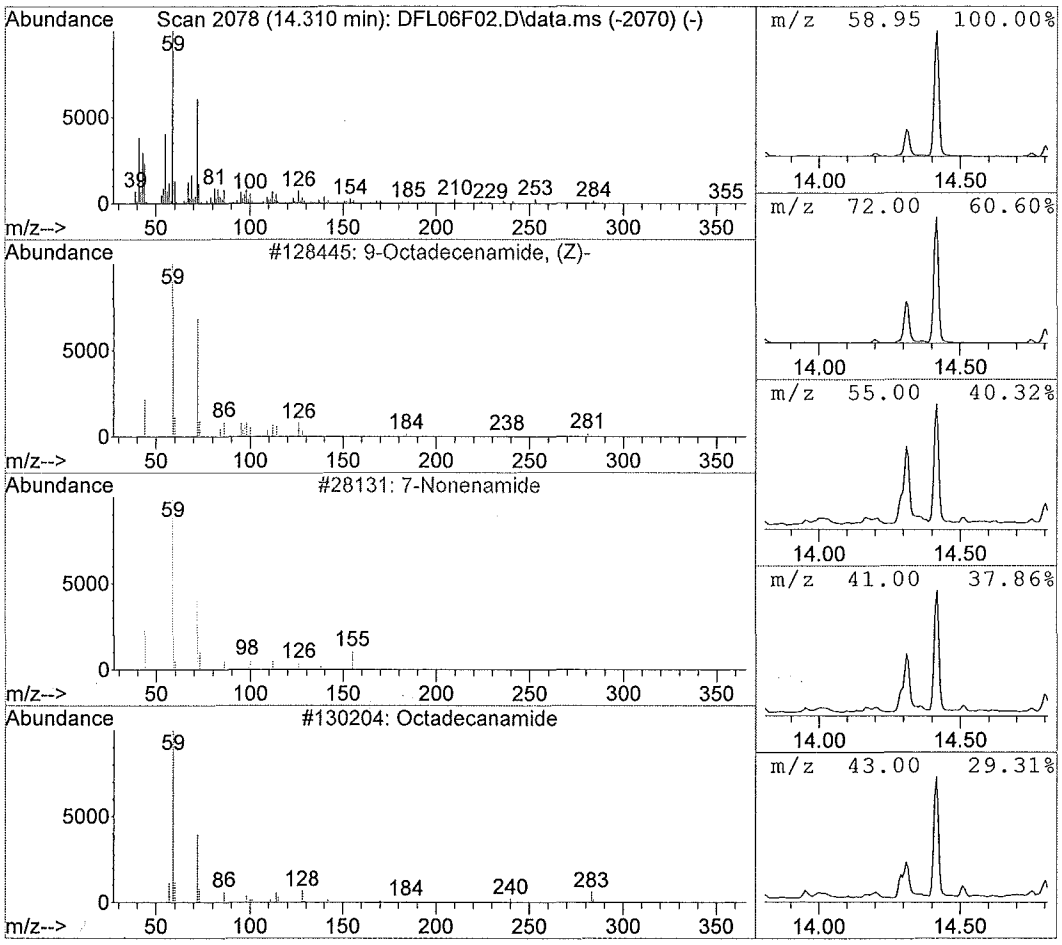
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.88 ug/ml	1289924	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	80.00
3	Octadecanamide	130204	000124-26-5	74.00
4	Pentanamide	4064	000626-97-1	72.00
5	4-Cyclohexylbutyramide	37471	004441-62-7	59.00



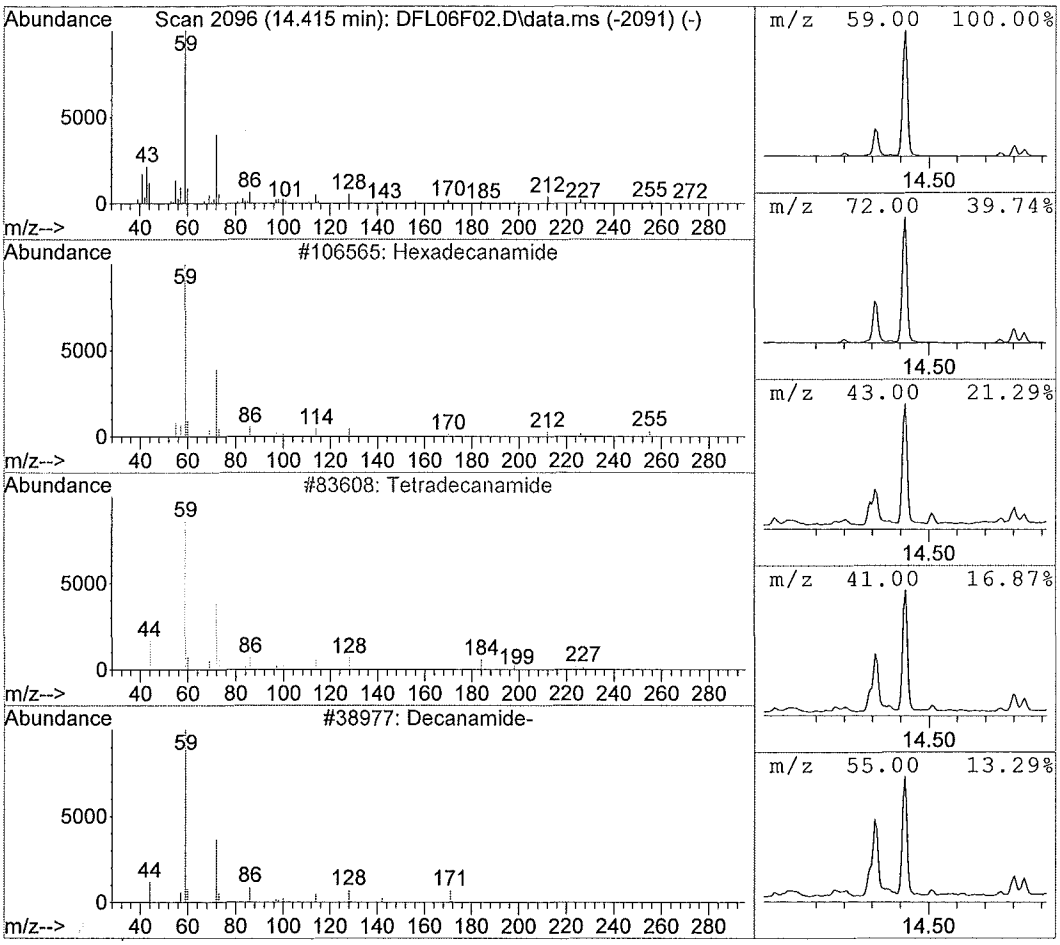
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.92 ug/ml	2205464	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	87.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



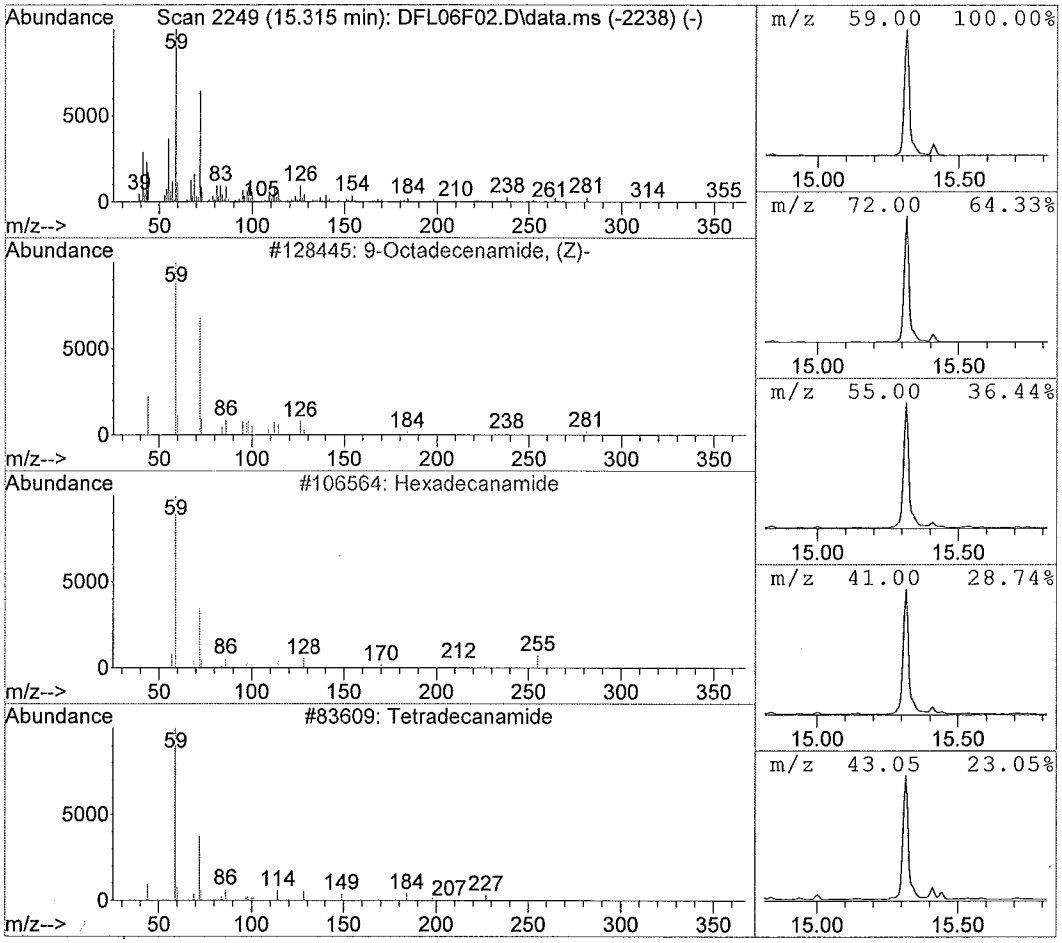
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	38.66 ug/ml	17319721	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Tetradecanamide	83609	000638-58-4	64.00
4	Nonadecanamide	142051	058185-32-3	56.00
5	Octanamide	20317	000629-01-6	53.00



00237

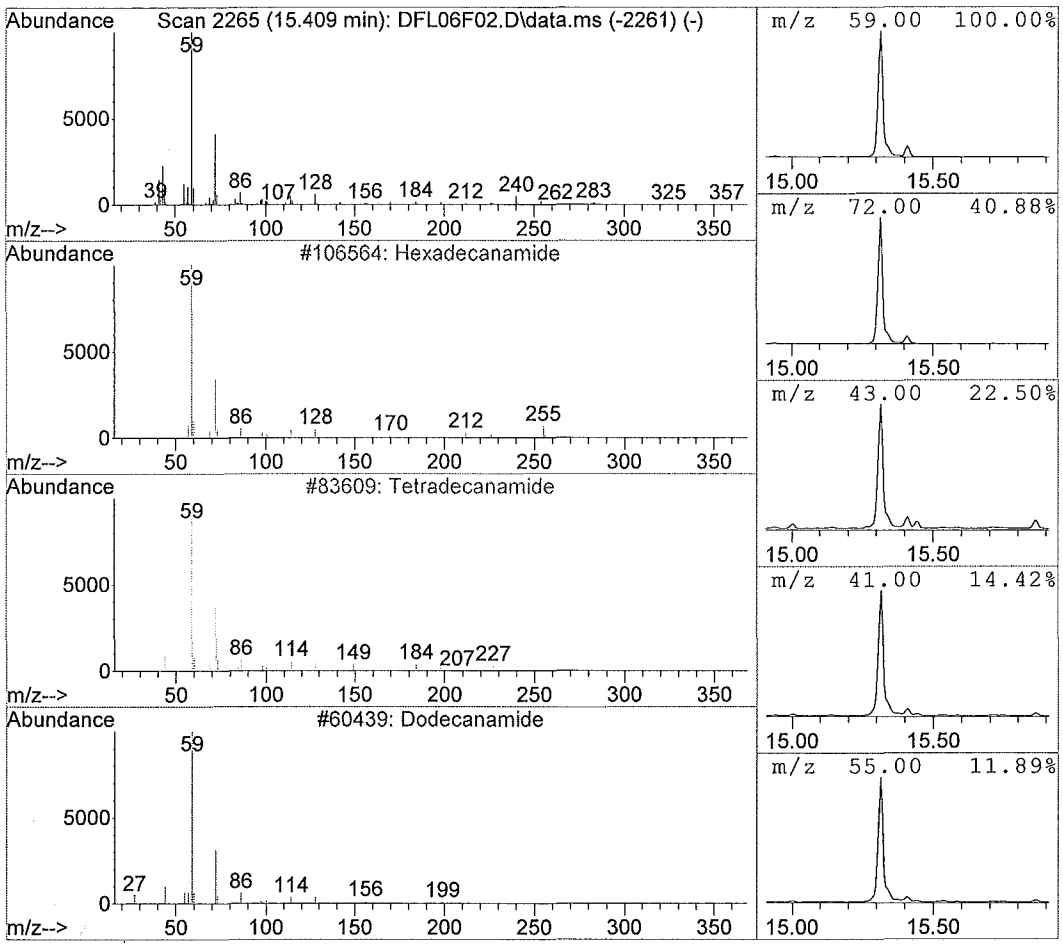
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.08 ug/ml	930728	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	Octanamide	20317	000629-01-6	72.00



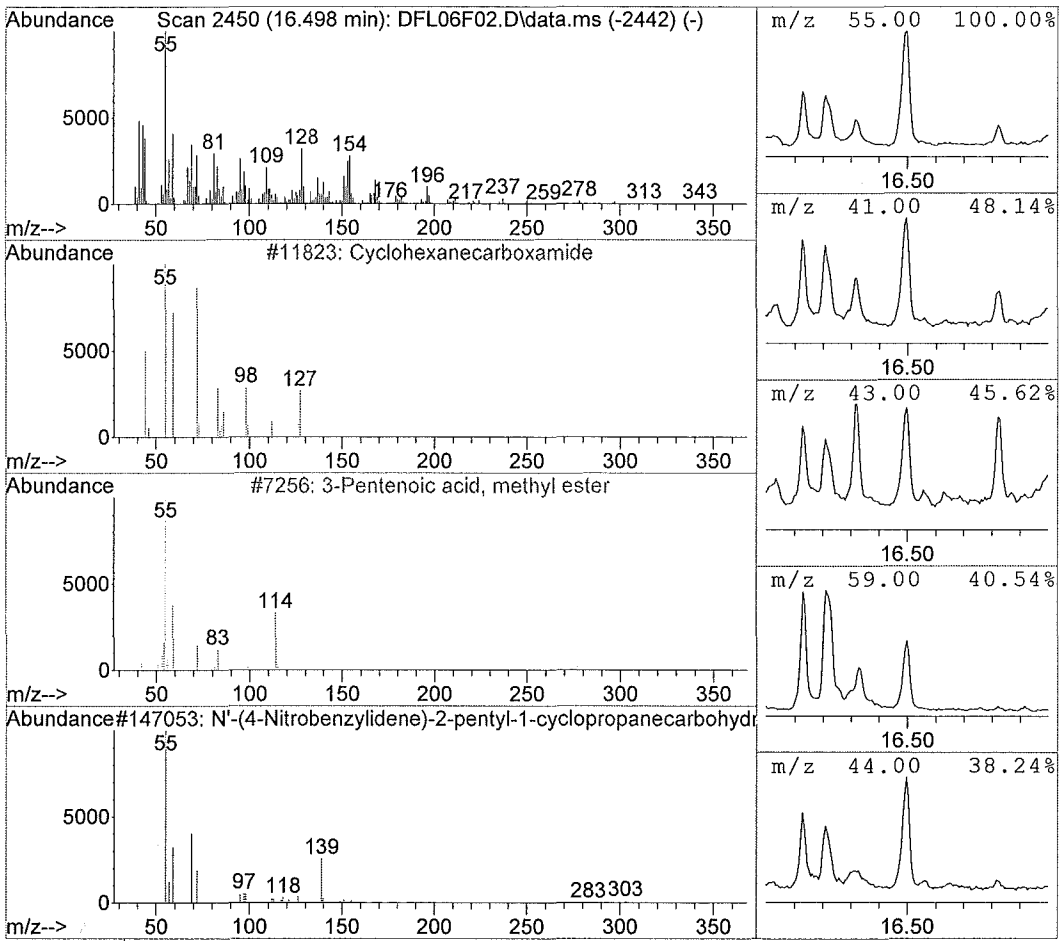
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	2.98 ug/ml	1335893	Chrysene-d12	8959964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00
3	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
4	Oleylamine	116614	000112-90-3	9.00
5	2(1H)-Naphthalenone, octahydro-, tr	25231	016021-08-2	9.00



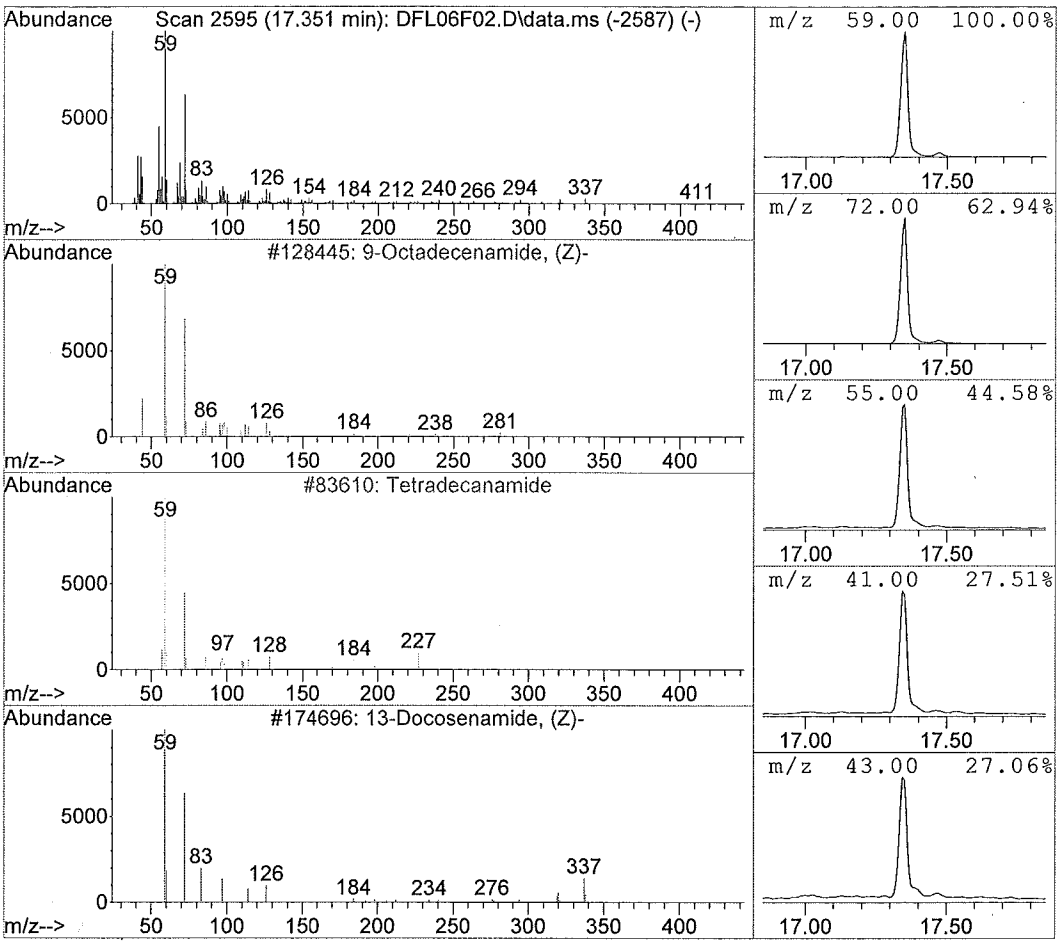
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.35	27.74 ug/ml	11602065	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
2	Tetradecanamide	83610	000638-58-4	86.00
3	13-Docosenamide, (Z)-	174696	000112-84-5	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
5	Dodecanamide	60440	001120-16-7	59.00



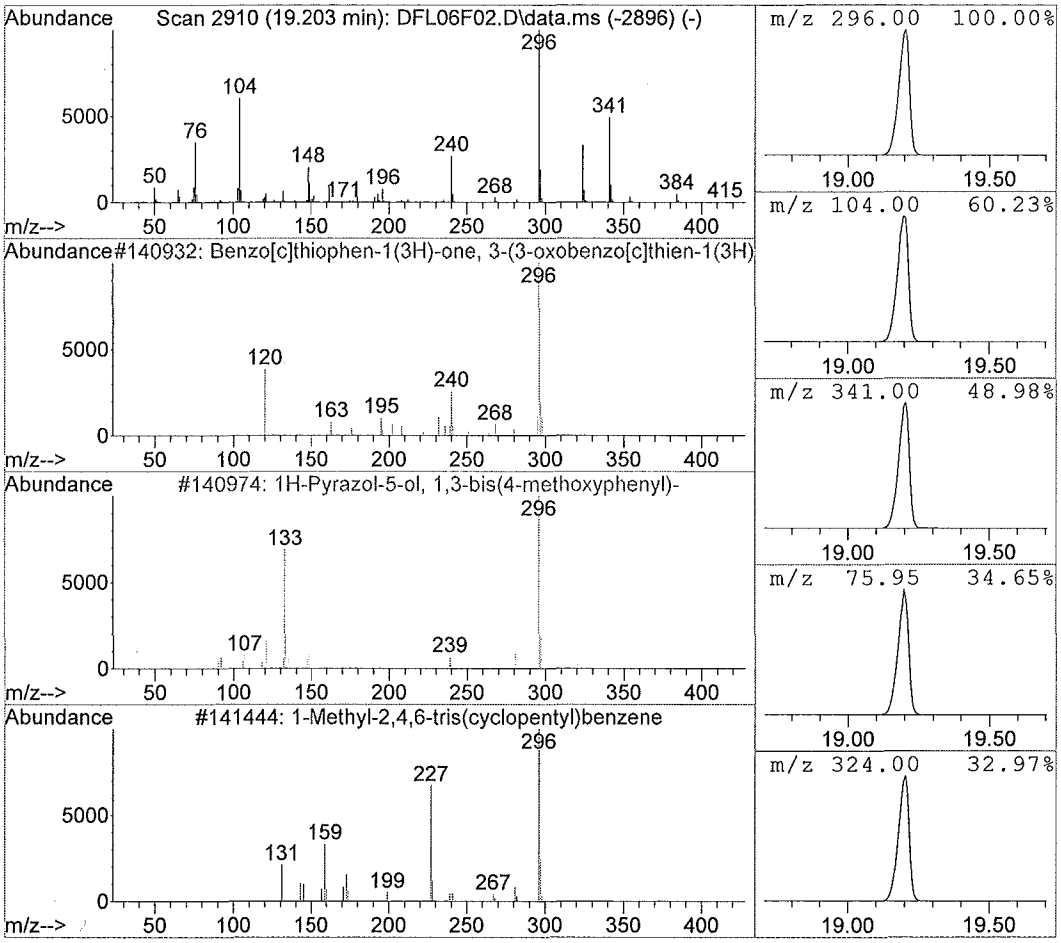
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.20	58.57 ug/ml	24494007	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	1H-Pyrazol-5-ol, 1,3-bis(4-methoxyp	140974	1000337-80-1	22.00
3	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
4	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00
5	3-Methoxy-D-homoestra-1,3,5(10),8-t	141373	002000-72-8	17.00



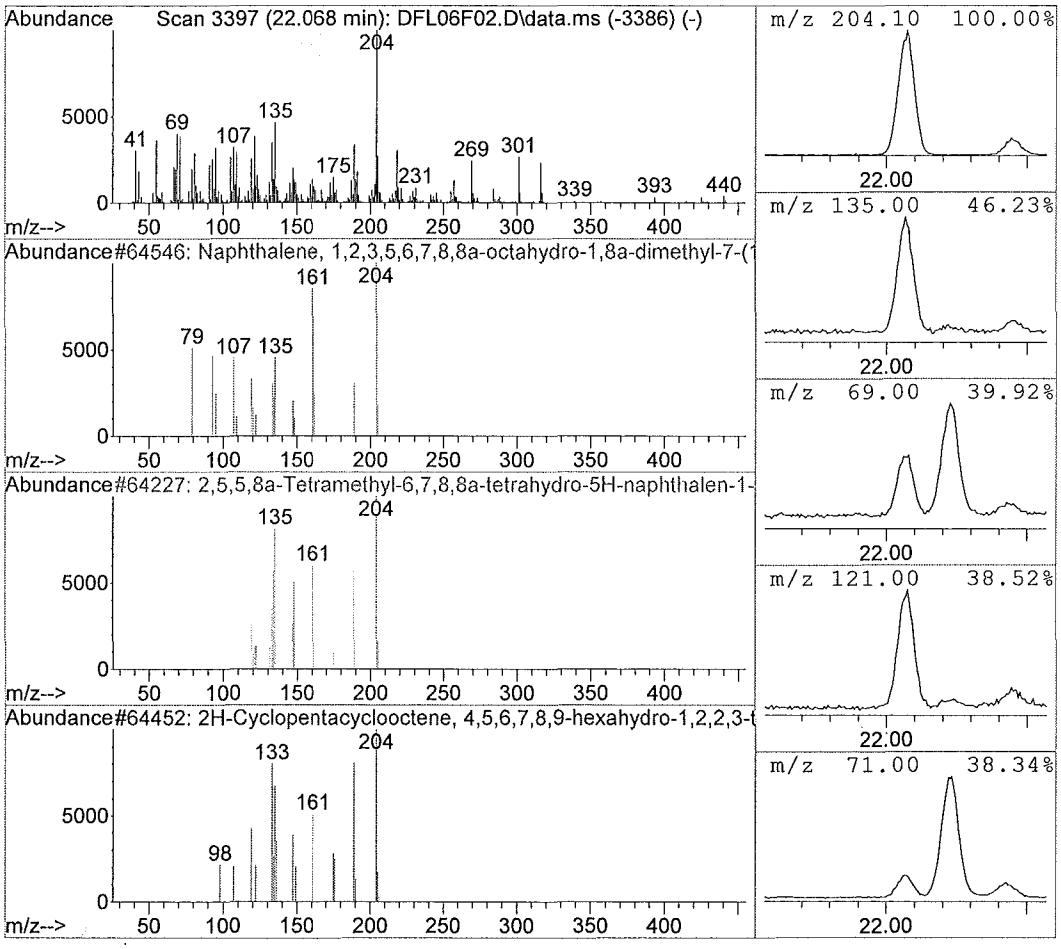
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	3.64 ug/ml	1521216	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	50.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	45.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	43.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00



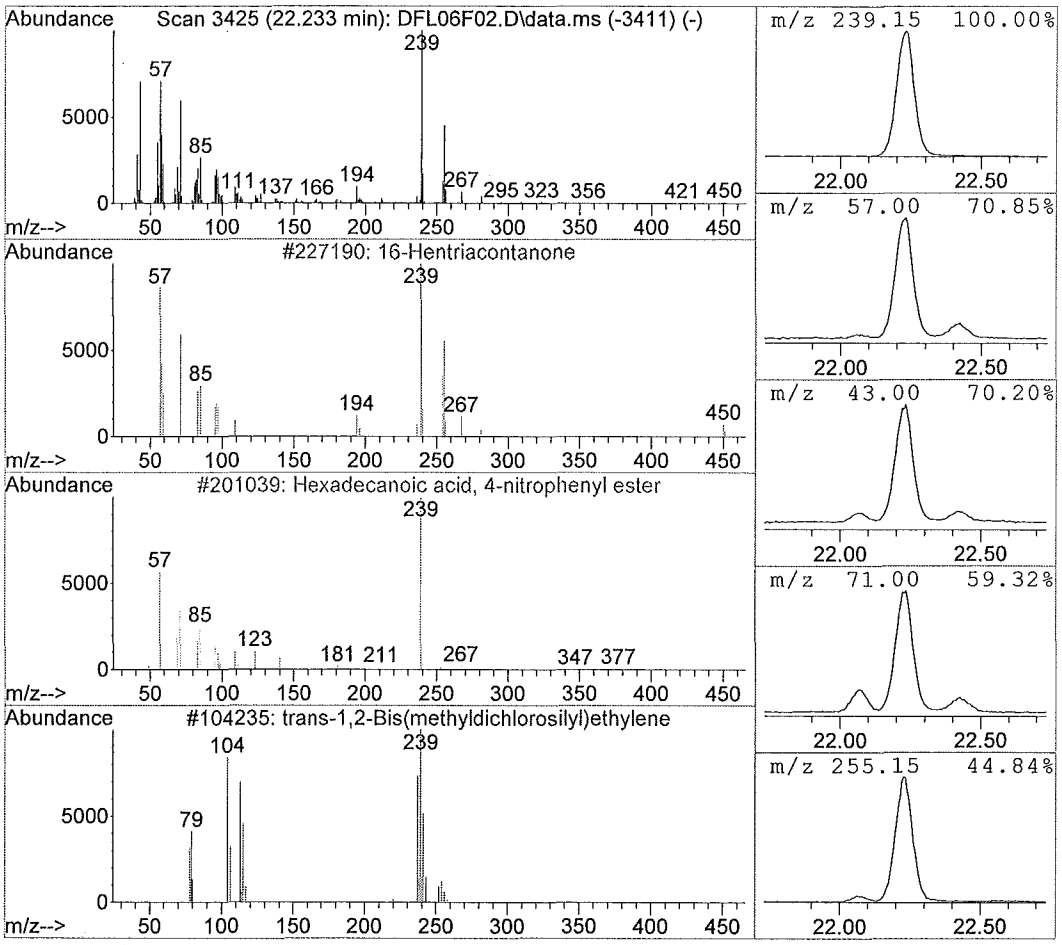
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.23	8.18 ug/ml	3421793	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	16-Hentriacontanone	227190	000502-73-8	43.00
2	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	38.00
3	trans-1,2-Bis(methyldichlorosilyl)e	104235	065899-10-7	30.00
4	Phthalic acid, 4-methoxyphenyl 3-me	191935	1000315-68-0	25.00
5	o-Hydroxyacetophenonylidene-4,5-dim	105656	103133-80-8	22.00



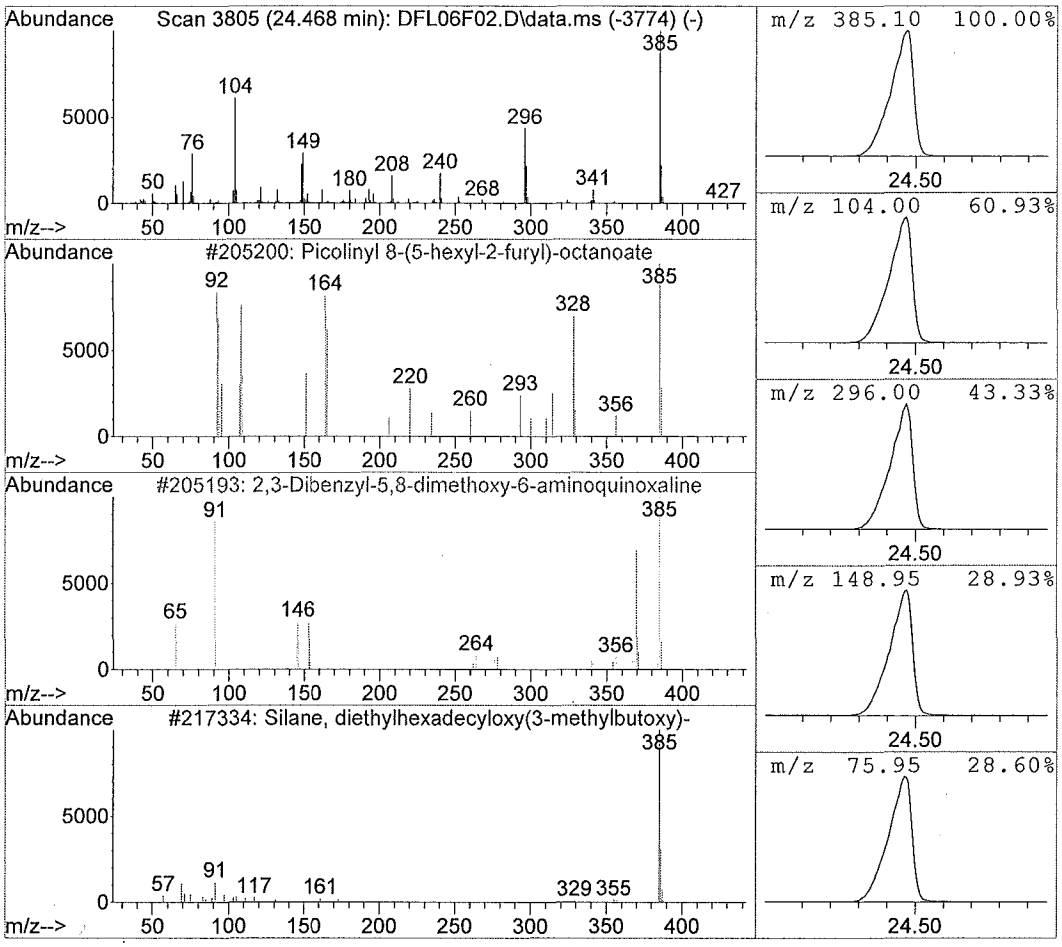
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL06F02.D Vial: 6
Acq On : 05/27/2015 11:39 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.47	78.67 ug/ml	32902505	Perylene-d12	8364439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	38.00
2	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	12.00
3	Silane, diethylhexadecyloxy(3-methy	217334	1000363-00-5	10.00
4	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	10.00
5	Phthalic anhydride	23152	000085-44-9	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL07F03

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	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.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL07F03

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL07F03

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	78-95-5	2-Propanone, 1-chloro-	2.48	92.	JNB
02		Unknown 1,2-Ethanediol	2.58	430	J
03		Unknown 4-Chloro-2-butanone	3.53	99.	JB
04		Unknown Guanidine	3.72	5500	J
05		Unknown 1H-Pyrrole-2,5-dione	4.49	130	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	93.	JB
07	301-02-0	9-Octadecenamide, (Z)-	14.31	88.	JNB
08	629-54-9	Hexadecanamide	14.42	170	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.32	1400	JNB
10		Unknown 3-Pentenoic acid, methyl ester	16.49	100	J
11	301-02-0	9-Octadecenamide, (Z)-	17.34	250	JN
12		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.18	430	J
13		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	22.07	310	J
14		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.40	770	J
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

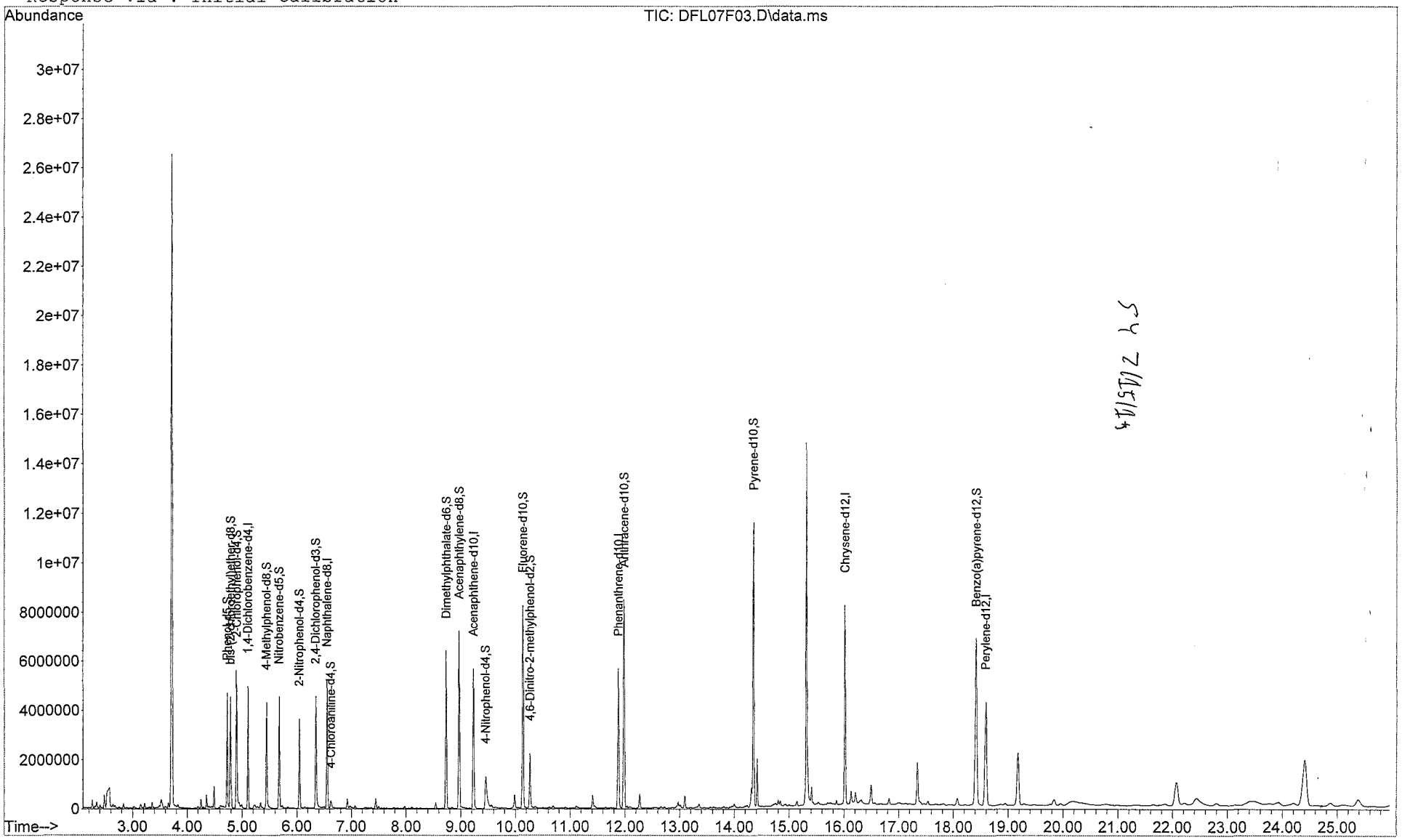
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 10:57:28 2015 Results File: DSOM01D5.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



DFL07F03.D GSOM01D6.M Wed Jul 15 12:41:52 2015

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:57:28 2015 Results File: DSOM01D5.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	5.11	152	885236	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3016252	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1915541	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3407383	20.00 ug/ml
73) Chrysene-d12	16.02	240	3981531	20.00 ug/ml
81) Perylene-d12	18.59	264	3788029	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1661442	30.156ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1100122	27.289ug/mL
7) 2-Chlorophenol-d4	4.90	132	1627523	29.636ug/ml
13) 4-Methylphenol-d8	5.45	113	1084363	26.257ug/mL
17) Nitrobenzene-d5	5.67	128	735439	29.769ug/ml
21) 2-Nitrophenol-d4	6.05	143	856969	29.251ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1372327	28.987ug/mL
28) 4-Chloroaniline-d4	6.62	131	179100	5.035ug/mL
42) Dimethylphthalate-d6	8.73	166	4011854	33.969ug/mL
45) Acenaphthylene-d8	8.97	160	4761325	30.617ug/mL
50) 4-Nitrophenol-d4	9.46	143	627005	31.965ug/mL
57) Fluorene-d10	10.13	176	3415430	32.727ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	577968	26.860ug/mL
69) Anthracene-d10	11.98	188	5693269	32.614ug/mL
75) Pyrene-d10	14.34	212	5856152	34.926ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5735895	33.088ug/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)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:57:28 2015 Results File: DSOM01D5.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)

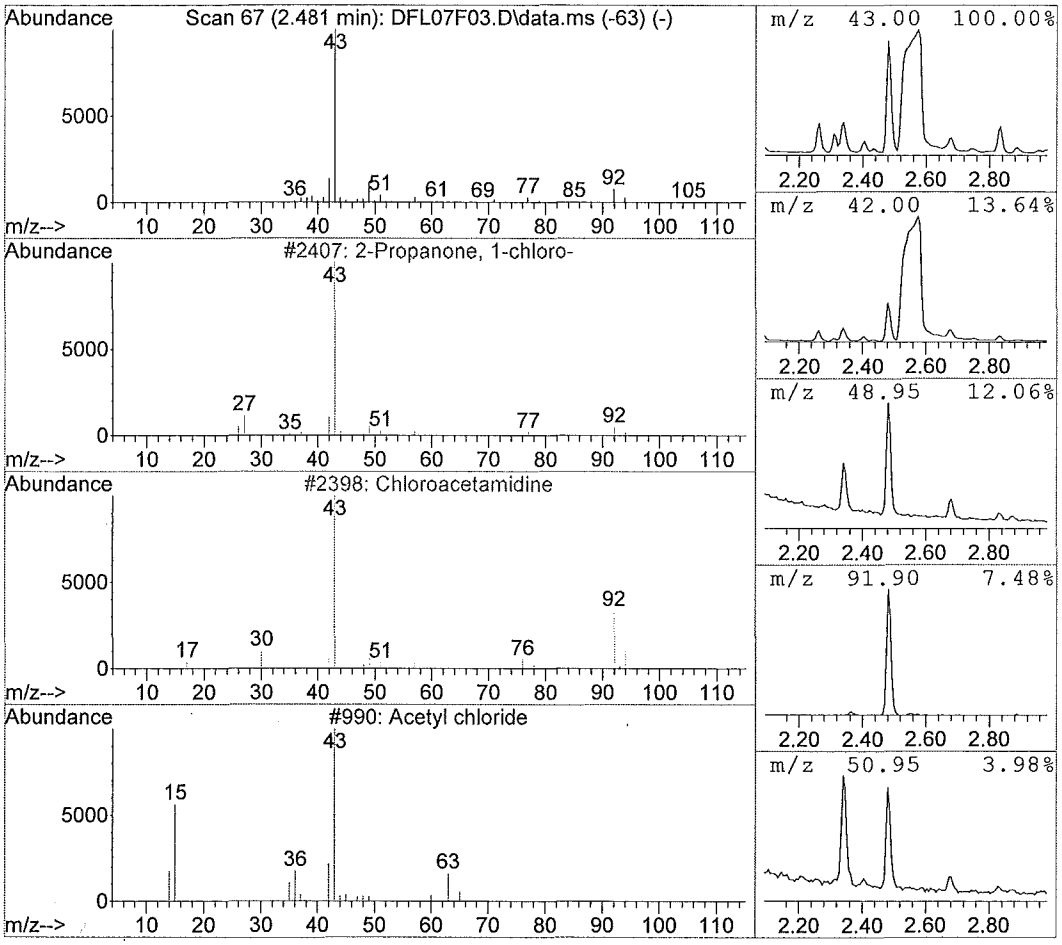
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.33 ug/ml	609026	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Acetyl chloride	990	000075-36-5	9.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00
5	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00



00251

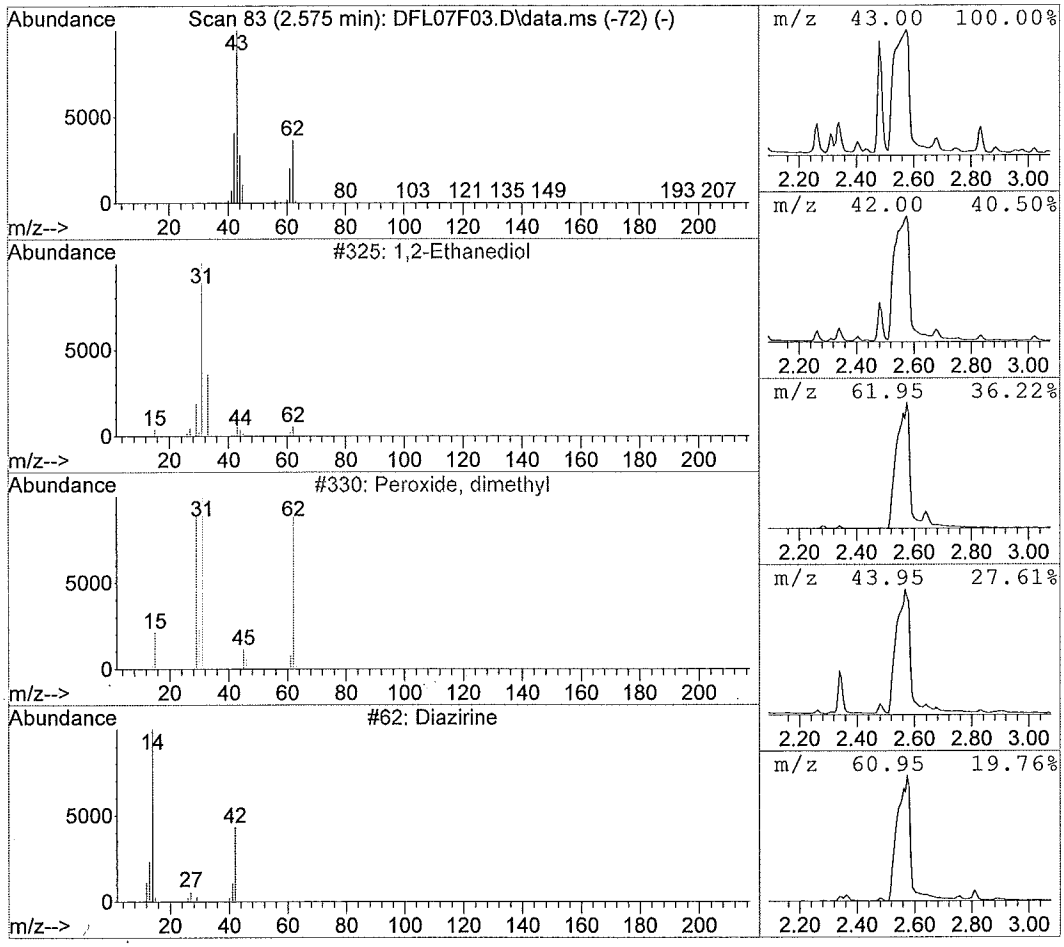
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.58	10.97 ug/ml	2868408	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	45.00
2	Peroxide, dimethyl	330	000690-02-8	4.00
3	Diazirine	62	1000305-84-1	3.00
4	Monoethanolamine	306	000141-43-5	3.00
5	Cyclobutylamine	610	002516-34-9	2.00



: 00252

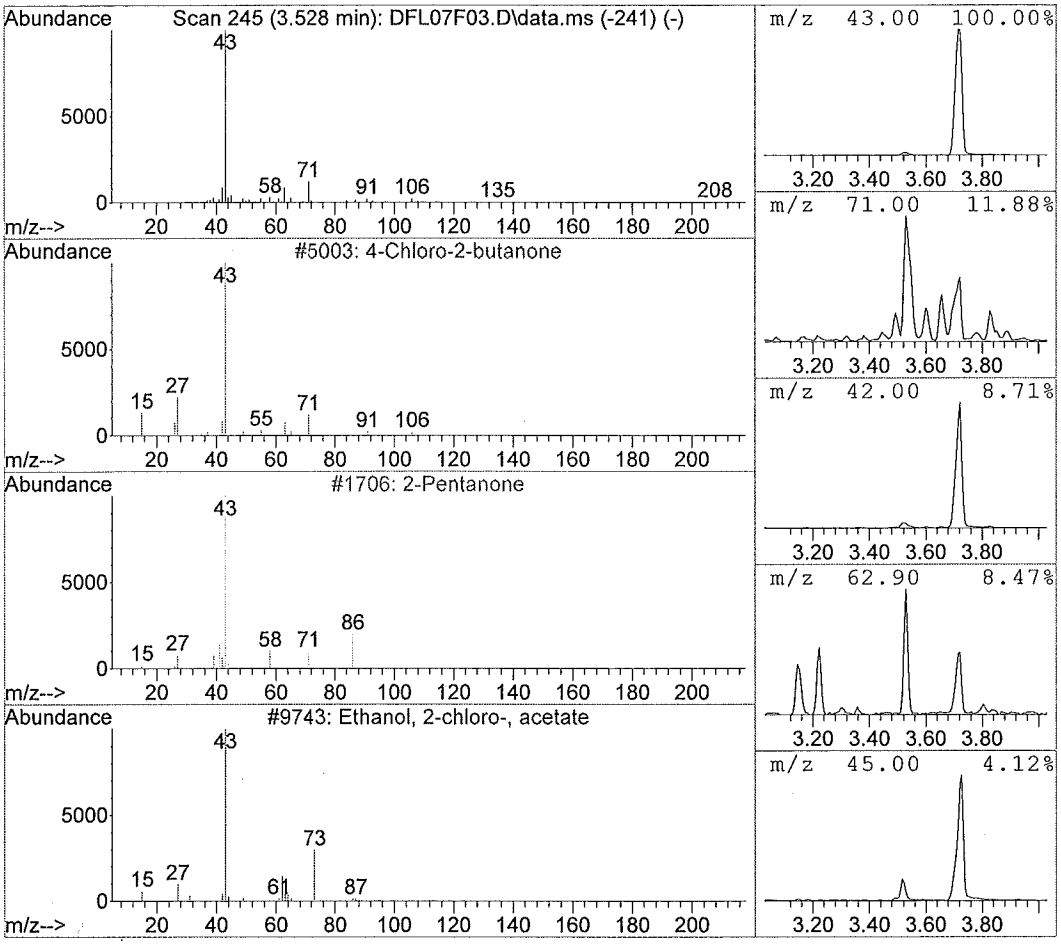
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.49 ug/ml	652384	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	49.00
2	2-Pentanone	1706	000107-87-9	33.00
3	Ethanol, 2-chloro-, acetate	9743	000542-58-5	33.00
4	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	33.00
5	2,3-Butanedione	1658	000431-03-8	17.00



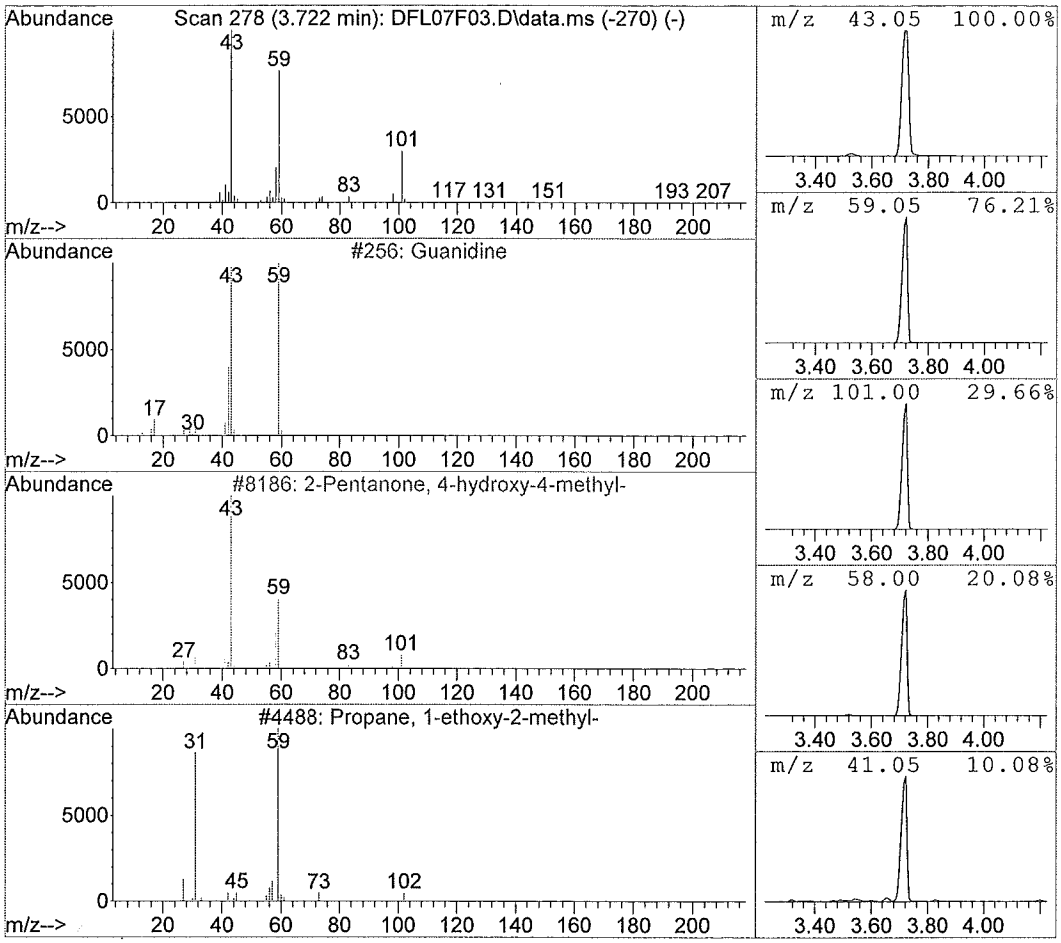
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	139.91 ug/ml	36588803	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	50.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	43.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00



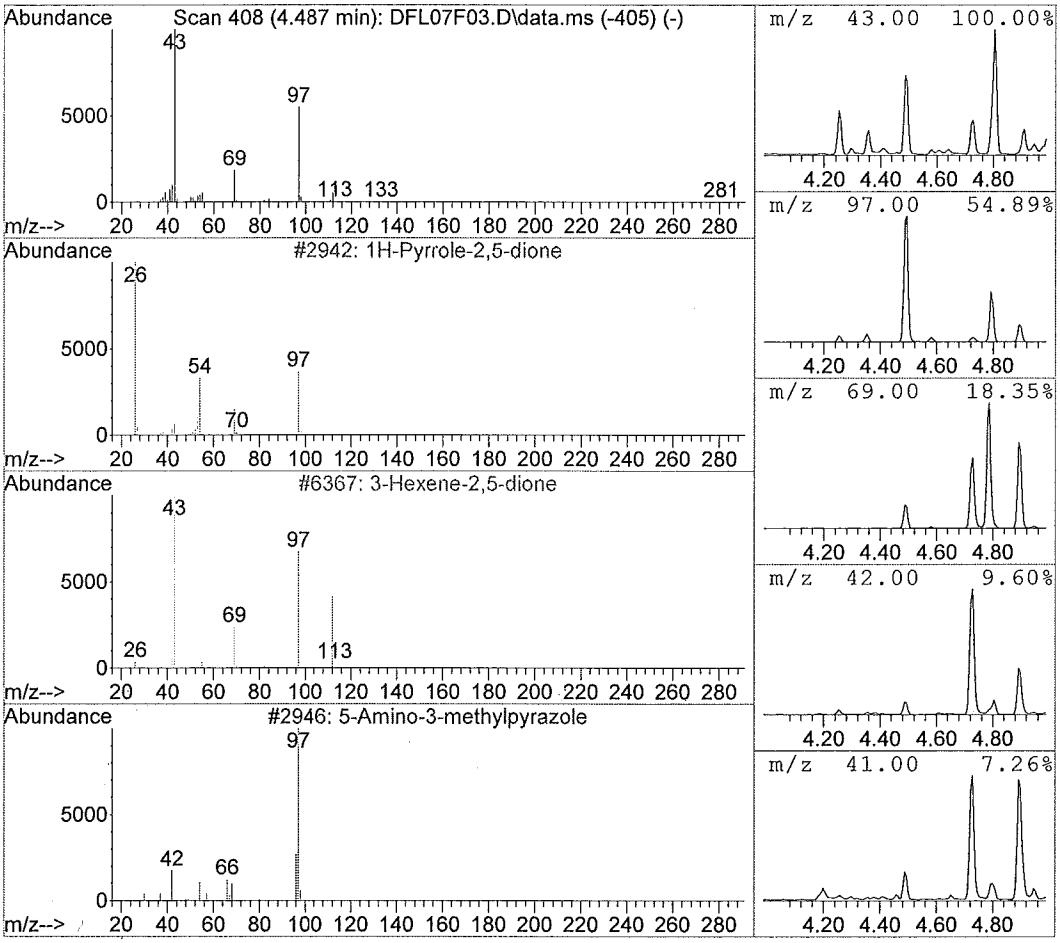
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	3.26 ug/ml	852397	1,4-Dichlorobenzene-d4	5230172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	3-Hexene-2,5-dione	6367	004436-75-3	50.00
3	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
4	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
5	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00



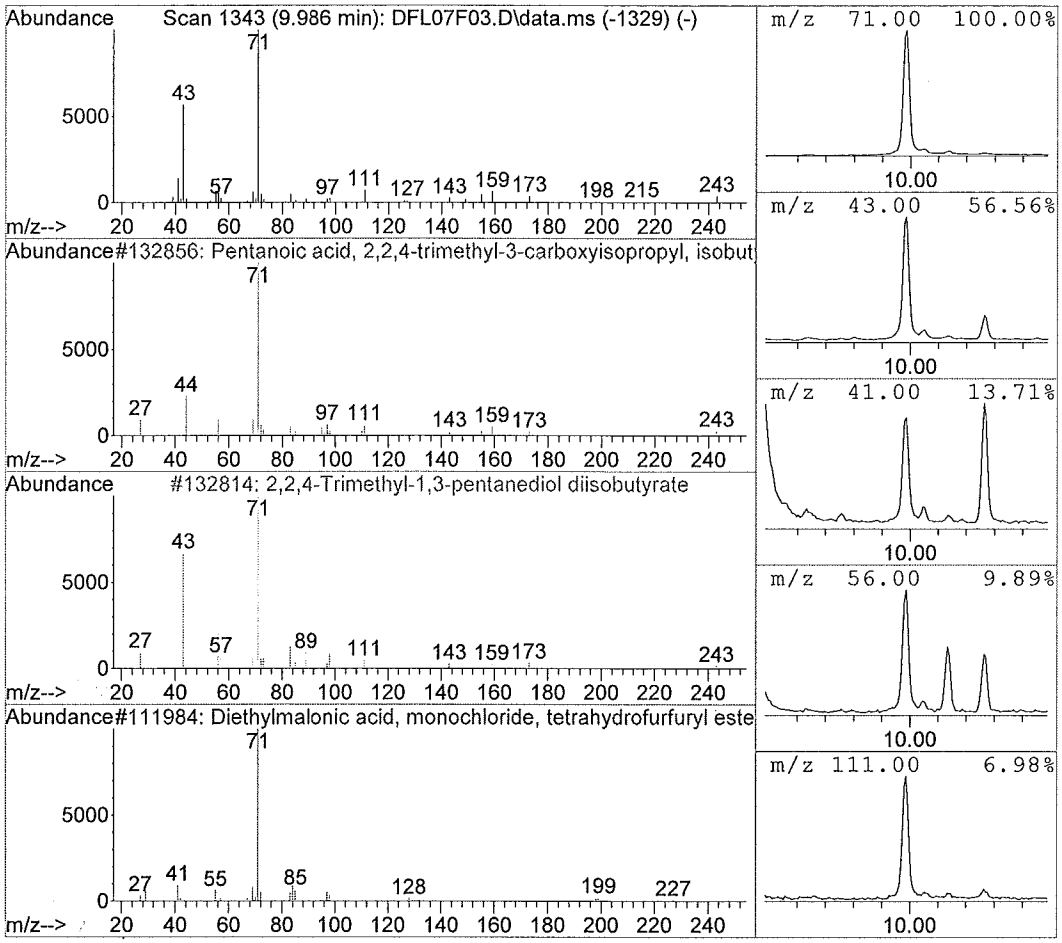
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.36 ug/ml	912587	Acenaphthene-d10	7737619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	64.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	50.00
3	Diethylmalonic acid, monochloride,	111984	1000370-65-0	50.00
4	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
5	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	42.00



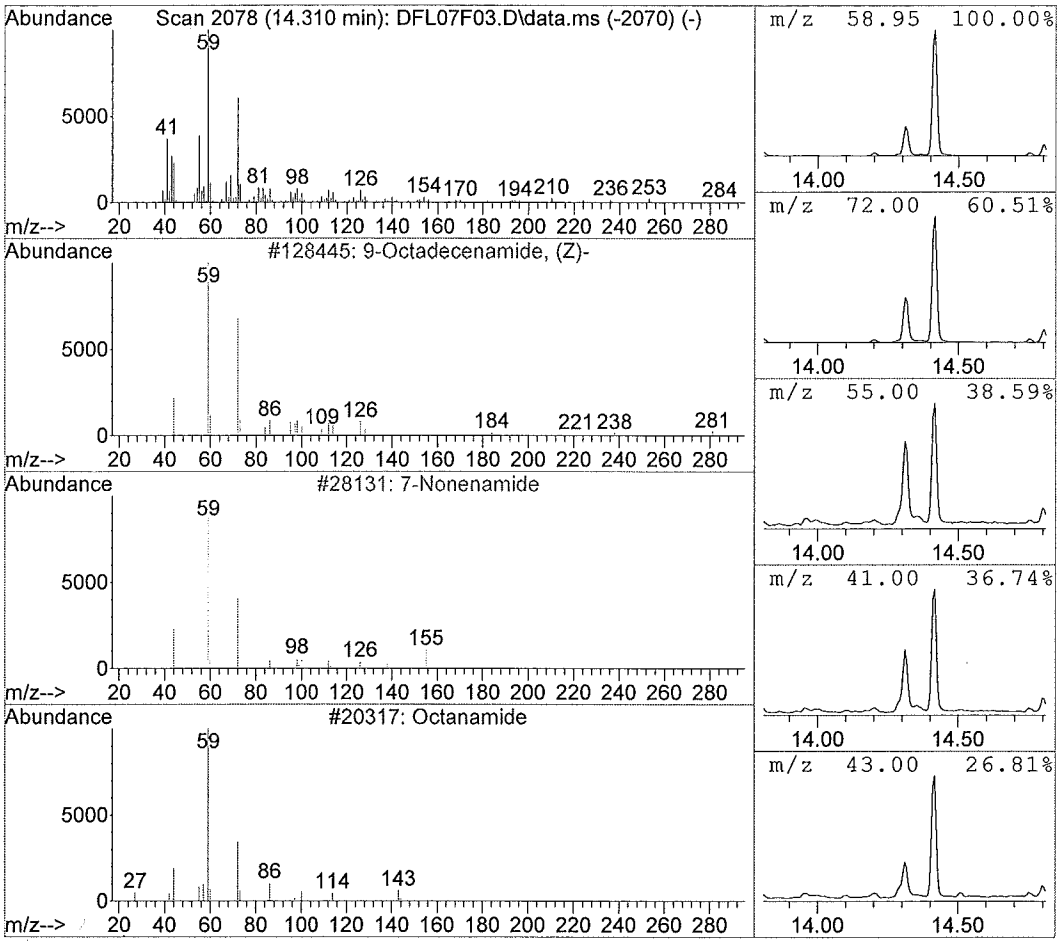
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.24 ug/ml	1158926	Chrysene-d12	10366766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Octanamide	20317	000629-01-6	56.00
4	Octadecanamide	130204	000124-26-5	53.00
5	4-Cyclohexylbutyramide	37471	004441-62-7	50.00



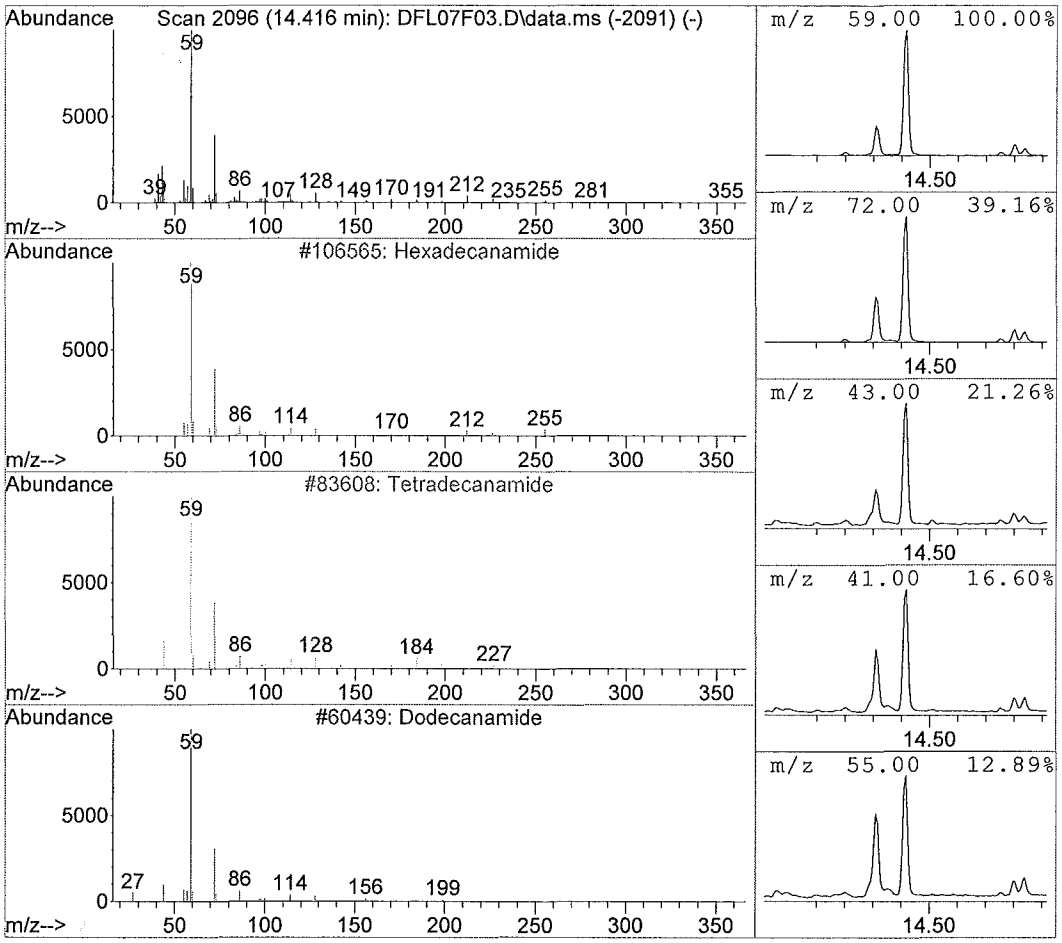
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.40 ug/ml	2282073	Chrysene-d12	10366766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	76.00
5	Nonanamide	29478	001120-07-6	59.00



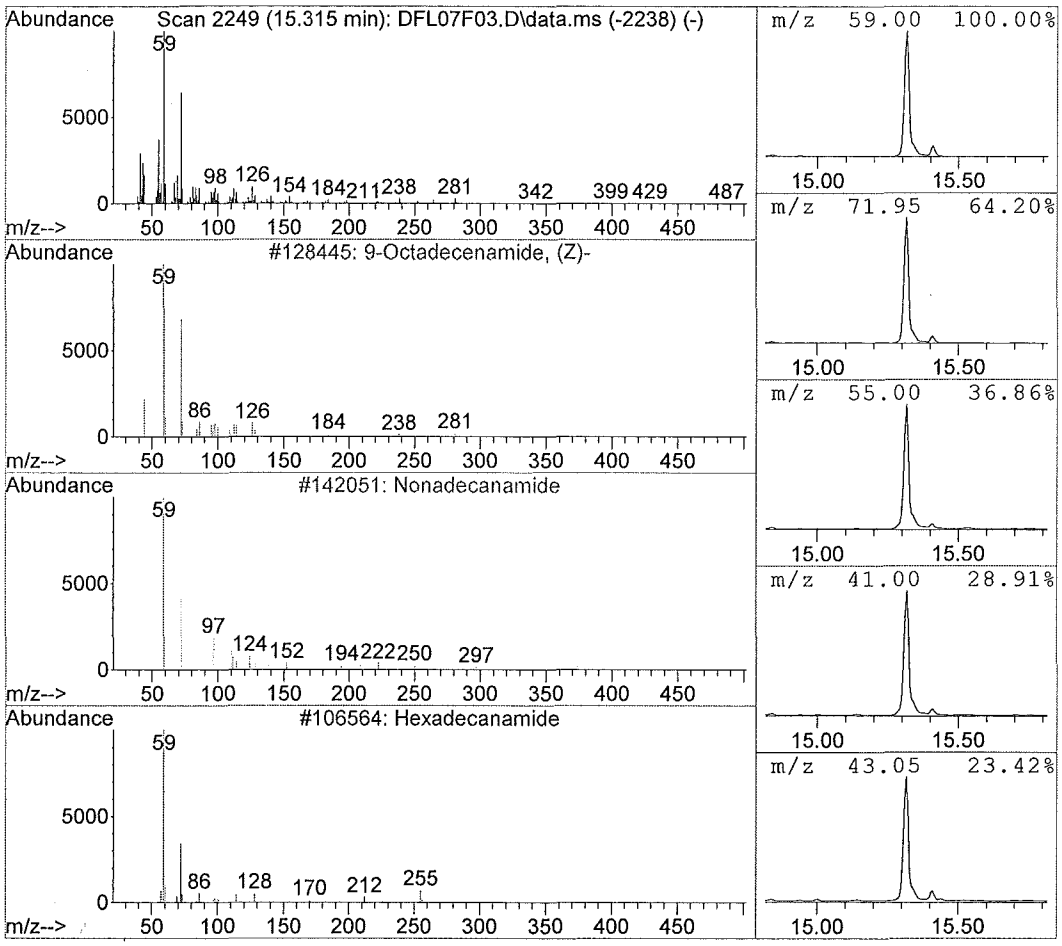
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	36.31 ug/ml	18822923	Chrysene-d12	10366766

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	106564	000629-54-9	72.00
4	Octanamide	20317	000629-01-6	53.00
5	Octanehydrazide, N2-(2-thenylidene)	103682	339302-09-9	38.00



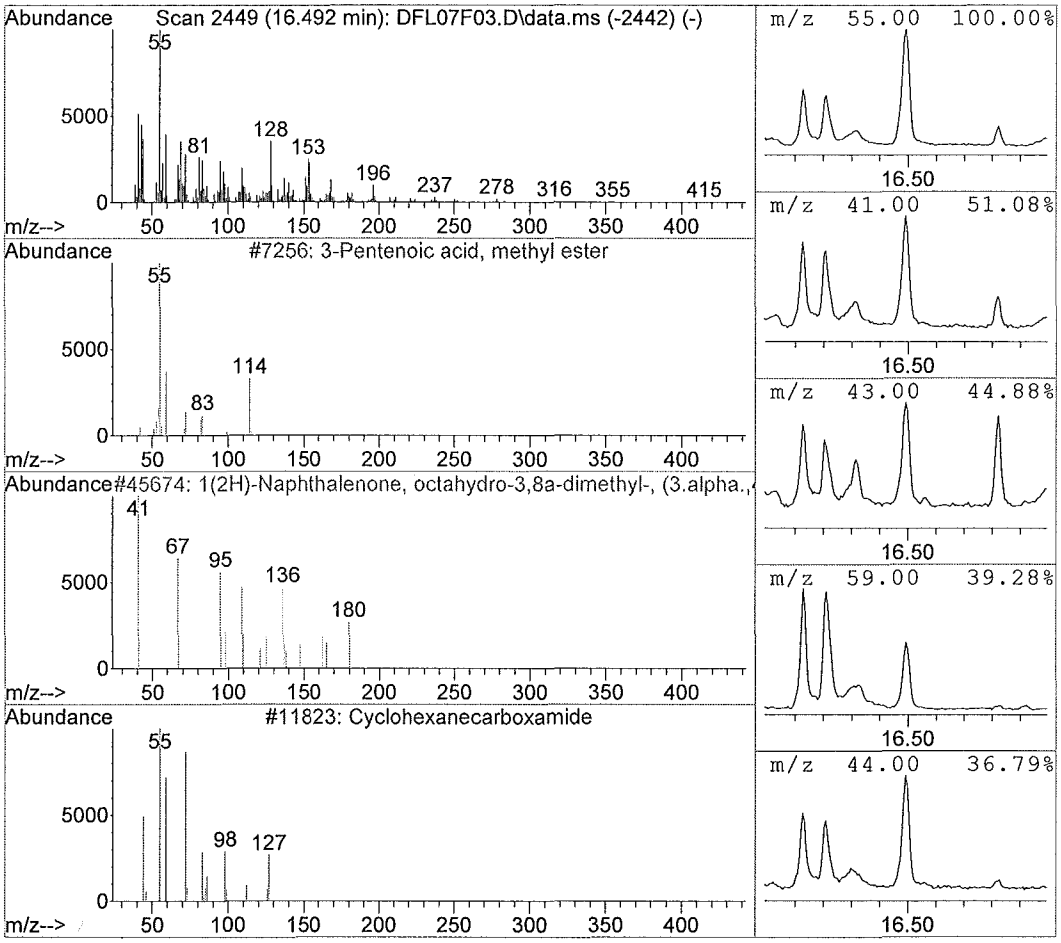
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.49	2.65 ug/ml	1372556	Chrysene-d12	10366766

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	1(2H)-Naphthalenone, octahydro-3,8a	45674	000941-20-8	15.00
3	Cyclohexanecarboxamide	11823	001122-56-1	14.00
4	2-Hexenedioic acid, 2-methoxy-, dim	63039	056114-71-7	10.00
5	trans-1,4-Bis(acetamidomethyl)cyclo	82506	070924-84-4	10.00



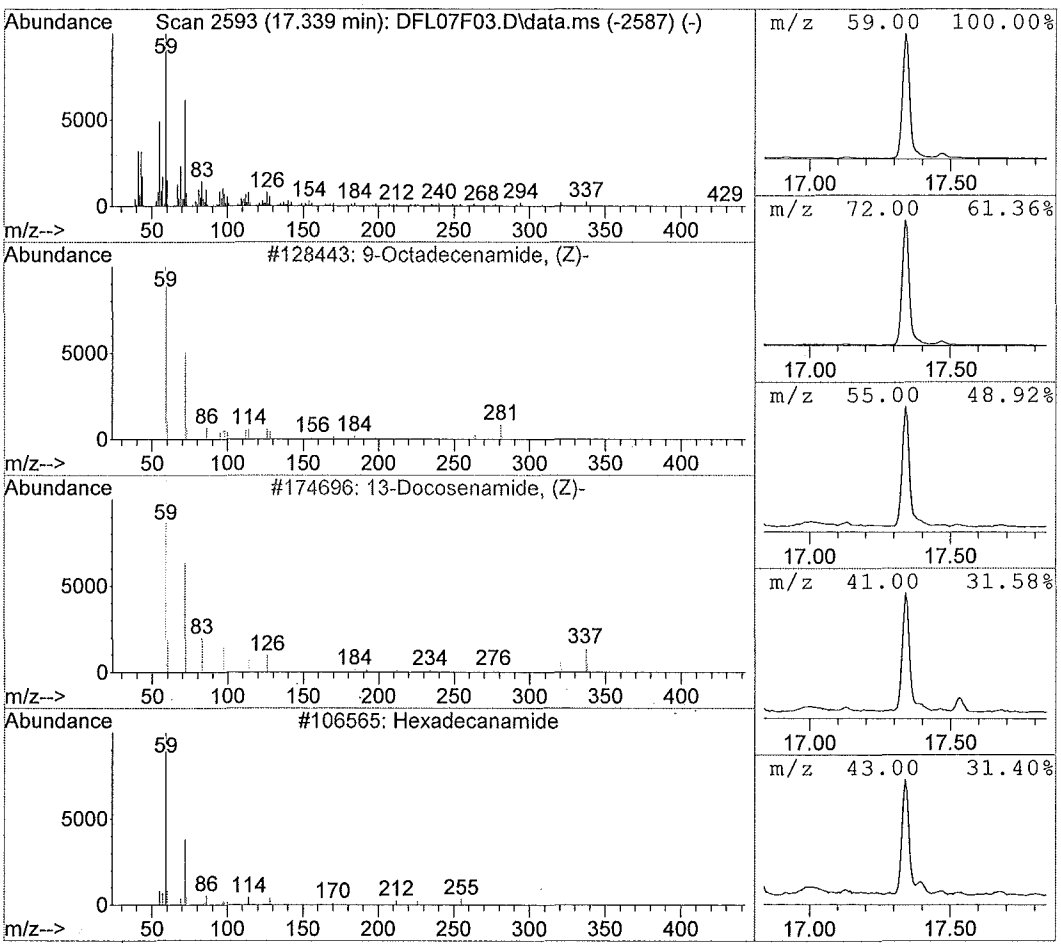
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	6.25 ug/ml	3054340	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	91.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	90.00
3	Hexadecanamide	106565	000629-54-9	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	Tetradecanamide	83610	000638-58-4	64.00



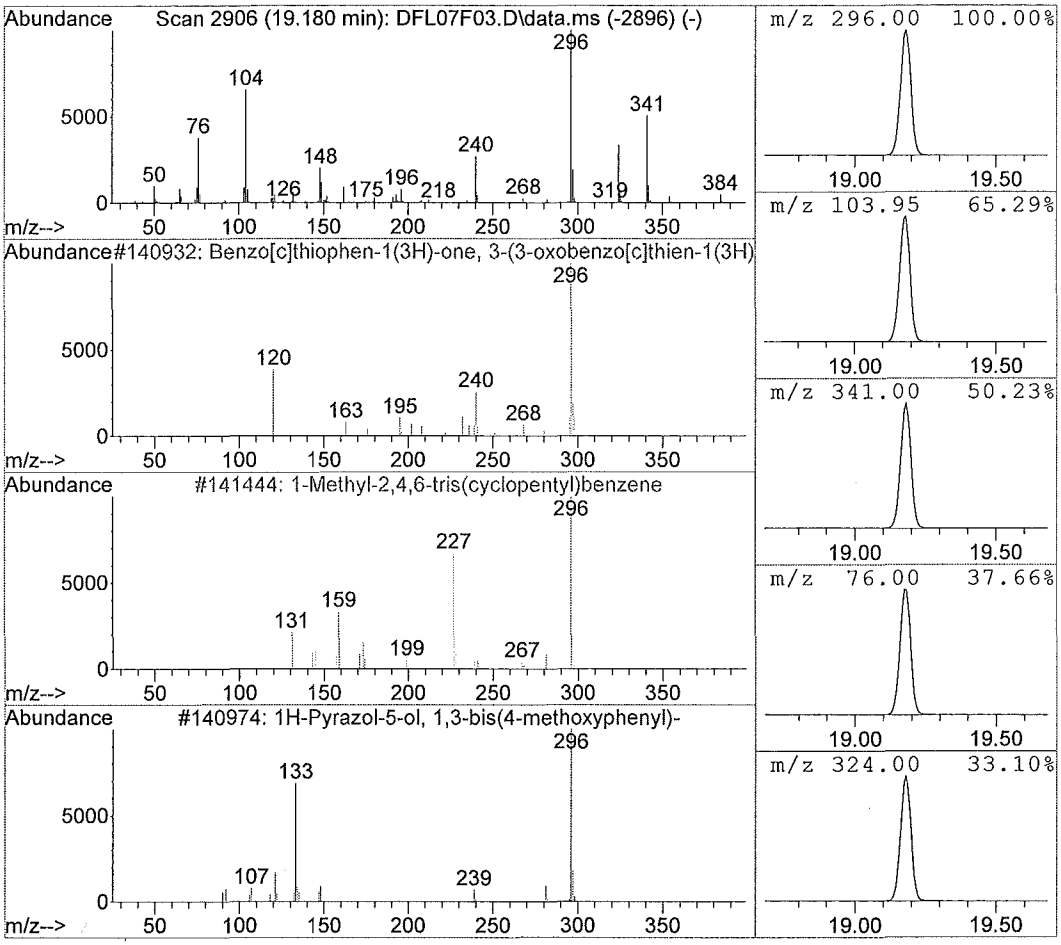
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.18	11.01 ug/ml	5376393	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
3	1H-Pyrazol-5-ol, 1,3-bis(4-methoxyp	140974	1000337-80-1	22.00
4	Bithiophthalide	140931	032819-84-4	16.00
5	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	16.00



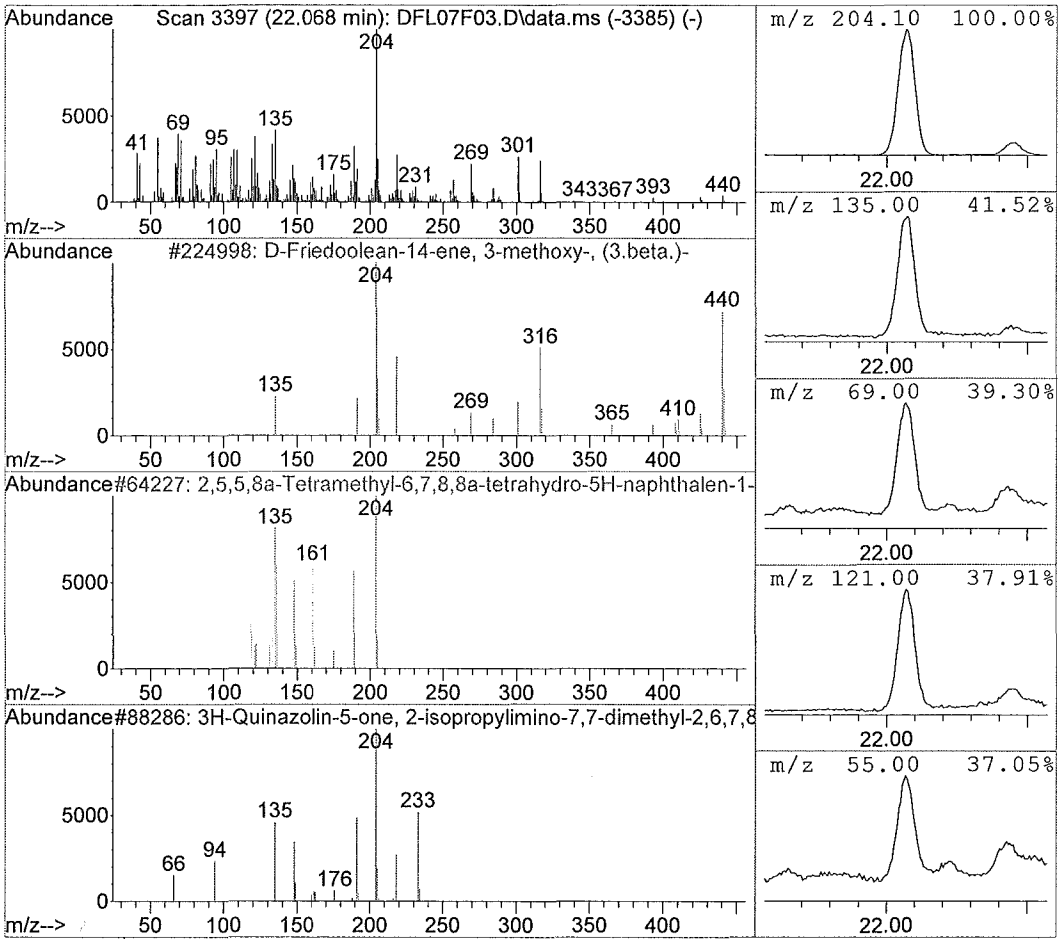
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	7.79 ug/ml	3803742	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	64.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	43.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	38.00
5	Mannose, 6-deoxy-2,3,4,5-tetrakis-O	227366	019127-15-2	35.00



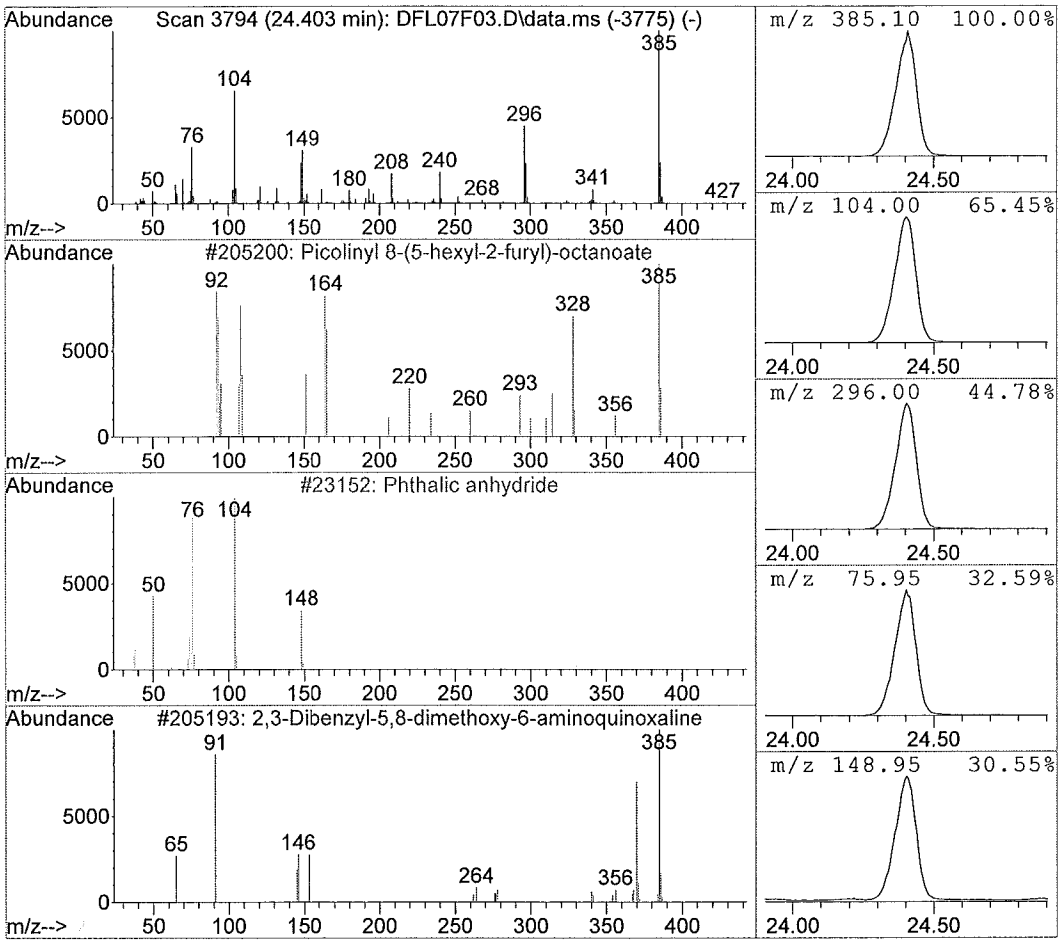
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL07F03.D Vial: 7
Acq On : 05/27/2015 12:13 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.40	19.49 ug/ml	9519345	Perylene-d12	9766266

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	38.00
2	Phthalic anhydride	23152	000085-44-9	14.00
3	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	10.00
4	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	10.00
5	Silane, diethyl(2-hexyloxy)pentadec	217329	1000363-51-0	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK05F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	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.:

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK05F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	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	16.	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	24.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	21.	J
117-81-7	Bis(2-ethylhexyl)phthalate	46.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	24.	J
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.: F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK05F04

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

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.19	140	JN
02		Unknown 2-Propanone, 1-chloro-	2.27	120	J
03		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.33	750	J
04		Unknown 4-Chloro-2-butanone	3.31	100	J
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6100	J
06		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	250	J
07		Unknown 2-Propanone, 1-hydroxy-	5.09	110	J
08		Unknown Silane, tetraethyl-	5.37	230	J
09		Unknown 3-Dodecen-1-ol	11.72	100	J
10	2416-20-8	Hexadecenoic acid, Z-11-	12.58	140	JN
11	57-10-3	n-Hexadecanoic acid	12.66	680	JN
12	638-58-4	Tetradecanamide	12.77	130	JN
13		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.99	100	J
14	693-71-0	trans-13-Octadecenoic acid	13.90	110	JN
15		Unknown Ethyl tetradecyl ether	13.93	120	J
16	1120-16-7	Dodecanamide	14.16	390	JN
17		Unknown 1,4-Benzenedicarboxylic acid, bis(2-hydr	14.37	190	J
18	301-02-0	9-Octadecenamide, (Z)-	15.08	2600	JN
19	5875-26-3	Undecanamide, 11-bromo-	15.17	120	JN
20	506-51-4	n-Tetracosanol-1	15.67	140	JN
21		Unknown Tetradecanamide	15.86	140	J
22		Unknown 5-Tetradecene, (E)-	16.20	250	J
23	18835-33-1	1-Hexacosene	16.60	160	JN
24	301-02-0	9-Octadecenamide, (Z)-	16.99	1200	JN
25	111-02-4	Squalene	17.16	260	JN
26	557-61-9	Octacosanol	17.80	420	JN
27		Unknown 1,2-Benzenedicarboxylic acid	18.62	1500	J
28	71502-22-2	9-Hexacosene	19.49	1100	JN
29	83-47-6	.gamma.-Sitosterol	22.29	1800	JN
30	1058-61-3	Stigmast-4-en-3-one	24.20	1000	JN
	E966796[2]	Total Alkanes	N/A	3500	J

[2] EPA-designated Registry Number.

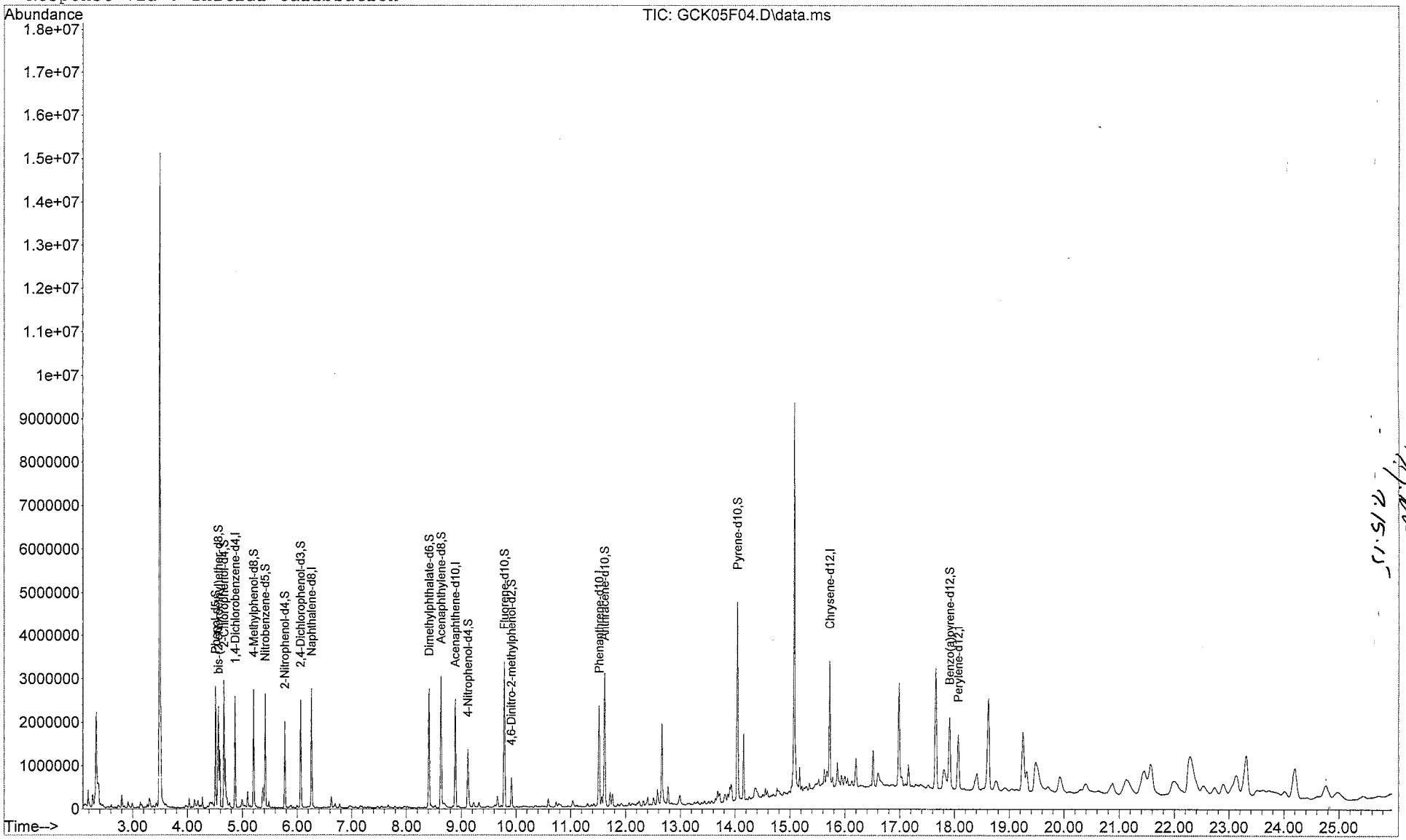
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:56:11 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration



GCK05F04.D GSOM01D6.M Tue Jul 14 15:11:44 2015

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:56:11 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	356135	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1346098	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	782526	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1287935	20.00 ug/ml
73) Chrysene-d12	15.72	240	1216835	20.00 ug/ml
81) Perylene-d12	18.07	264	915019	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	831298	26.823ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	549396	22.748ug/mL
7) 2-Chlorophenol-d4	4.66	132	665596	25.436ug/ml
13) 4-Methylphenol-d8	5.20	113	542826	26.187ug/mL
17) Nitrobenzene-d5	5.42	128	301167	25.468ug/ml
21) 2-Nitrophenol-d4	5.77	143	321884	25.753ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	547336	28.122ug/mL
28) 4-Chloroaniline-d4	6.36	131	6302	0.297ug/mL
42) Dimethylphthalate-d6	8.42	166	1437226	29.290ug/mL
45) Acenaphthylene-d8	8.63	160	1846373	27.688ug/mL
50) 4-Nitrophenol-d4	9.12	143	283907	28.361ug/mL
57) Fluorene-d10	9.79	176	1226009	29.257ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	116381	12.731ug/mL
69) Anthracene-d10	11.62	188	1896363	27.765ug/mL
75) Pyrene-d10	14.04	212	1808909	29.788ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1185125	27.029ug/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)

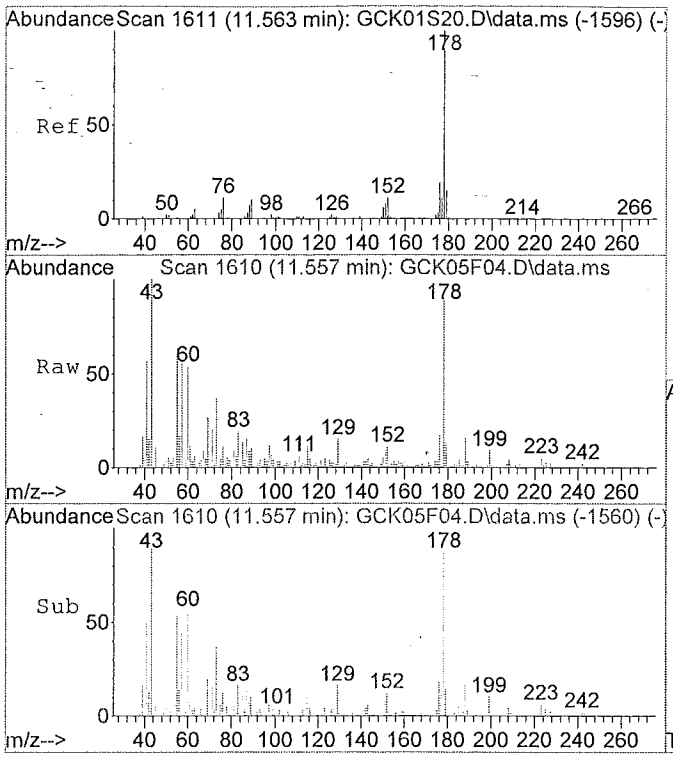
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:56:11 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 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	27679	0.403ug/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	0.00	202		Not Detected	
74) Pyrene	14.06	202	46305	0.598ug/ml	8
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	15.75	228	36240	0.544ug/ml	96
80) Bis-(2-ethylhexyl)phthalat	15.78	149	70579	1.173ug/ml	95
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.33	252	35141	0.613ug/ml	77
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	

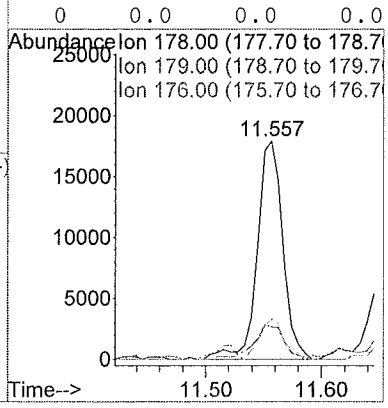
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

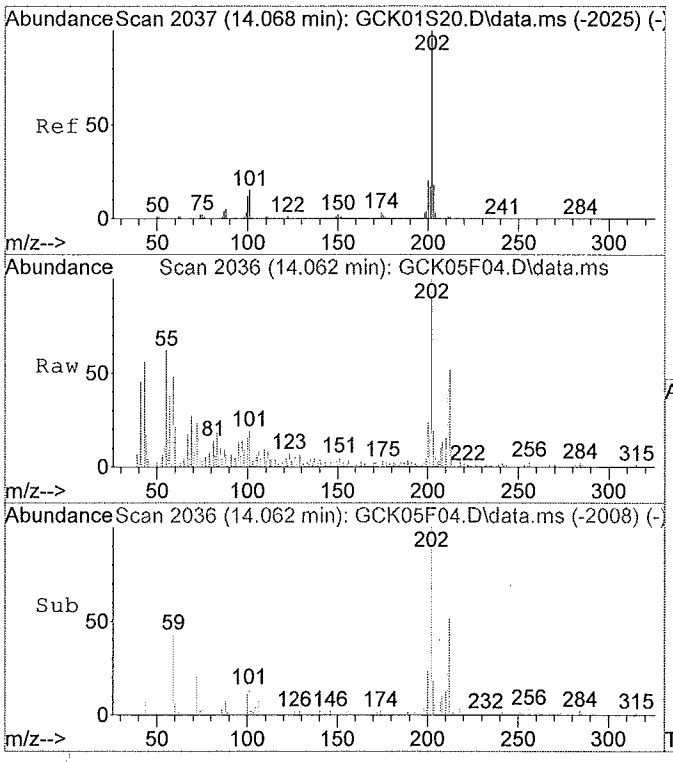


#67
Phenanthrene
Concen: 0.40 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCK05F04.D
Acq: 07/02/2015 13:03

Tgt Ion:178 Resp: 27679

Ion	Ratio	Lower	Upper
178	100		
179	17.4	10.6	19.8
176	17.9	13.2	24.4
0	0.0	0.0	0.0

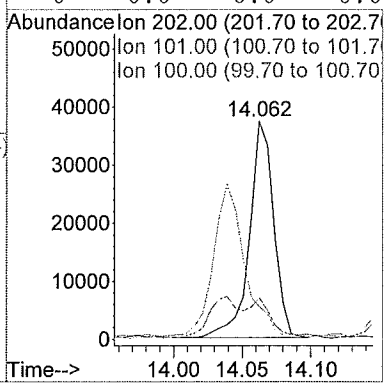


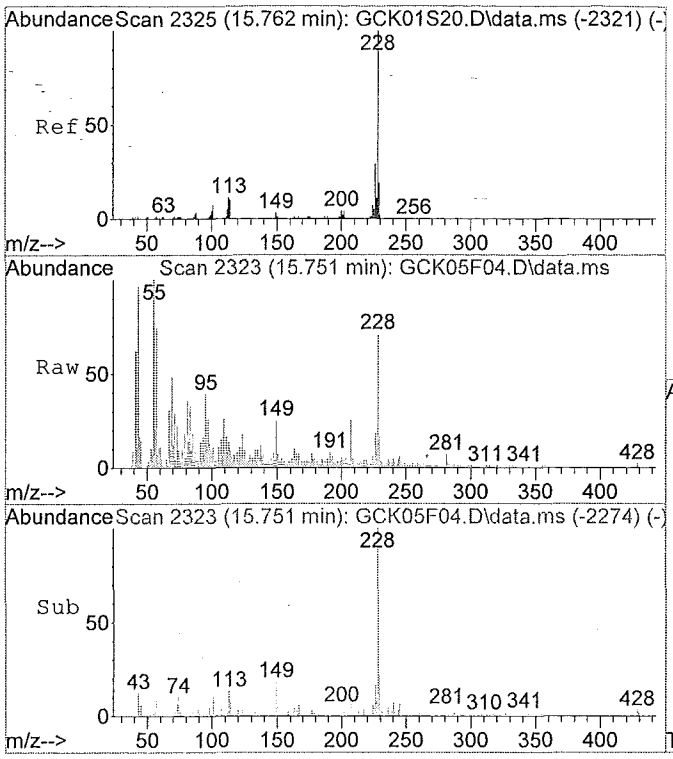


#74
Pyrene
Concen: 0.60 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCK05F04.D
Acq: 07/02/2015 13:03

Tgt Ion:202 Resp: 46305

Ion	Ratio	Lower	Upper
202	100		
101	22.5	12.2	22.7
100	92.2	10.1	18.7#
0	0.0	0.0	0.0

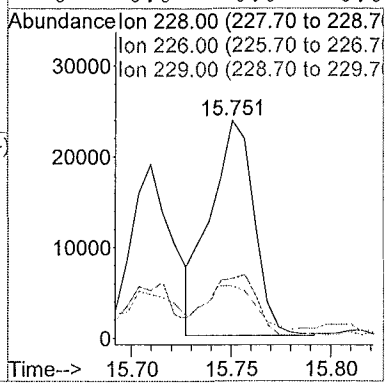


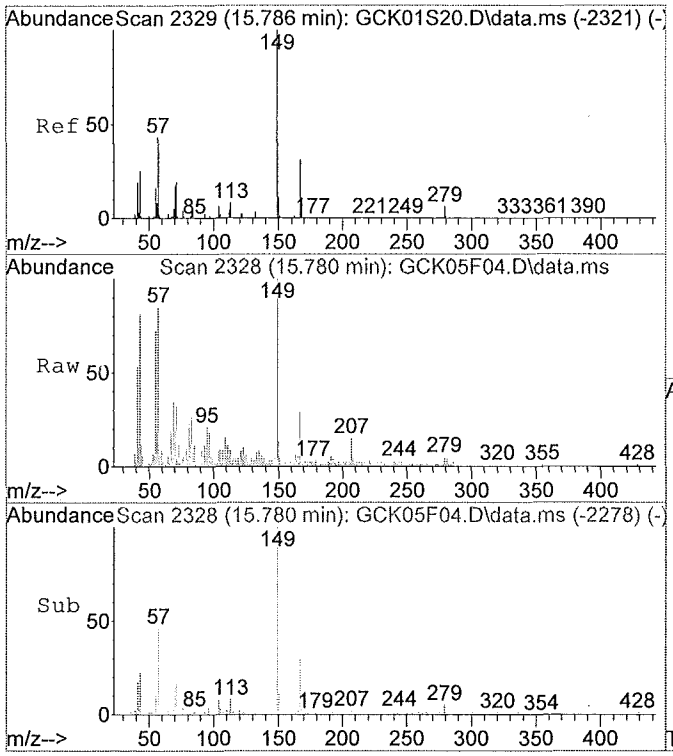


#79
Chrysene
Concen: 0.54 ug/ml
RT: 15.75 min Scan# 2323
Delta R.T. -0.01 min
Lab File: GCK05F04.D
Acq: 07/02/2015 13:03

Tgt Ion:228 Resp: 36240

Ion	Ratio	Lower	Upper
228	100		
226	30.0	20.1	37.3
229	22.9	13.7	25.5
0	0.0	0.0	0.0

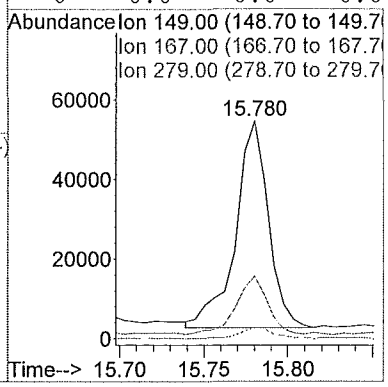


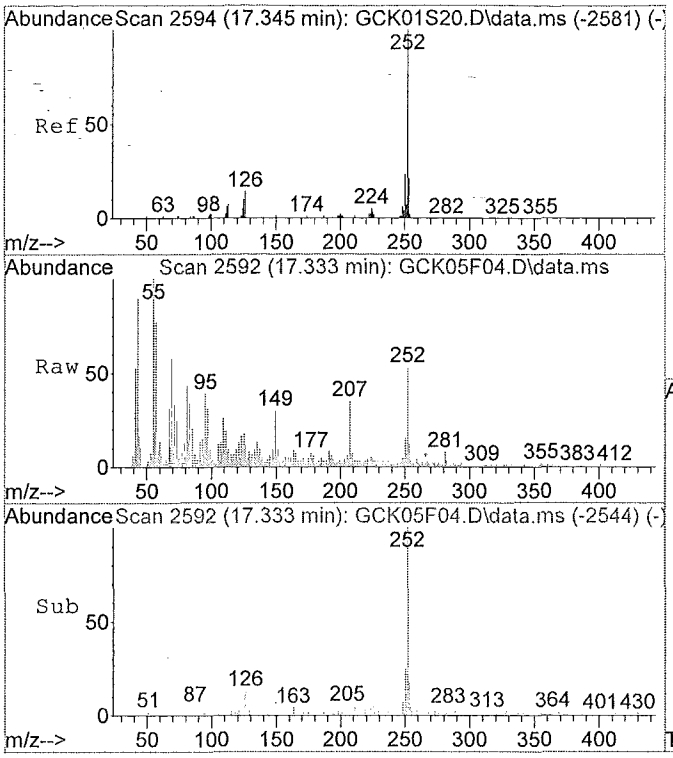


#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.17 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCK05F04.D
Acq: 07/02/2015 13:03

Tgt Ion:149 Resp: 70579

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.0	40.8
279	5.8	5.0	9.2
0	0.0	0.0	0.0

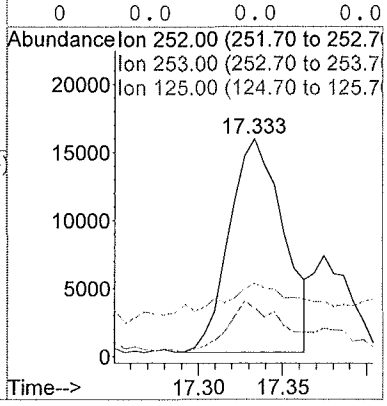




#83
Benzo(b)fluoranthene
Concen: 0.61 ug/ml
RT: 17.33 min Scan# 2592
Delta R.T. -0.01 min
Lab File: GCK05F04.D
Acq: 07/02/2015 13:03

Tgt Ion:252 Resp: 35141

Ion	Ratio	Lower	Upper
252	100		
253	24.6	15.1	28.1
125	35.1	10.6	19.8#
0	0.0	0.0	0.0



Library Search Compound Report

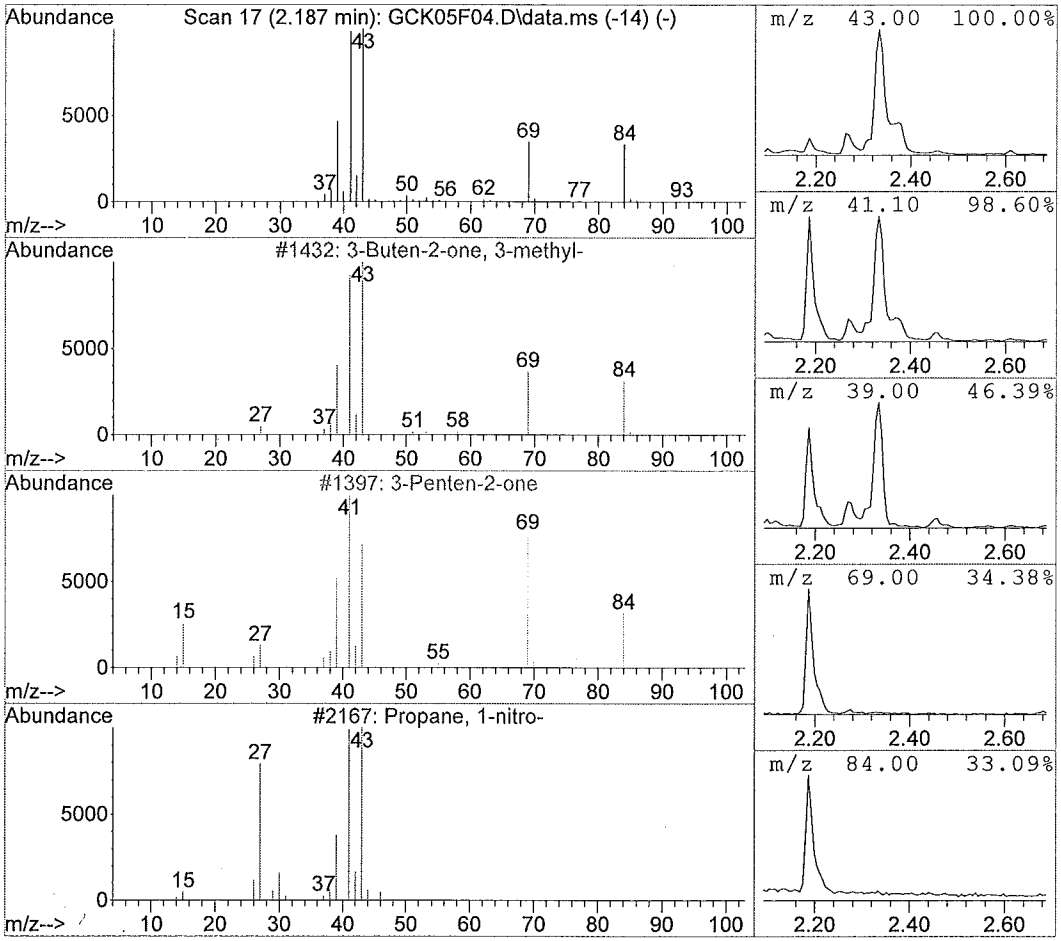
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.19	3.45 ug/ml	443031	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	3-Penten-2-one	1397	000625-33-2	50.00
3	Propane, 1-nitro-	2167	000108-03-2	45.00
4	Ethanone, 1-cyclopropyl-	1435	000765-43-5	43.00
5	(Z)-1,3-Butadien-1-ol	548	070415-58-6	28.00



00274

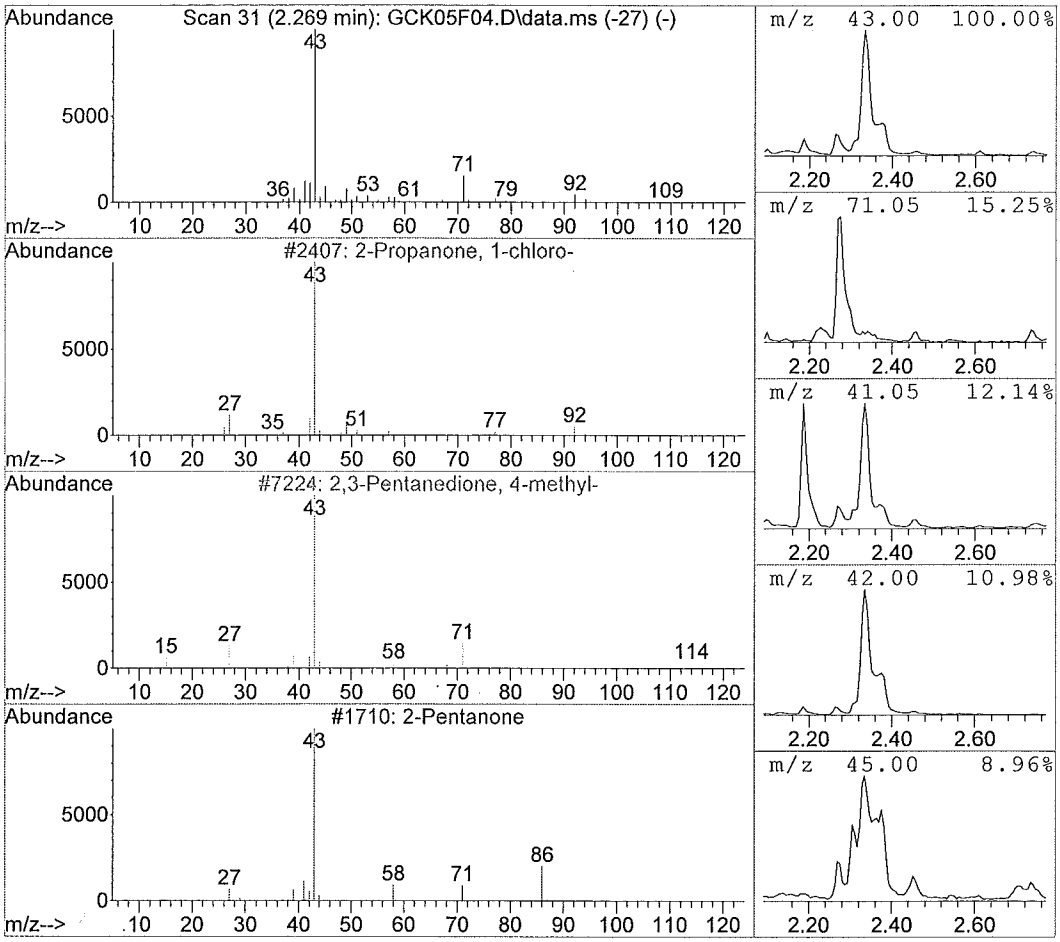
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.27	3.04 ug/ml	389857	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	62.00
2	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	25.00
3	2-Pentanone	1710	000107-87-9	9.00
4	Cyclobutylamine	609	002516-34-9	9.00
5	Allyl acetate	3664	000591-87-7	9.00



Library Search Compound Report

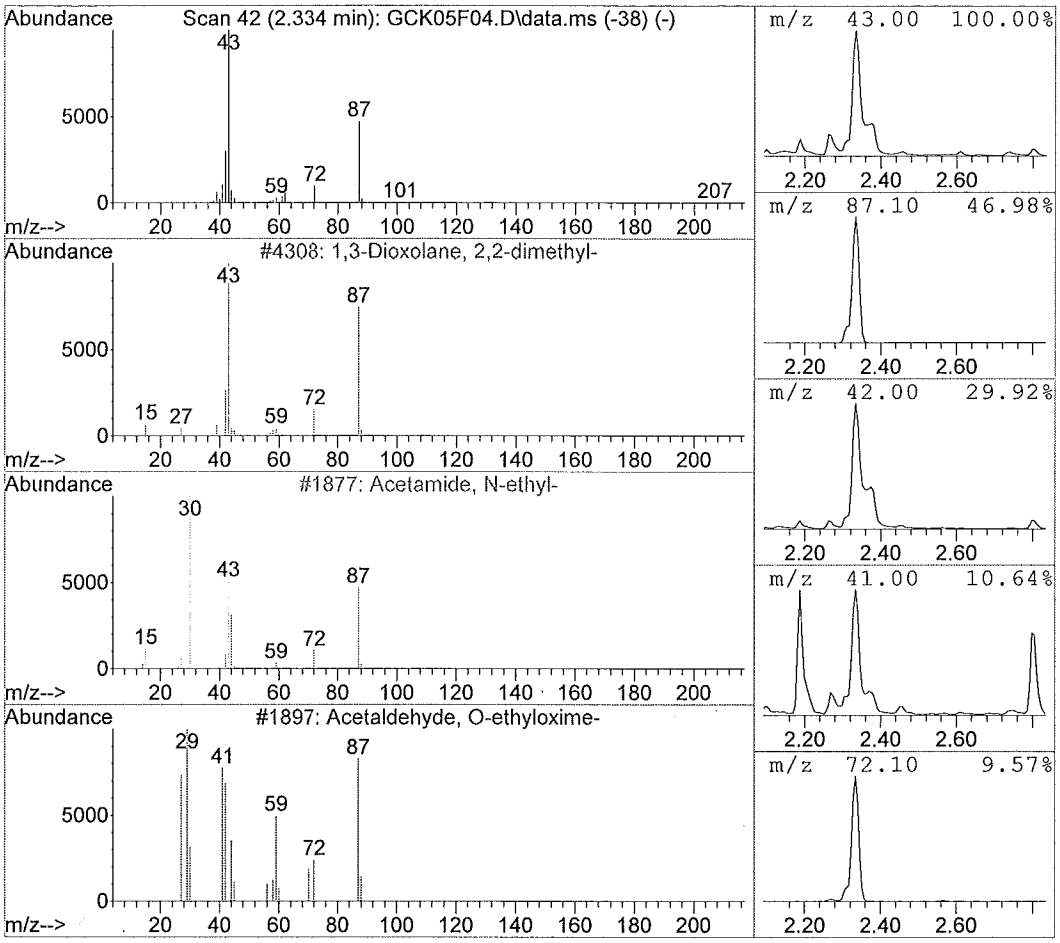
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	19.00 ug/ml	2437372	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	50.00
2	Acetamide, N-ethyl-	1877	000625-50-3	28.00
3	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00
4	Thiocyanic acid, ethyl ester	1854	000542-90-5	9.00
5	2-Propanone, 1-hydroxy-, oxime	2178	068113-52-0	7.00



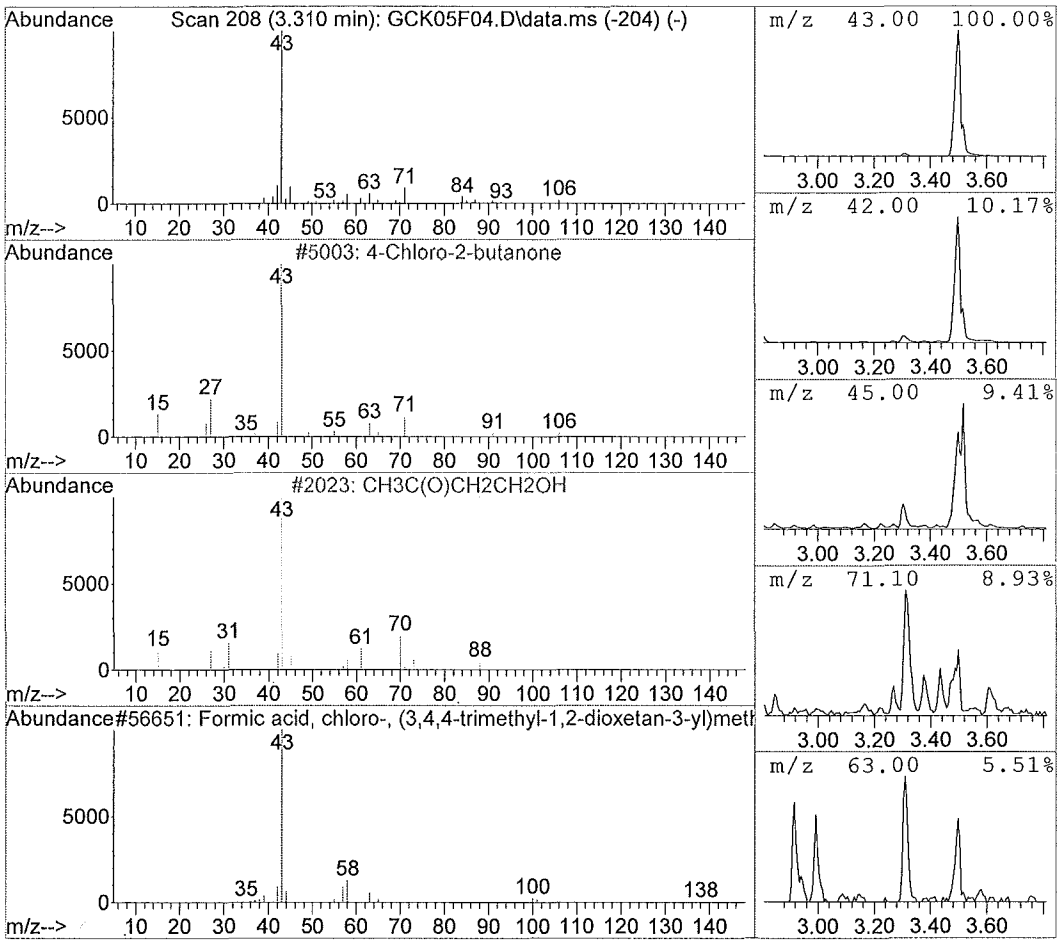
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	2.59 ug/ml	332203	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	23.00
2	CH3C(O)CH2CH2OH	2023	000590-90-9	9.00
3	Formic acid, chloro-, (3,4,4-trimet	56651	107323-92-2	9.00
4	Pyrrolidine	607	000123-75-1	7.00
5	1,4-Butanediamine	1969	000110-60-1	5.00



Library Search Compound Report

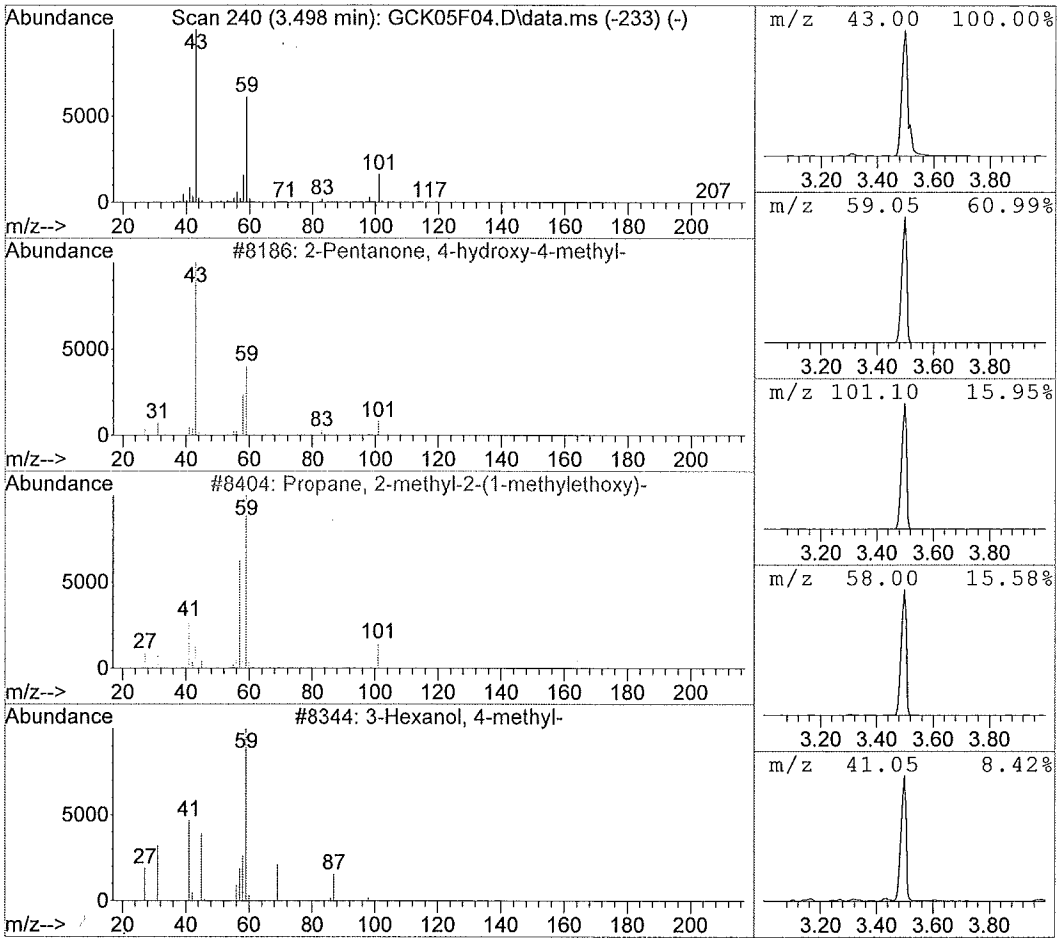
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	154.01 ug/ml	19752283	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	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	23.00



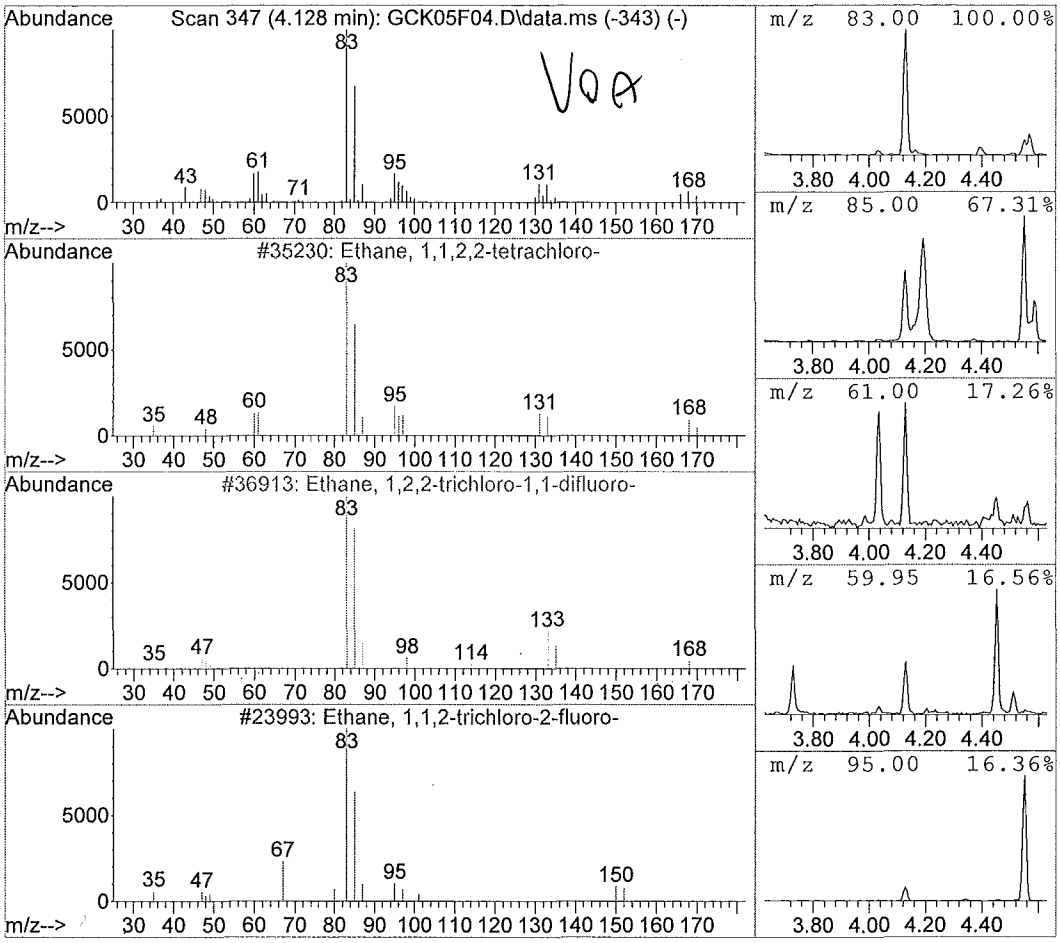
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.01 ug/ml	257284	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	96.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	68.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	50.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	45.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

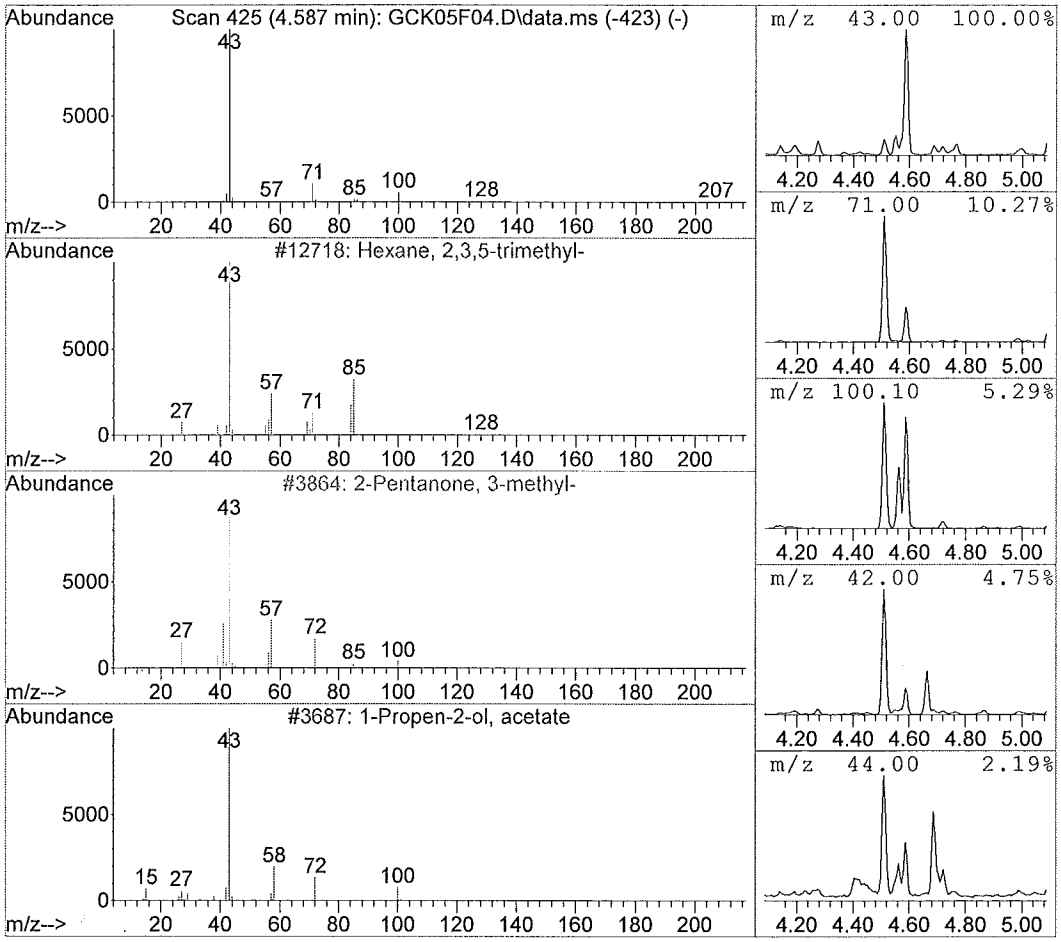
Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	9.09 ug/ml	1165566	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	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	3-Hexanone	3776	000589-38-8	5.00
5	Heptane	3971	000142-82-5	4.00

BA



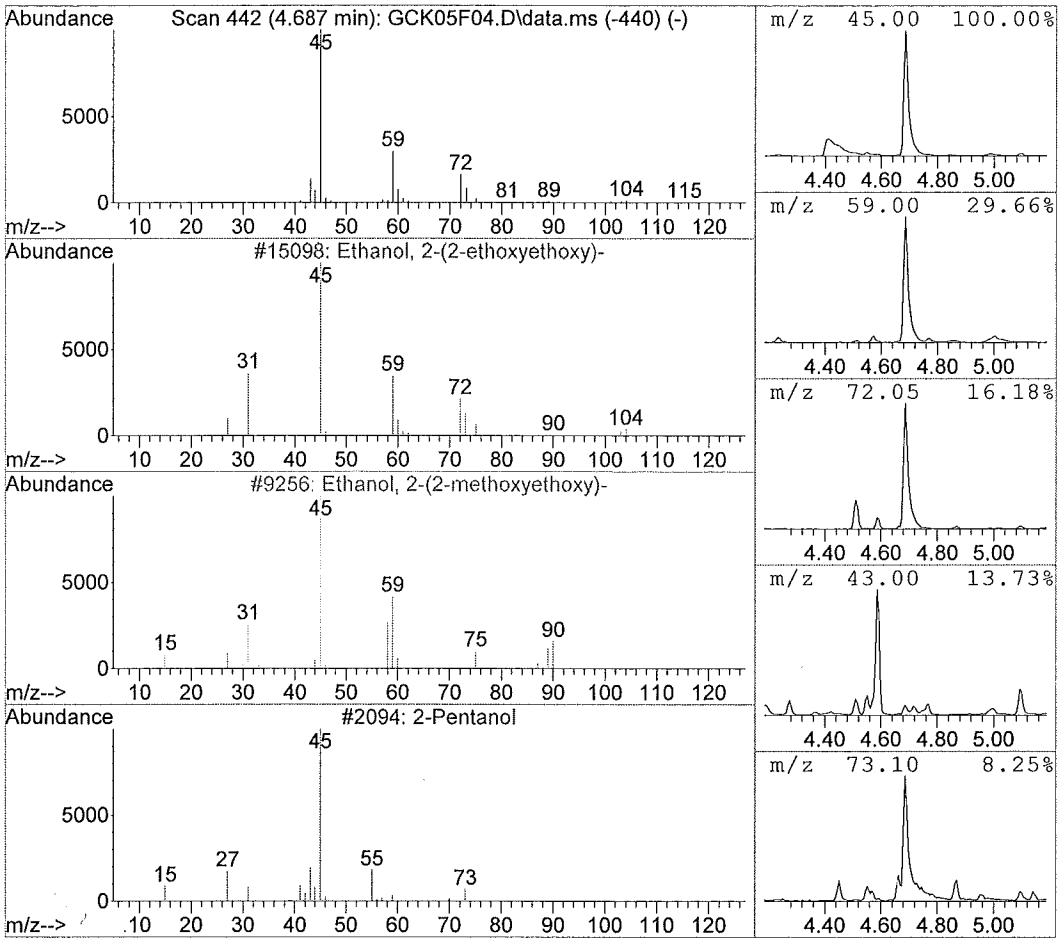
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	6.32 ug/ml	810248	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	2-Pentanol	2094	006032-29-7	36.00
4	Methoxyacetic acid, butyl ester	21952	017640-22-1	33.00
5	2-Butanol, 3-methyl-	2121	000598-75-4	9.00



Library Search Compound Report

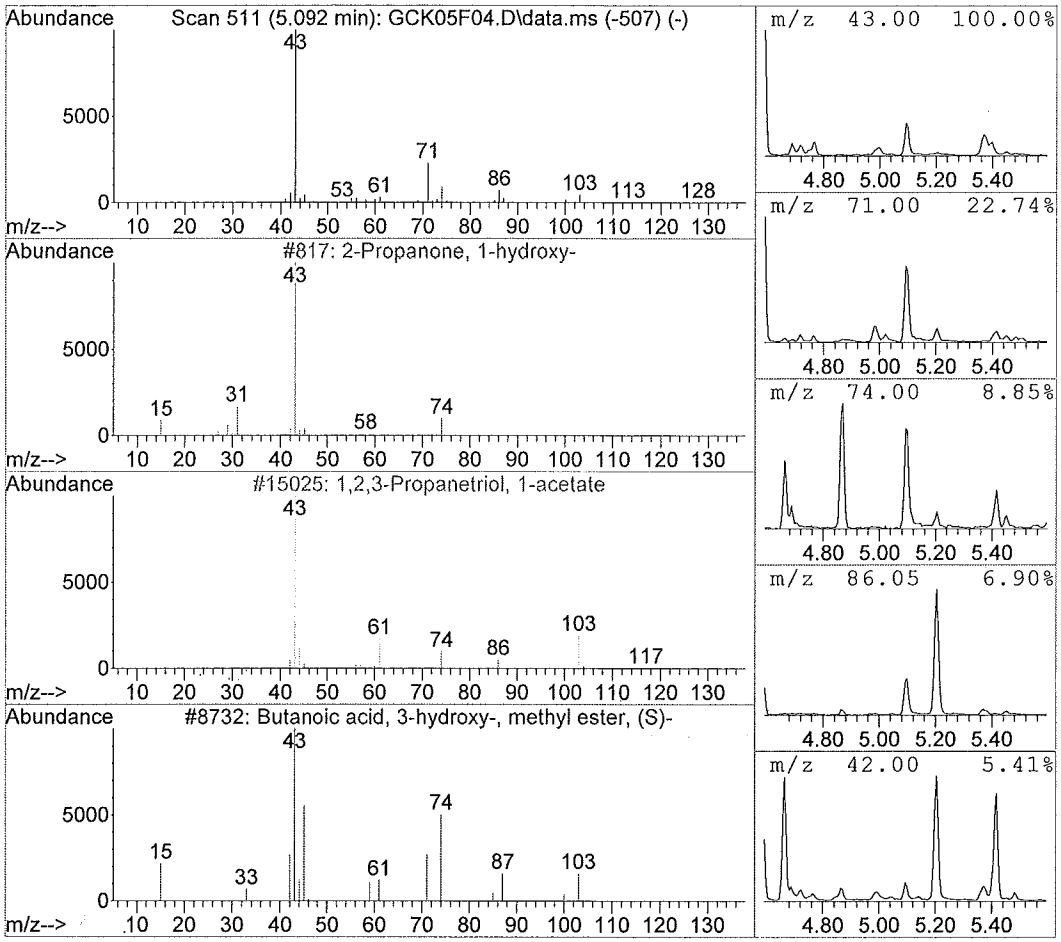
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.09	2.88 ug/ml	369575	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	17.00
3	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	16.00
4	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	10.00
5	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00



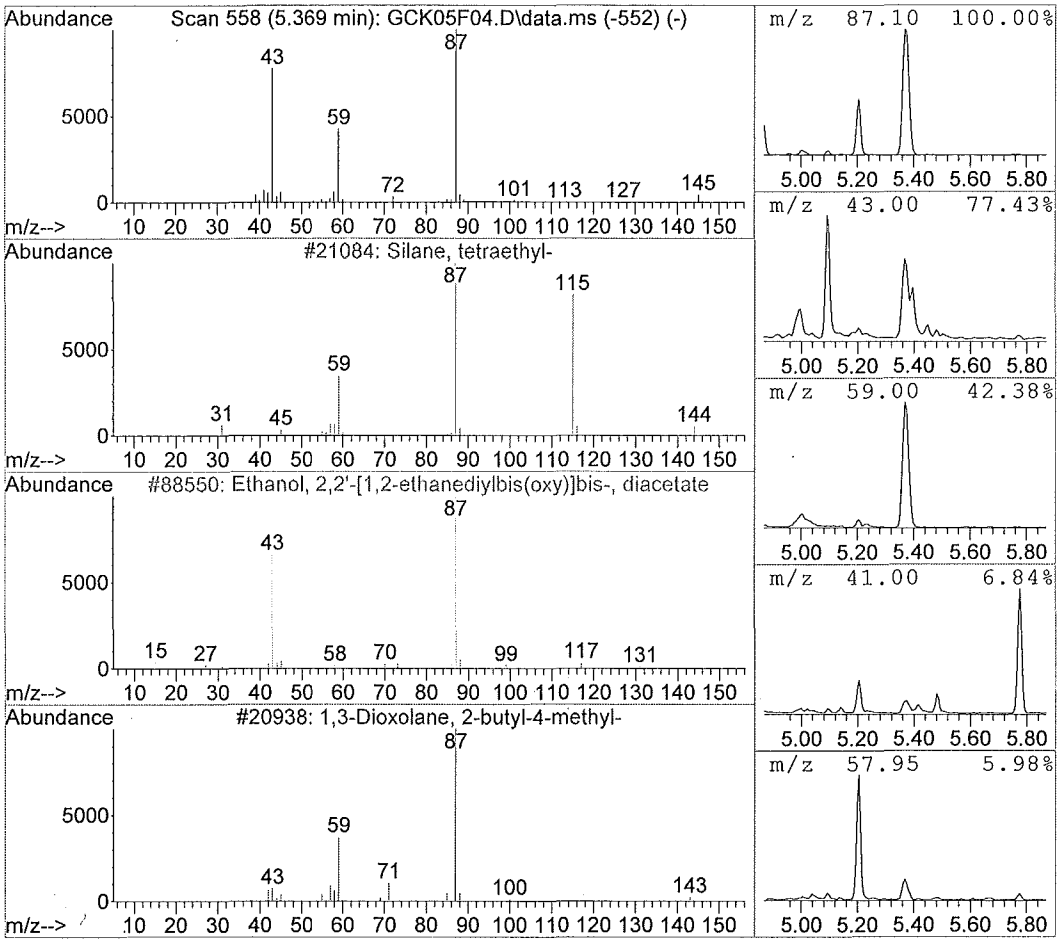
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.37	5.83 ug/ml	747853	1,4-Dichlorobenzene-d4	2565051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, tetraethyl-	21084	000631-36-7	50.00
2	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88550	000111-21-7	40.00
3	1,3-Dioxolane, 2-butyl-4-methyl-	20938	074094-60-3	39.00
4	Hydrazine, 1,1-diethyl-2-(1-methylp	21077	067398-40-7	39.00
5	1,3-Dioxolane, 2-ethyl-4-methyl-	8182	004359-46-0	39.00



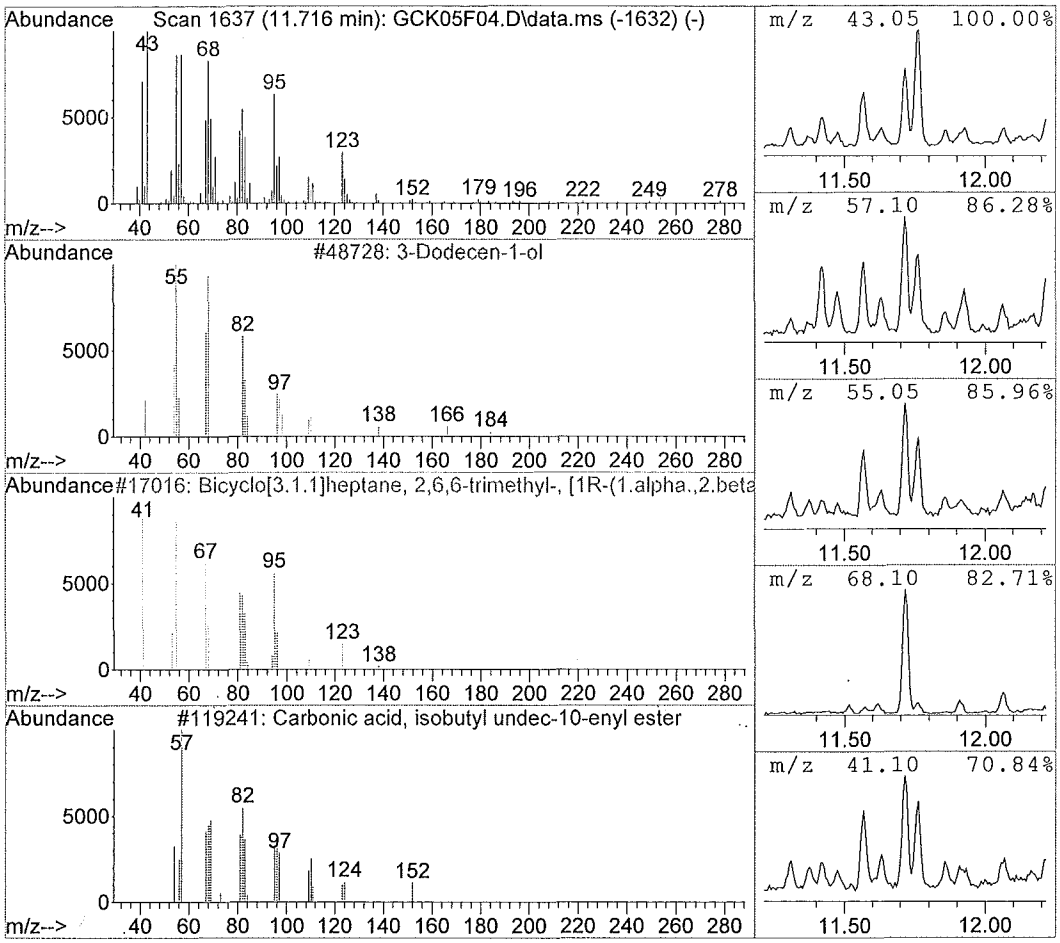
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.72	2.64 ug/ml	462923	Phenanthrene-d10	3503659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Dodecen-1-ol	48728	1000164-12-4	59.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	55.00
3	Carbonic acid, isobutyl undec-10-en	119241	1000314-60-8	53.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16976	000473-55-2	50.00
5	Z,Z-3,16-Octadecadien-1-ol acetate	151468	1000130-95-5	47.00



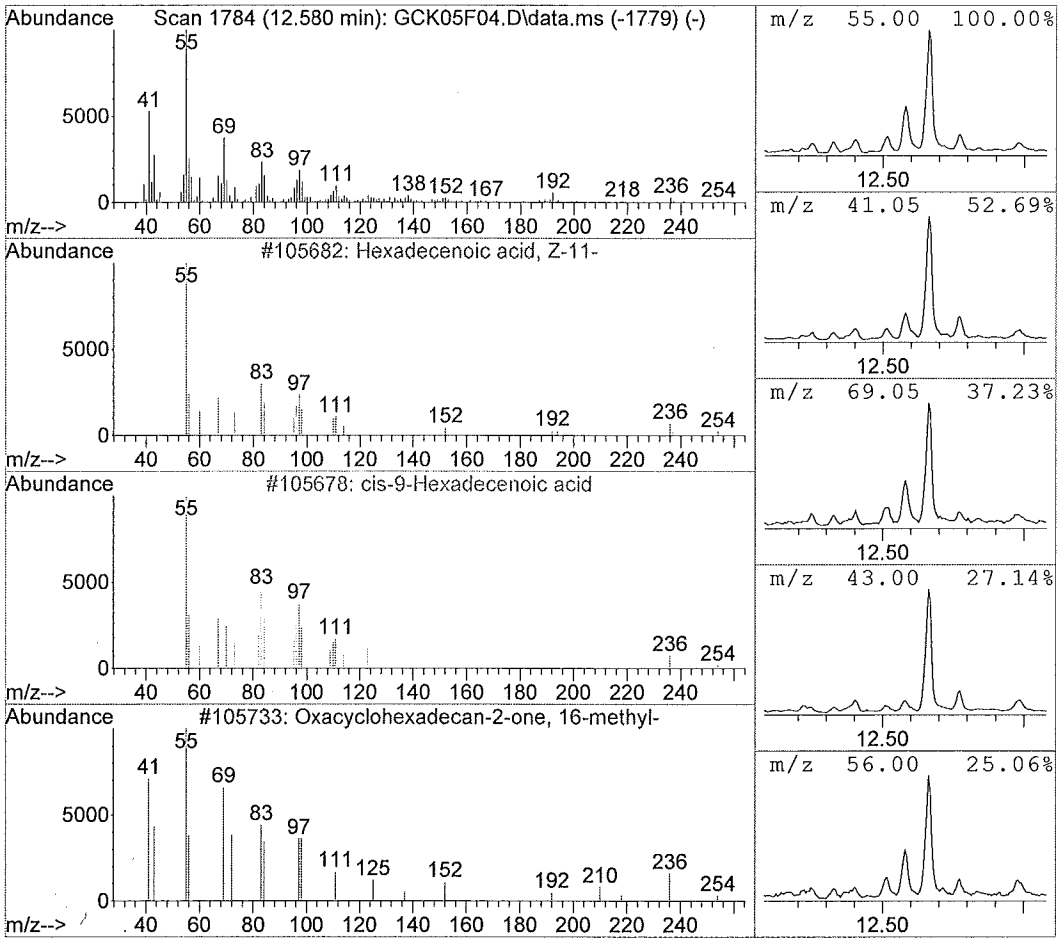
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.58	3.57 ug/ml	625457	Phenanthrene-d10	3503659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecenoic acid, Z-11-	105682	002416-20-8	94.00
2	cis-9-Hexadecenoic acid	105678	1000333-19-5	93.00
3	Oxacyclohexadecan-2-one, 16-methyl-	105733	004459-57-8	64.00
4	Myristoleic acid	82760	000544-64-9	64.00
5	Z-7-Tetradecenoic acid	82767	1000130-98-4	62.00



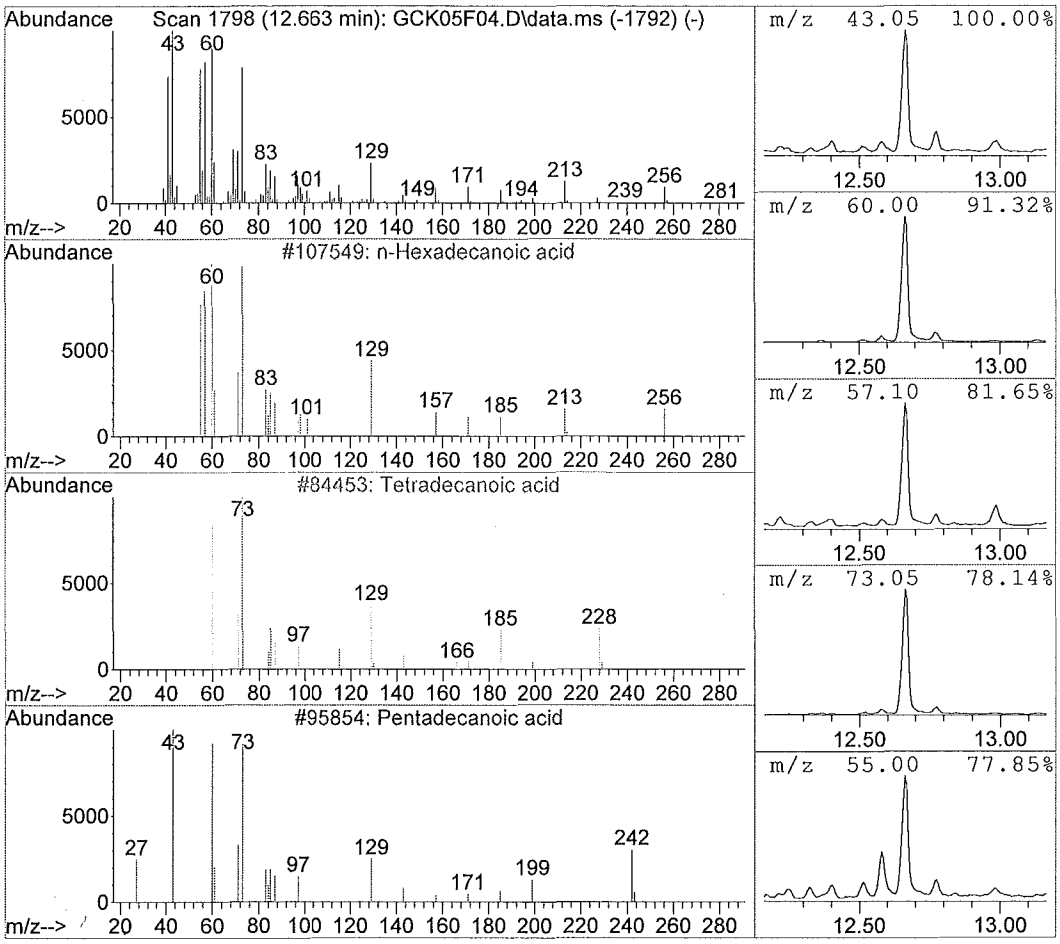
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	17.33 ug/ml	3035933	Phenanthrene-d10	3503659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tetradecanoic acid	84453	000544-63-8	78.00
3	Pentadecanoic acid	95854	001002-84-2	64.00
4	Undecanoic acid	50052	000112-37-8	59.00
5	Tridecanoic acid	72648	000638-53-9	50.00



Library Search Compound Report

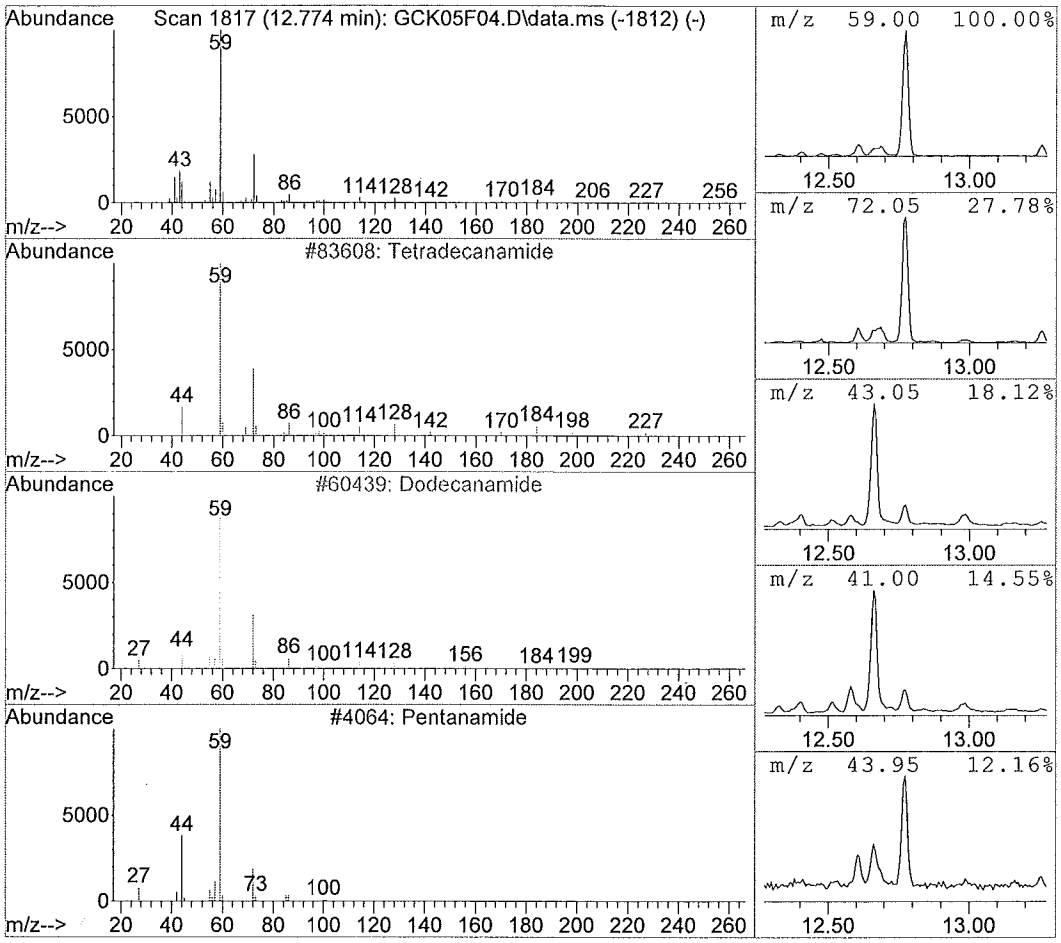
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.21 ug/ml	562323	Phenanthrene-d10	3503659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Pentanamide	4064	000626-97-1	78.00
4	Nonanamide	29478	001120-07-6	72.00
5	Hexanamide	7790	000628-02-4	59.00



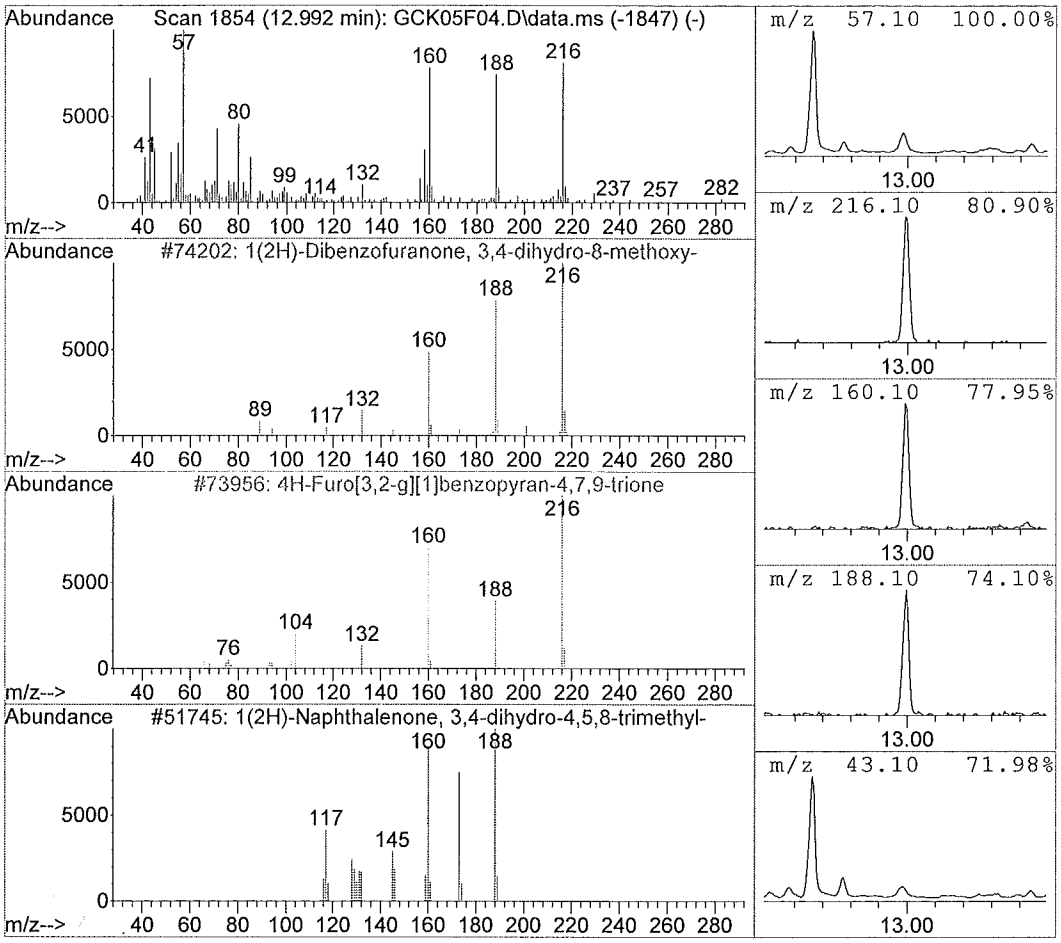
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.59 ug/ml	453834	Phenanthrene-d10	3503659

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	42.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	27.00
3	1(2H)-Naphthalenone, 3,4-dihydro-4,	51745	010468-61-8	25.00
4	4-Fluoro-6-methyl-2-phenylpyrimidin	51576	051421-92-2	25.00
5	Dibenzothiophene, 1,2,3,4-tetrahydr	51638	016587-33-0	22.00



Library Search Compound Report

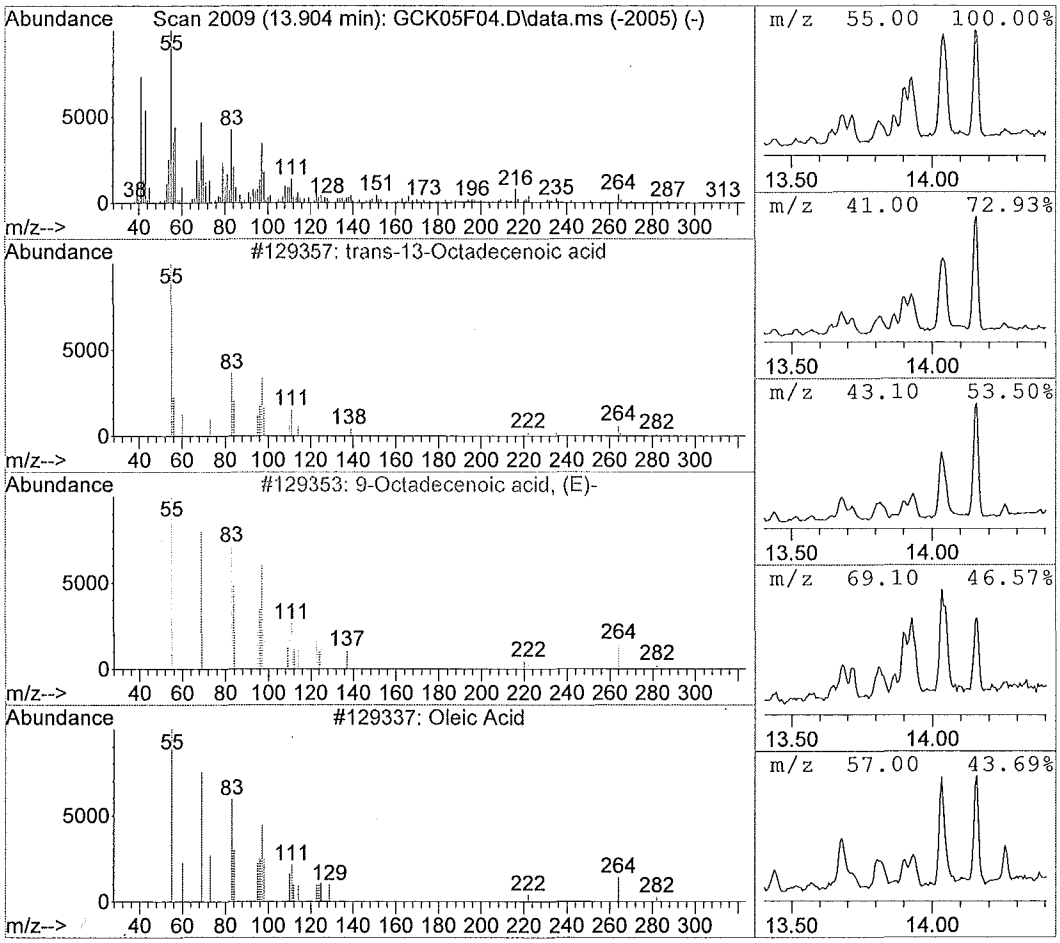
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.90	2.74 ug/ml	506463	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid	129357	000693-71-0	90.00
2	9-Octadecenoic acid, (E)-	129353	000112-79-8	80.00
3	Oleic Acid	129337	000112-80-1	66.00
4	5-Tetradecene, (E)-	58296	041446-66-6	62.00
5	1-Tetradecene	58272	001120-36-1	62.00



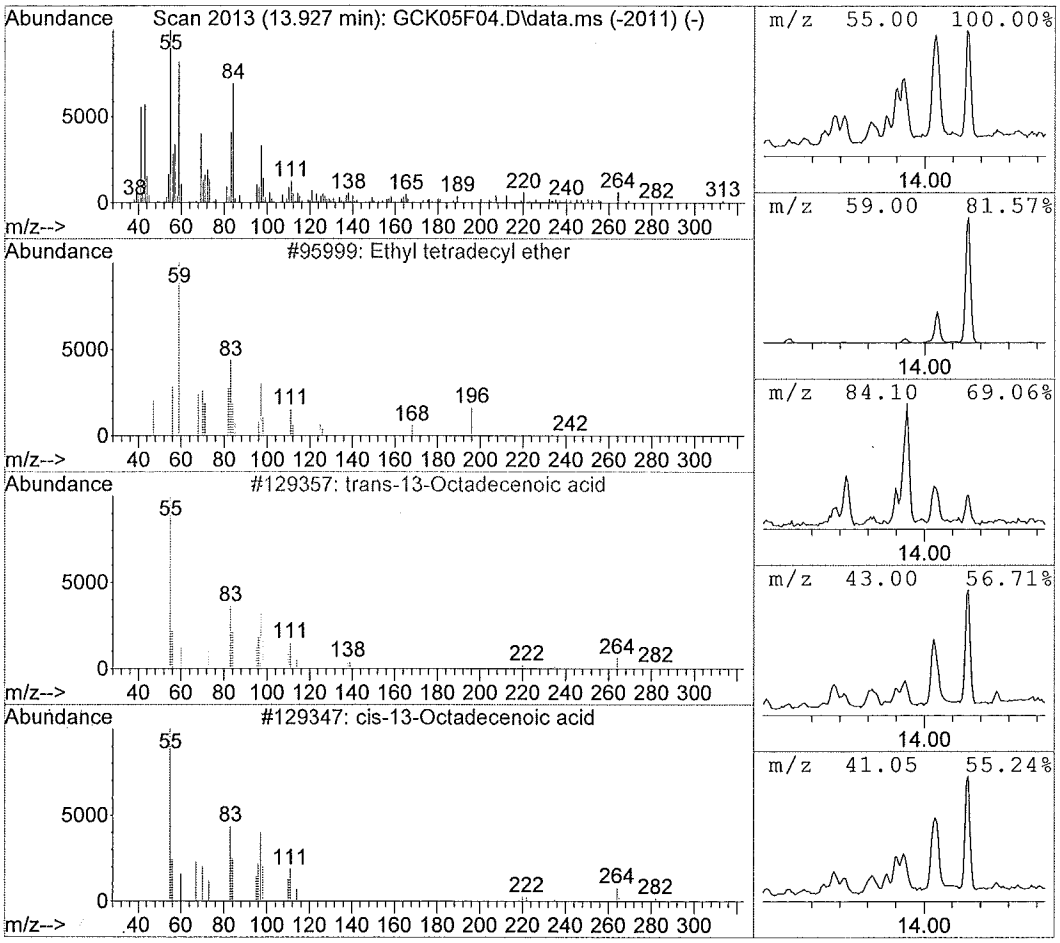
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.93	3.03 ug/ml	560799	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethyl tetradecyl ether	95999	1000130-99-7	59.00
2	trans-13-Octadecenoic acid	129357	000693-71-0	41.00
3	cis-13-Octadecenoic acid	129347	013126-39-1	38.00
4	9-Octadecene, (E)-	104187	007206-25-9	38.00
5	7-Heptadecene, 1-chloro-	121210	056554-78-0	30.00



Library Search Compound Report

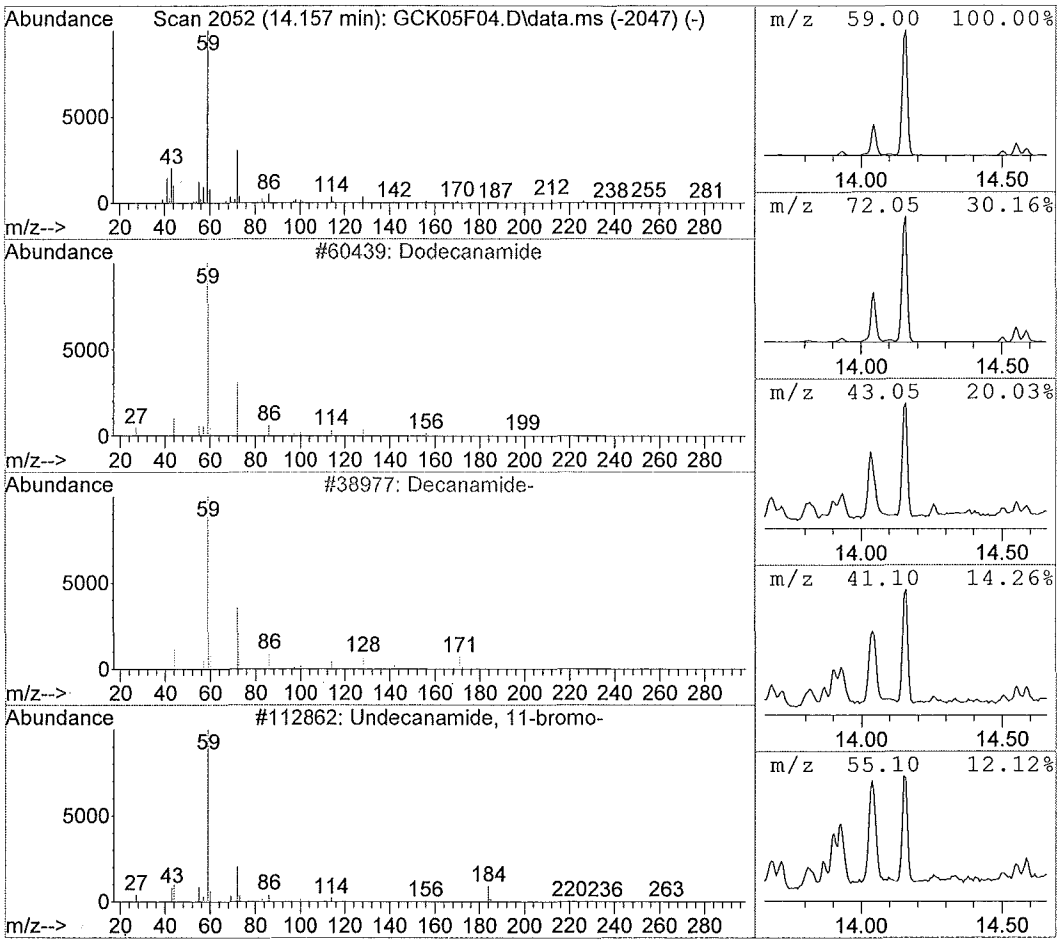
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	9.93 ug/ml	1835152	Chrysene-d12	3698019

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	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Tetradecanamide	83609	000638-58-4	78.00



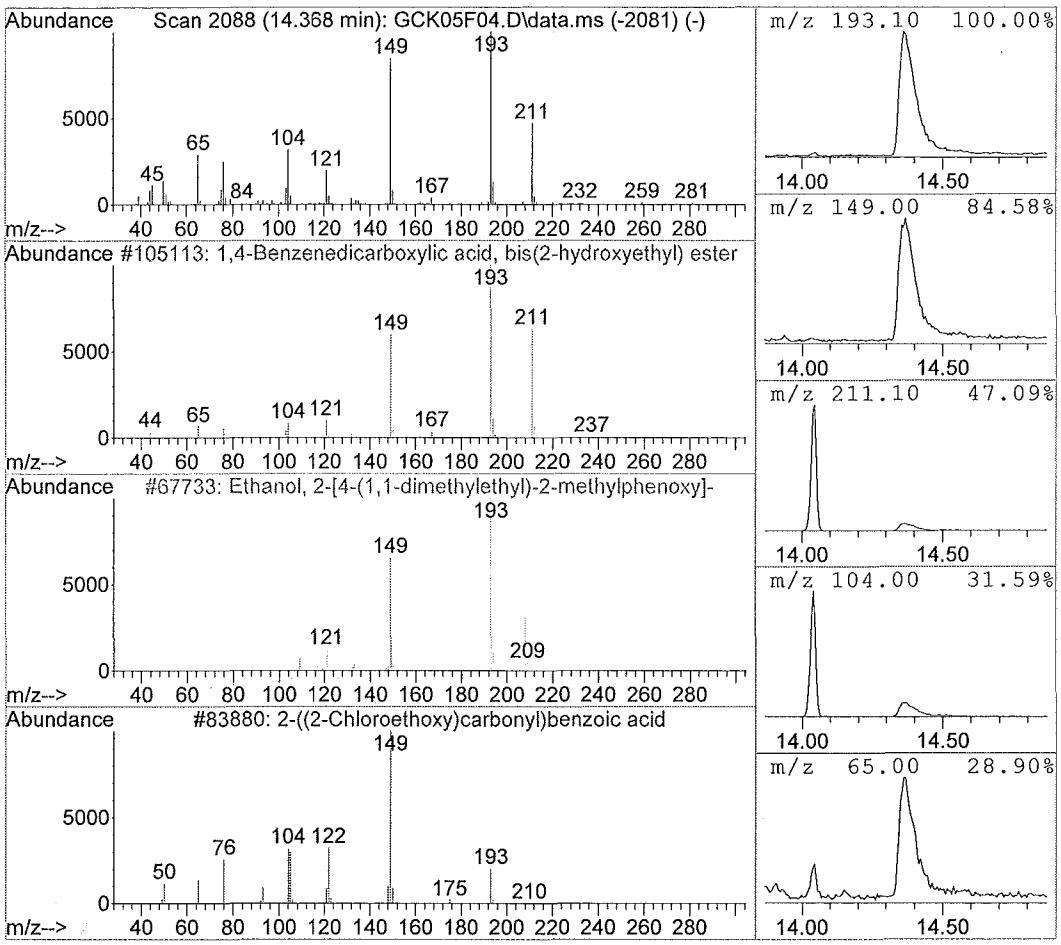
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.37	4.72 ug/ml	872374	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Benzenedicarboxylic acid, bis(2	105113	000959-26-2	78.00
2	Ethanol, 2-[4-(1,1-dimethylethyl)-2	67733	054934-87-1	38.00
3	2-((2-Chloroethoxy)carbonyl)benzoic	83880	1000373-53-5	37.00
4	4-Nitrocinnamic acid	55653	000619-89-6	35.00
5	2-((2-Methoxyethoxy)carbonyl)benzoi	80558	1000373-52-0	25.00



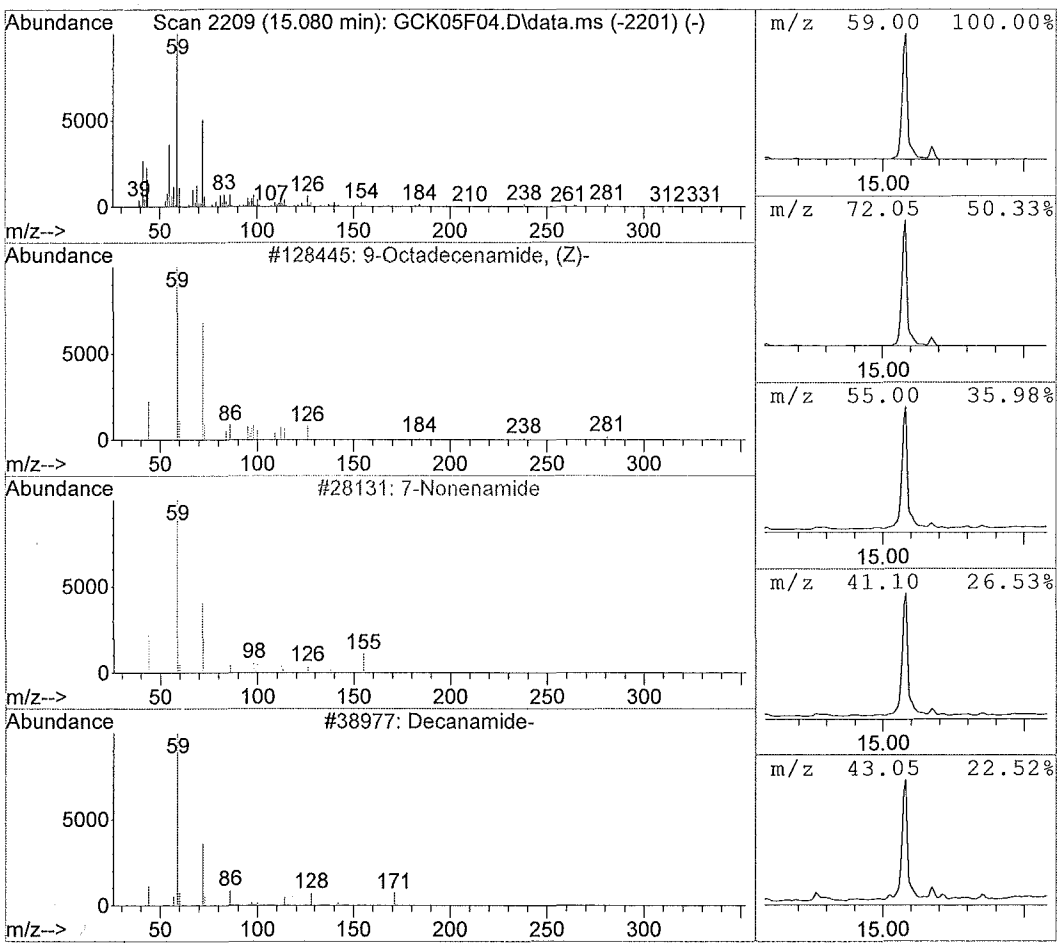
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	64.94 ug/ml	12006987	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	7-Nonenamide	28131	090949-53-4	56.00
3	Decanamide-	38977	002319-29-1	56.00
4	Tetradecanamide	83609	000638-58-4	56.00
5	Nonanamide	29478	001120-07-6	50.00



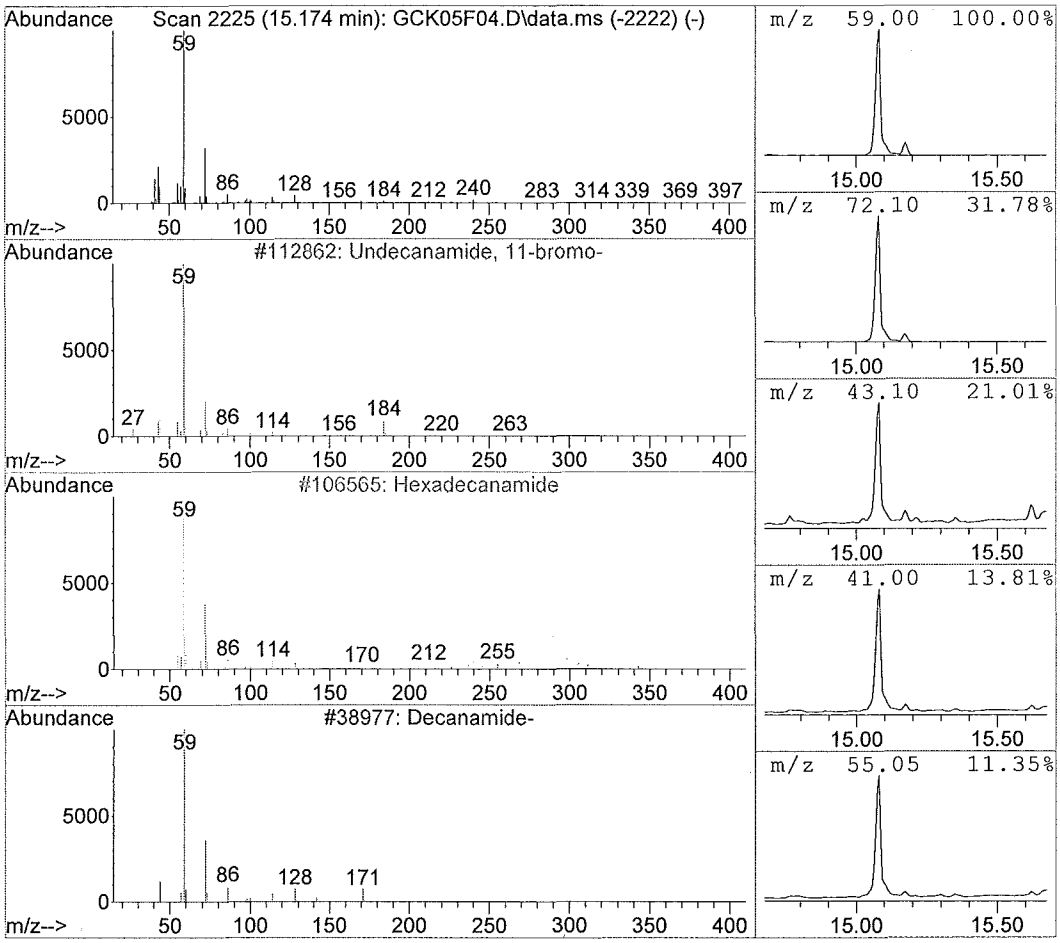
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.01 ug/ml	555722	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	87.00
2	Hexadecanamide	106565	000629-54-9	86.00
3	Decanamide-	38977	002319-29-1	83.00
4	Dodecanamide	60439	001120-16-7	83.00
5	Tetradecanamide	83609	000638-58-4	78.00



Library Search Compound Report

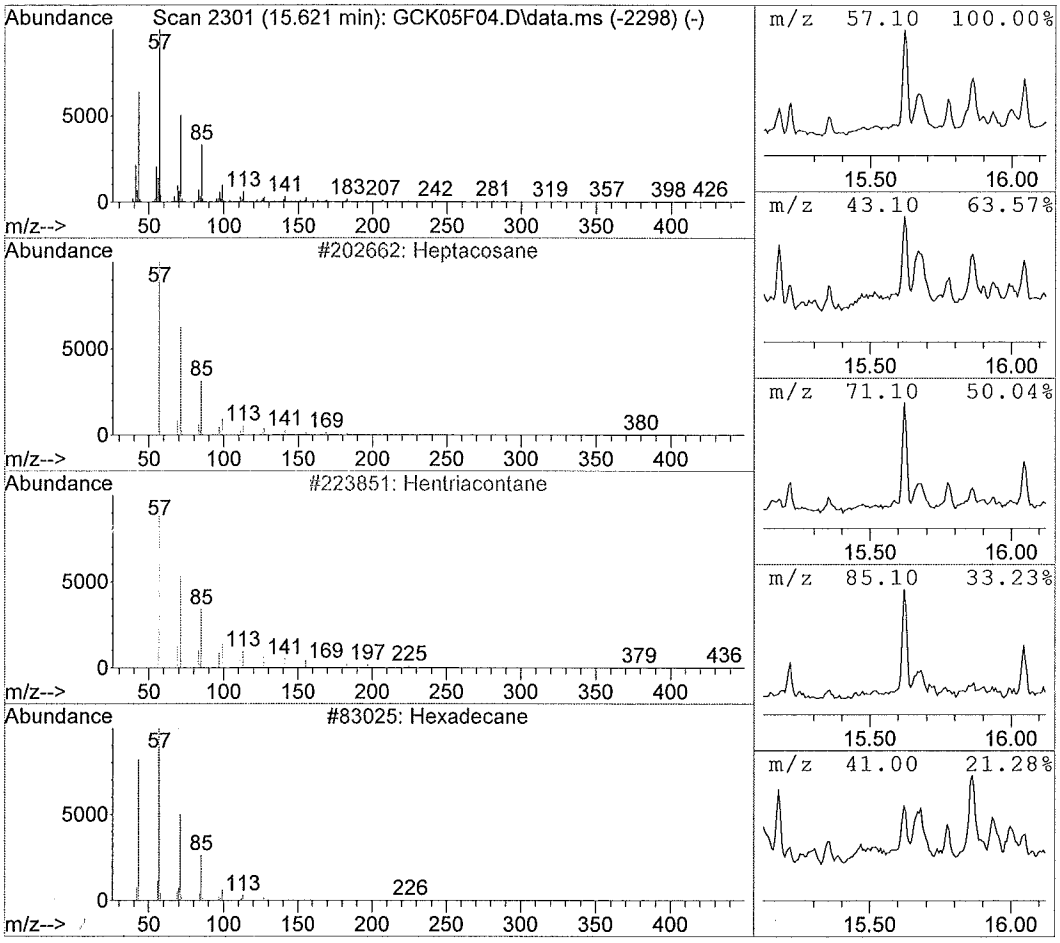
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.62	2.01 ug/ml	370849	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Hentriacontane	223851	000630-04-6	90.00
3	Hexadecane	83025	000544-76-3	87.00
4	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	86.00
5	Heptadecane, 9-octyl-	185535	007225-64-1	83.00

SCA



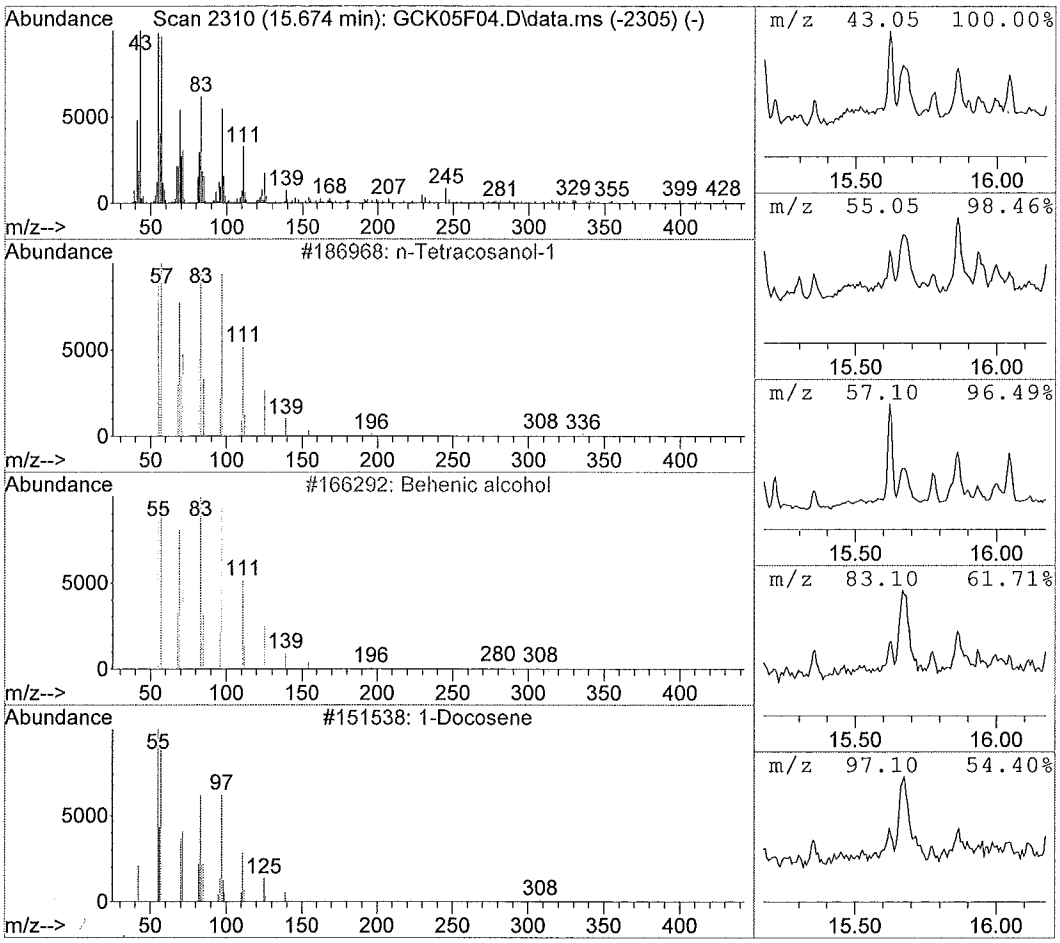
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.67	3.50 ug/ml	647703	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Tetracosanol-1	186968	000506-51-4	91.00
2	Behenic alcohol	166292	000661-19-8	91.00
3	1-Docosene	151538	001599-67-3	91.00
4	E-15-Heptadecenal	104157	1000130-97-9	91.00
5	17-Pentatriacontene	234187	006971-40-0	87.00



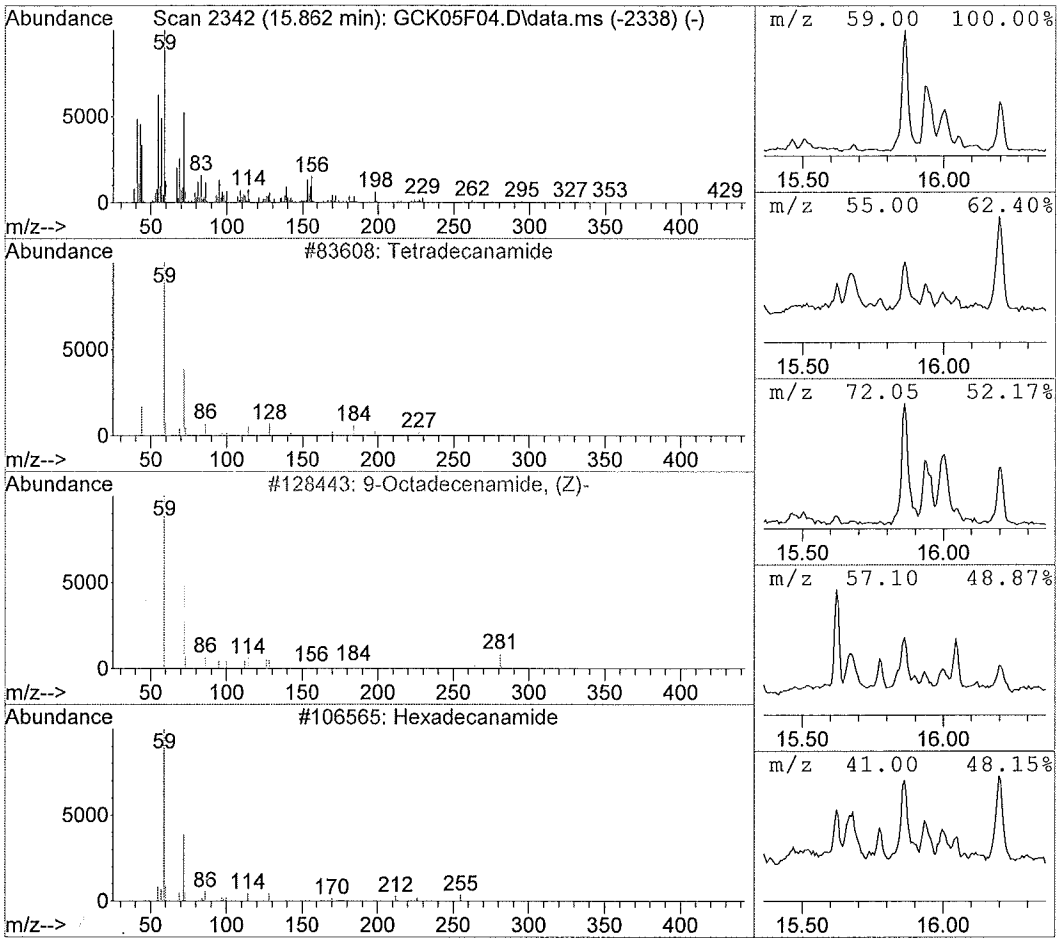
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.43 ug/ml	634607	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	58.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
3	Hexadecanamide	106565	000629-54-9	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00



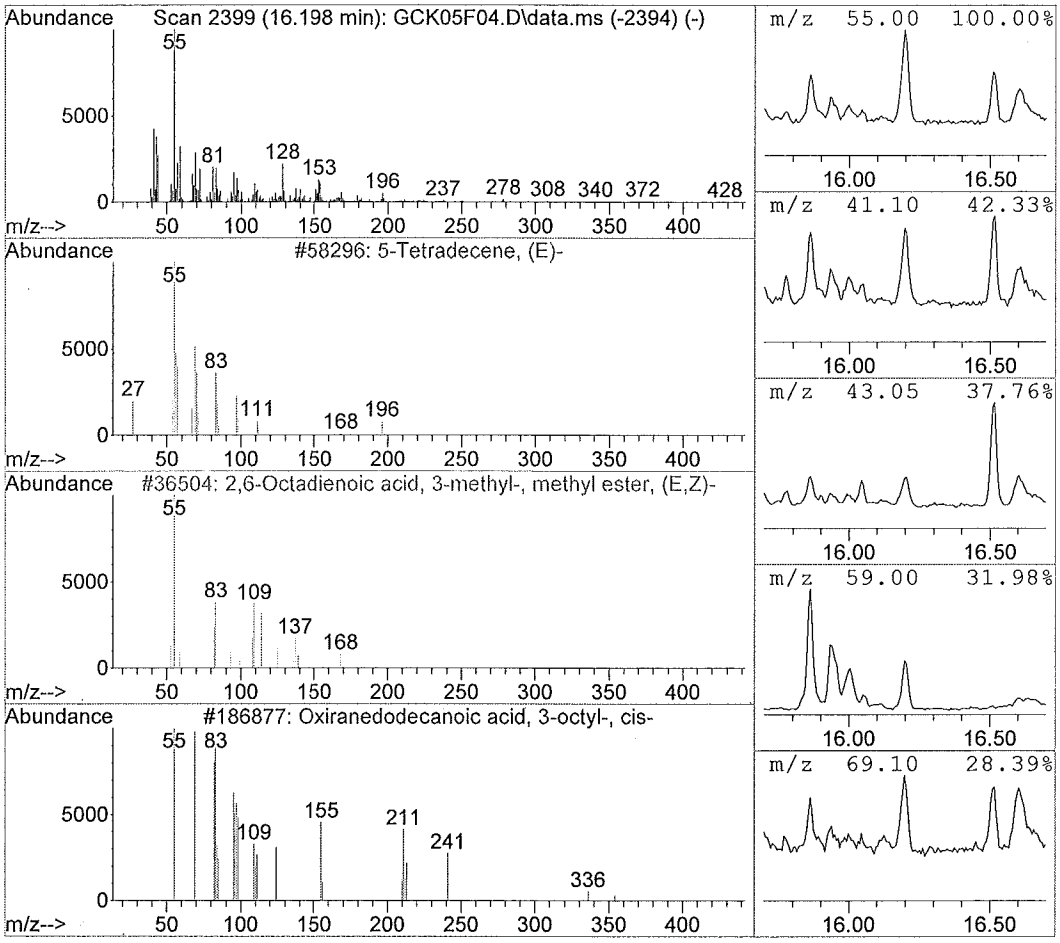
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.36 ug/ml	1175222	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Tetradecene, (E)-	58296	041446-66-6	15.00
2	2,6-Octadienoic acid, 3-methyl-, me	36504	055283-12-0	15.00
3	Oxiranedodecanoic acid, 3-octyl-, c	186877	003420-36-8	15.00
4	5-Tetradecene, (Z)-	58286	041446-62-2	14.00
5	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25369	015358-88-0	14.00



Library Search Compound Report

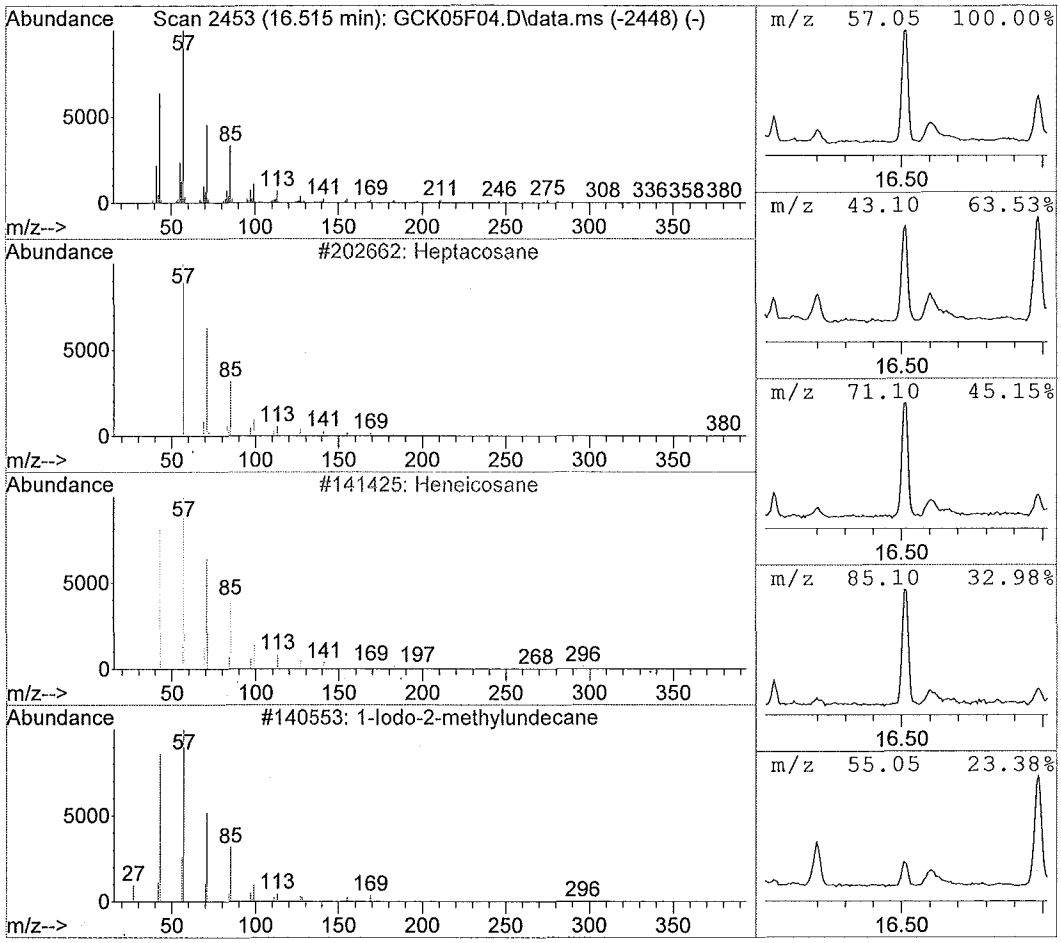
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.69 ug/ml	1236262	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Heneicosane	141425	000629-94-7	91.00
3	1-Iodo-2-methylundecane	140553	073105-67-6	91.00
4	Tetracosane	175557	000646-31-1	91.00
5	Pentadecane, 8-hexyl-	141433	013475-75-7	87.00

SCA



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Library Search Compound Report

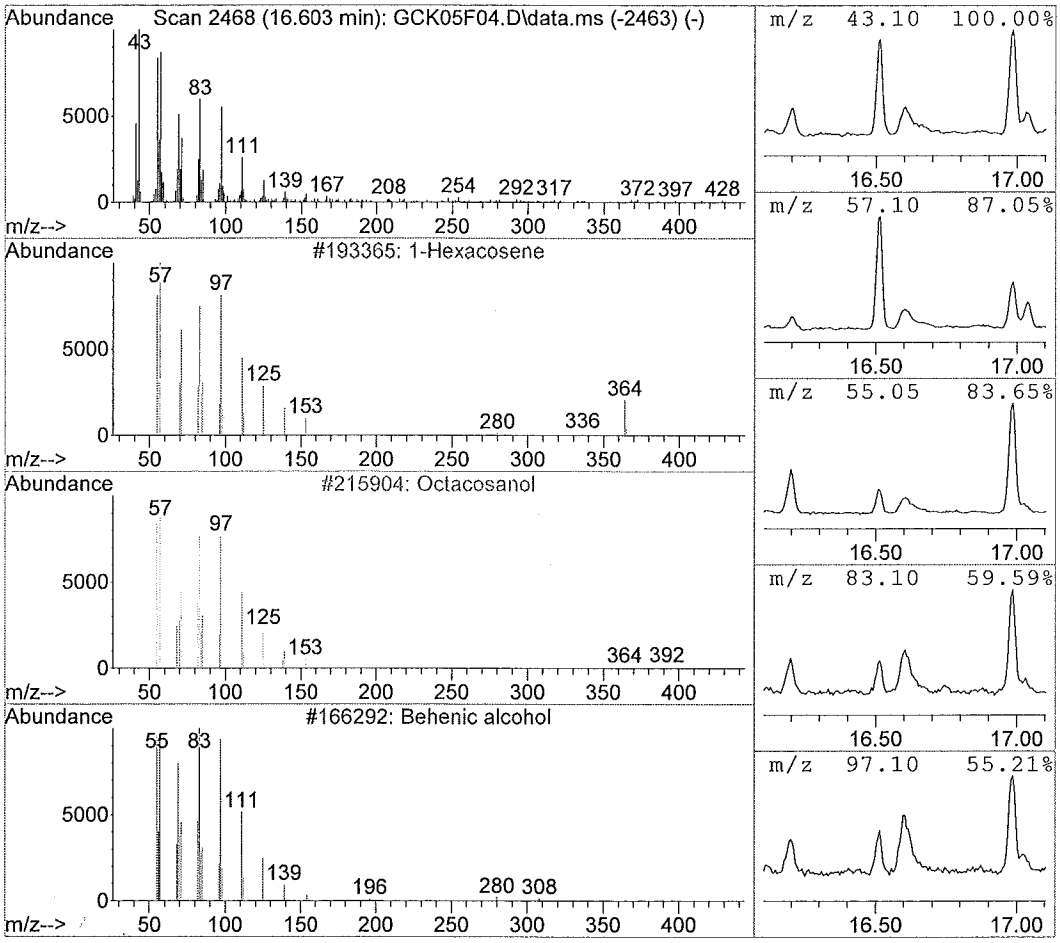
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.60	4.02 ug/ml	744173	Chrysene-d12	3698019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Hexacosene	193365	018835-33-1	96.00
2	Octacosanol	215904	000557-61-9	94.00
3	Behenic alcohol	166292	000661-19-8	91.00
4	1-Heptacosanol	210517	002004-39-9	91.00
5	1-Heneicosanol	155046	015594-90-8	91.00



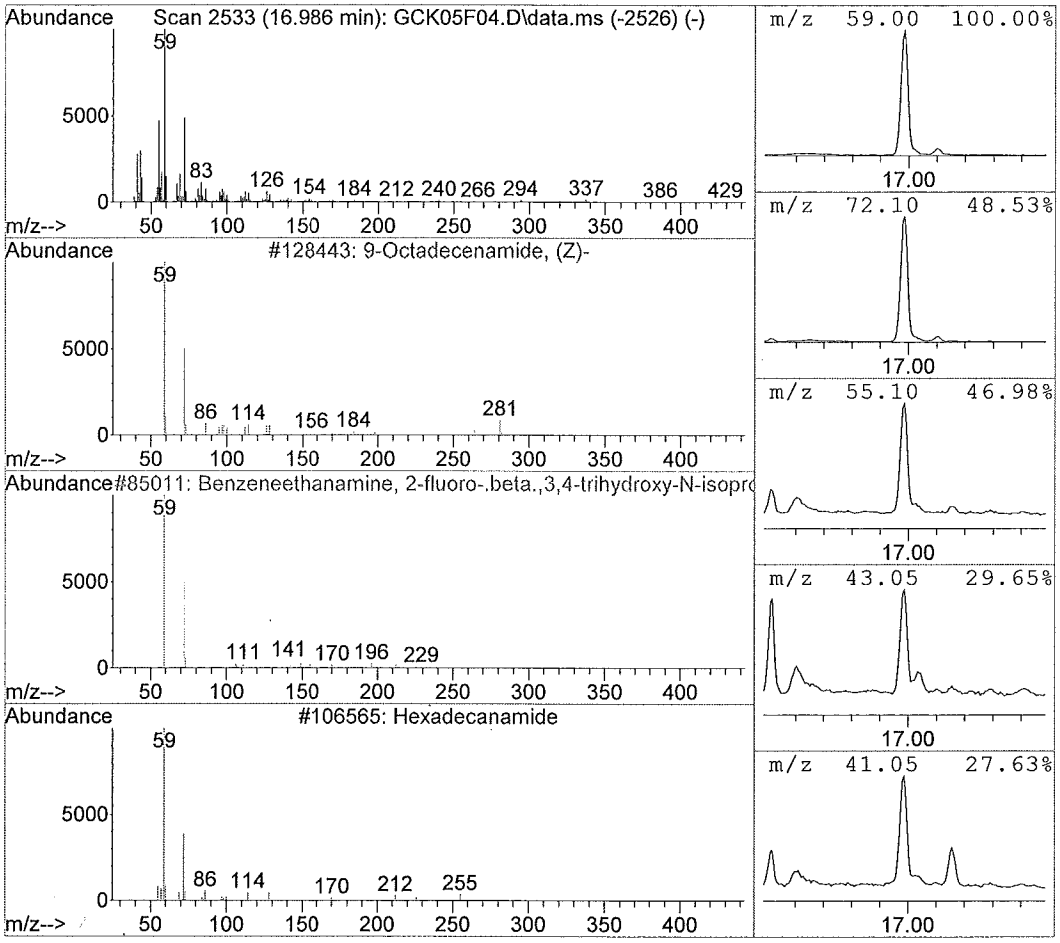
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	30.25 ug/ml	4076816	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	93.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
3	Hexadecanamide	106565	000629-54-9	64.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Dodecanamide	60439	001120-16-7	59.00



Library Search Compound Report

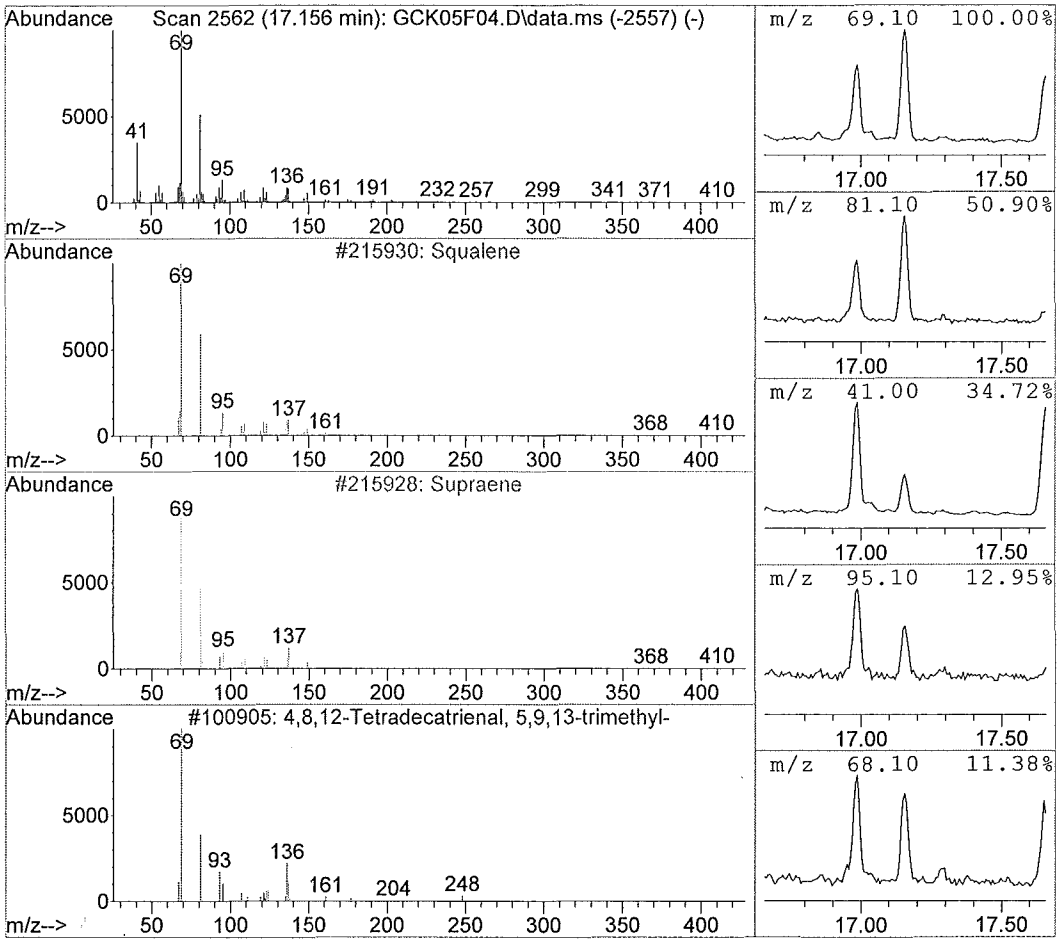
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	6.52 ug/ml	878735	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	99.00
2	Supraene	215928	007683-64-9	97.00
3	4,8,12-Tetradecatrienal, 5,9,13-tri	100905	066408-55-7	72.00
4	Propanoic acid, 2,2-dimethyl-, [(E,	149945	1000164-38-8	72.00
5	Trifluoroacetyl-lavandulol	101942	028673-24-7	50.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

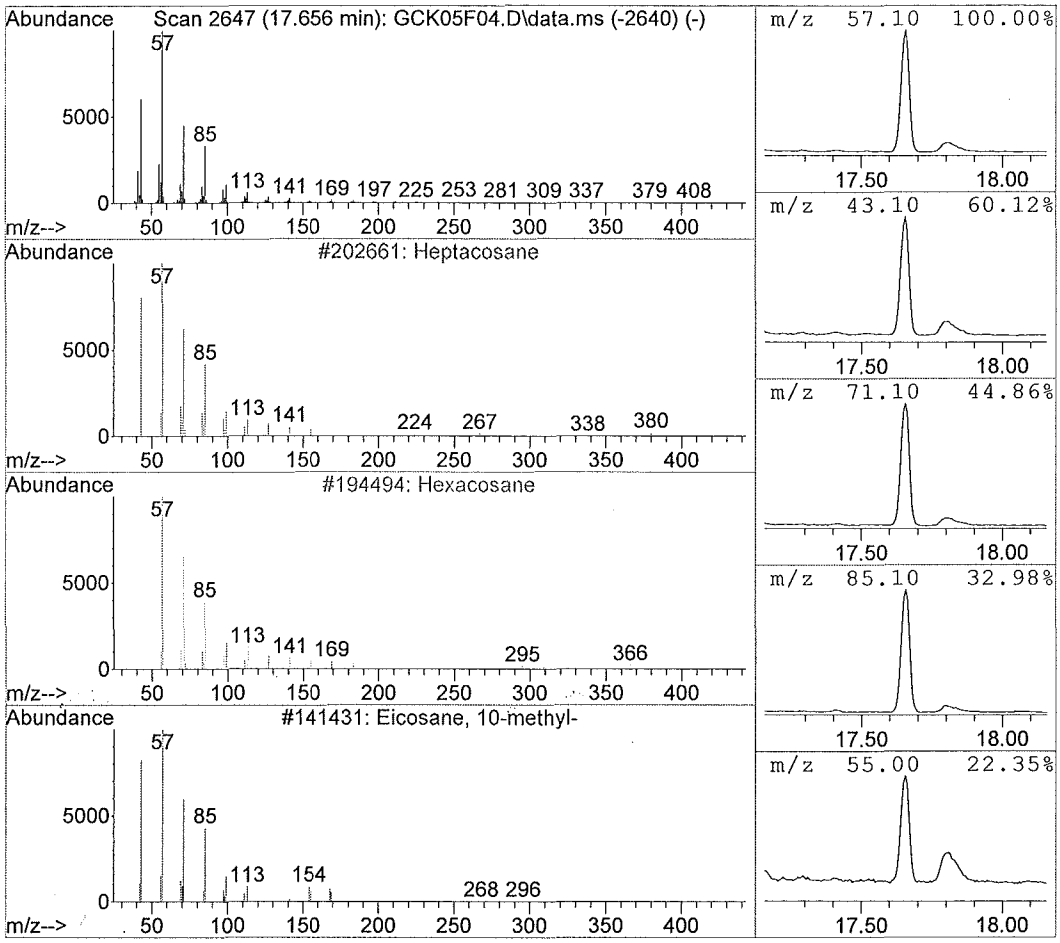
Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	41.35 ug/ml	5573489	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202661	000593-49-7	98.00
2	Hexacosane	194494	000630-01-3	95.00
3	Eicosane, 10-methyl-	141431	054833-23-7	93.00
4	Pentadecane, 8-hexyl-	141433	013475-75-7	91.00
5	Nonadecane, 9-methyl-	129499	013287-24-6	91.00

SLA



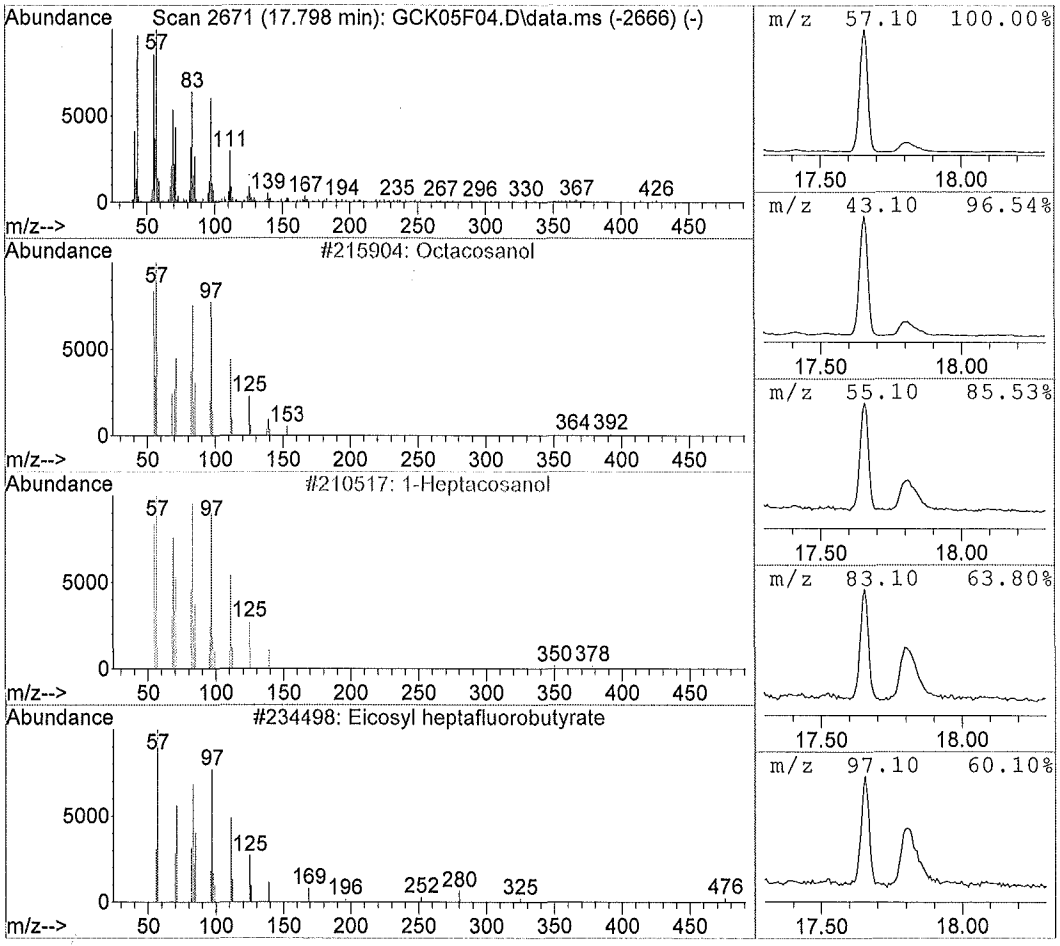
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	10.73 ug/ml	1445568	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosanol	215904	000557-61-9	91.00
2	1-Heptacosanol	210517	002004-39-9	91.00
3	Eicosyl heptafluorobutyrate	234498	1000351-83-5	91.00
4	Heneicosyl heptafluorobutyrate	236054	1000351-83-8	91.00
5	Cyclodocosane, ethyl-	174181	1000151-22-6	90.00



: 00384

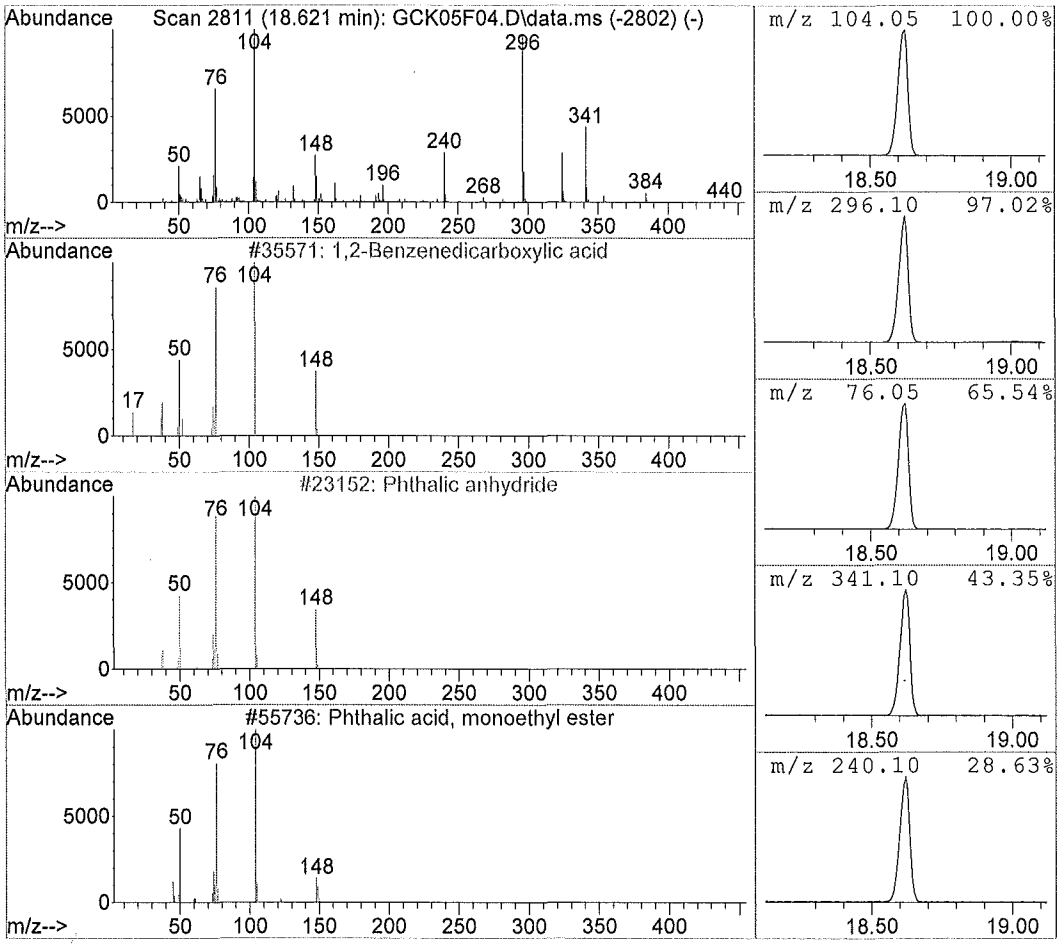
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	38.82 ug/ml	5232359	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	35571	000088-99-3	30.00
2	Phthalic anhydride	23152	000085-44-9	27.00
3	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
4	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	25.00
5	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

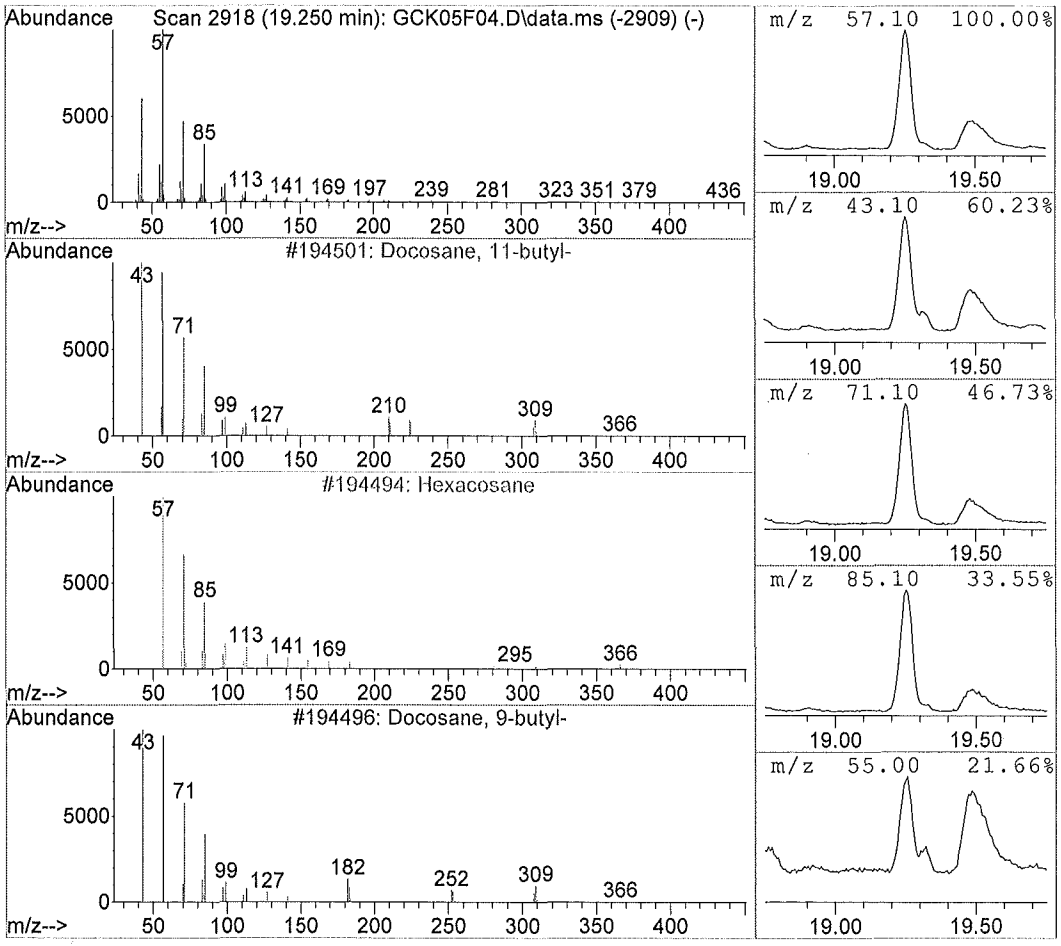
Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	29.02 ug/ml	3911867	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane, 11-butyl-	194501	013475-76-8	95.00
2	Hexacosane	194494	000630-01-3	93.00
3	Docosane, 9-butyl-	194496	055282-14-9	93.00
4	Heneicosane, 11-pentyl-	194505	014739-72-1	93.00
5	Heptacosane	202662	000593-49-7	91.00

B4



Library Search Compound Report

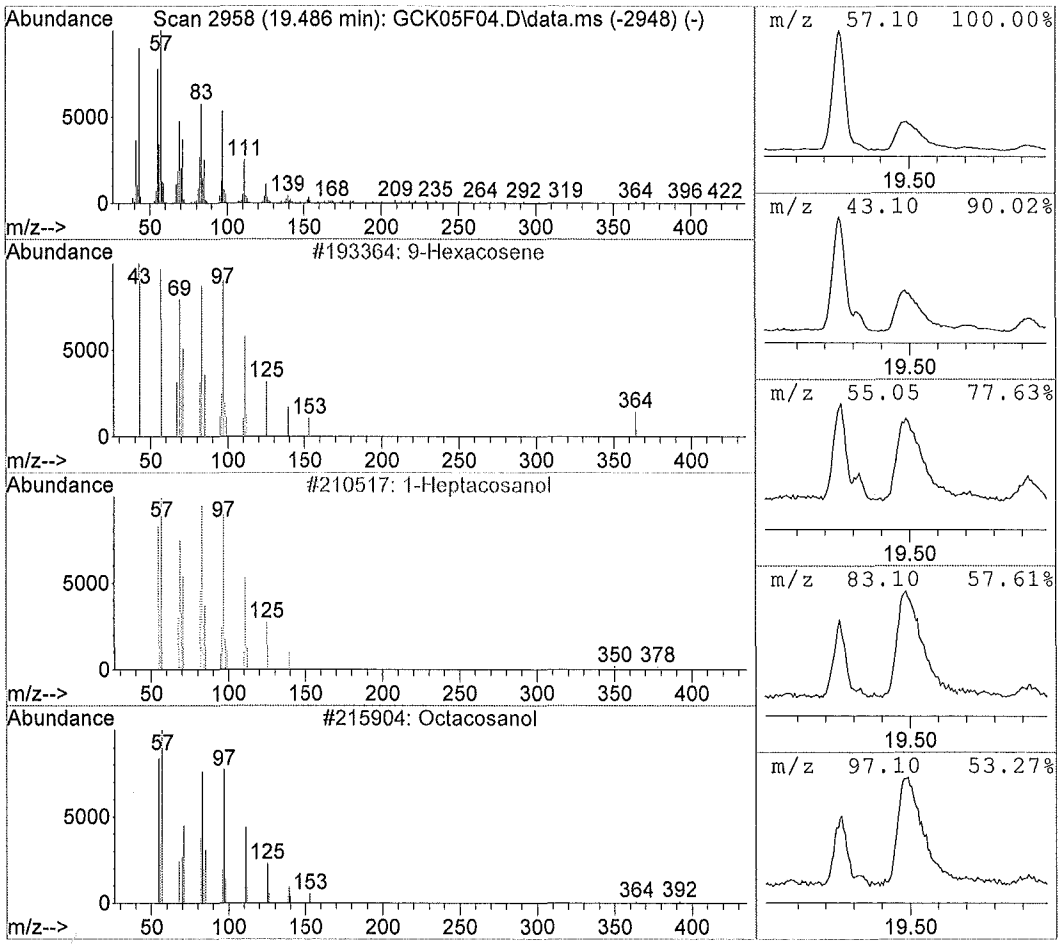
Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D
Acq On : 07/02/2015 13:03
Sample : 1513978004 F9KX0
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	28.11 ug/ml	3788554	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexacosene	193364	071502-22-2	93.00
2	1-Heptacosanol	210517	002004-39-9	91.00
3	Octacosanol	215904	000557-61-9	91.00
4	n-Tetracosanol-1	186968	000506-51-4	91.00
5	Heptafluorobutyric acid, hexadecyl	224102	006385-15-5	91.00



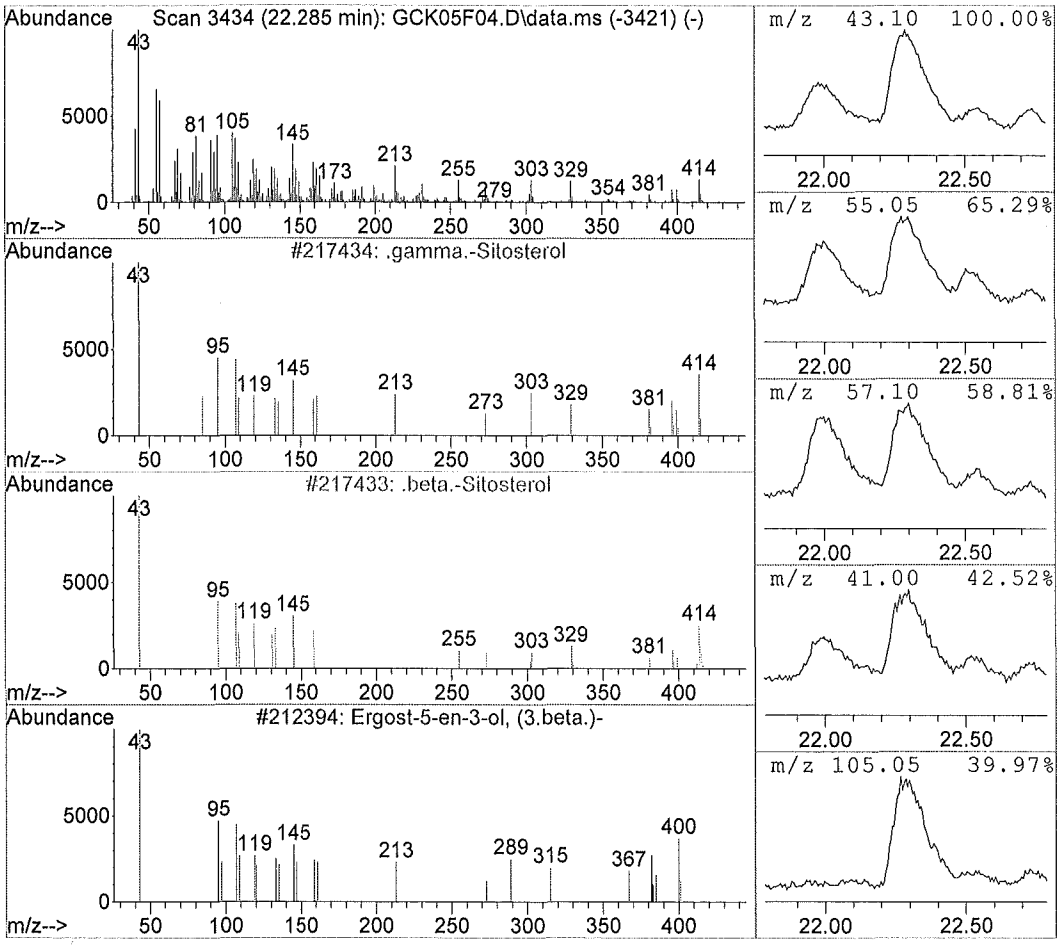
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.29	44.68 ug/ml	6021423	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.gamma.-Sitosterol	217434	000083-47-6	97.00
2	.beta.-Sitosterol	217433	000083-46-5	95.00
3	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	53.00
4	Campesterol	212386	000474-62-4	46.00
5	Stigmastan-3,5-diene	210541	1000214-16-4	38.00



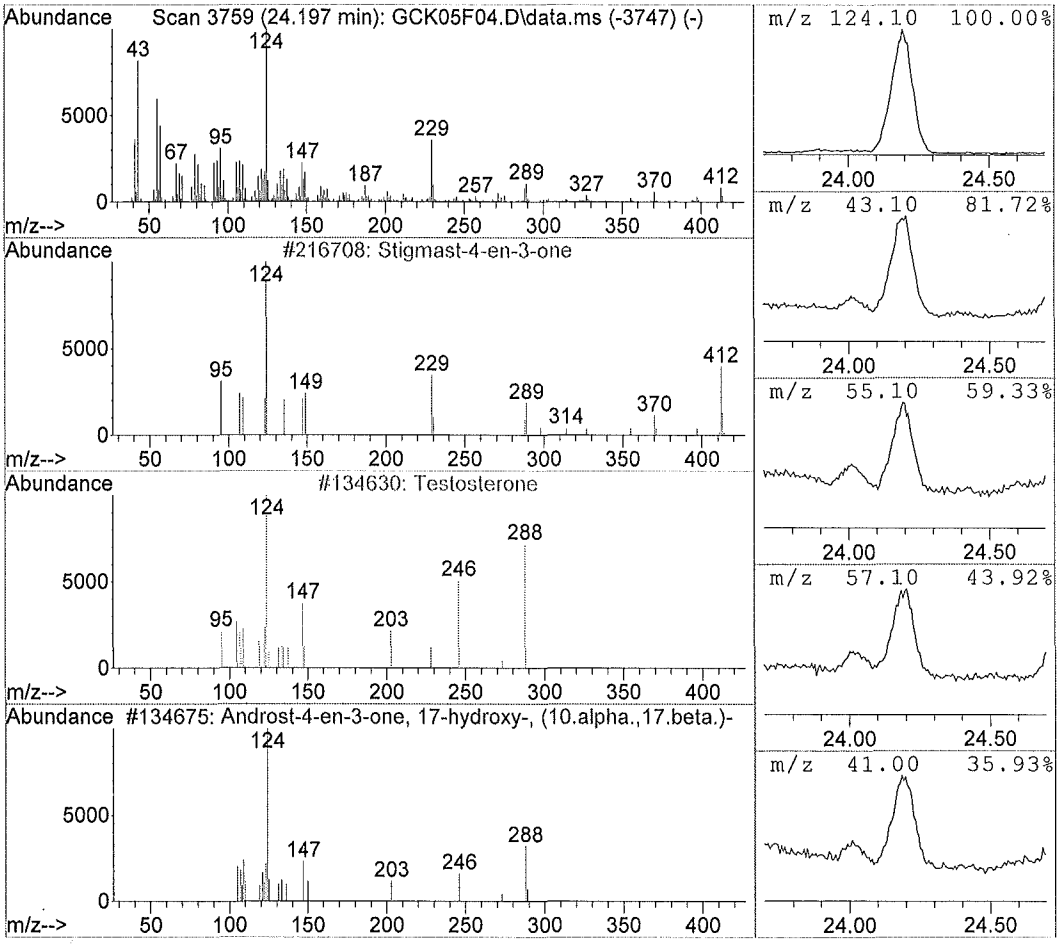
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK05F04.D Vial: 5
Acq On : 07/02/2015 13:03 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	26.30 ug/ml	3545055	Perylene-d12	2695562

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	95.00
2	Testosterone	134630	000058-22-0	76.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	55.00
4	Acetamide, 2-[2-(5-methylfuran-2-yl	135118	1000259-79-3	43.00
5	2-Chloropropionic acid, 4-methoxyph	72183	1000307-75-4	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK06F05

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.: F9KX1

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK06F05
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015
GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	25.	J
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	16.	J
129-00-0	Pyrene	31.	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	19.	J
218-01-9	Chrysene	29.	J
117-81-7	Bis(2-ethylhexyl)phthalate	18.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	24.	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	17.	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK06F05

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

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-	2.19	78.	JN
02		Unknown 2-Propanone, 1-chloro-	2.27	94.	J
03		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.31	80.	J
04		Unknown dl-Glyceraldehyde dimer	2.33	340	J
05		Unknown 2H-Pyran, tetrahydro-2-methyl-	2.80	79.	J
06		Unknown 4-Chloro-2-butanone	3.31	110	J
07		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6100	J
08		Unknown 1H-Pyrrole-2,5-dione	4.28	130	J
09		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	150	J
10		Unknown Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-,	5.37	150	J
11	4795-86-2	Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, [1R-(1.	11.72	76.	JN
12	2416-20-8	Hexadecenoic acid, Z-11-	12.58	77.	JN
13	57-10-3	n-Hexadecanoic acid	12.66	180	JN
14	1120-16-7	Dodecanamide	12.77	100	JN
15	1120-16-7	Dodecanamide	14.15	360	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.07	1900	JN
17		Unknown Hexadecanamide	15.17	120	J
18		Unknown 9-Octadecenamide, (Z)-	15.86	170	J
19	172995-07-2	cis-9,10-Epoxyoctadecanamide	15.93	92.	JN
20		Unknown Tridecanedial	16.20	230	J
21	301-02-0	9-Octadecenamide, (Z)-	16.98	1400	JN
22		Unknown Hexadeca-2,6,10,14-tetraen-1-ol, 3,7,11,	17.16	89.	J
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	790	J

[2] EPA-designated Registry Number.

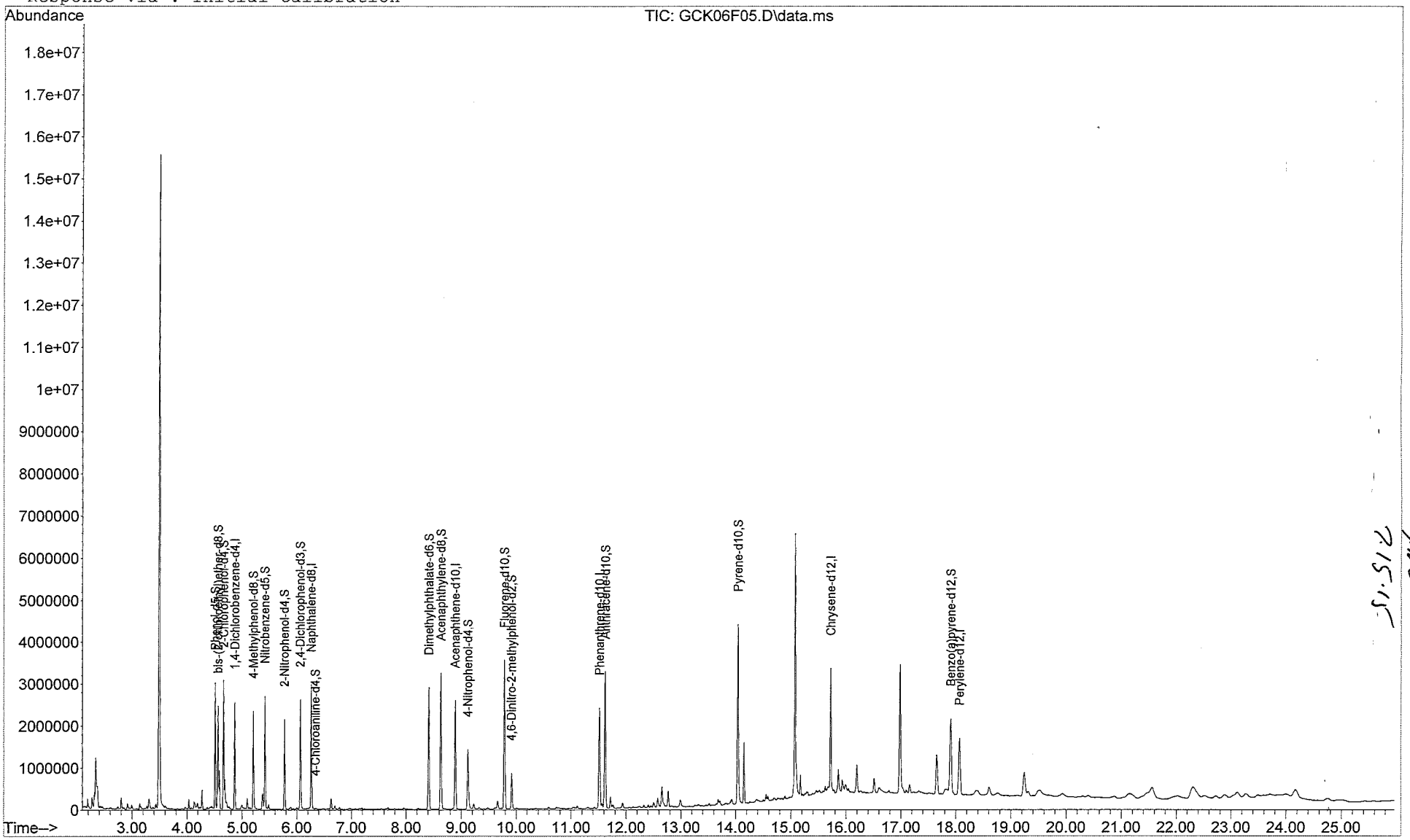
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:58:44 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration



7.15.15

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:58:44 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	381652	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1416548	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	804798	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1336074	20.00 ug/ml
73) Chrysene-d12	15.72	240	1249332	20.00 ug/ml
81) Perylene-d12	18.07	264	991931	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	871709	26.247ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	586025	22.642ug/mL
7) 2-Chlorophenol-d4	4.66	132	697518	24.874ug/ml
13) 4-Methylphenol-d8	5.20	113	456514	20.550ug/mL
17) Nitrobenzene-d5	5.42	128	315147	25.325ug/ml
21) 2-Nitrophenol-d4	5.77	143	343858	26.142ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	552686	26.985ug/mL
28) 4-Chloroaniline-d4	6.35	131	16923	0.757ug/mL
42) Dimethylphthalate-d6	8.42	166	1543318	30.581ug/mL
45) Acenaphthylene-d8	8.63	160	1974873	28.796ug/mL
50) 4-Nitrophenol-d4	9.12	143	303343	29.464ug/mL
57) Fluorene-d10	9.79	176	1320740	30.645ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	145393	15.332ug/mL
69) Anthracene-d10	11.62	188	2037738	28.760ug/mL
75) Pyrene-d10	14.04	212	1949806	31.273ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1332588	28.036ug/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:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:58:44 2015 Results File: GSOM01D6.RES

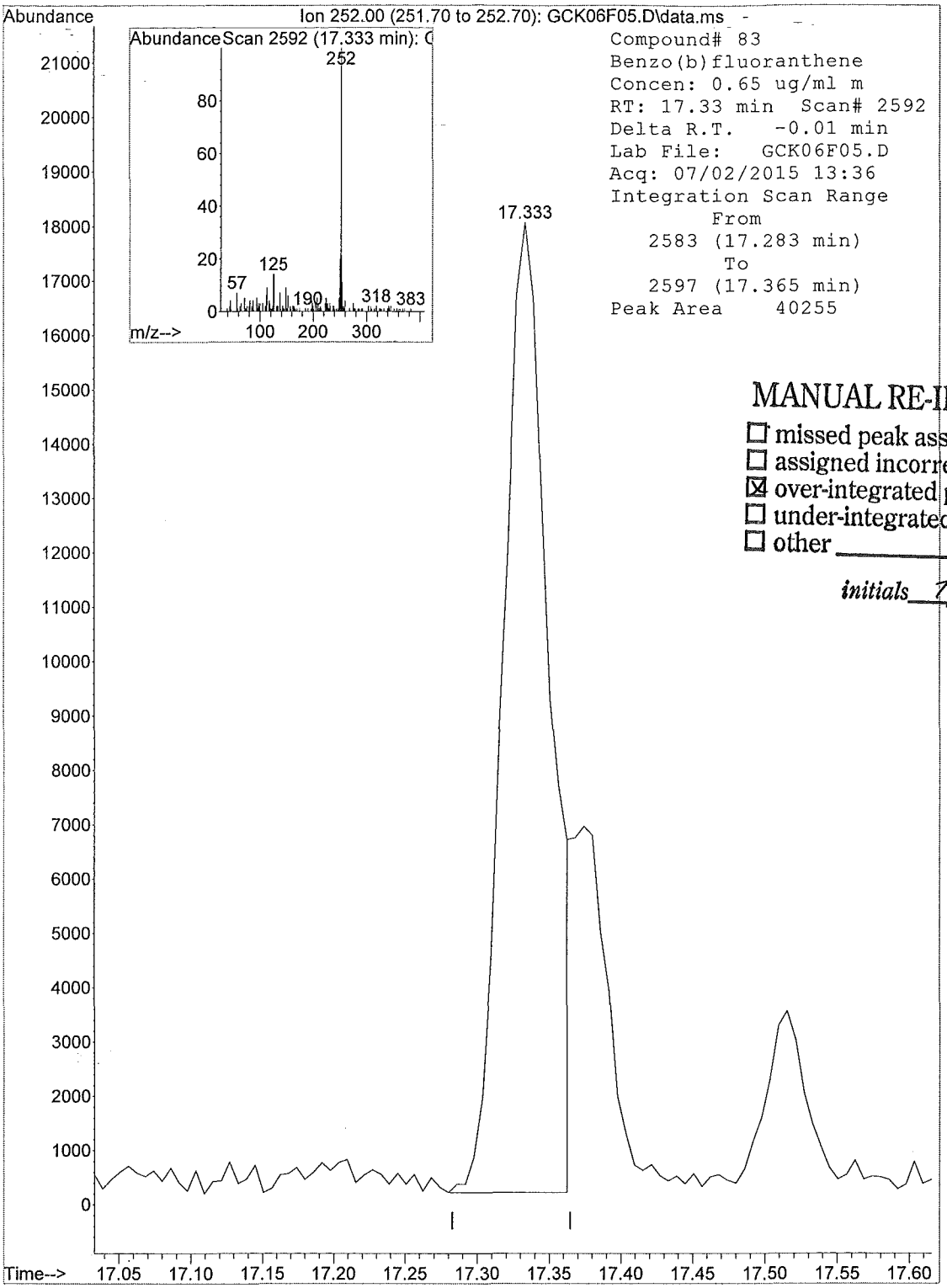
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

	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	47736	0.670ug/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	33813	0.431ug/ml	97
74)	Pyrene	14.06	202	66789	0.840ug/ml	30
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	38638	0.510ug/ml	74
79)	Chrysene	15.75	228	53166	0.777ug/ml	95
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	30605	0.495ug/ml	96
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.33	252	40255	0.648ug/ml m 7gm	96 7.15.15
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.96	252	25843	0.442ug/ml	82
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)

: 88315

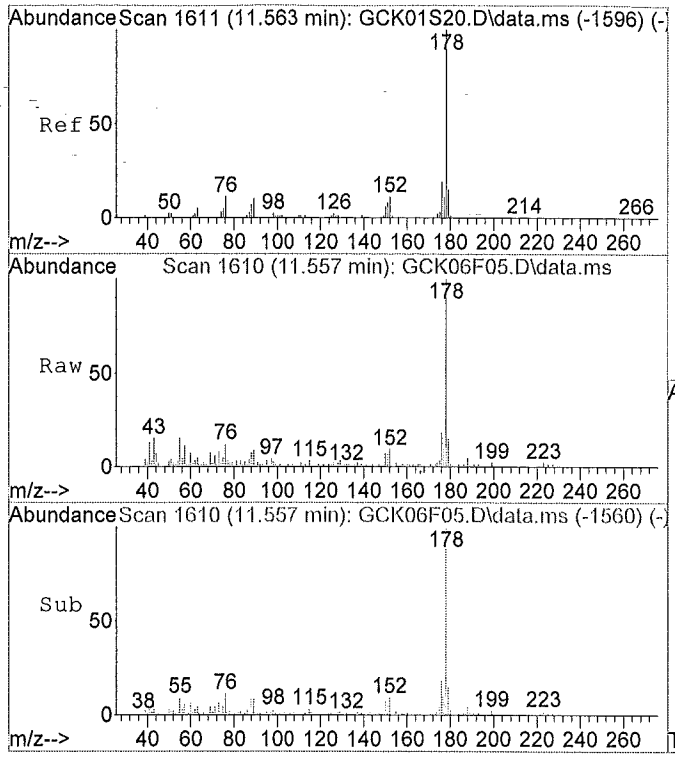
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

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

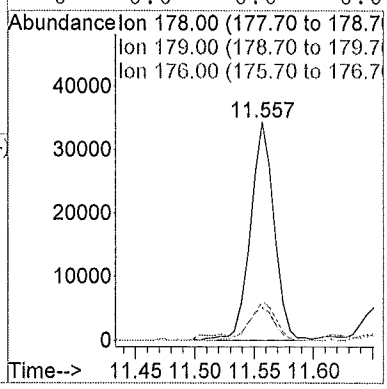
initials 7gm *date* 7.15.15

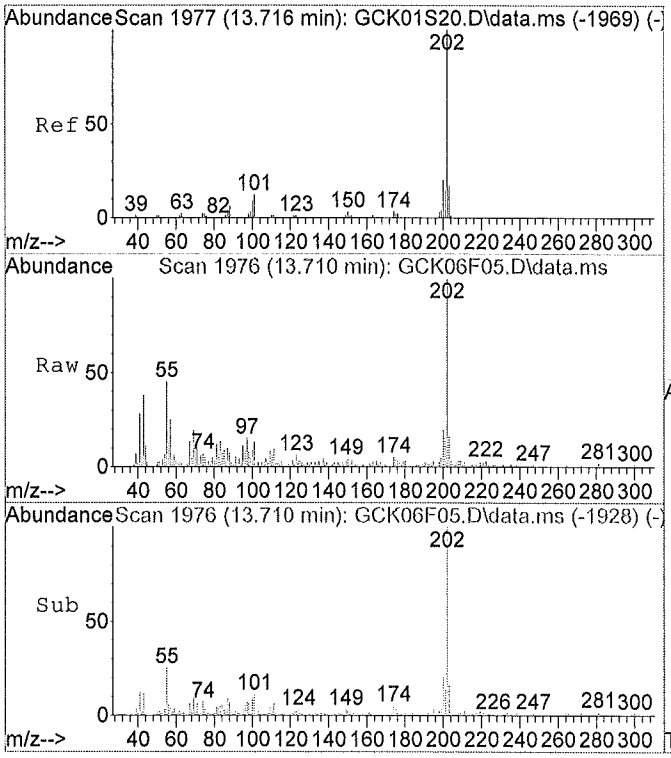


#67
Phenanthrene
Concen: 0.67 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:178 Resp: 47736

Ion	Ratio	Lower	Upper
178	100		
179	15.7	10.6	19.8
176	19.1	13.2	24.4
0	0.0	0.0	0.0

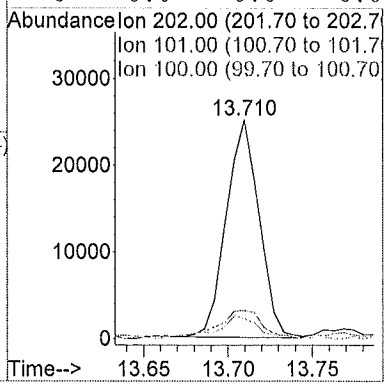


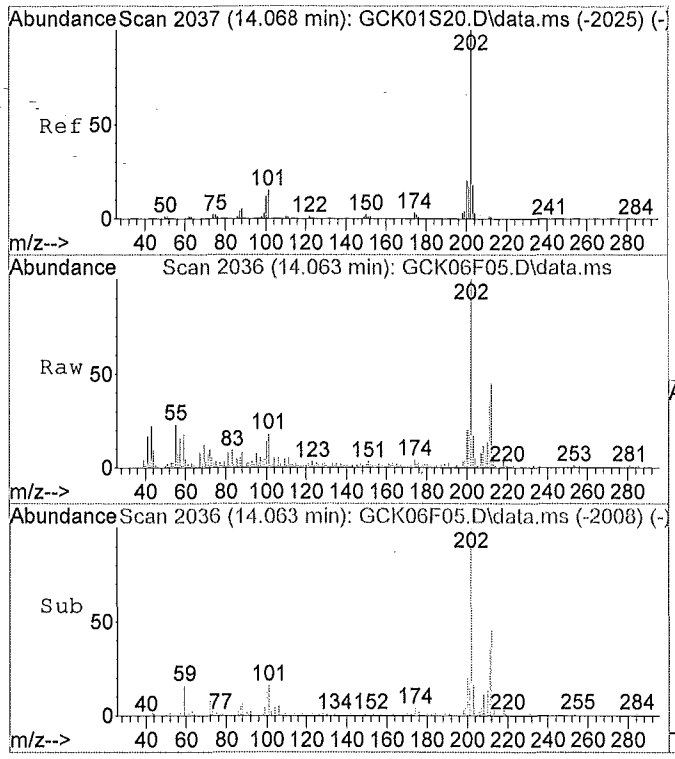


#72
Fluoranthene
Concen: 0.43 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:202 Resp: 33813

Ion	Ratio	Lower	Upper
202	100		
101	14.9	10.5	19.5
100	13.2	7.4	13.8
0	0.0	0.0	0.0

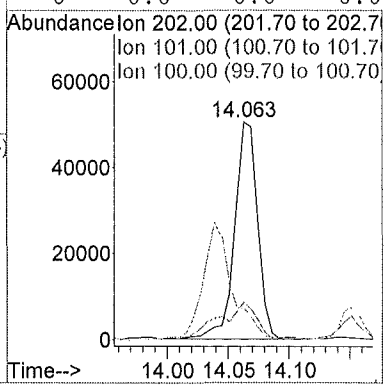


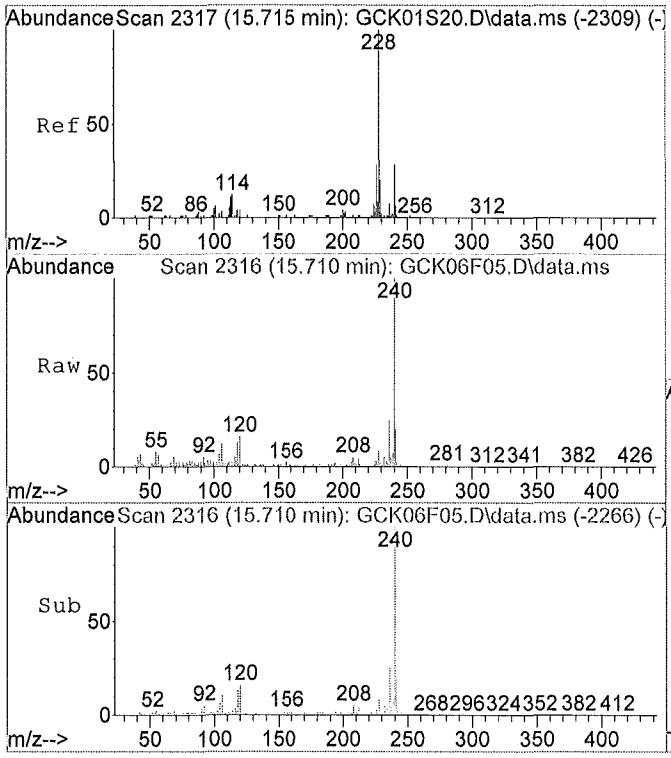


#74
Pyrene
Concen: 0.84 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:202 Resp: 66789

Ion	Ratio	Lower	Upper
202	100		
101	27.8	12.2	22.7#
100	66.4	10.1	18.7#
0	0.0	0.0	0.0

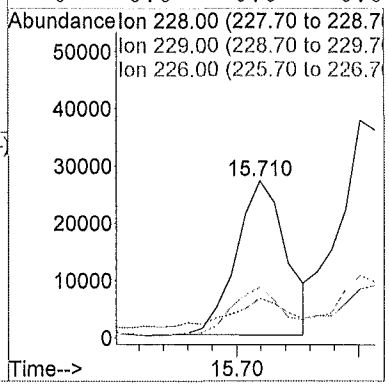


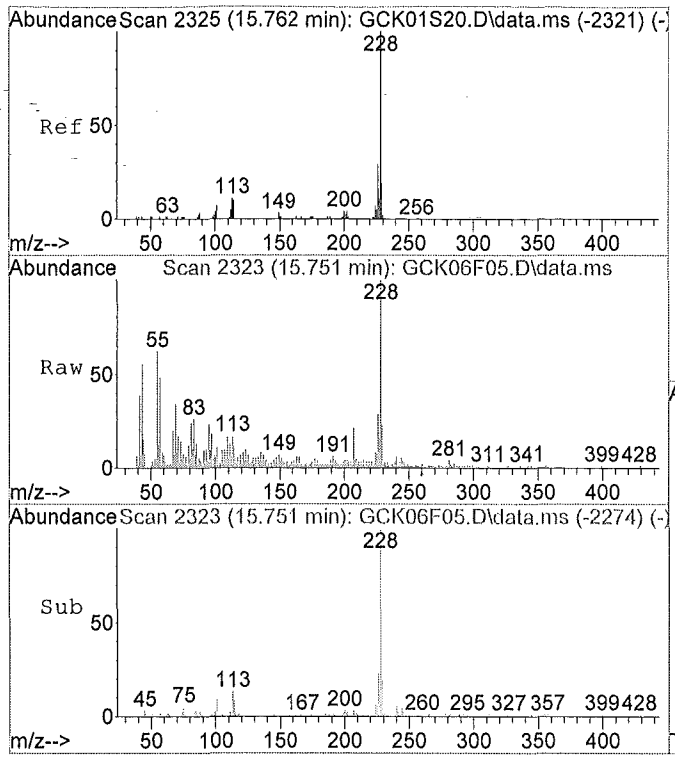


#78
Benzo(a)anthracene
Concen: 0.51 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:228 Resp: 38638

Ion	Ratio	Lower	Upper
228	100		
229	38.4	13.7	25.5#
226	33.6	18.2	33.8
0	0.0	0.0	0.0

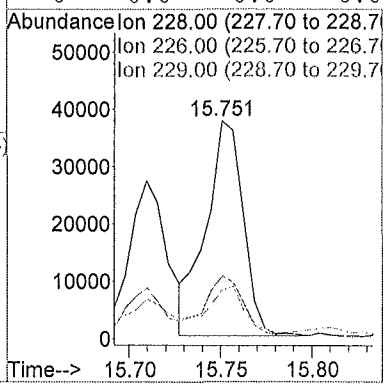


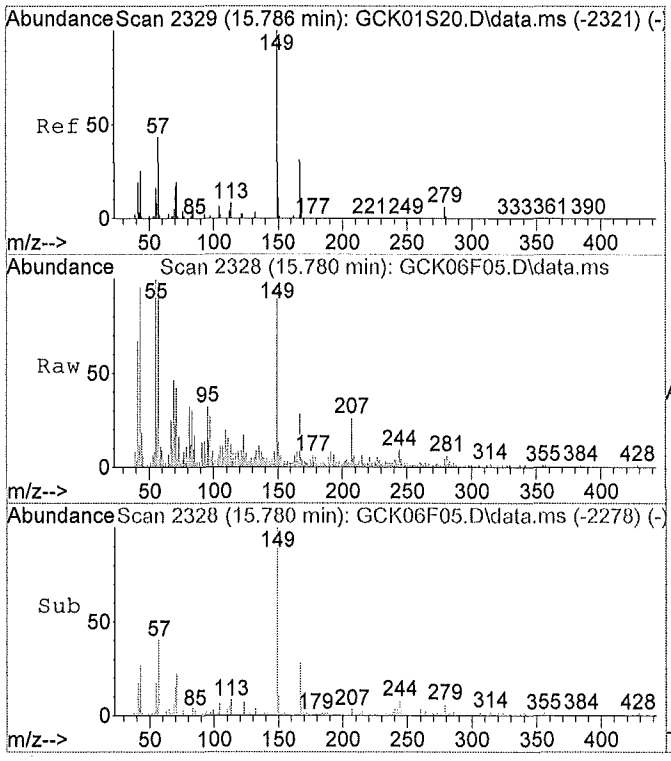


#79
Chrysene
Concen: 0.78 ug/ml
RT: 15.75 min Scan# 2323
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:228 Resp: 53166

Ion	Ratio	Lower	Upper
228	100		
226	31.9	20.1	37.3
229	18.2	13.7	25.5
0	0.0	0.0	0.0

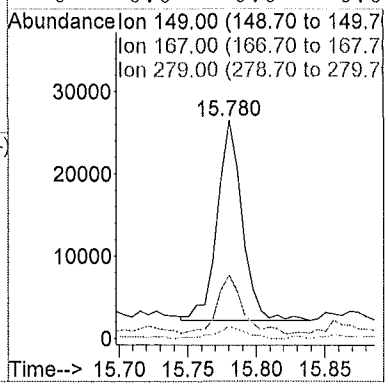


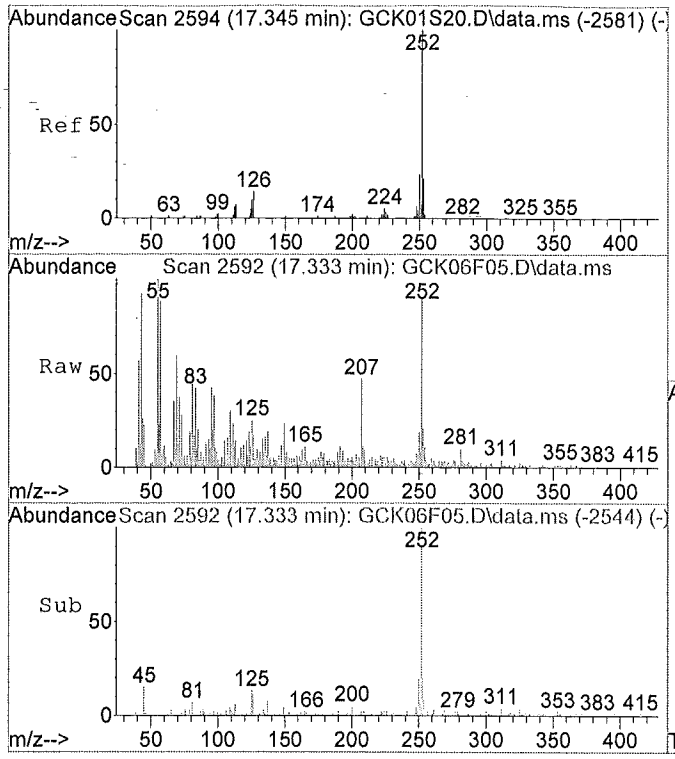


#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.50 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:149 Resp: 30605

Ion	Ratio	Lower	Upper
149	100		
167	29.0	22.0	40.8
279	7.6	5.0	9.2
0	0.0	0.0	0.0

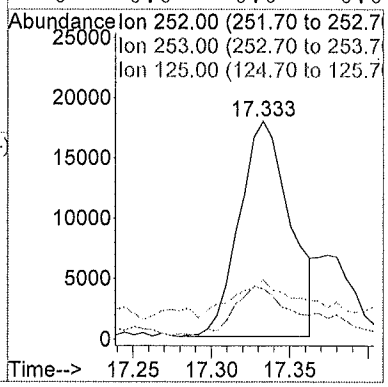


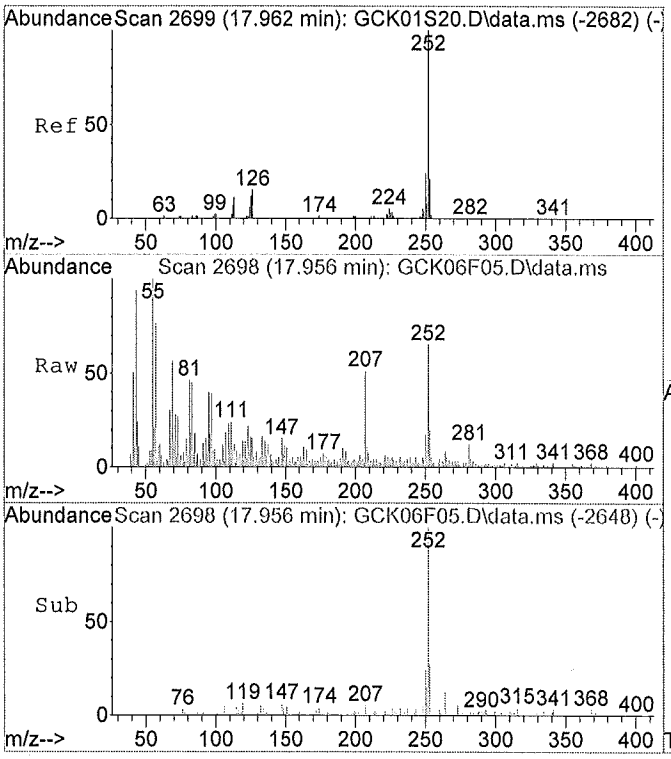


#83
Benzo(b)fluoranthene
Concen: 0.65 ug/ml m
RT: 17.33 min Scan# 2592
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:252 Resp: 40255

Ion	Ratio	Lower	Upper
252	100		
253	29.3	15.1	28.1#
125	22.9	10.6	19.8#
0	0.0	0.0	0.0

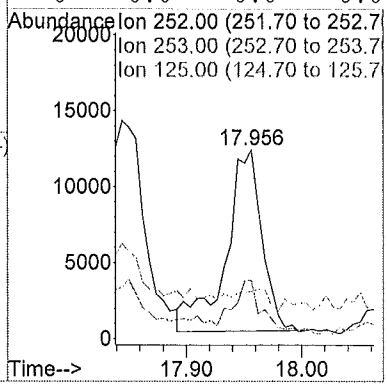




#85
Benzo(a)pyrene
Concen: 0.44 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.01 min
Lab File: GCK06F05.D
Acq: 07/02/2015 13:36

Tgt Ion:252 Resp: 25843

Ion	Ratio	Lower	Upper
252	100		
253	25.2	15.2	28.2
125	3.2	11.8	21.8#
0	0.0	0.0	0.0



Library Search Compound Report

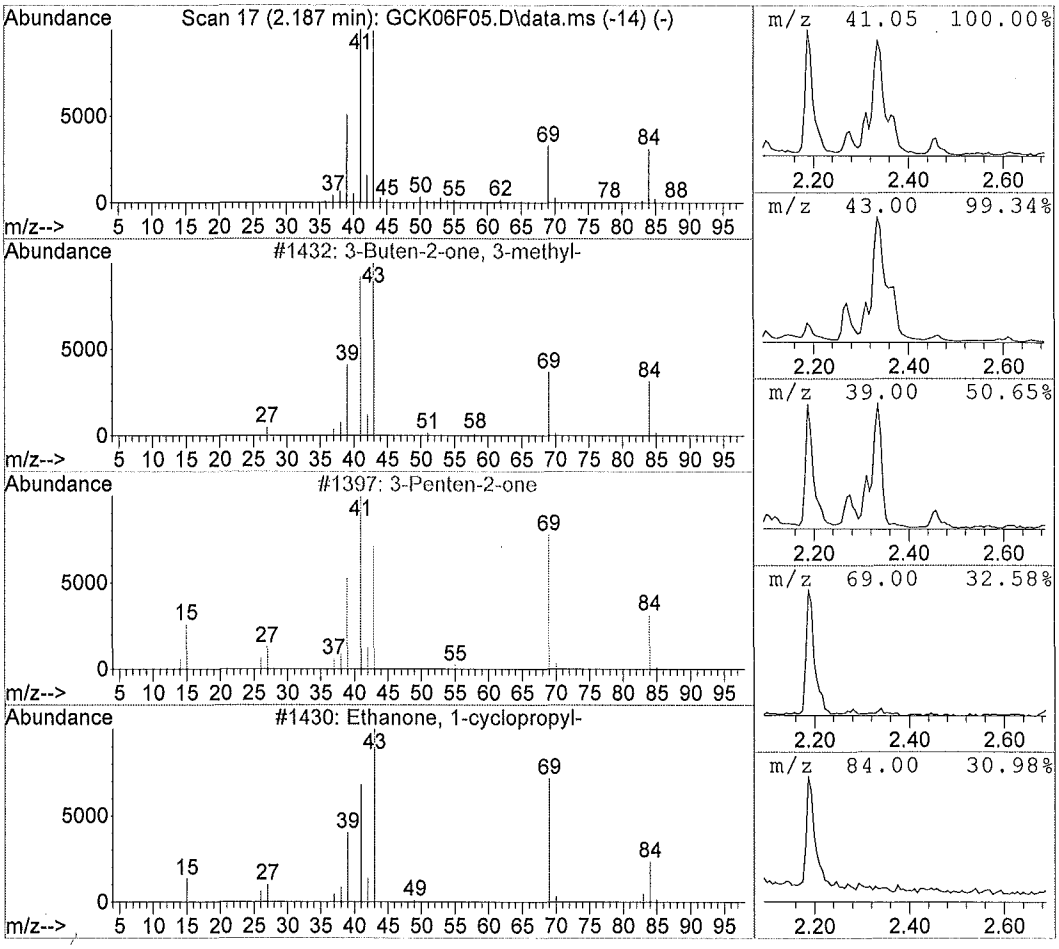
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.19	2.09 ug/ml	274907	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	86.00
2	3-Penten-2-one	1397	000625-33-2	56.00
3	Ethanone, 1-cyclopropyl-	1430	000765-43-5	50.00
4	Dicyclopropyl carbinol	6505	014300-33-5	33.00
5	(Z)-1,3-Butadien-1-ol	548	070415-58-6	33.00



Library Search Compound Report

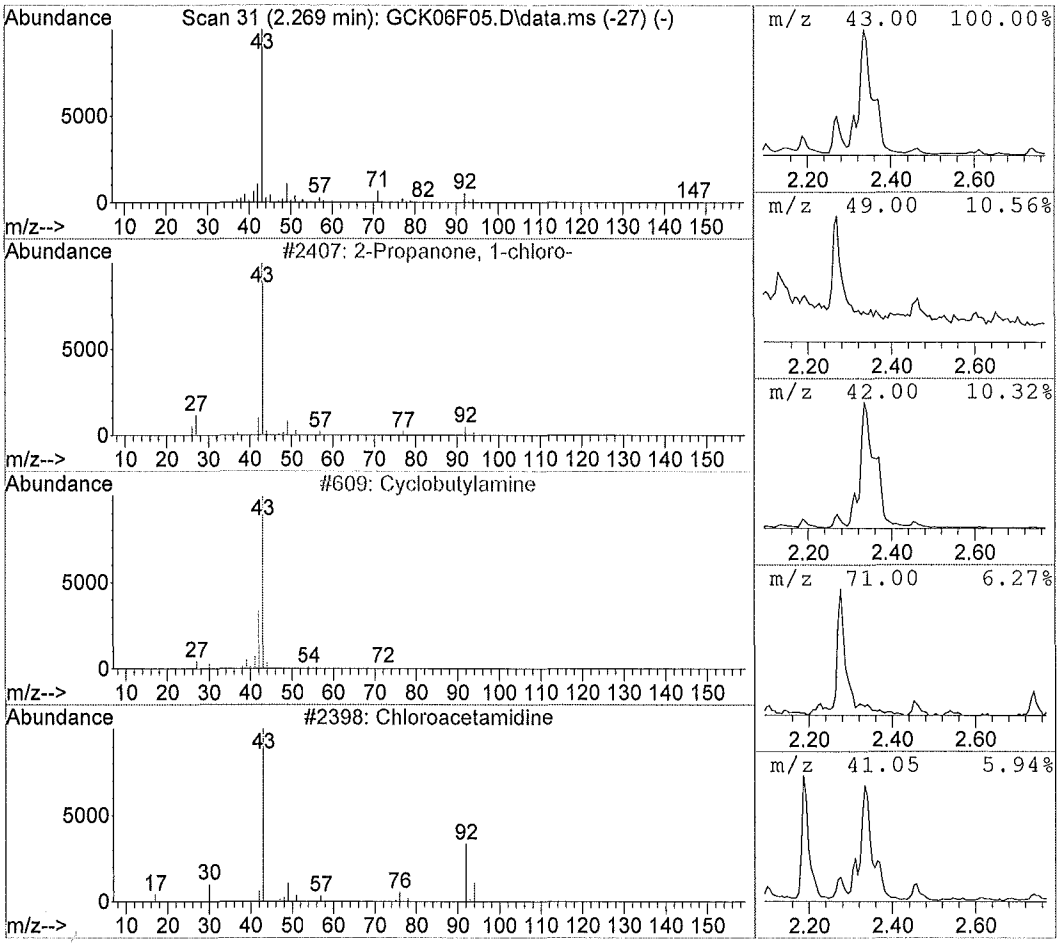
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.27	2.51 ug/ml	329930	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	83.00
2	Cyclobutylamine	609	002516-34-9	9.00
3	Chloroacetamidine	2398	020846-52-0	9.00
4	Azetidine, 2-methyl-	615	019812-49-8	5.00
5	Azetidine, 1-methyl-	616	004923-79-9	5.00



: 00322

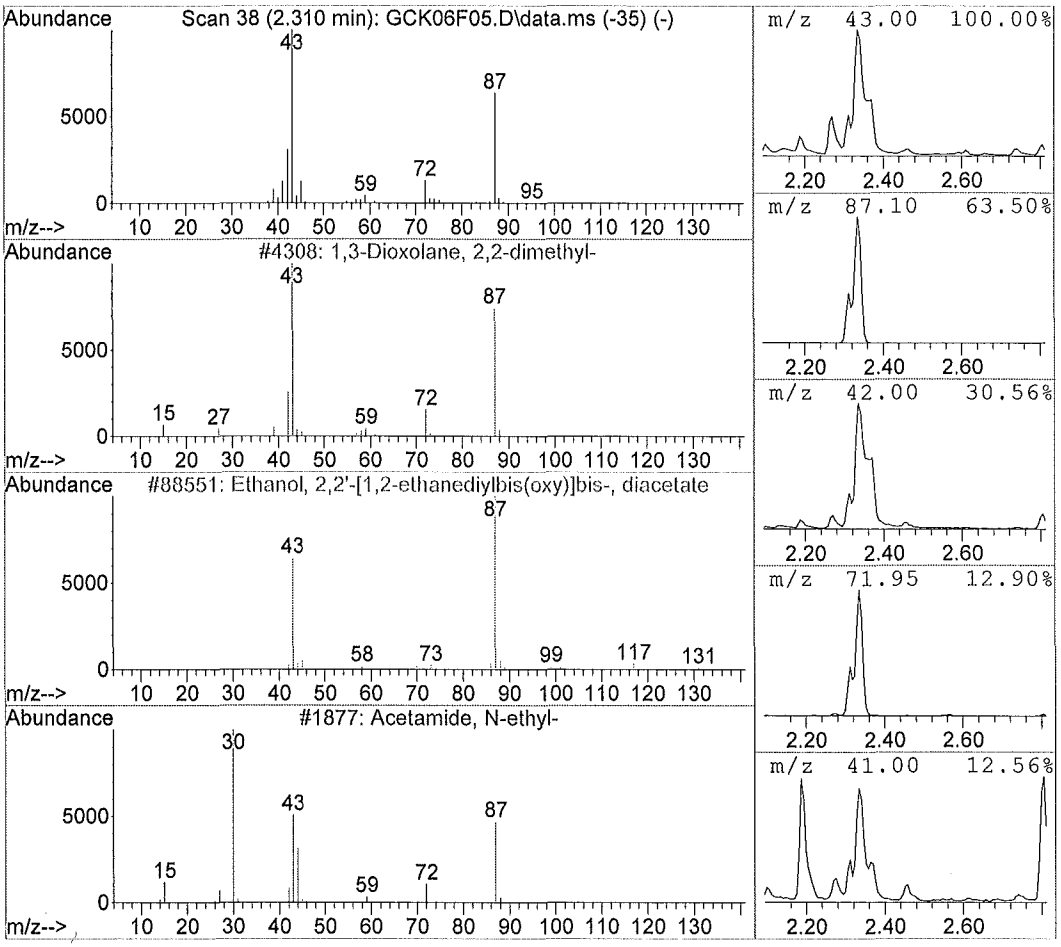
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.31	2.13 ug/ml	280460	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	72.00
2	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	42.00
3	Acetamide, N-ethyl-	1877	000625-50-3	33.00
4	N,N-Dimethylacetamide	1886	000127-19-5	25.00
5	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	25.00



: 00323

Library Search Compound Report

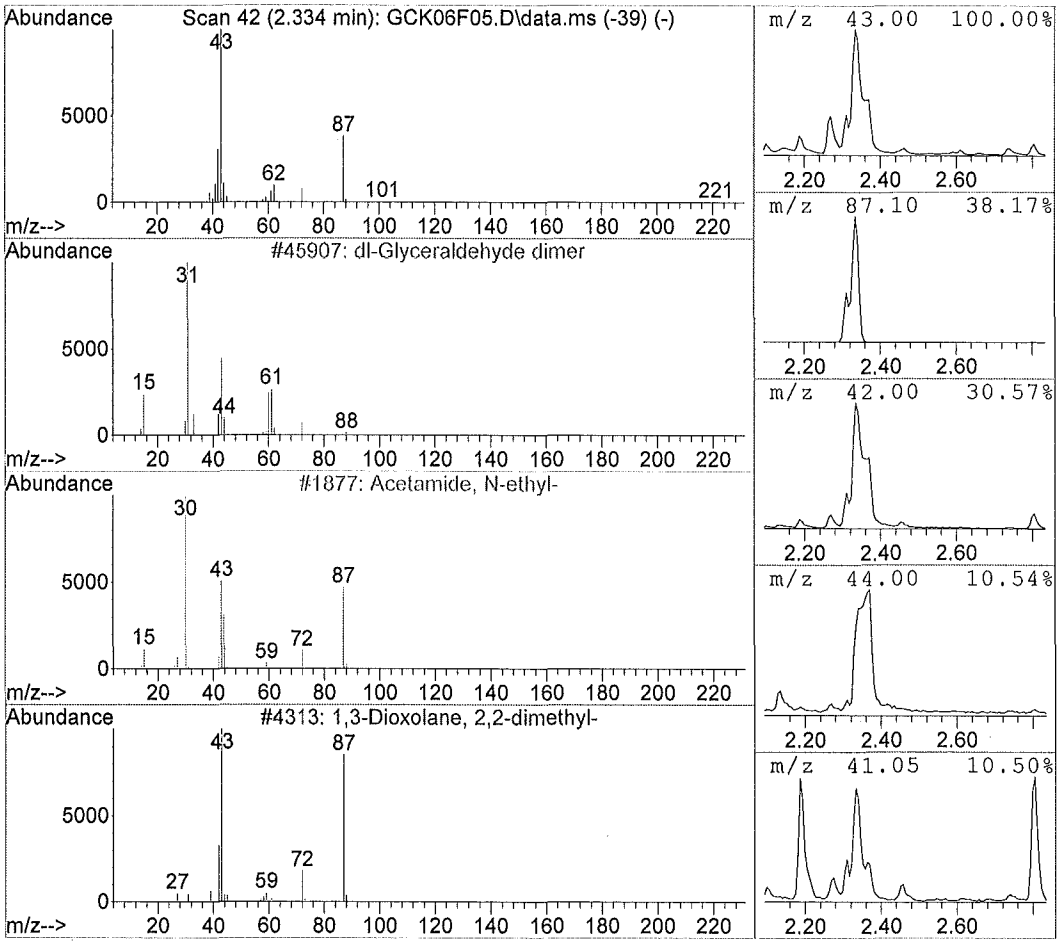
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	9.13 ug/ml	1200342	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	dl-Glyceraldehyde dimer	45907	026793-98-6	28.00
2	Acetamide, N-ethyl-	1877	000625-50-3	9.00
3	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	9.00
4	Amyl nitrite	8475	000463-04-7	9.00
5	Pentane	709	000109-66-0	5.00



00324

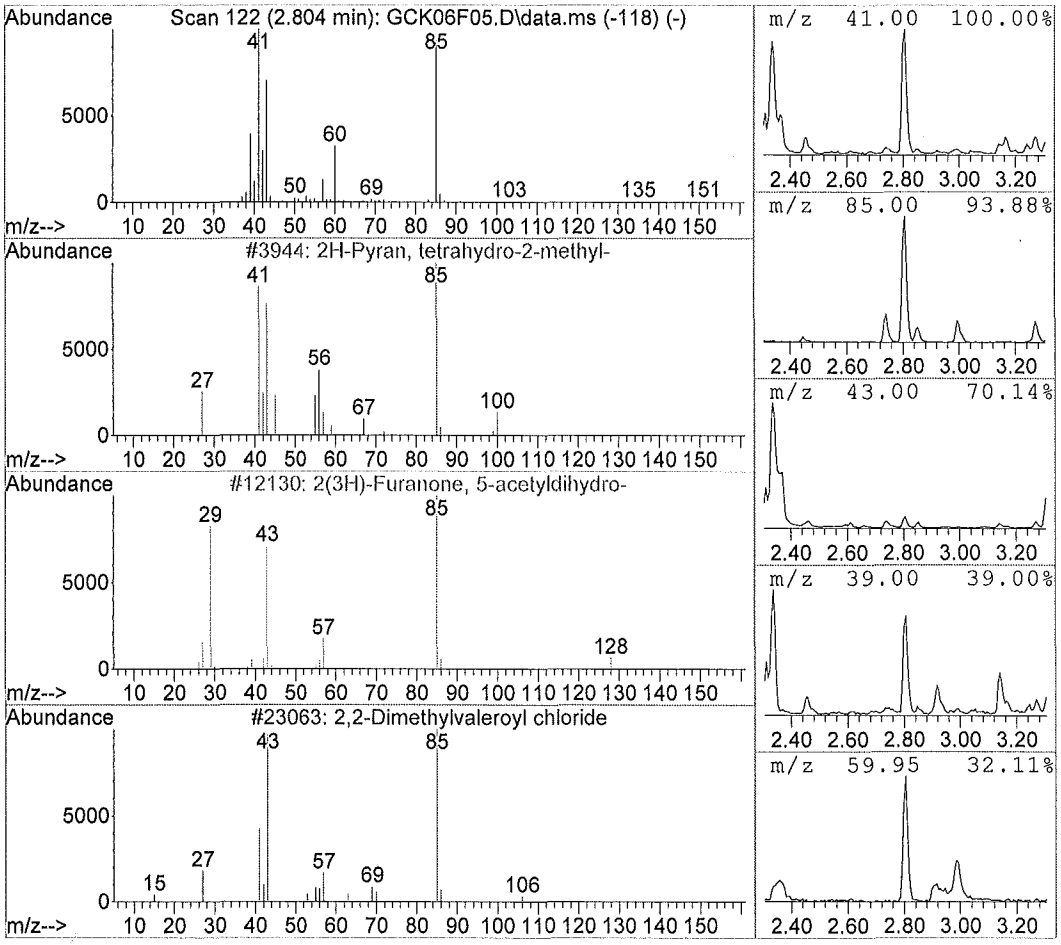
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	2.11 ug/ml	277233	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran, tetrahydro-2-methyl-	3944	010141-72-7	50.00
2	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	23.00
3	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00
4	2,2'-Bi-2H-pyran, octahydro-	37957	016282-29-4	17.00
5	Ethyl 2,4-dioxovalerate	29867	000615-79-2	17.00



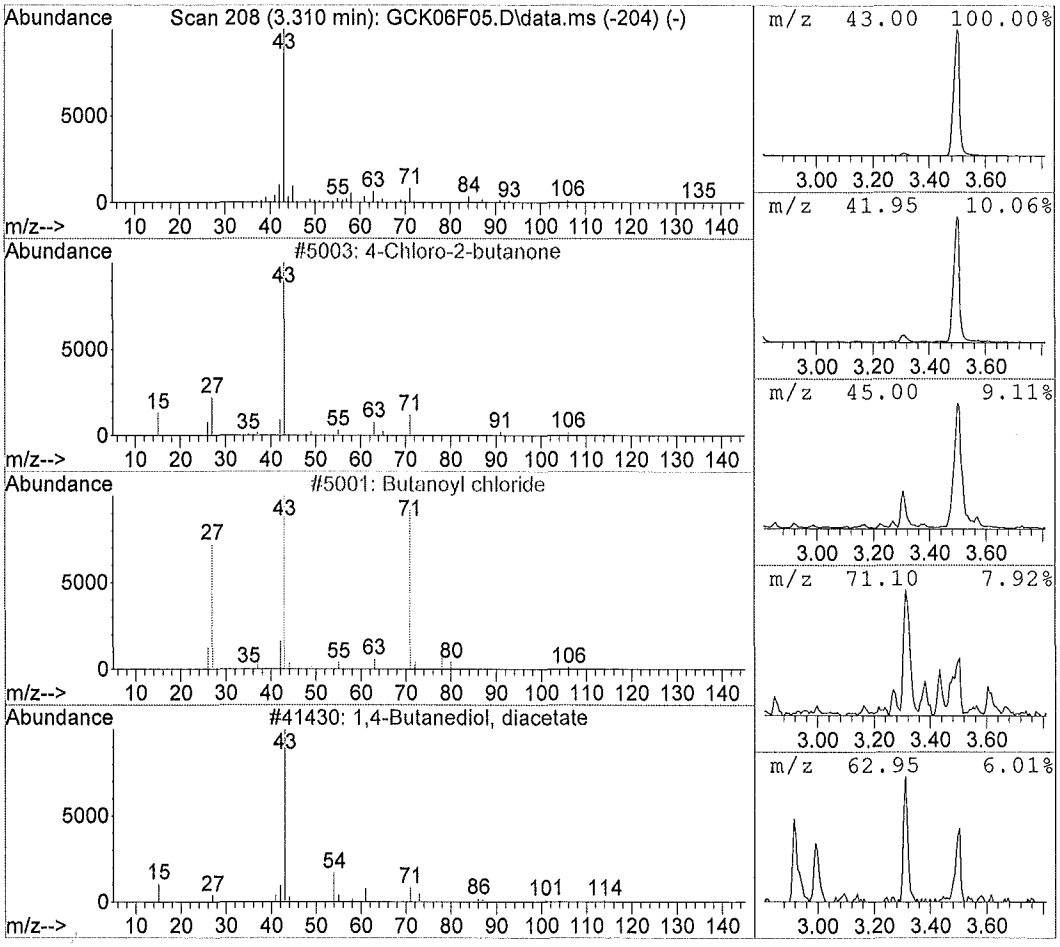
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	2.93 ug/ml	385474	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	43.00
2	Butanoyl chloride	5001	000141-75-3	9.00
3	1,4-Butanediol, diacetate	41430	000628-67-1	9.00
4	Ethanol, 2-chloro-, acetate	9743	000542-58-5	9.00
5	CH3C(O)CH2CH2OH	2021	000590-90-9	9.00



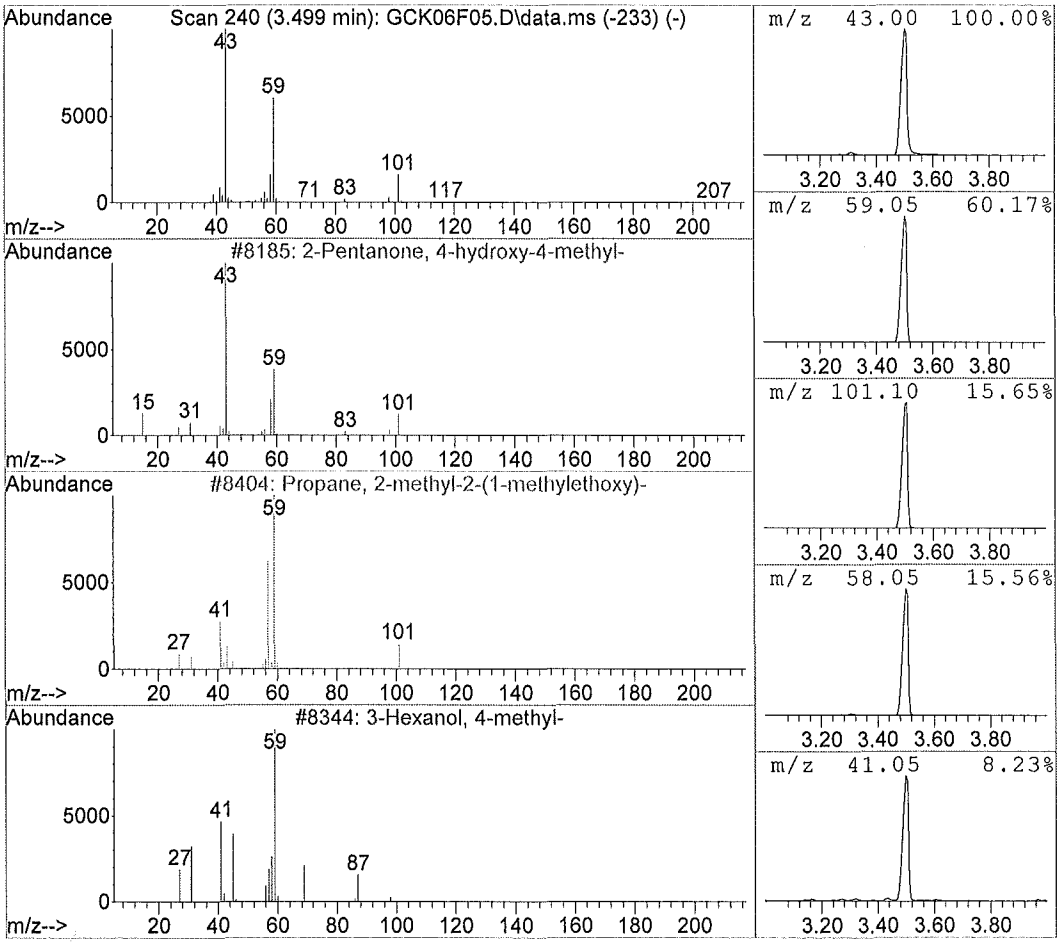
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	164.55 ug/ml	21644008	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	38.00
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	23.00



Library Search Compound Report

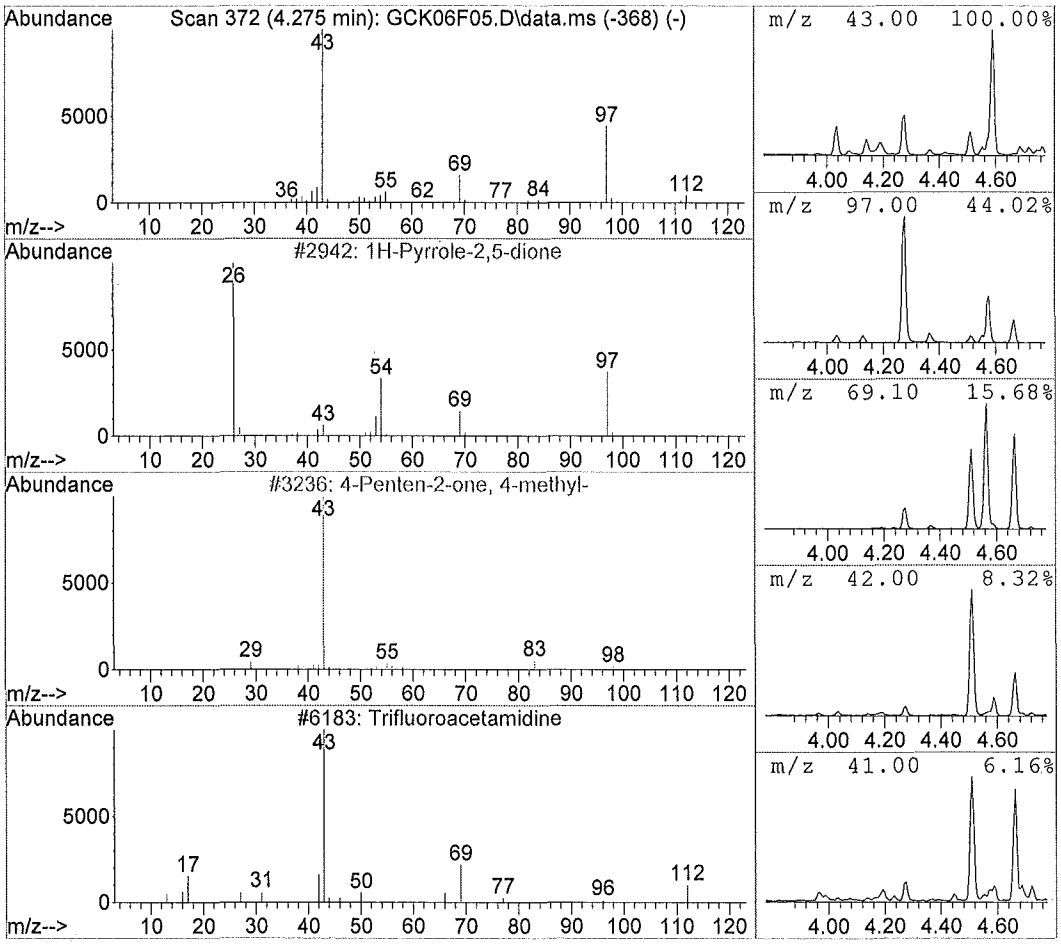
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.57 ug/ml	469280	1,4-Dichlorobenzene-d4	2630711

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	Trifluoroacetamidine	6183	000354-37-0	5.00
4	4-Hepten-2-one, (E)-	6492	036678-43-0	5.00
5	4-Hexen-2-one, 3-methyl-	6516	072189-24-3	5.00



: 00329

Library Search Compound Report

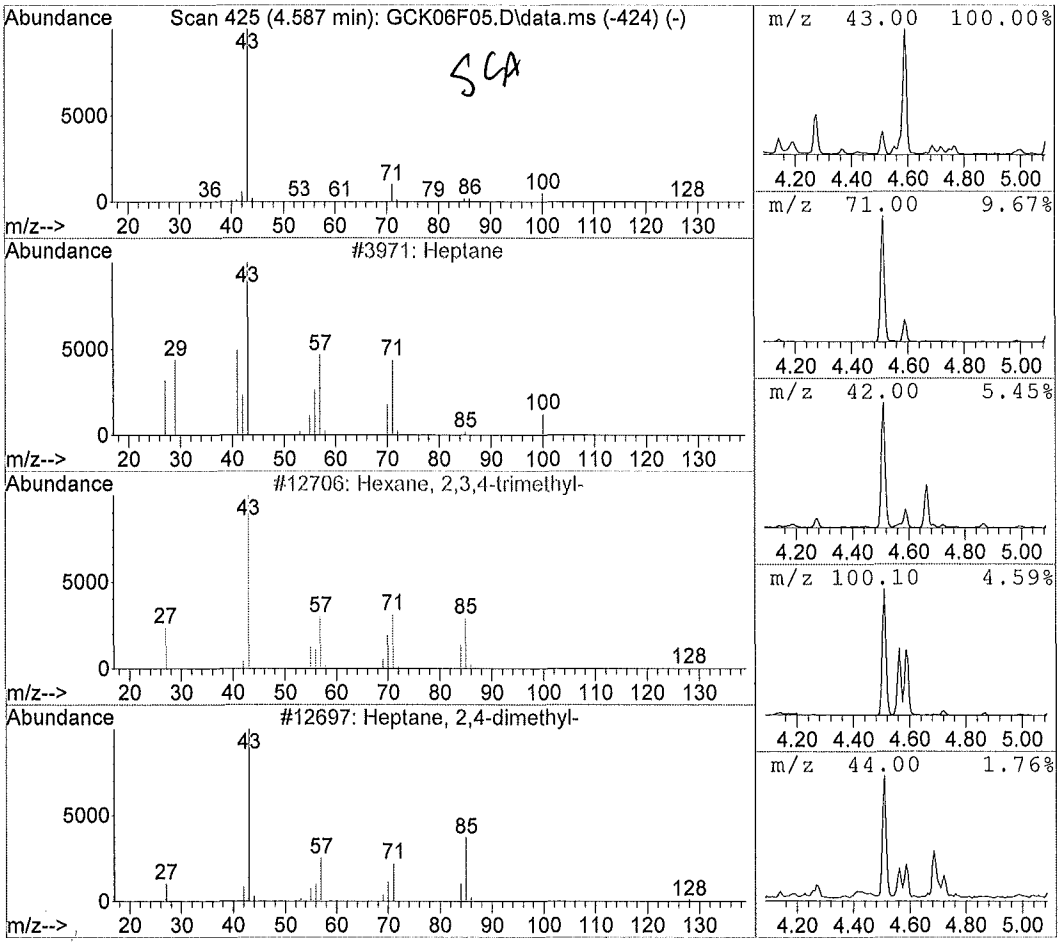
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	4.89 ug/ml	642664	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane	3971	000142-82-5	5.00
2	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
3	Heptane, 2,4-dimethyl-	12697	002213-23-2	5.00
4	Octane, 2-methyl-	12672	003221-61-2	4.00
5	Furan, tetrahydro-2-methyl-	1806	000096-47-9	4.00



: 00329

Library Search Compound Report

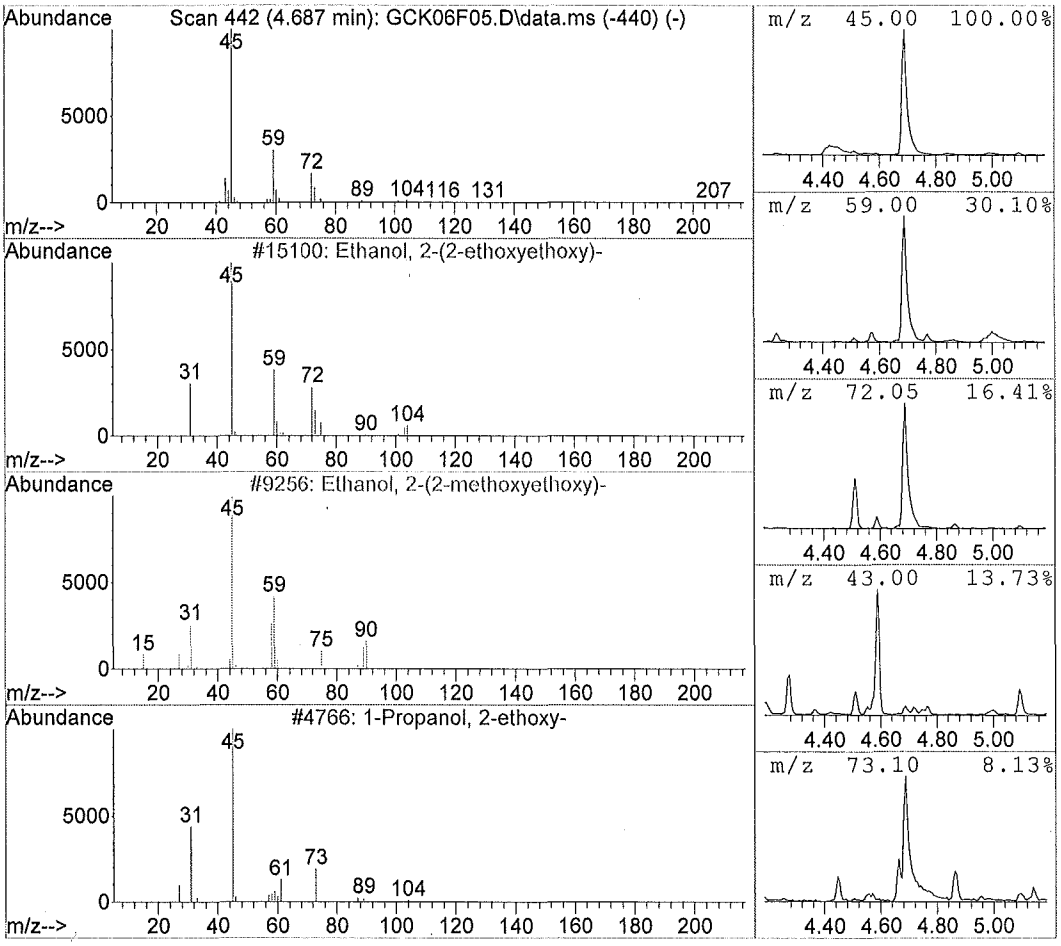
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	3.93 ug/ml	517393	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	1-Propanol, 2-ethoxy-	4766	019089-47-5	36.00
4	2-Methoxyisopropyl cyanoacetate	29350	032804-79-8	36.00
5	2-Pentanol	2094	006032-29-7	36.00



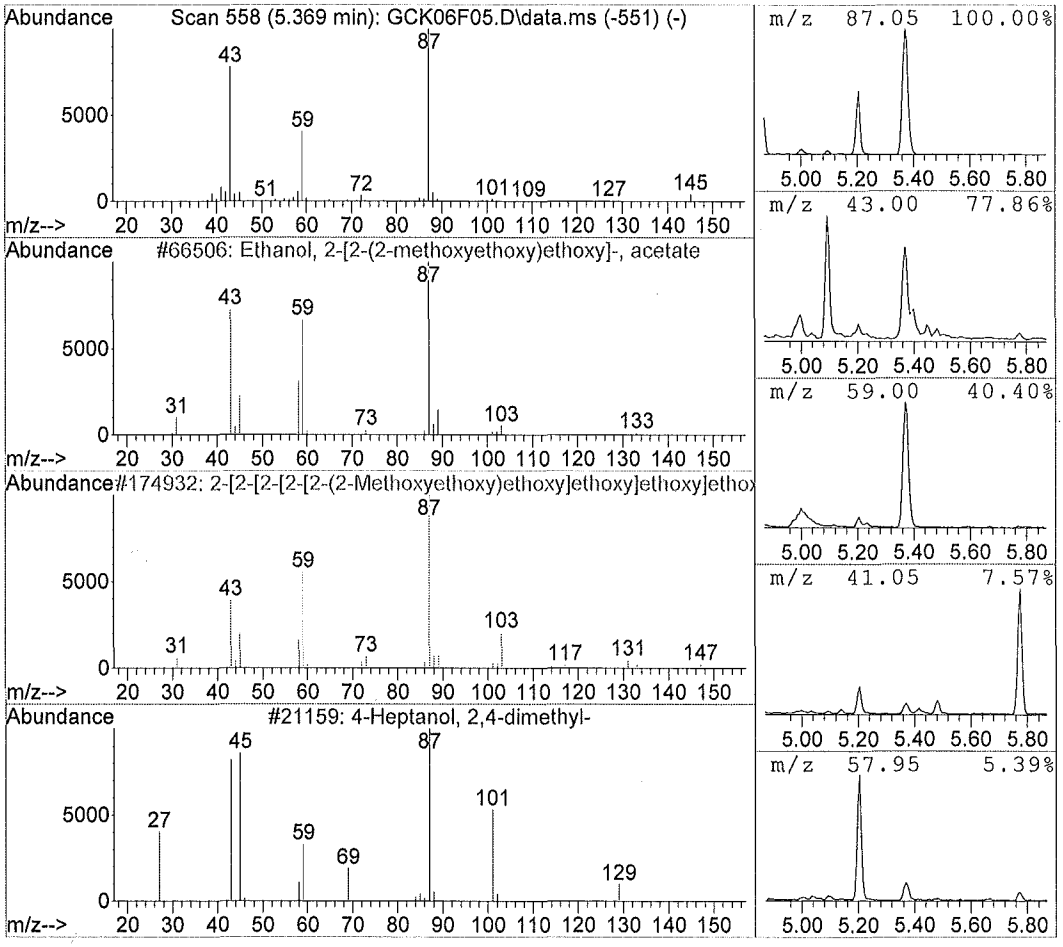
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.37	3.94 ug/ml	518763	1,4-Dichlorobenzene-d4	2630711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-[2-(2-methoxyethoxy)etho	66506	003610-27-3	72.00
2	2-[2-[2-[2-[2-(2-Methoxyethoxy)etho	174932	1000351-91-5	50.00
3	4-Heptanol, 2,4-dimethyl-	21159	019549-77-0	43.00
4	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	40.00
5	Ethanol, 2,2'-oxybis-, diacetate	53400	000628-68-2	40.00



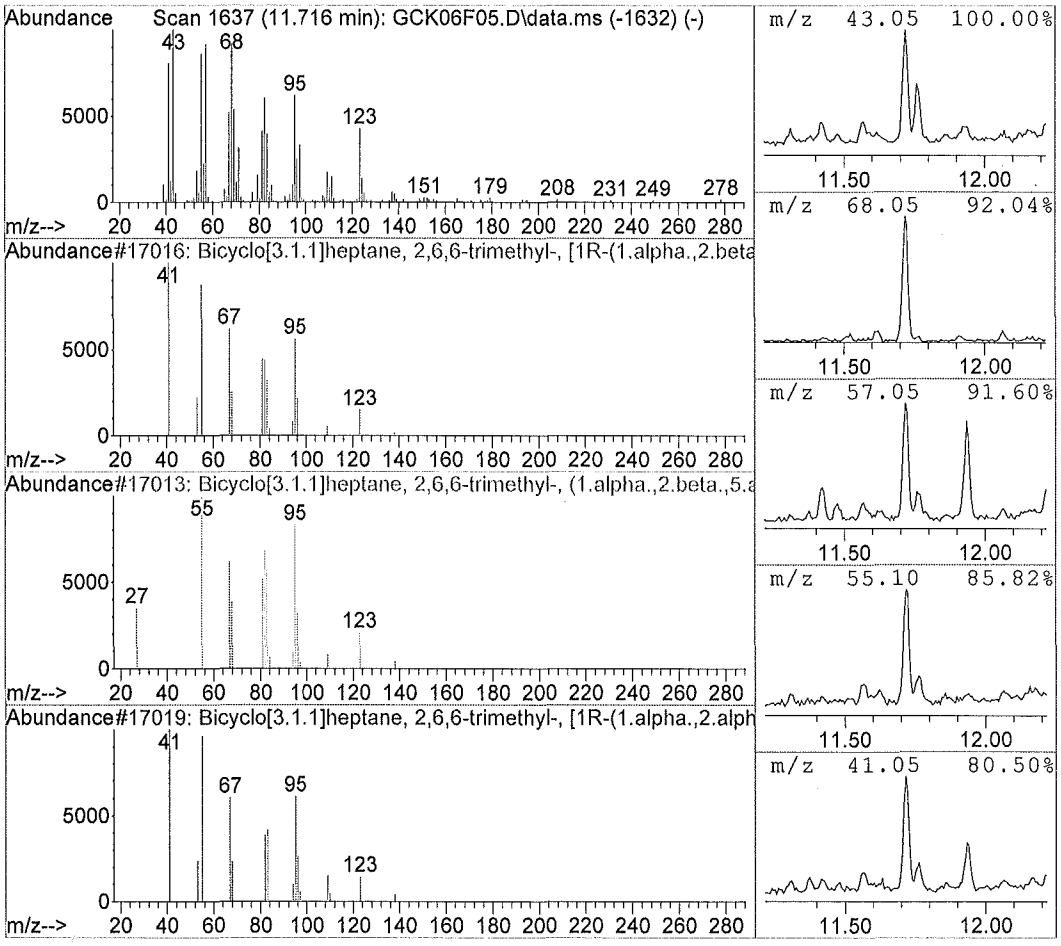
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.72	2.03 ug/ml	368873	Phenanthrene-d10	3626762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	91.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	90.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17019	004863-59-6	87.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16976	000473-55-2	60.00
5	Bicyclo[3.1.1]heptane-2-carboxaldeh	25342	004764-14-1	45.00



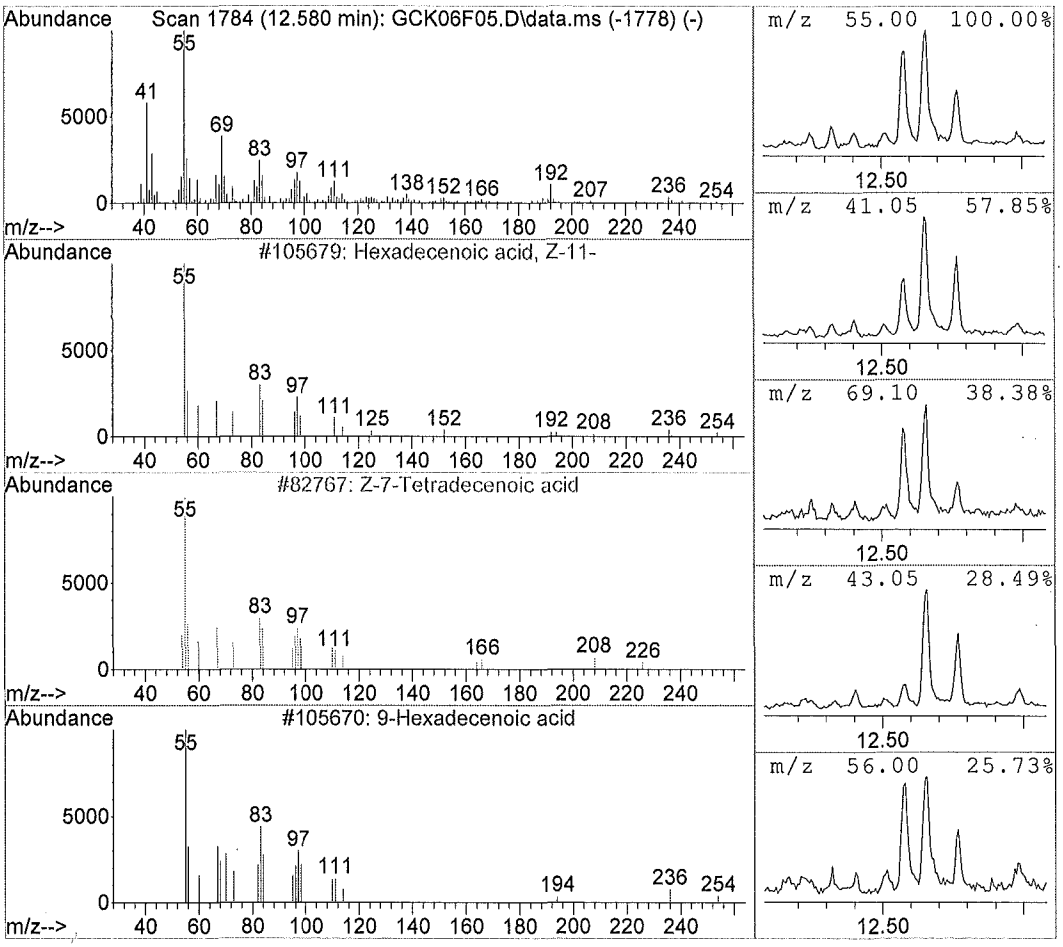
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.58	2.08 ug/ml	376295	Phenanthrene-d10	3626762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecenoic acid, Z-11-	105679	002416-20-8	87.00
2	Z-7-Tetradecenoic acid	82767	1000130-98-4	87.00
3	9-Hexadecenoic acid	105670	002091-29-4	87.00
4	E-9-Tetradecenoic acid	82768	1000131-35-8	72.00
5	Myristoleic acid	82760	000544-64-9	72.00



Library Search Compound Report

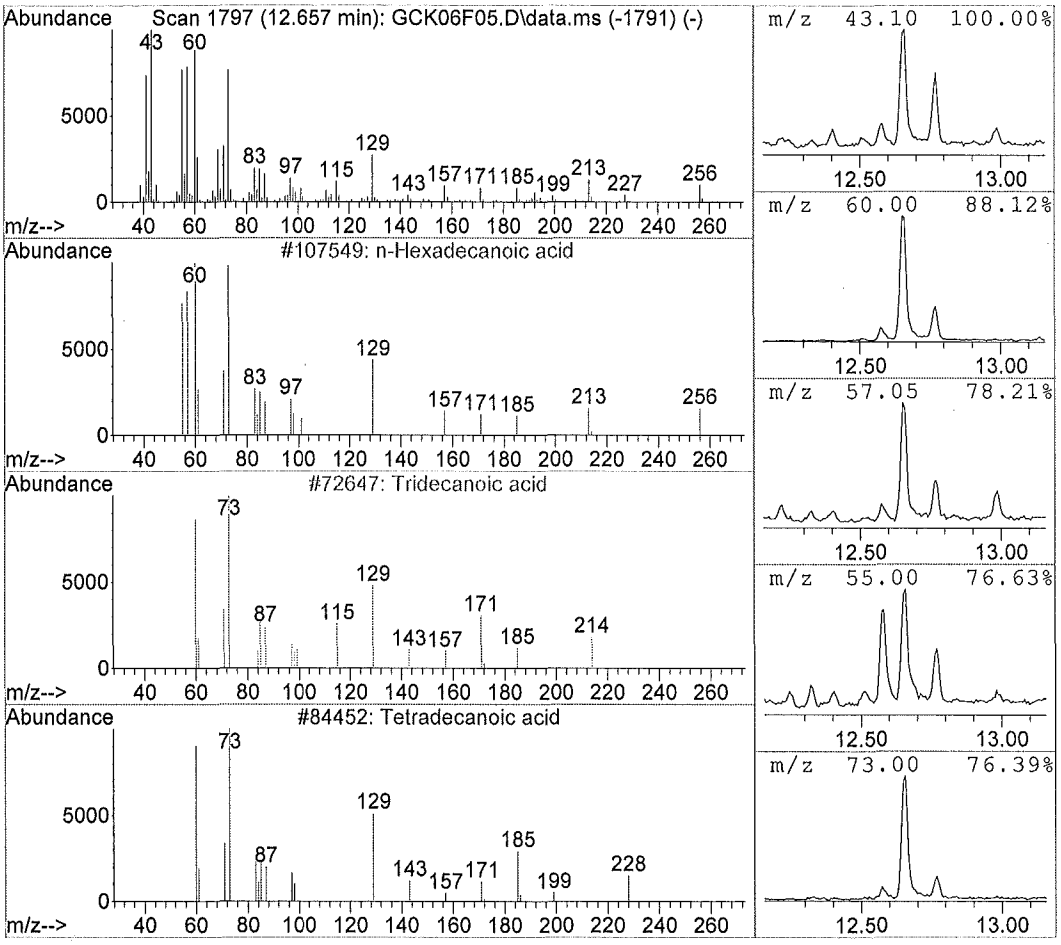
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	4.80 ug/ml	870471	Phenanthrene-d10	3626762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72647	000638-53-9	89.00
3	Tetradecanoic acid	84452	000544-63-8	64.00
4	n-Decanoic acid	39471	000334-48-5	64.00
5	Undecanoic acid	50052	000112-37-8	64.00



: 88934

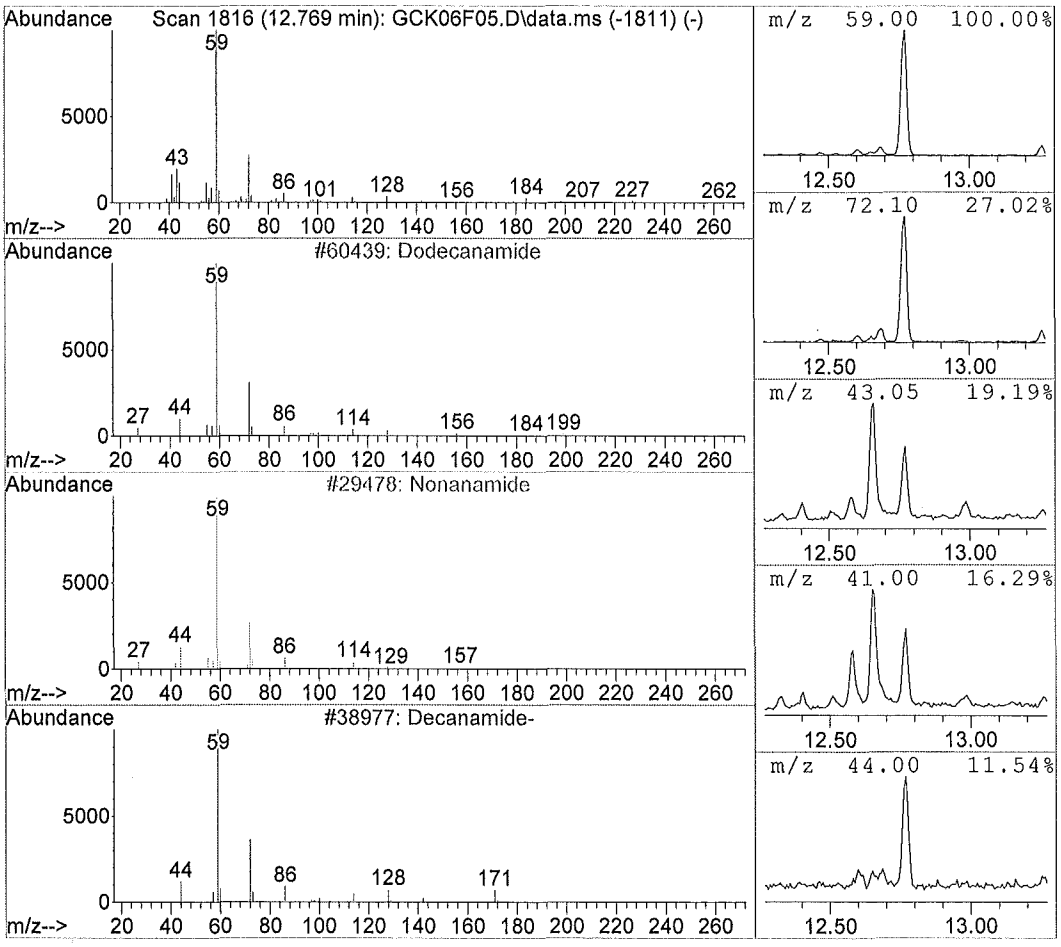
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.75 ug/ml	498664	Phenanthrene-d10	3626762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	83.00
3	Decanamide-	38977	002319-29-1	74.00
4	Hexadecanamide	106565	000629-54-9	72.00
5	Pentanamide	4062	000626-97-1	64.00



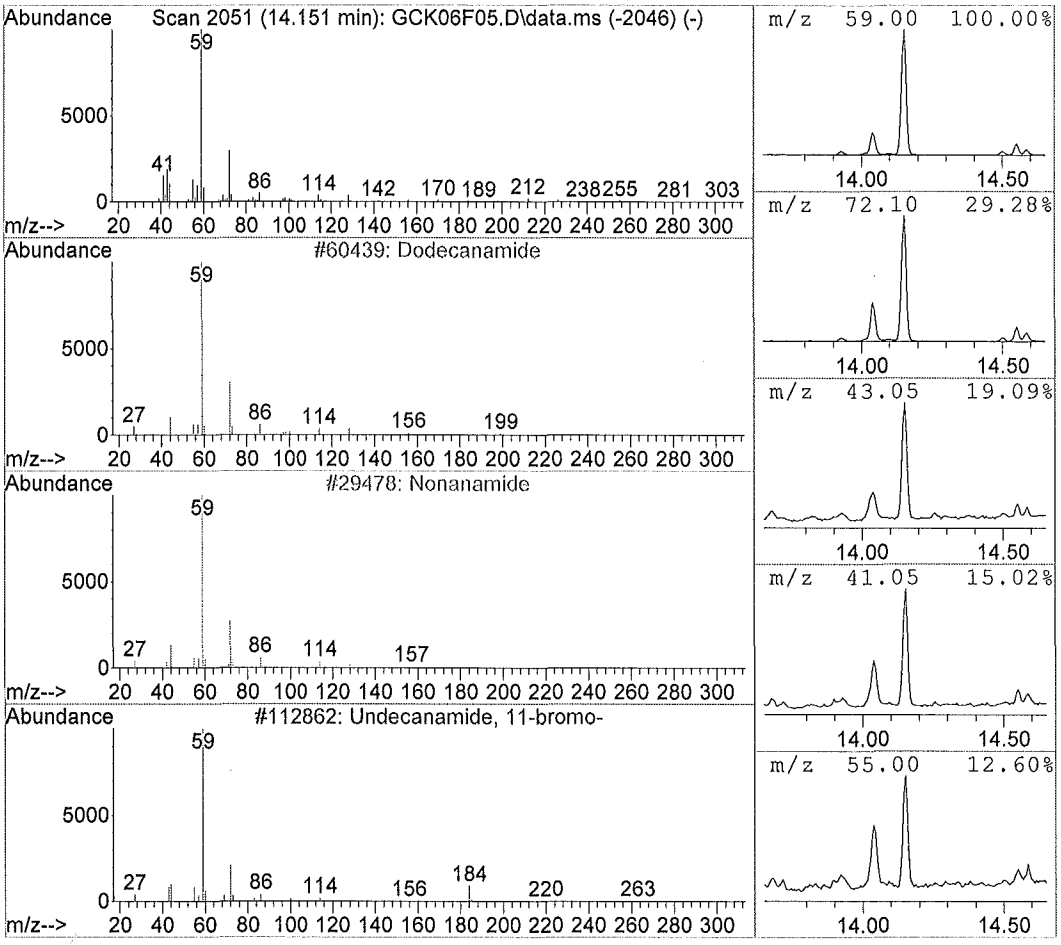
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	9.72 ug/ml	1658625	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Hexadecanamide	106564	000629-54-9	78.00



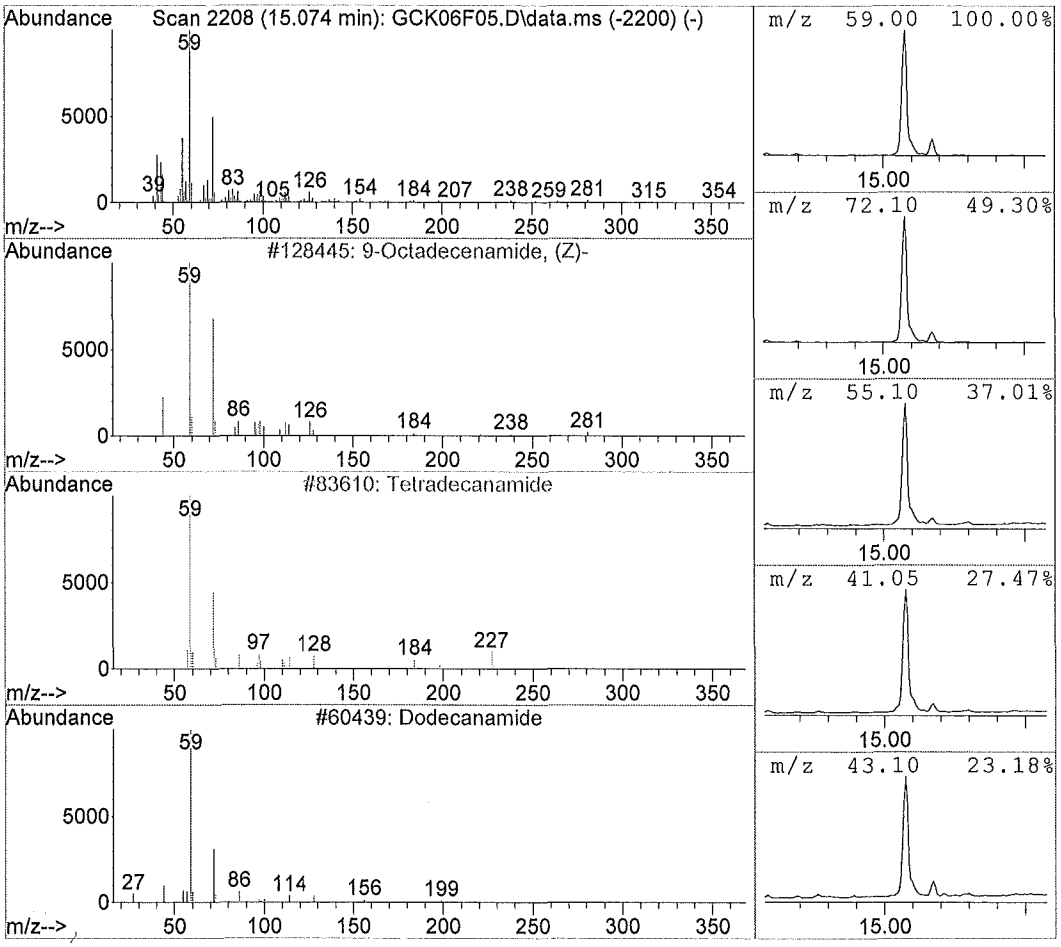
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	50.05 ug/ml	8539998	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Octanamide	20317	000629-01-6	56.00
5	Decanamide-	38977	002319-29-1	56.00



Library Search Compound Report

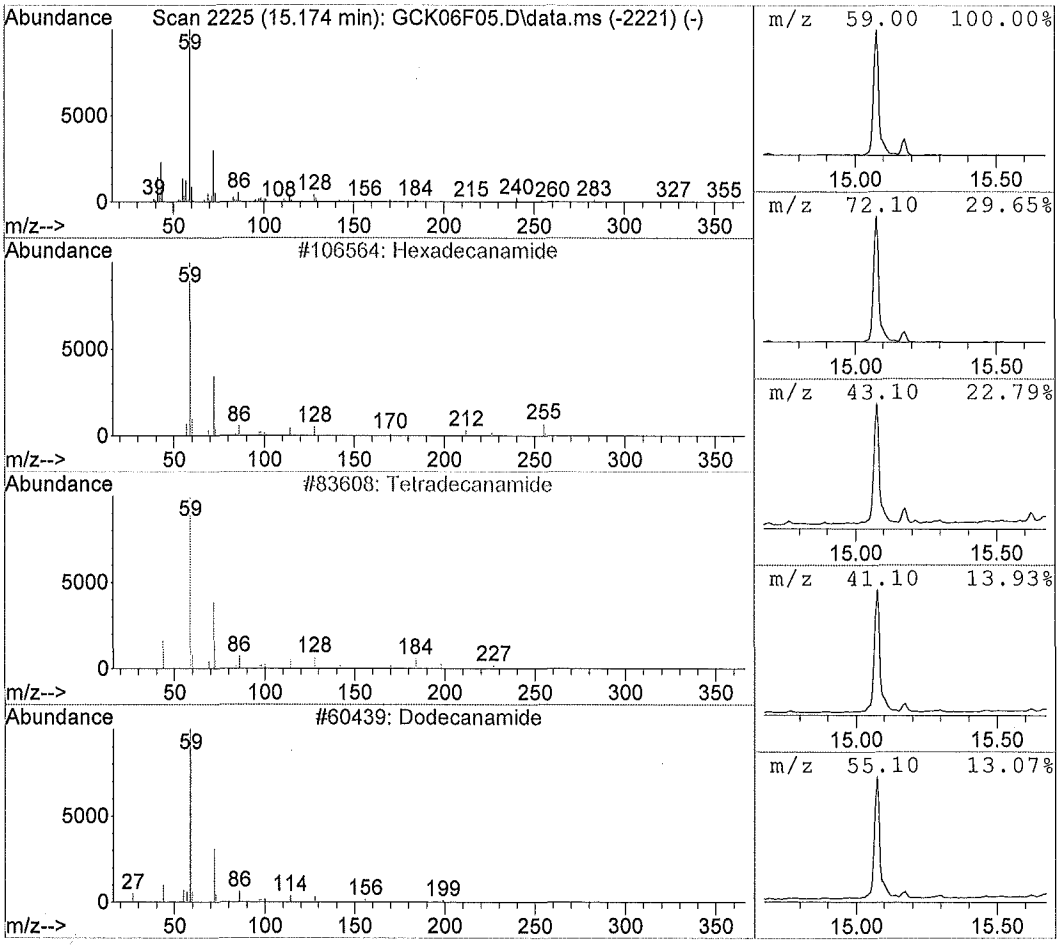
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.25 ug/ml	555317	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	78.00
2	Tetradecanamide	83608	000638-58-4	78.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Octanamide	20317	000629-01-6	64.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



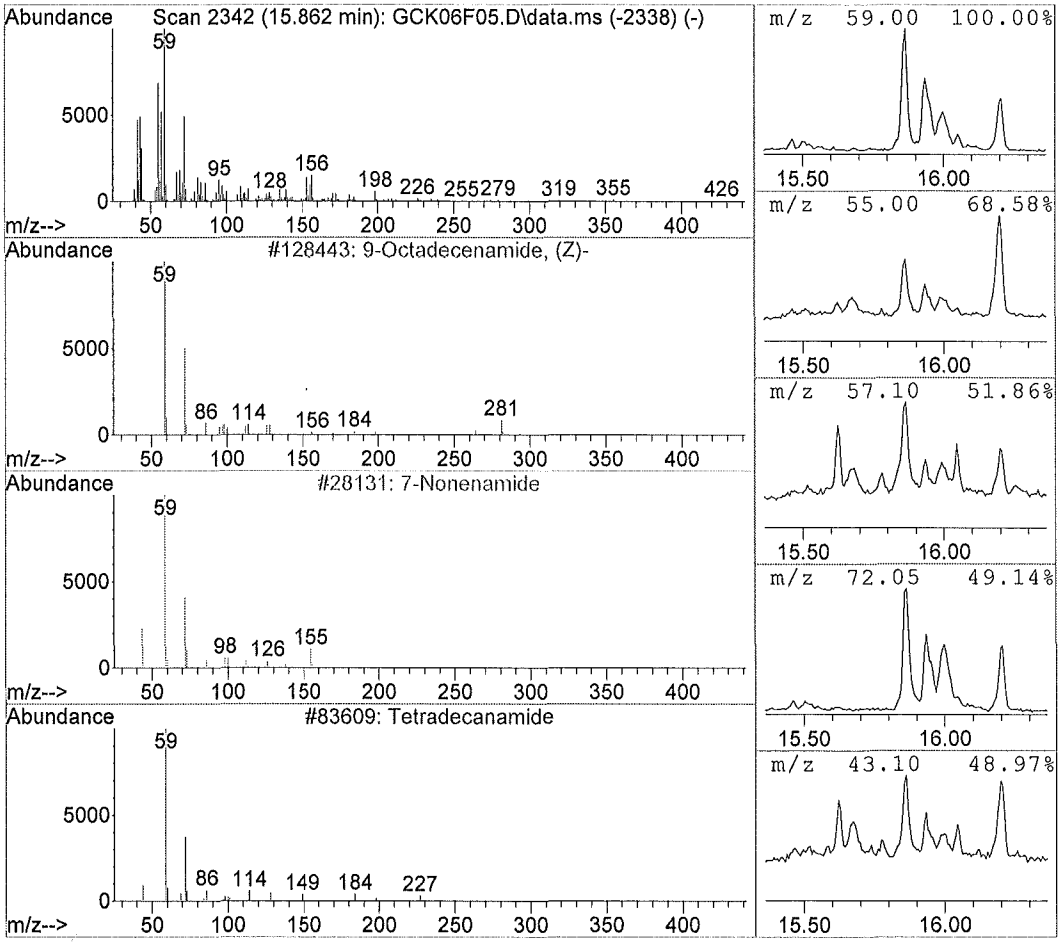
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.59 ug/ml	783303	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	59.00
2	7-Nonenamide	28131	090949-53-4	53.00
3	Tetradecanamide	83609	000638-58-4	53.00
4	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	50.00
5	Dodecanamide	60440	001120-16-7	49.00



: 88339

Library Search Compound Report

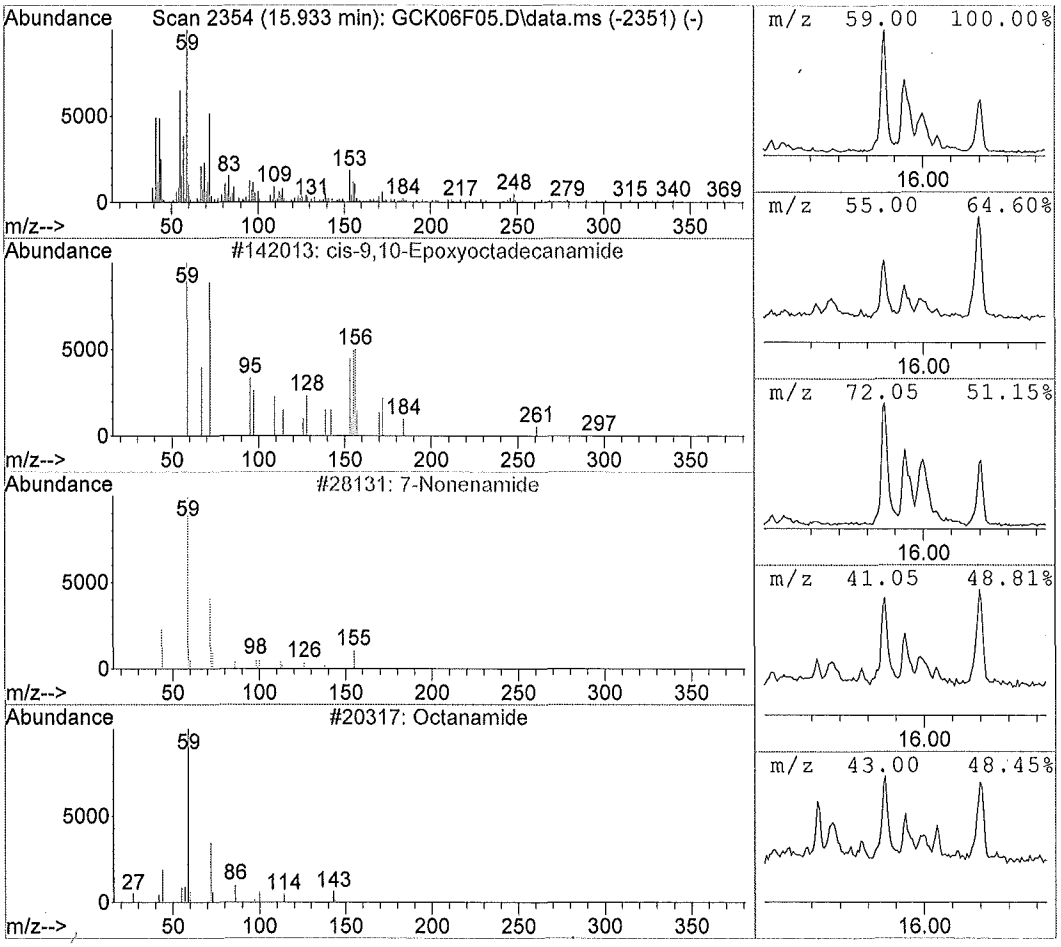
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D
Acq On : 07/02/2015 13:36
Sample : 1513978005 F9KX1
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.48 ug/ml	422589	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	93.00
2	7-Nonenamide	28131	090949-53-4	70.00
3	Octanamide	20317	000629-01-6	50.00
4	Silane, hexyl-	8287	001072-14-6	35.00
5	Cyclopentanemethanol, .alpha.,.alph	12650	001462-06-2	35.00



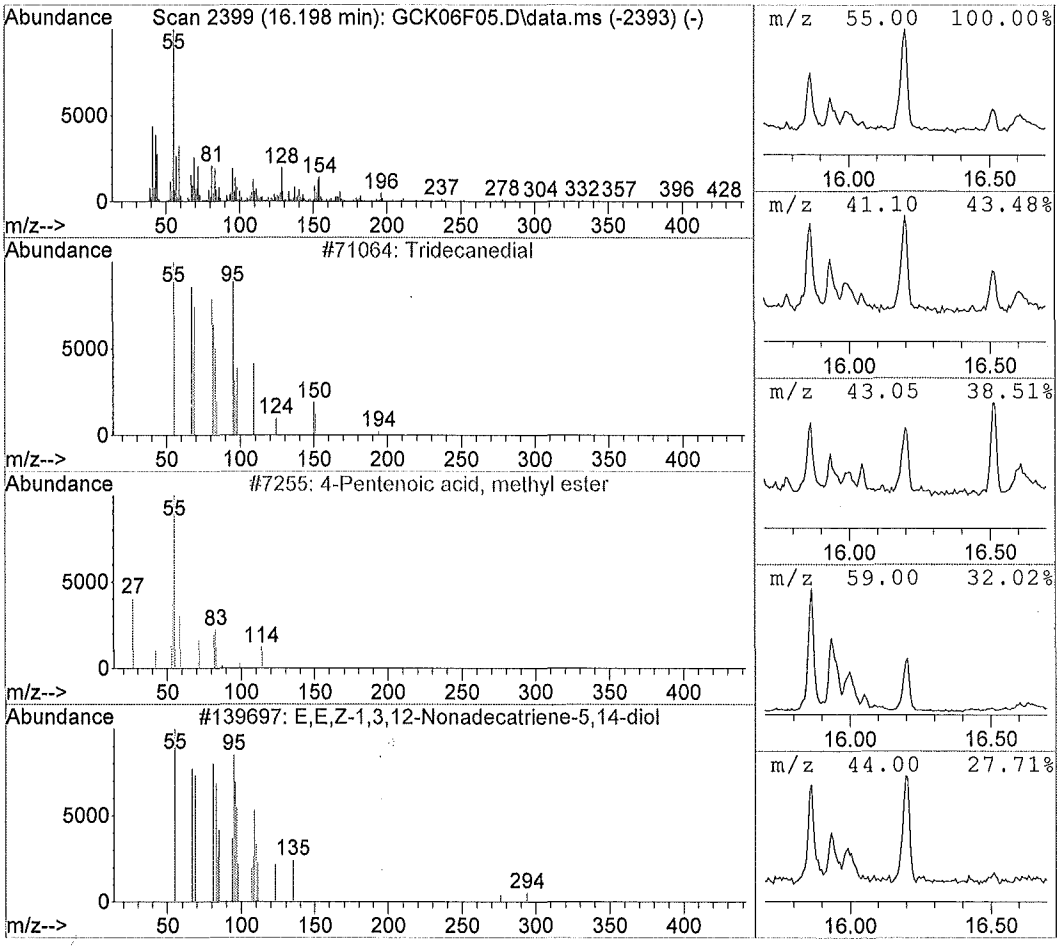
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.29 ug/ml	1073672	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecanedial	71064	063521-76-6	35.00
2	4-Pentenoic acid, methyl ester	7255	000818-57-5	25.00
3	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	22.00
4	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	22.00
5	1-Decene, 5-methyl-	27041	054244-79-0	20.00



: 00341

Library Search Compound Report

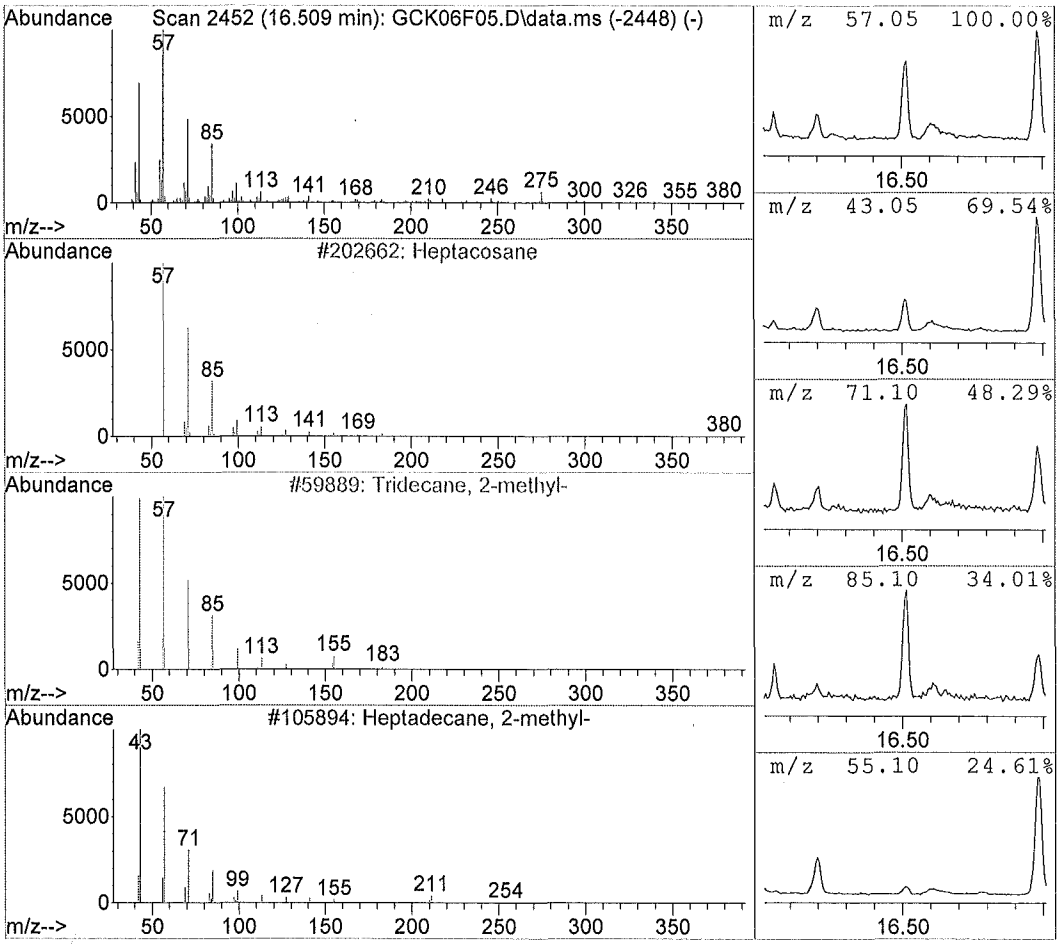
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.92 ug/ml	497794	Chrysene-d12	3412756

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	84.00
2	Tridecane, 2-methyl-	59889	001560-96-9	81.00
3	Heptadecane, 2-methyl-	105894	001560-89-0	81.00
4	Octacosane	209566	000630-02-4	76.00
5	Eicosane	129492	000112-95-8	74.00

SCA



: 00342

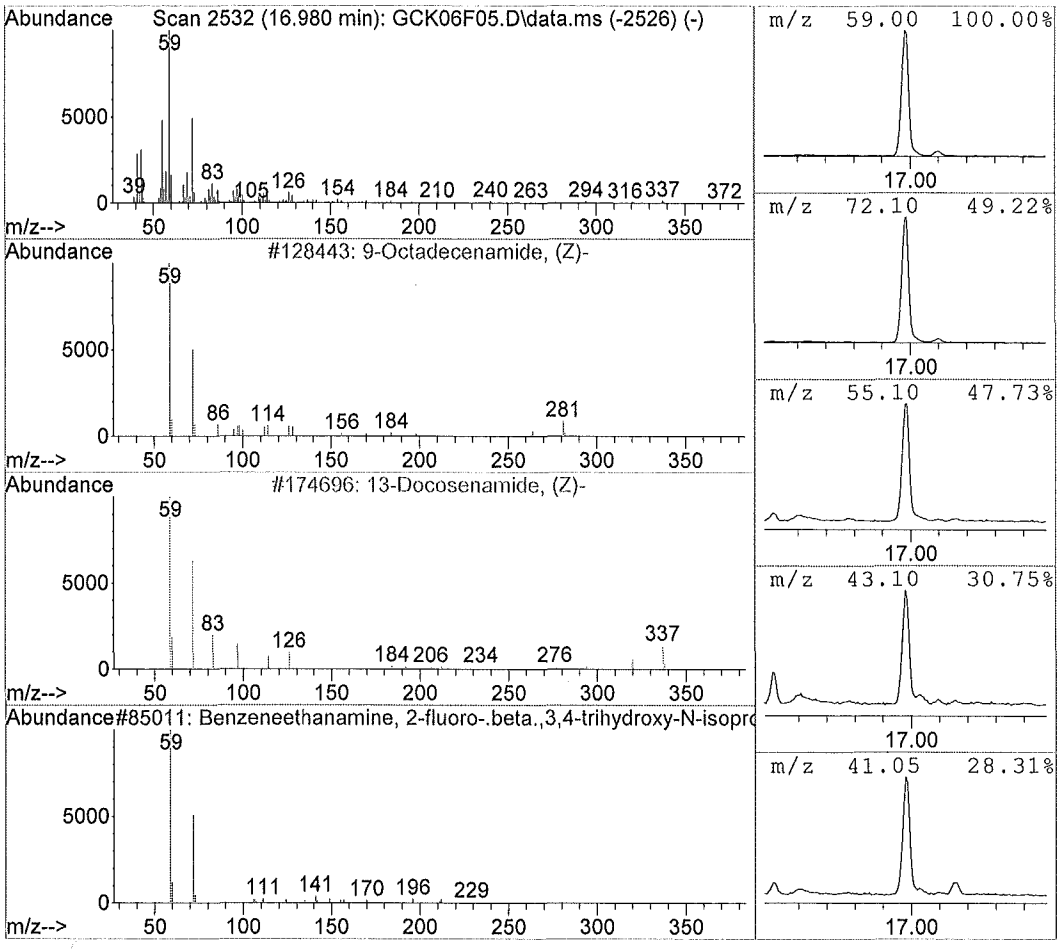
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	38.37 ug/ml	5507892	Perylene-d12	2871142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	87.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
5	Decanamide-	38977	002319-29-1	56.00



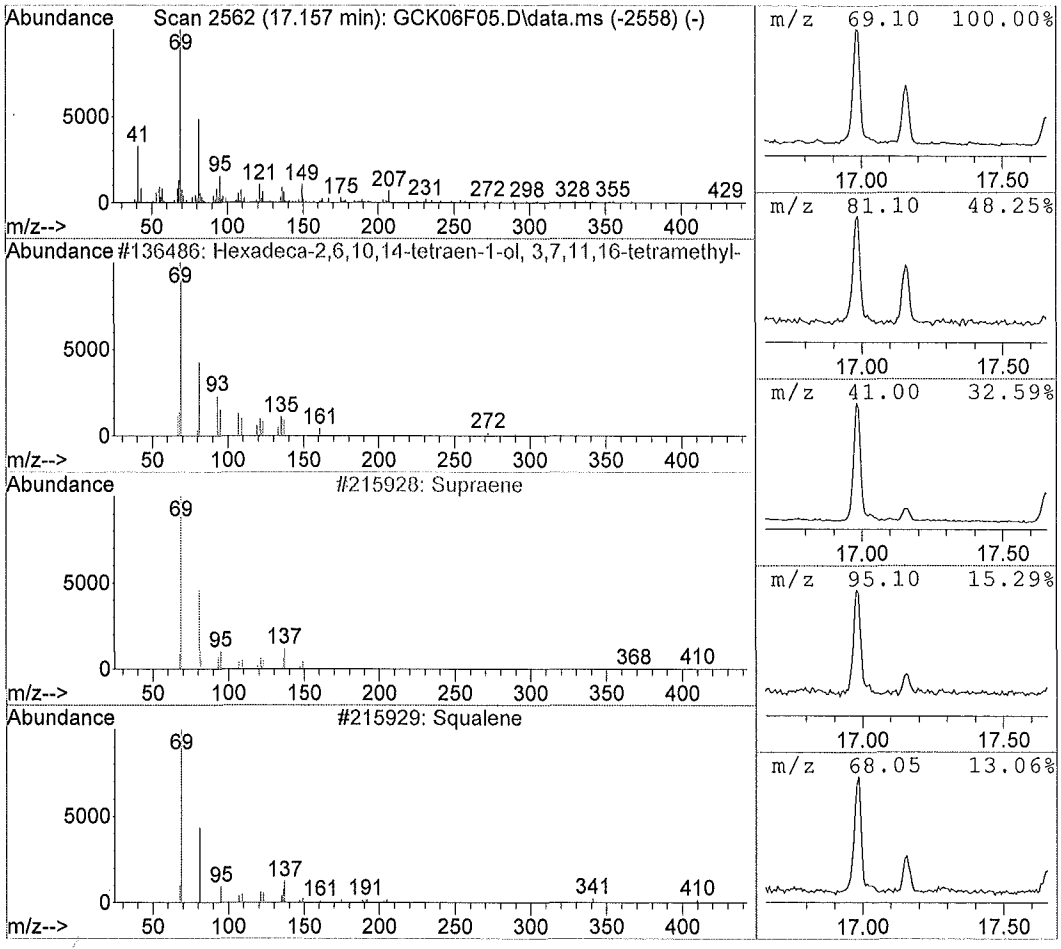
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.38 ug/ml	341353	Perylene-d12	2871142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadeca-2,6,10,14-tetraen-1-ol, 3,	136486	007614-21-3	72.00
2	Supraene	215928	007683-64-9	68.00
3	Squalene	215929	000111-02-4	64.00
4	1,5-Heptadiene, 3,3,5-trimethyl-	16933	074630-29-8	52.00
5	4-Methyl-1,5-Heptadiene	5950	000998-94-7	50.00



Library Search Compound Report

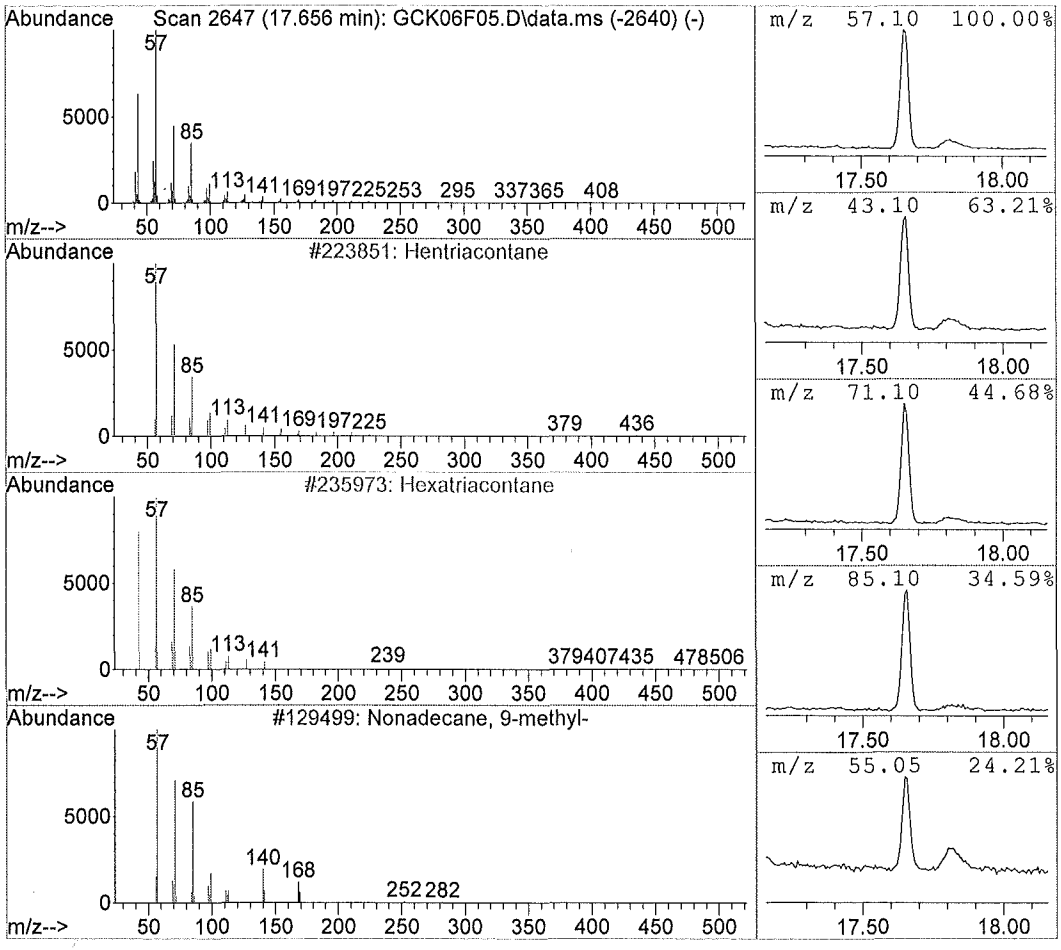
Data File : R:\G\2015\JUL15\02JUL15\GCK06F05.D Vial: 6
Acq On : 07/02/2015 13:36 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	13.31 ug/ml	1911314	Perylene-d12	2871142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	91.00
2	Hexatriacontane	235973	000630-06-8	91.00
3	Nonadecane, 9-methyl-	129499	013287-24-6	90.00
4	Heneicosane	141426	000629-94-7	90.00
5	Heneicosane, 11-decyl-	223853	055320-06-4	90.00

SCA



: 00345

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F02

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F02

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F02

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.54	150	J
02		Unknown 4-Chloro-2-butanone	3.53	88.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	4400	JB
04		Unknown 3-Hexene-2,5-dione	4.49	87.	J
05	638-58-4	Tetradecanamide	13.10	77.	JN
06		Unknown 9-Octadecenamide, (Z)-	14.31	130	JB
07	629-54-9	Hexadecanamide	14.42	230	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.32	2200	JNB
09	638-58-4	Tetradecanamide	15.41	86.	JN
10	301-02-0	9-Octadecenamide, (Z)-	16.13	82.	JNB
11		Unknown Cyclohexanecarboxamide	16.50	120	J
12	112-84-5	13-Docosenamide, (Z)-	17.34	390	JN
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

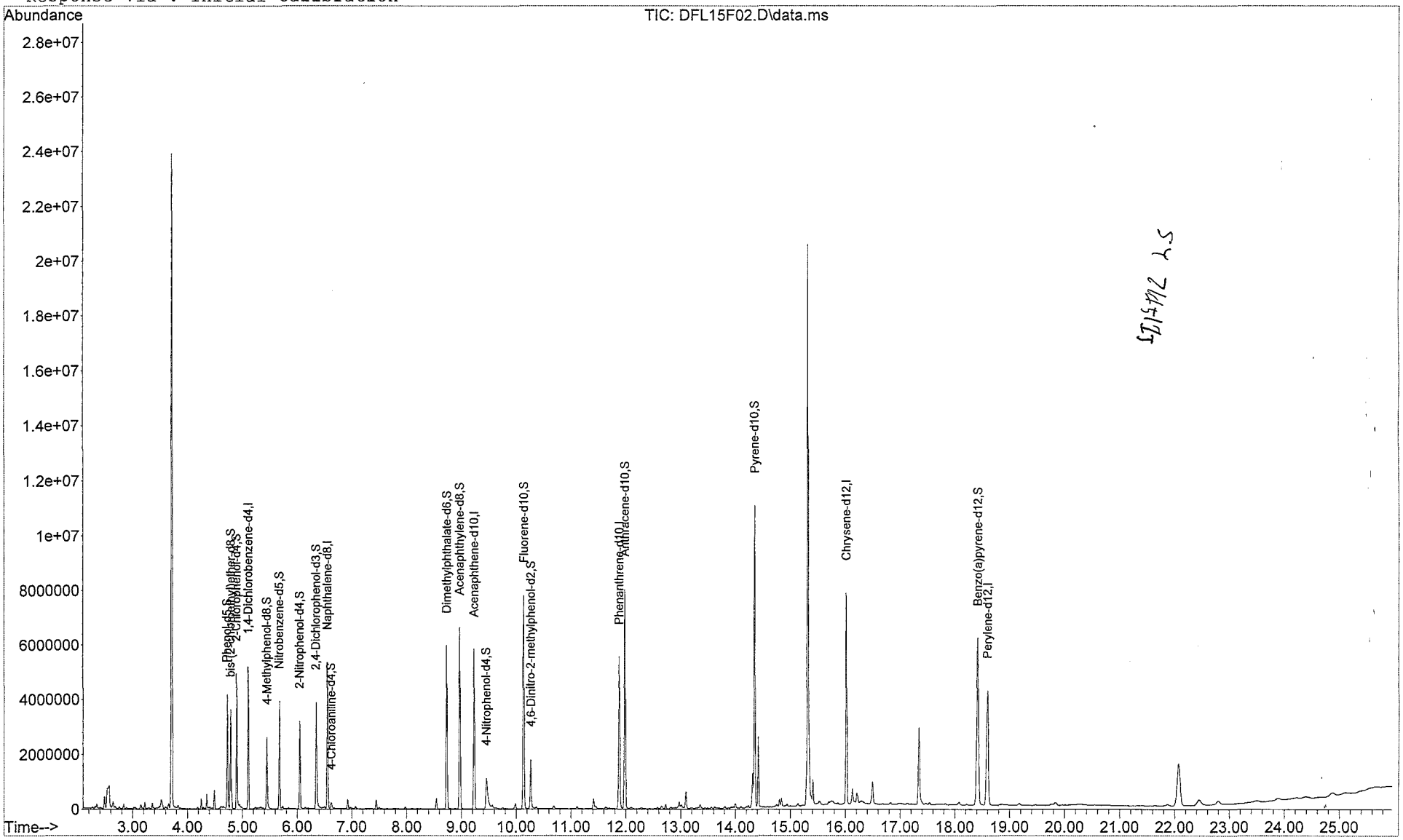
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:17:32 2015 Results File: DSOM01D5.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



DFL15F02.D GSOM01D6.M Wed Jul 15 12:56:09 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:32 2015 Results File: DSOM01D5.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	5.11	152	930807	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3178290	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1960304	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3351084	20.00 ug/ml
73) Chrysene-d12	16.02	240	3904194	20.00 ug/ml
81) Perylene-d12	18.60	264	3773589	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1536385	26.521ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	908042	21.422ug/mL
7) 2-Chlorophenol-d4	4.89	132	1413161	24.473ug/ml
13) 4-Methylphenol-d8	5.45	113	689595	15.881ug/mL
17) Nitrobenzene-d5	5.67	128	633958	24.353ug/ml
21) 2-Nitrophenol-d4	6.05	143	759189	24.593ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1238756	24.832ug/mL
28) 4-Chloroaniline-d4	6.62	131	114733	3.061ug/mL
42) Dimethylphthalate-d6	8.73	166	3737459	30.923ug/mL
45) Acenaphthylene-d8	8.97	160	4399105	27.642ug/mL
50) 4-Nitrophenol-d4	9.46	143	571933	28.491ug/mL
57) Fluorene-d10	10.14	176	3186219	29.834ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	485805	22.956ug/mL
69) Anthracene-d10	11.98	188	5387839	31.383ug/mL
75) Pyrene-d10	14.35	212	5399560	32.841ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5487116	31.774ug/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)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:17:32 2015 Results File: DSOM01D5.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)

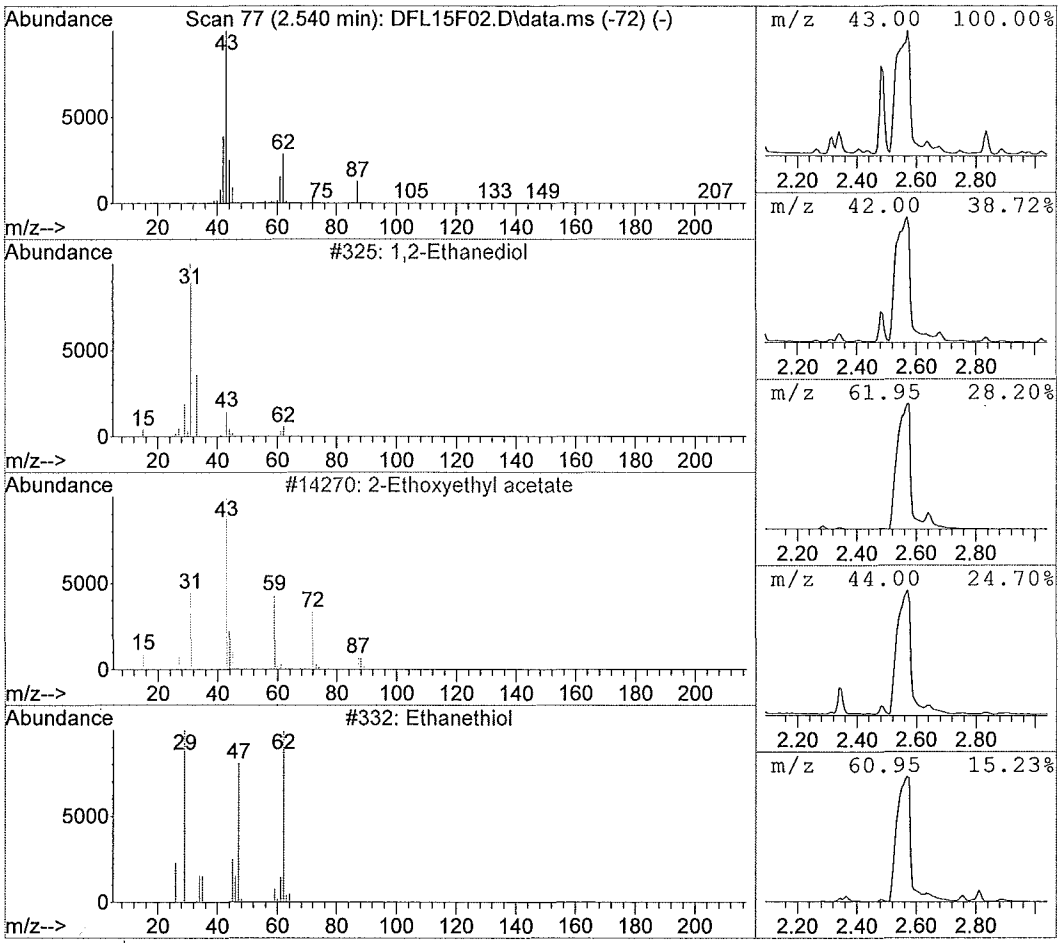
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.54	3.94 ug/ml	1081016	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	2-Ethoxyethyl acetate	14270	000111-15-9	9.00
3	Ethanethiol	332	000075-08-1	5.00
4	Peroxide, dimethyl	330	000690-02-8	4.00
5	Ethene, chloro-	323	000075-01-4	4.00



: 000352

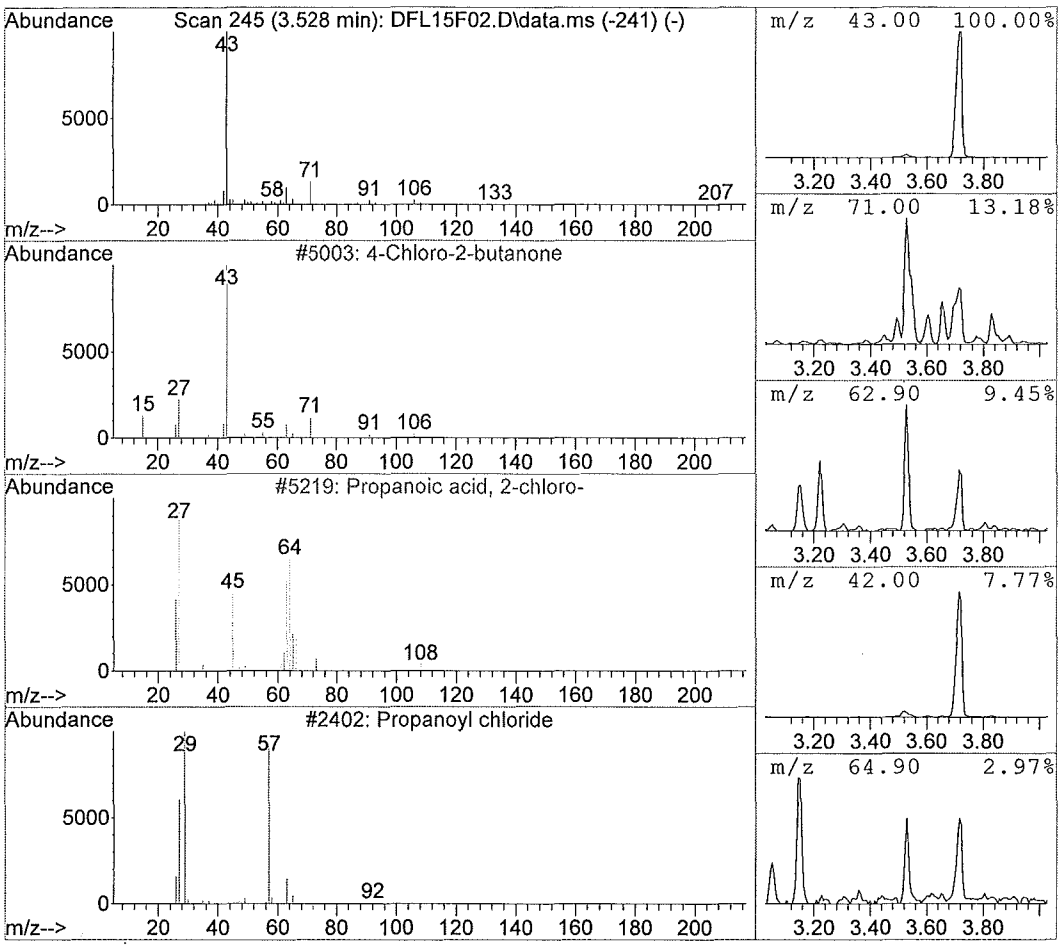
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.31 ug/ml	634396	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	72.00
2	Propanoic acid, 2-chloro-	5219	000598-78-7	9.00
3	Propanoyl chloride	2402	000079-03-8	9.00
4	Diacetyl sulphide	8654	003232-39-1	9.00
5	2-Hexanone, 3-methyl-	7499	002550-21-2	9.00



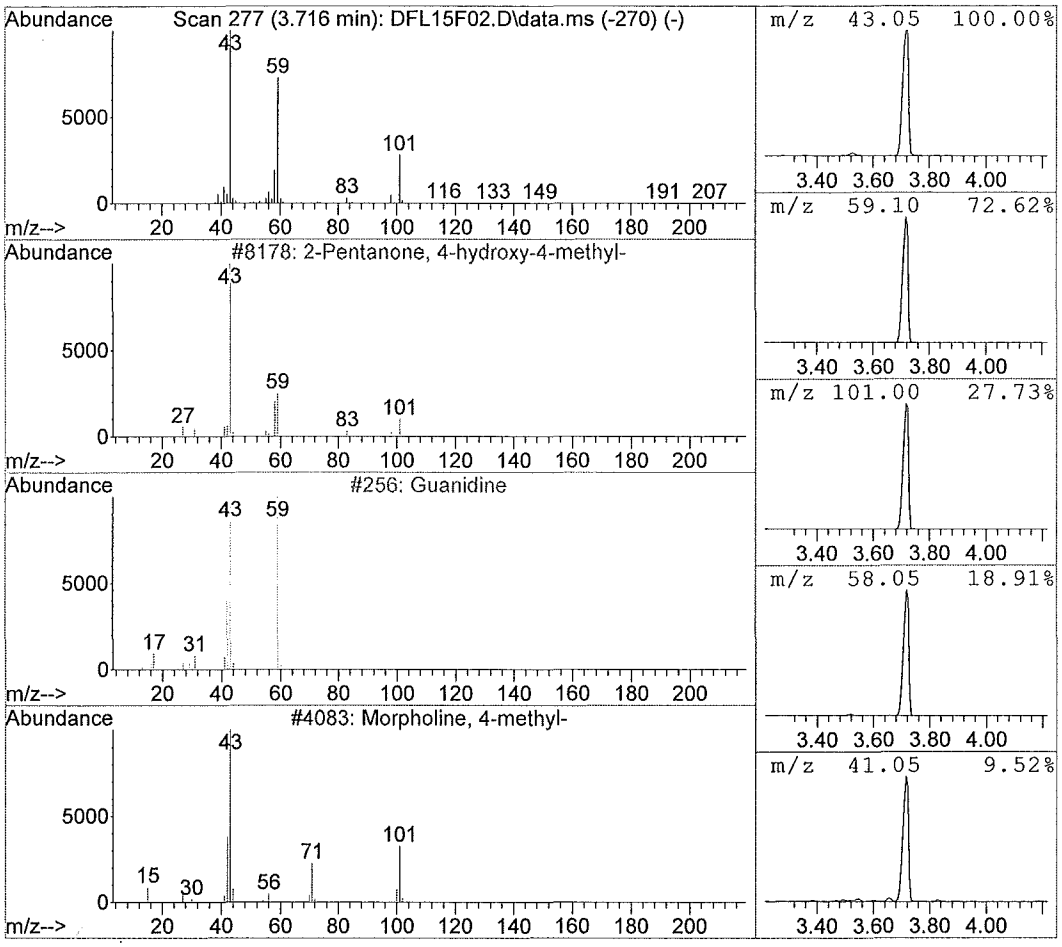
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	115.23 ug/ml	31644923	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	43.00
3	Morpholine, 4-methyl-	4083	000109-02-4	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



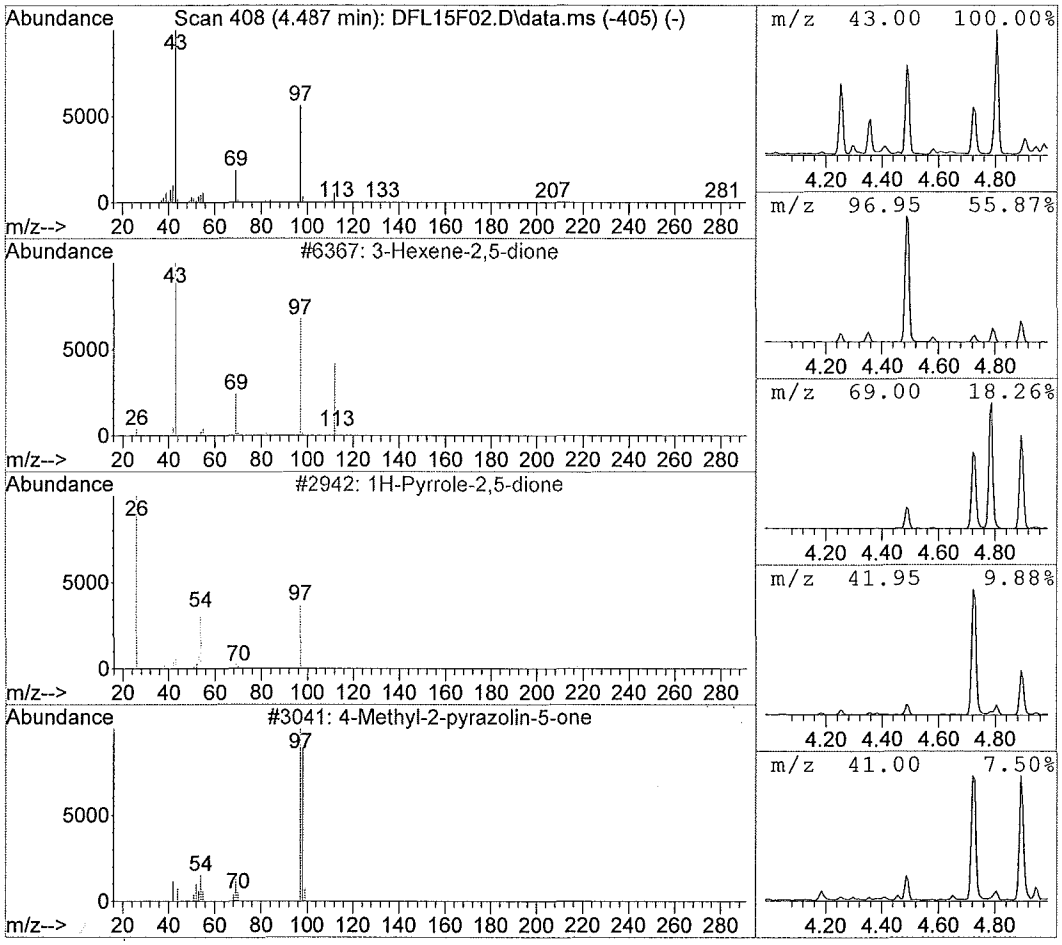
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.27 ug/ml	623894	1,4-Dichlorobenzene-d4	5492509

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	45.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	5-Hexen-2-one	3152	000109-49-9	10.00
5	2-Cyclohexen-1-ol, 1-methyl-	6571	023758-27-2	9.00



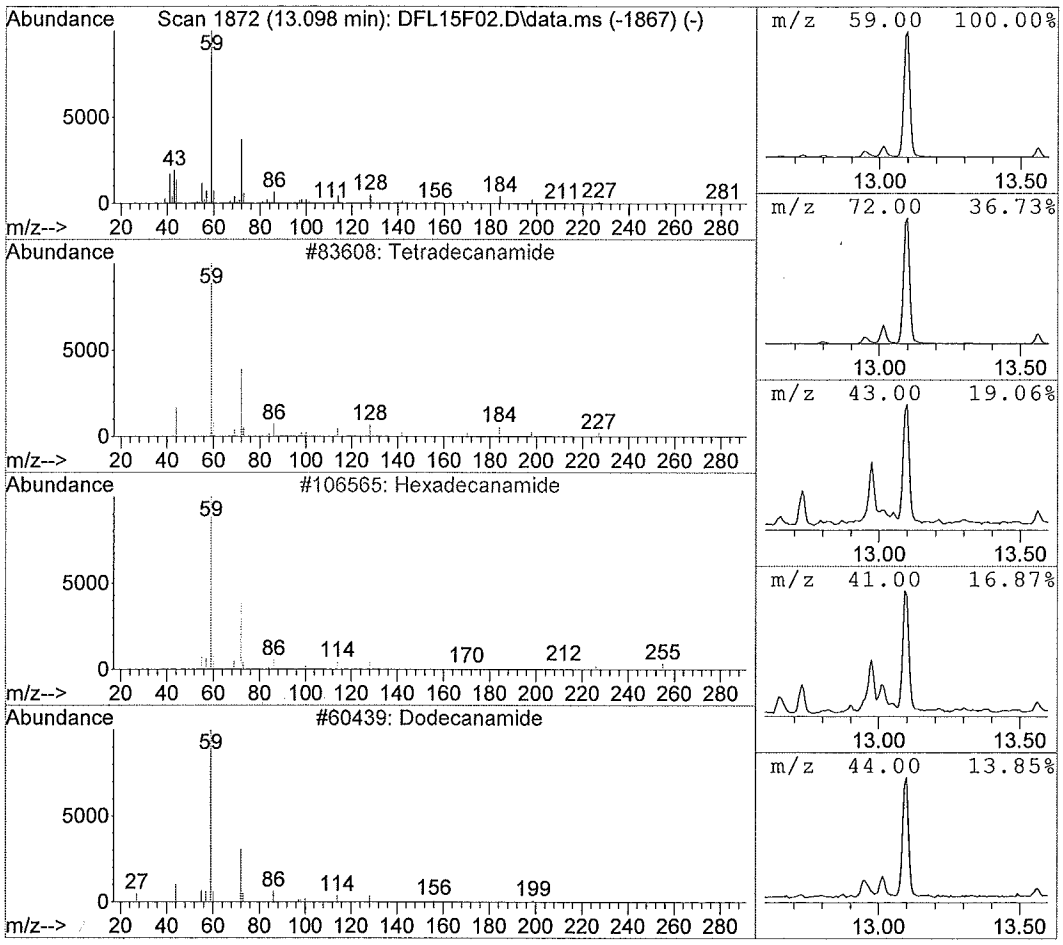
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.10	2.02 ug/ml	837362	Phenanthrene-d10	8277243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	96.00
2	Hexadecanamide	106565	000629-54-9	91.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	Nonanamide	29478	001120-07-6	78.00



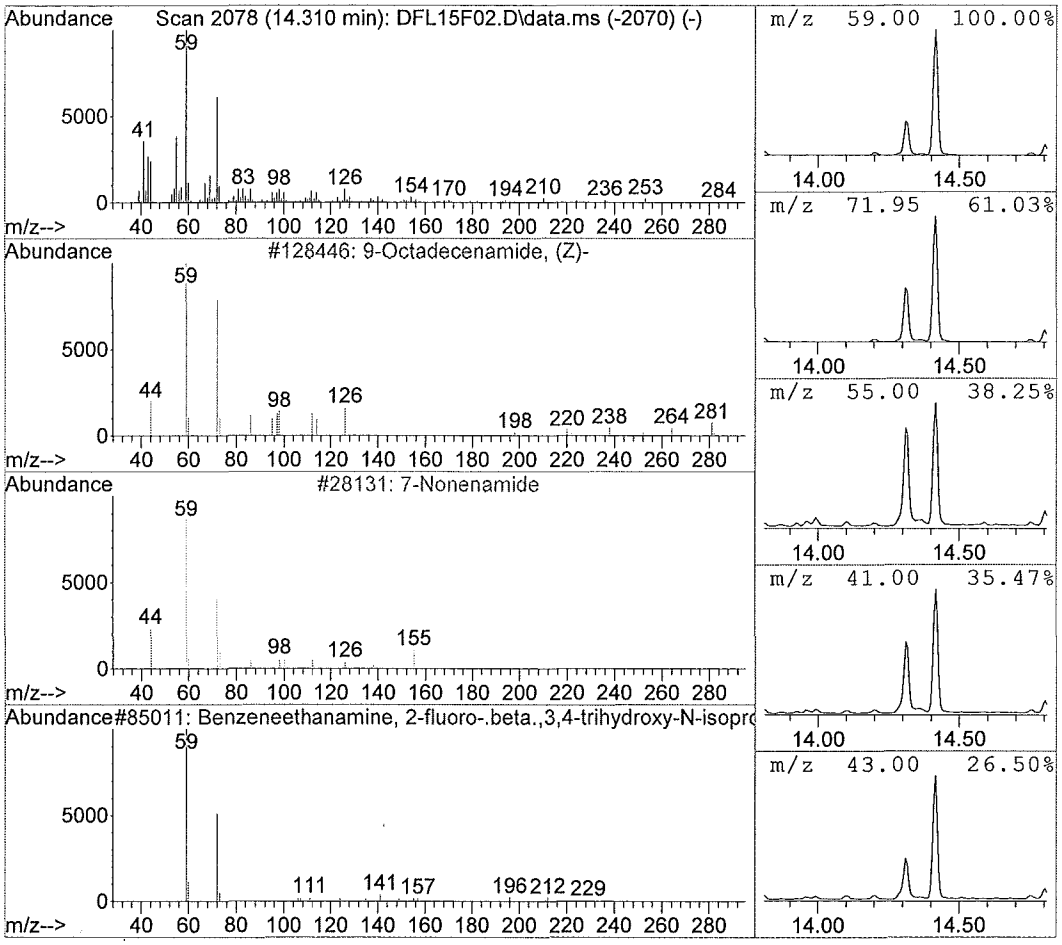
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	3.29 ug/ml	1647388	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
4	Hexanamide	7793	000628-02-4	59.00
5	Hexadecanamide	106565	000629-54-9	53.00



: 00357

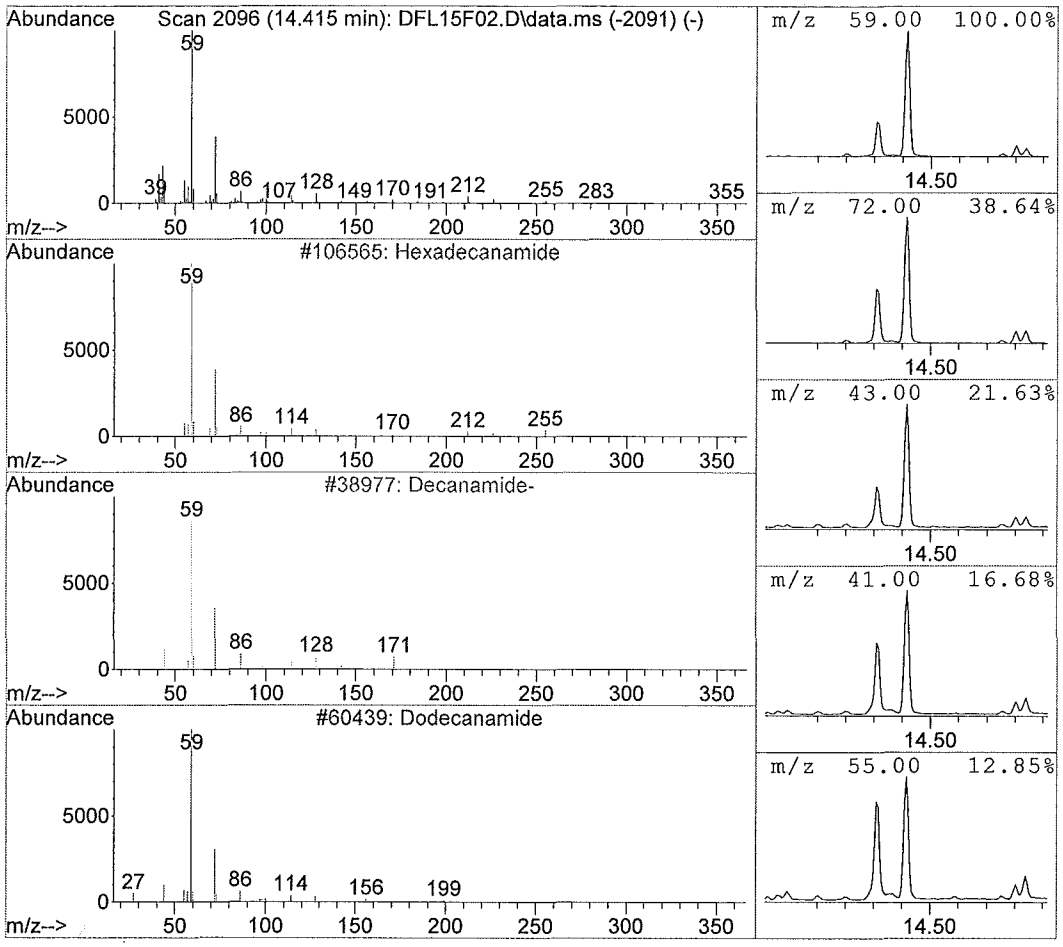
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.93 ug/ml	2964965	Chrysene-d12	10005947

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	Dodecanamide	60439	001120-16-7	90.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Octanamide	20317	000629-01-6	64.00



00358

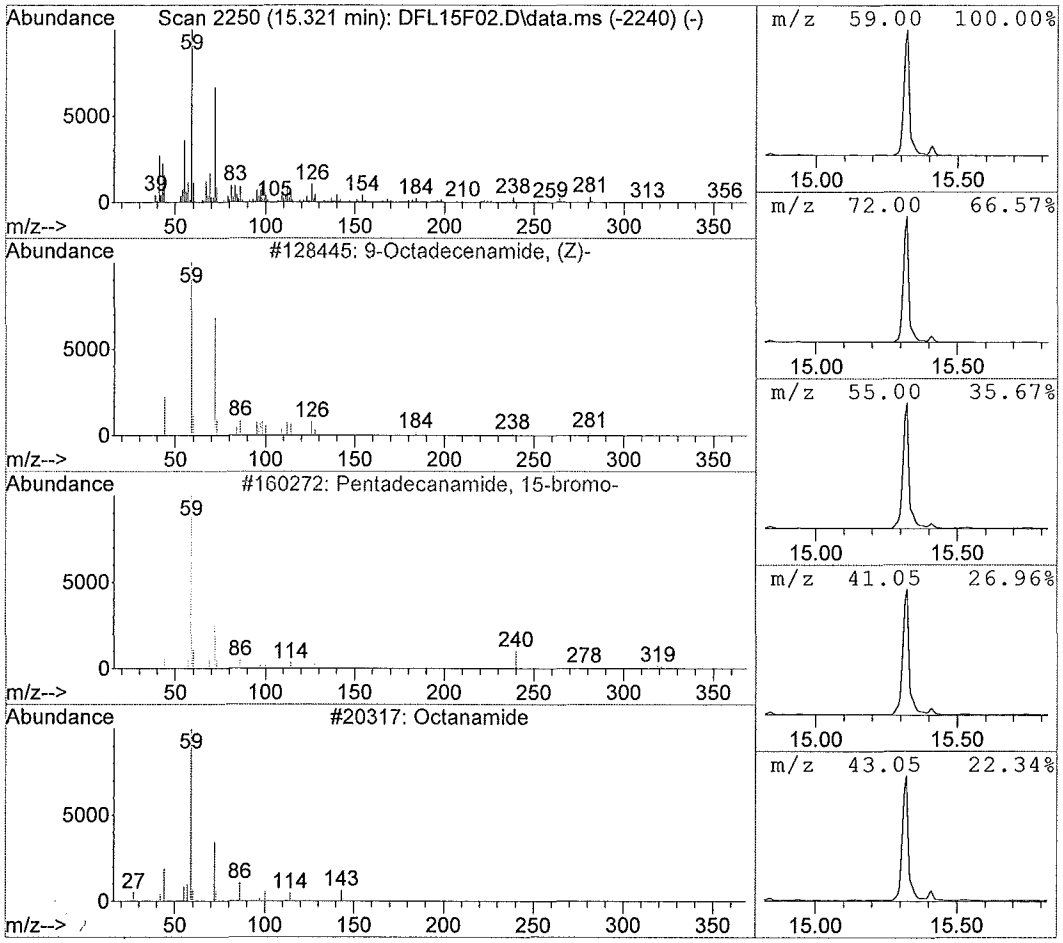
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	57.45 ug/ml	28739976	Chrysene-d12	10005947

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	64.00
3	Octanamide	20317	000629-01-6	53.00
4	Nonanamide	29478	001120-07-6	53.00
5	Dodecanamide	60440	001120-16-7	53.00



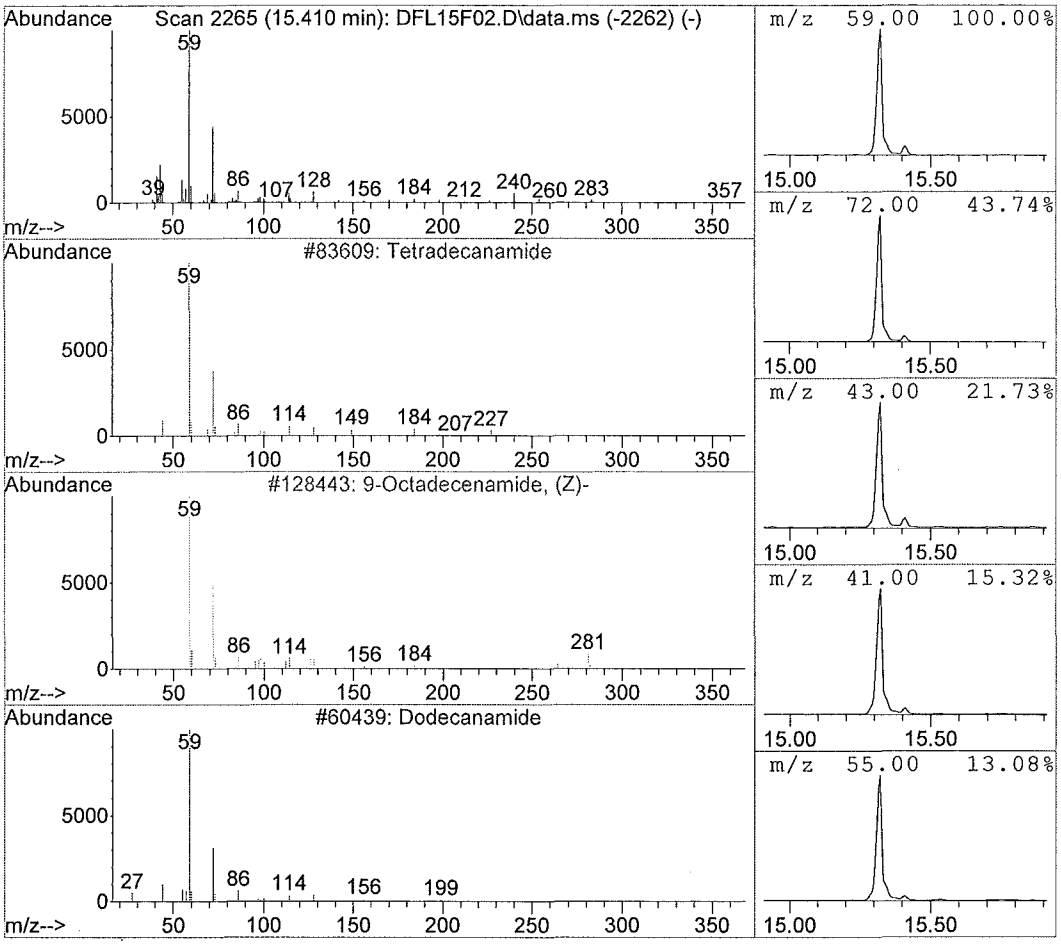
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.25 ug/ml	1125717	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	86.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Octadecanamide	130204	000124-26-5	74.00
5	Nonadecanamide	142051	058185-32-3	64.00



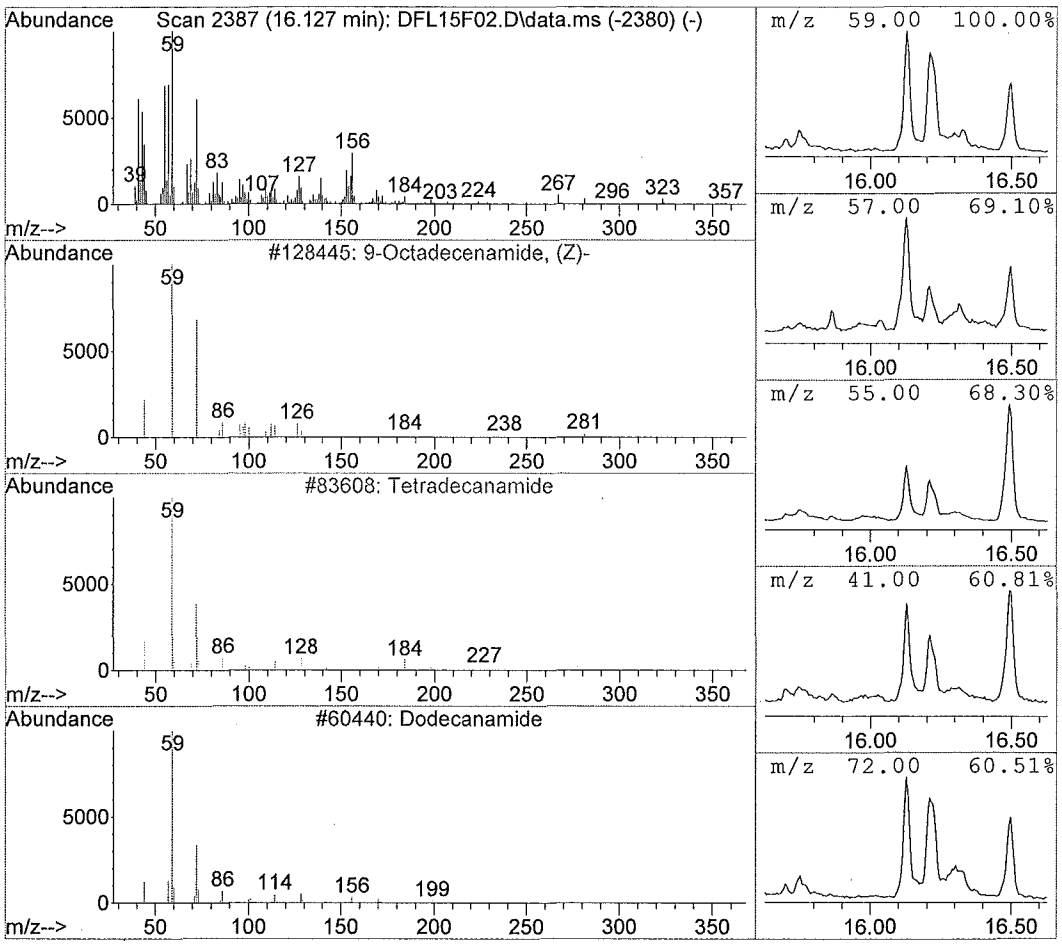
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.14 ug/ml	1072929	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Tetradecanamide	83608	000638-58-4	60.00
3	Dodecanamide	60440	001120-16-7	43.00
4	Cyclohexanecarboxamide	11823	001122-56-1	38.00
5	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	38.00



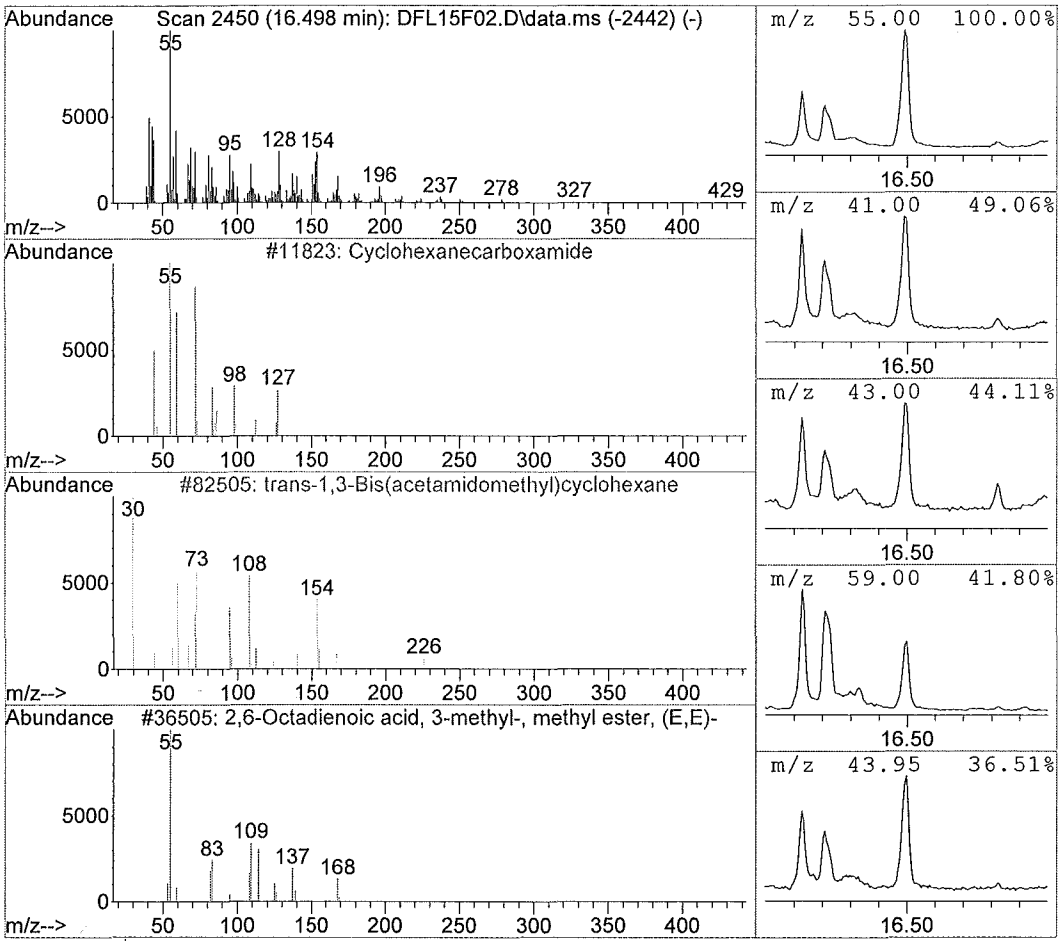
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.26 ug/ml	1632958	Chrysene-d12	10005947

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	14.00
2	trans-1,3-Bis(acetamidomethyl)cyclo	82505	070924-82-2	12.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
4	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
5	1-Decalone (cis-trans)	25124	004832-16-0	9.00



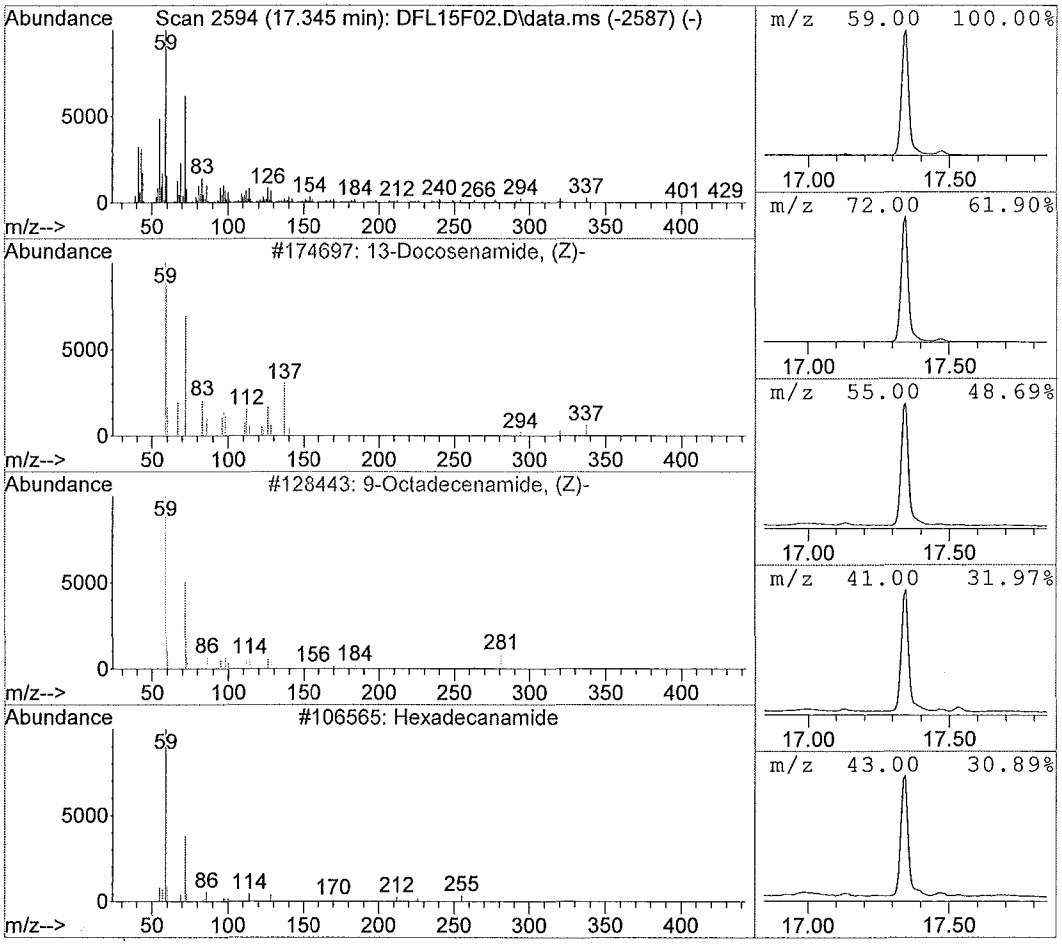
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL15F02.D Vial: 15
Acq On : 05/27/2015 16:39 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	10.17 ug/ml	4931865	Perylene-d12	9698268

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Hexadecanamide	106565	000629-54-9	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	Tetradecanamide	83610	000638-58-4	64.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL08F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL08F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

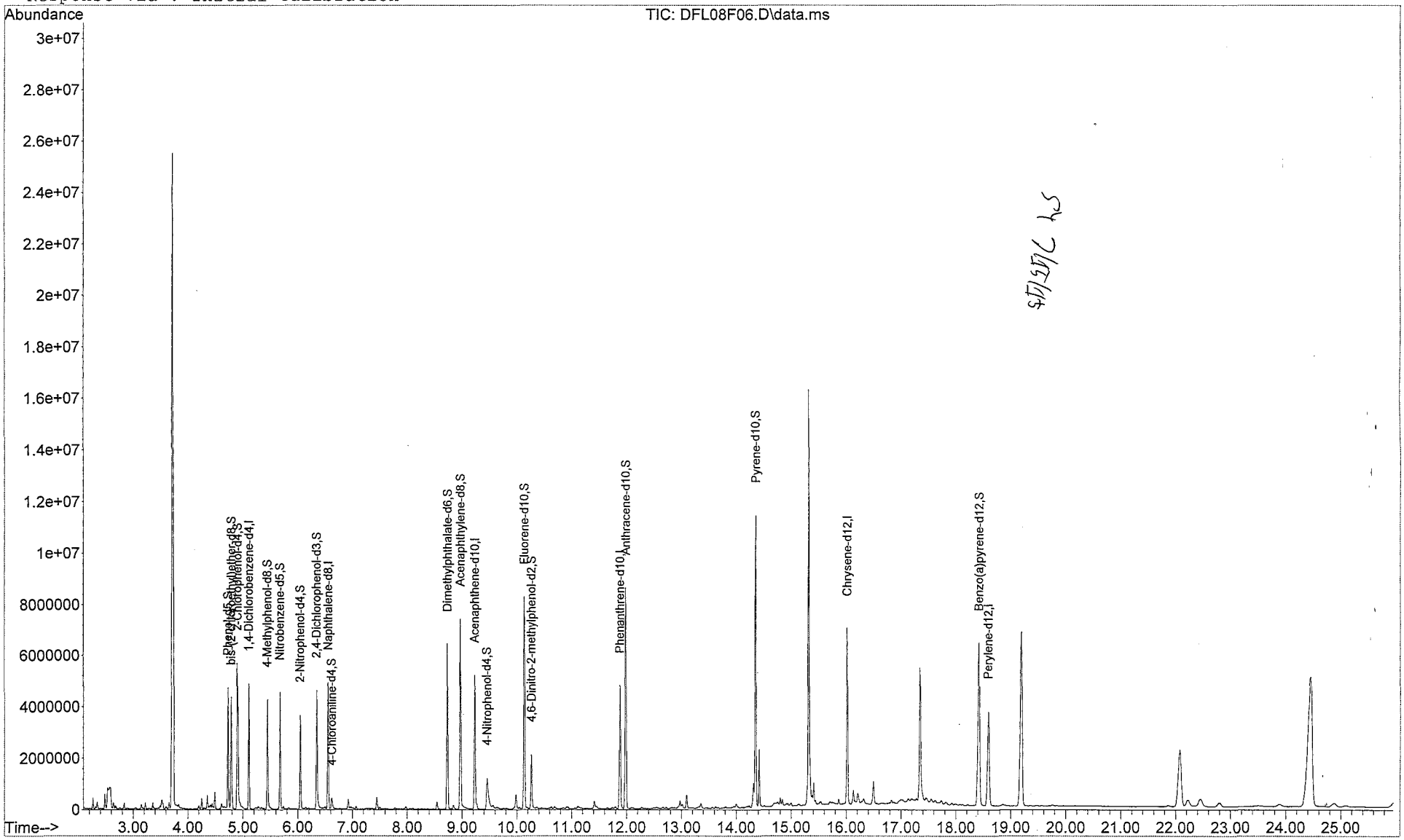
[1] Cannot be separated from Diphenylamine

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:14:34 2015 Results File: DSOM01D5.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



7/15/15 KS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:34 2015 Results File: DSOM01D5.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	5.11	152	870632	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2867072	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1743620	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2983965	20.00 ug/ml
73) Chrysene-d12	16.02	240	3459227	20.00 ug/ml
81) Perylene-d12	18.59	264	3282705	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1673956	30.893ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1082520	27.303ug/mL
7) 2-Chlorophenol-d4	4.90	132	1627684	30.136ug/ml
13) 4-Methylphenol-d8	5.45	113	1058659	26.065ug/mL
17) Nitrobenzene-d5	5.67	128	729813	31.079ug/ml
21) 2-Nitrophenol-d4	6.05	143	866158	31.103ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1380213	30.670ug/mL
28) 4-Chloroaniline-d4	6.62	131	224967	6.654ug/mL
42) Dimethylphthalate-d6	8.73	166	3992819	37.141ug/mL
45) Acenaphthylene-d8	8.97	160	4877789	34.459ug/mL
50) 4-Nitrophenol-d4	9.46	143	598162	33.501ug/mL
57) Fluorene-d10	10.14	176	3422134	36.025ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	558323	29.629ug/mL
69) Anthracene-d10	11.98	188	5621494	36.772ug/mL
75) Pyrene-d10	14.35	212	5657868	38.839ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5604903	37.309ug/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)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:34 2015 Results File: DSOM01D5.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)

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL08F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	78-95-5	2-Propanone, 1-chloro-	2.48	92.	JNB
02		Unknown 3-Pyrrolidinol	2.53	180	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	6400	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.49	100	J
05		Unknown Benzene, 1-chloro-4-methoxy-2-methyl-	7.45	80.	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	110	JB
07	301-02-0	9-Octadecenamide, (Z)-	14.31	110	JNB
08	629-54-9	Hexadecanamide	14.42	230	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.32	1900	JNB
10		Unknown Cyclohexanecarboxamide	16.50	130	J
11	112-84-5	13-Docosenamide, (Z)-	17.34	860	JN
12		Unknown Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	19.20	1600	J
13		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	800	J
14	502-73-8	16-Hentriacontanone	22.22	90.	JN
15		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	22.45	120	J
16		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	24.45	2600	J
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.

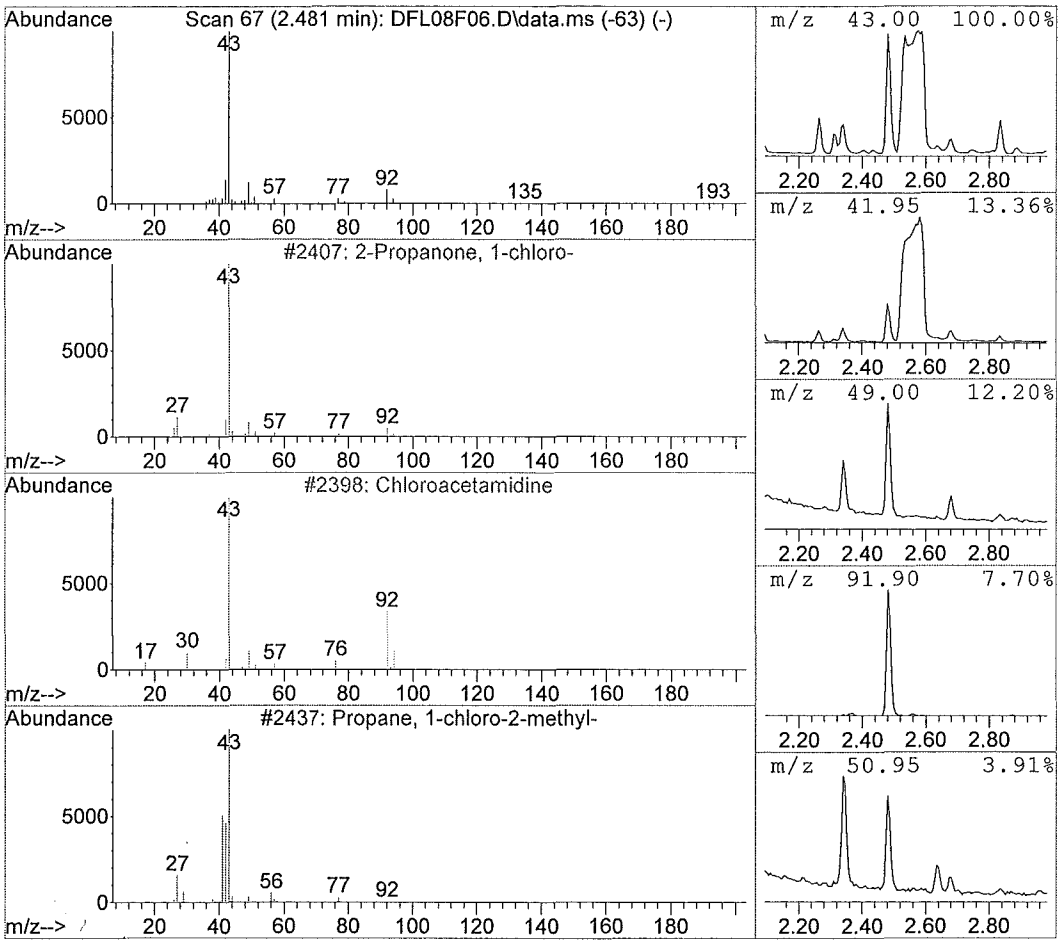
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.48	2.37 ug/ml	607945	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00
5	Acetyl chloride	990	000075-36-5	9.00



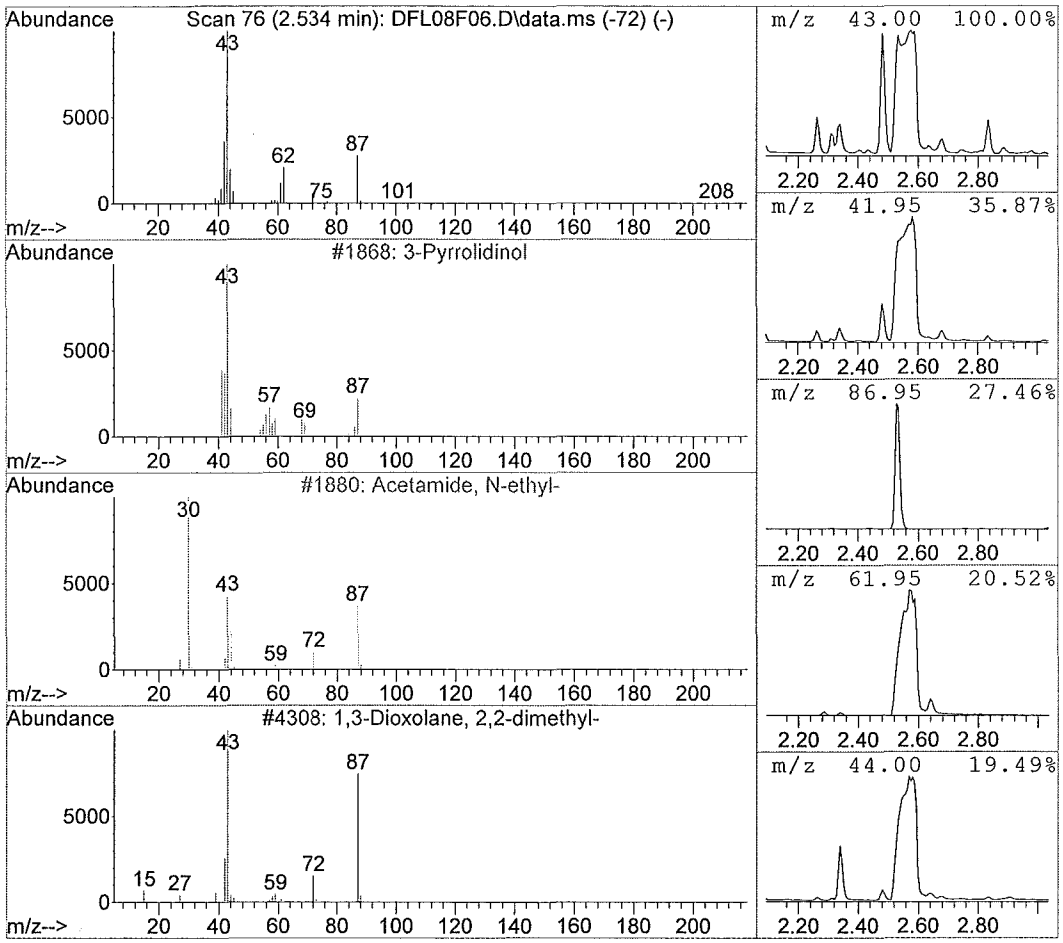
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.53	4.57 ug/ml	1172177	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	1868	040499-83-0	12.00
2	Acetamide, N-ethyl-	1880	000625-50-3	10.00
3	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
4	Glyceraldehyde	2253	000056-82-6	9.00
5	Ethanethiol	332	000075-08-1	7.00



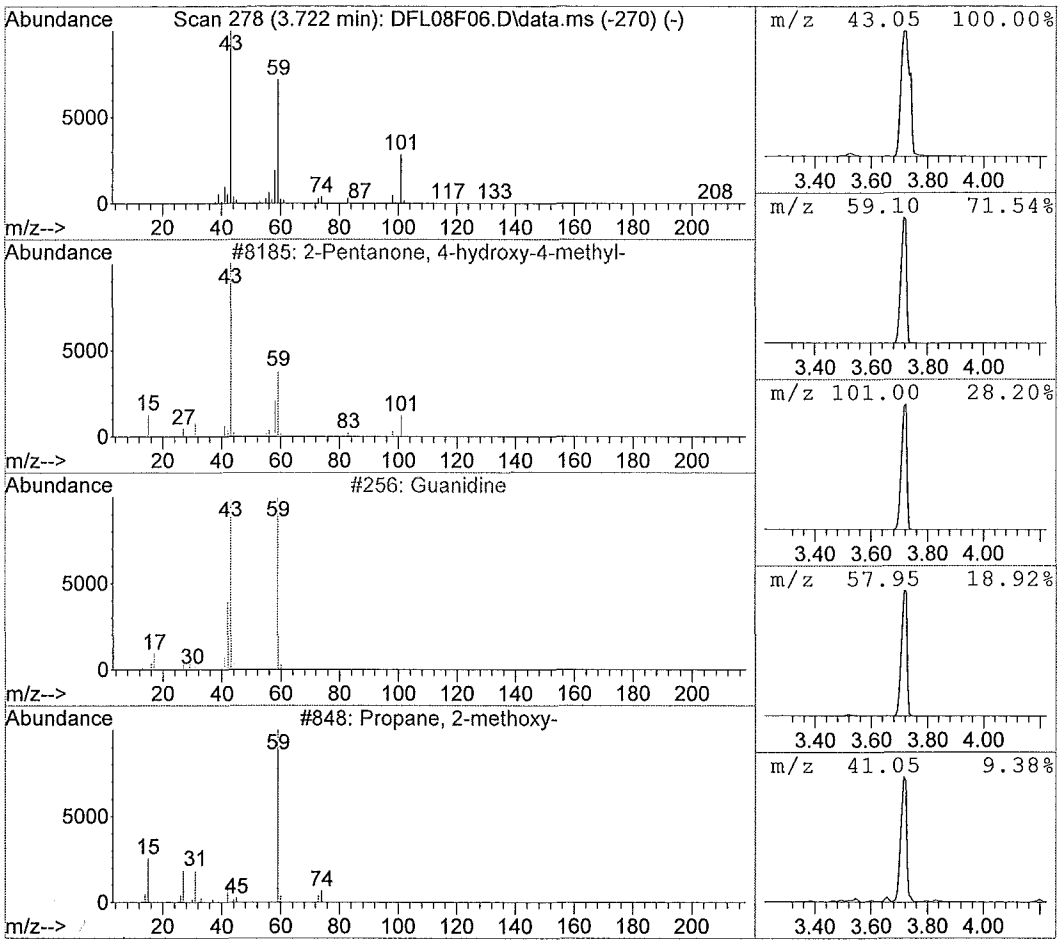
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	164.77 ug/ml	42229210	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	47.00
2	Guanidine	256	000113-00-8	43.00
3	Propane, 2-methoxy-	848	000598-53-8	35.00
4	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	35.00
5	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	25.00



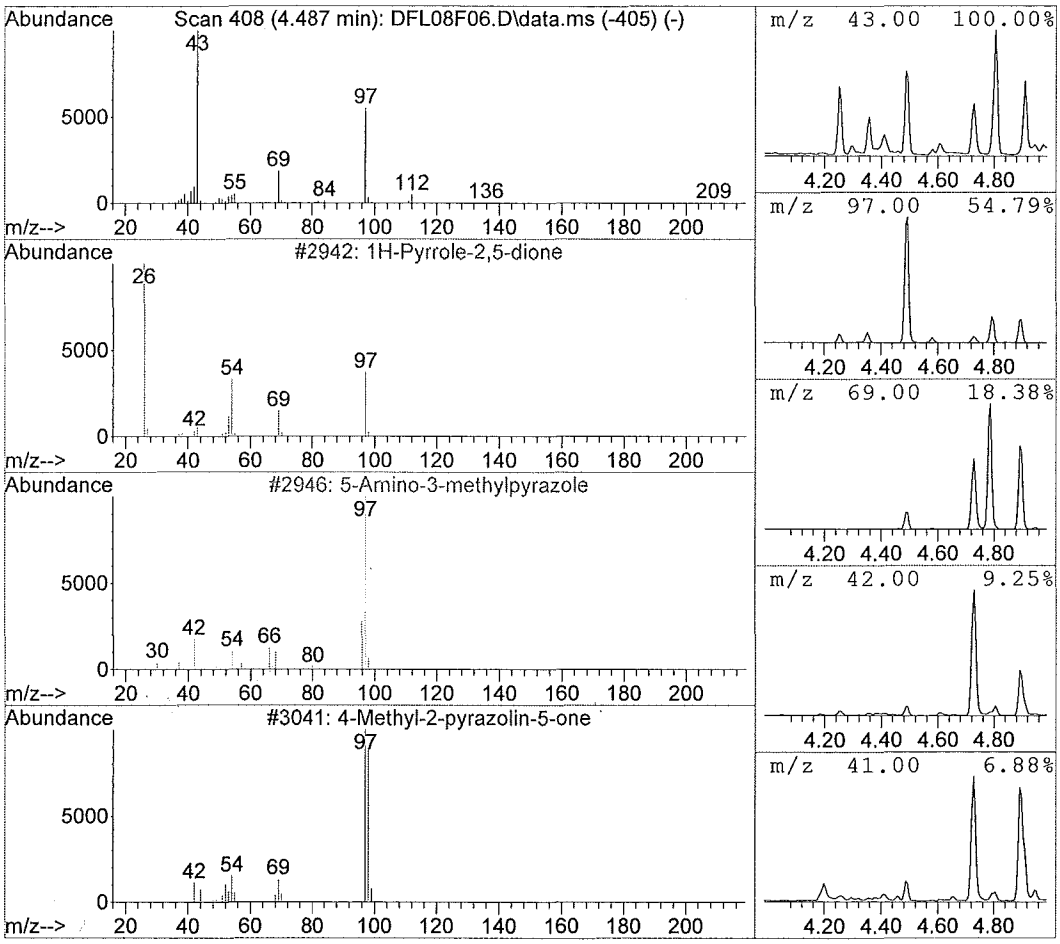
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.66 ug/ml	681474	1,4-Dichlorobenzene-d4	5125725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00



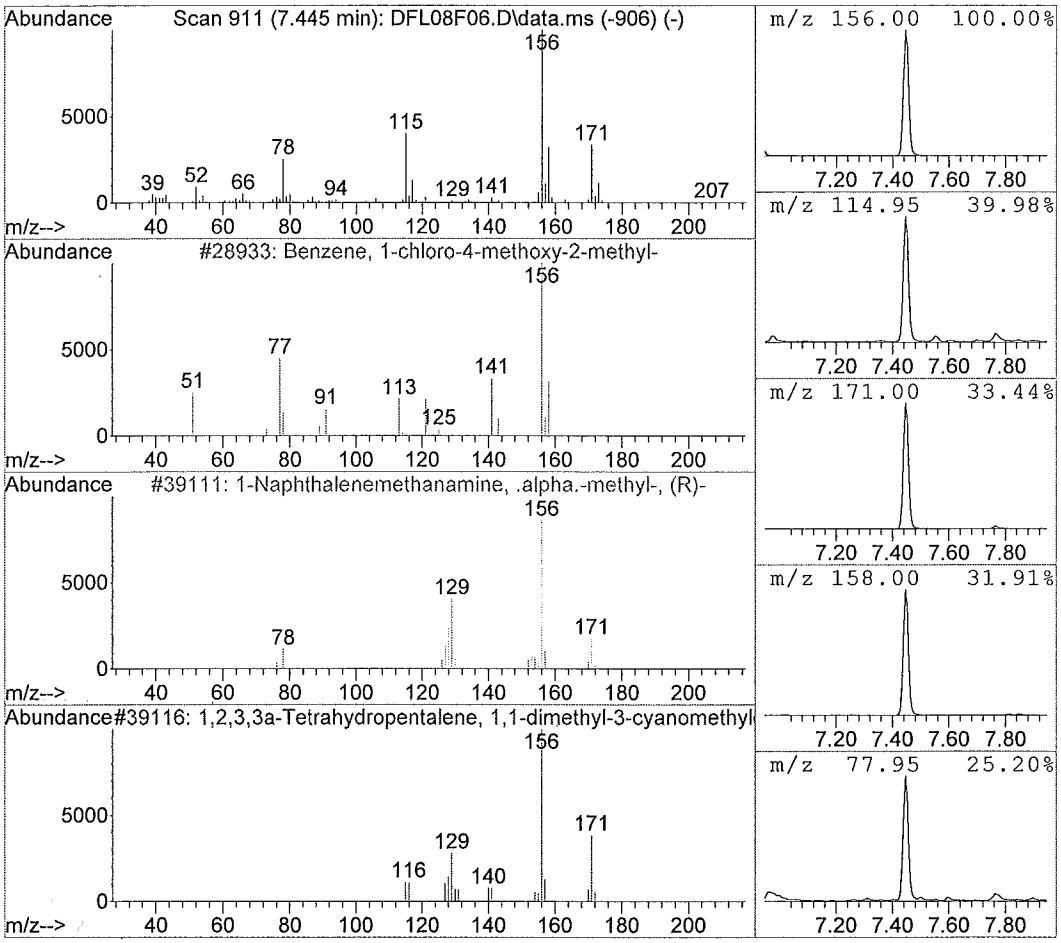
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.45	2.05 ug/ml	618142	Naphthalene-d8	6025041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-chloro-4-methoxy-2-methy	28933	013334-71-9	43.00
2	1-Naphthalenemethanamine, .alpha.-m	39111	003886-70-2	43.00
3	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	43.00
4	2,2'-Bipyridine	28390	000366-18-7	38.00
5	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	38.00



: 000374

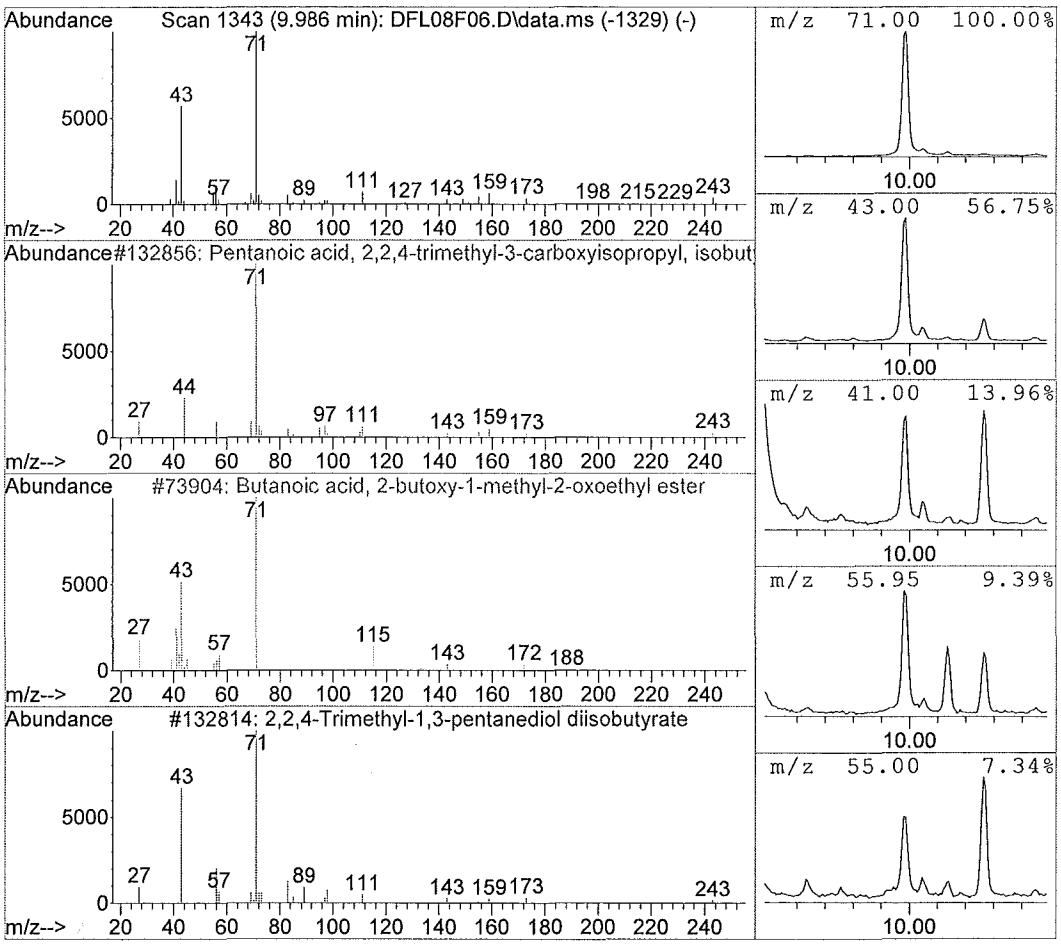
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.72 ug/ml	965288	Acenaphthene-d10	7096549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	59.00
3	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	50.00
4	Decane, 3,3,8-trimethyl-	48906	062338-16-3	45.00
5	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00



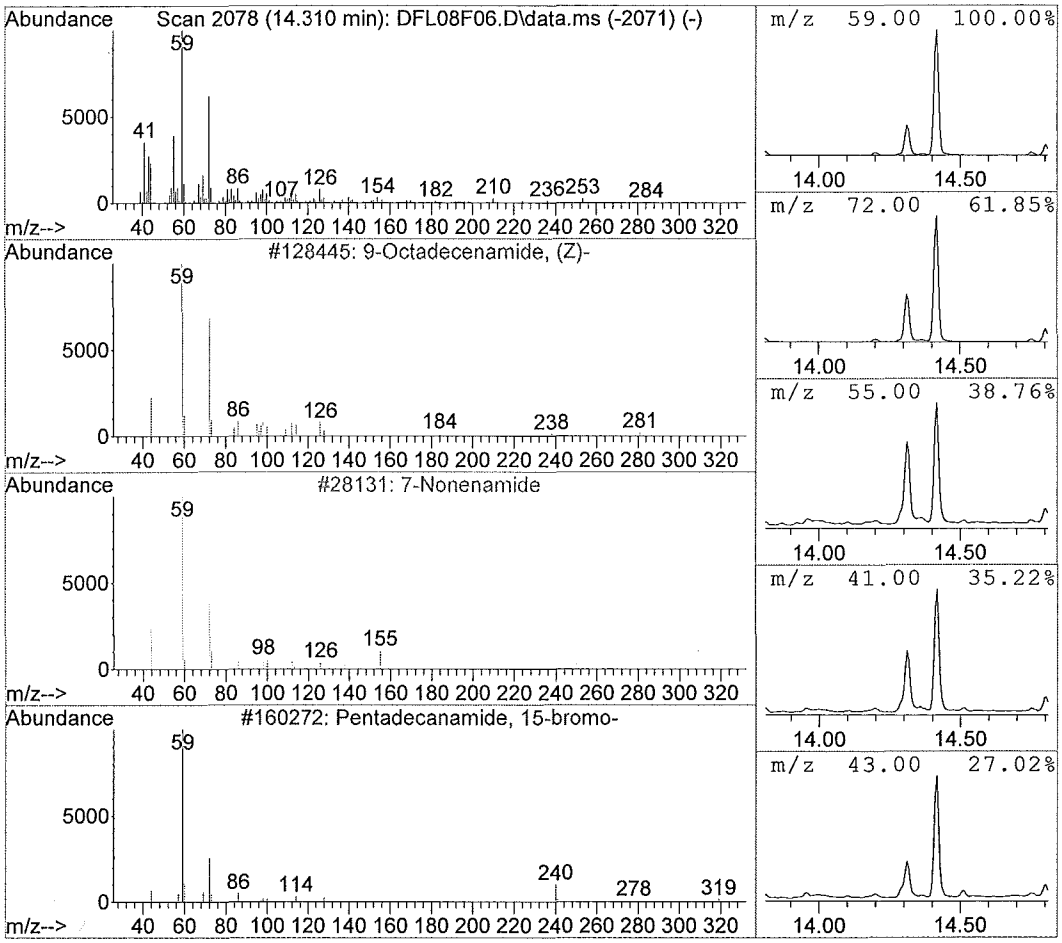
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.89 ug/ml	1301379	Chrysene-d12	8990537

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Octanamide	20317	000629-01-6	59.00
5	Dodecanamide	60439	001120-16-7	53.00



: 00376

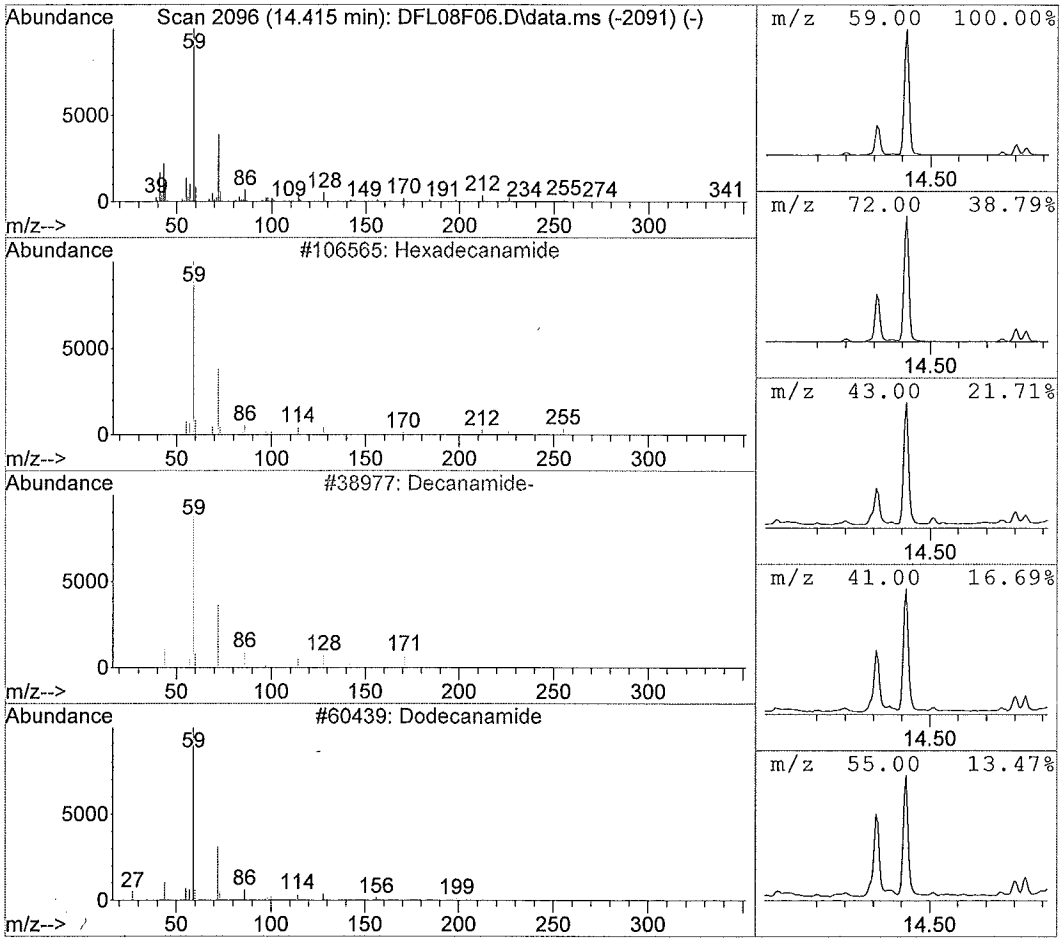
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.81 ug/ml	2612897	Chrysene-d12	8990537

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	Dodecanamide	60439	001120-16-7	86.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Nonanamide	29478	001120-07-6	59.00



: 00377

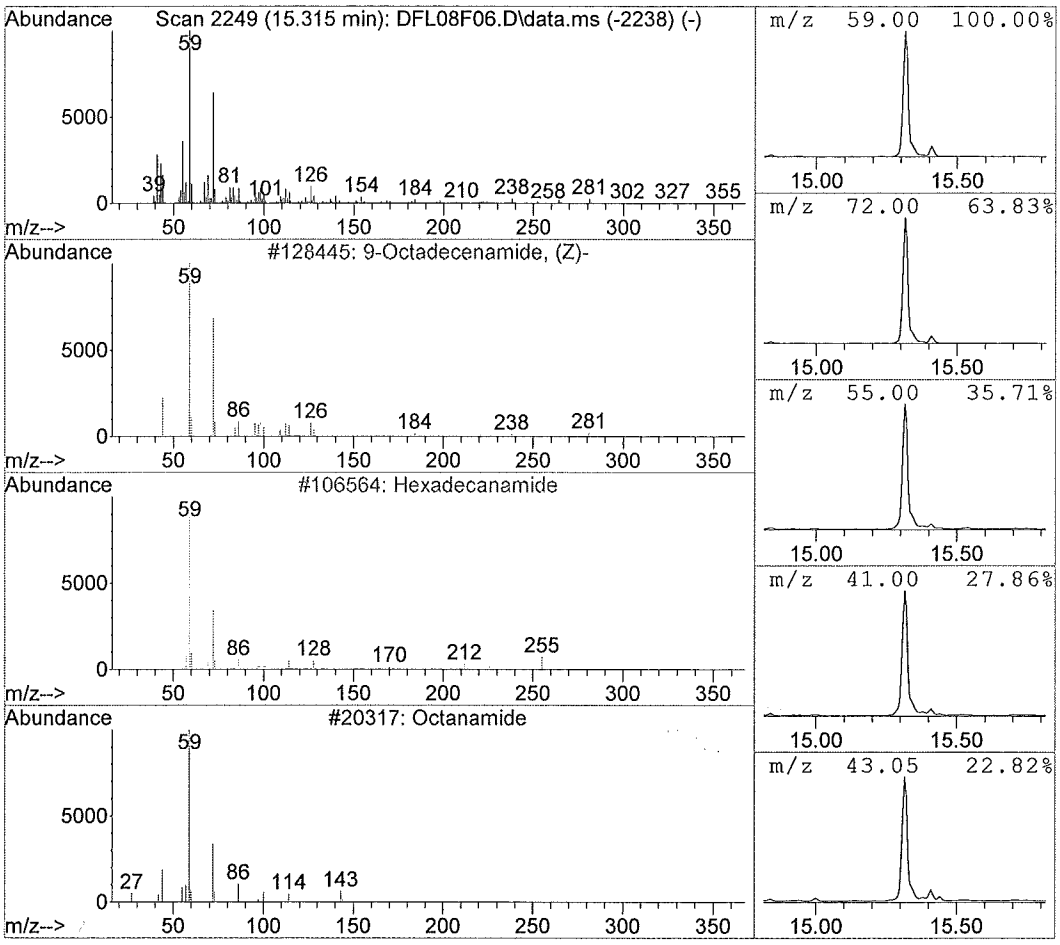
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	48.52 ug/ml	21811363	Chrysene-d12	8990537

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	64.00
3	Octanamide	20317	000629-01-6	53.00
4	Tetradecanamide	83609	000638-58-4	50.00
5	Dodecanamide	60440	001120-16-7	42.00



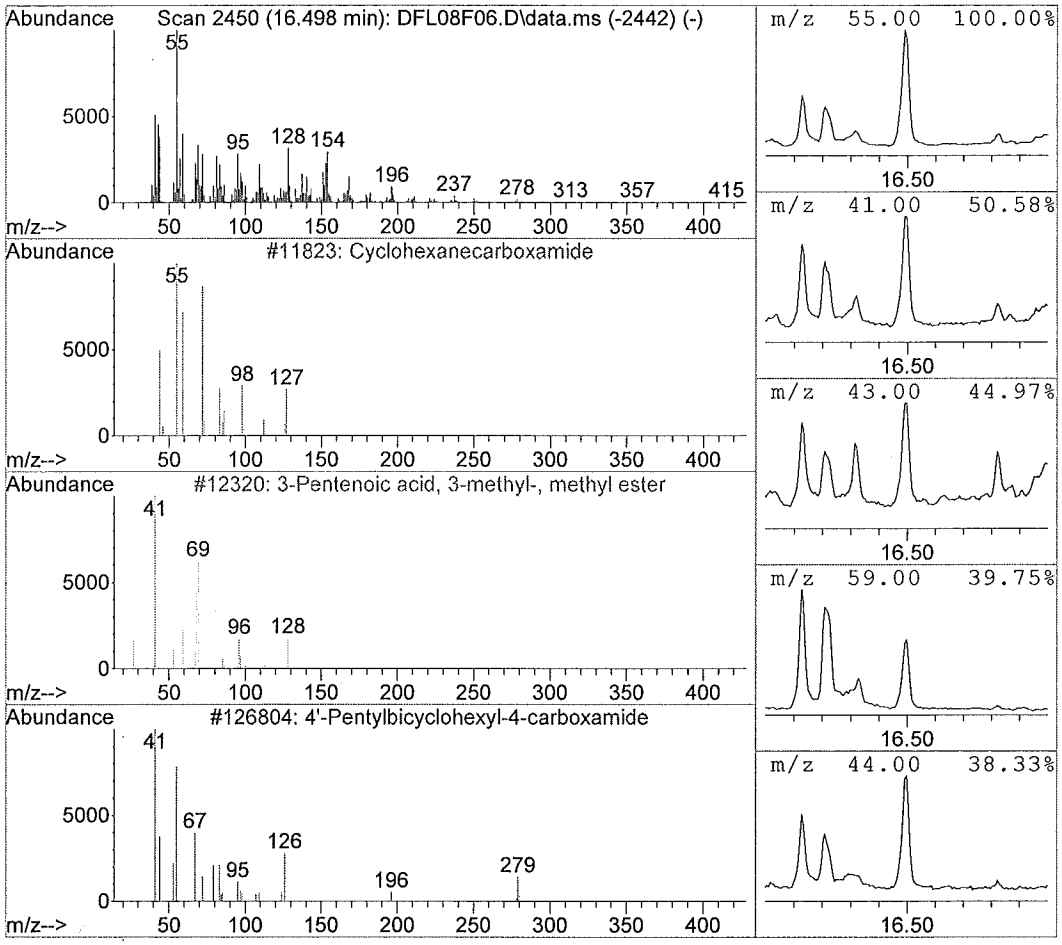
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	3.43 ug/ml	1543306	Chrysene-d12	8990537

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	3-Pentenoic acid, 3-methyl-, methyl	12320	002258-58-4	14.00
3	4'-Pentylbicyclohexyl-4-carboxamide	126804	068077-63-4	12.00
4	3-Pentenoic acid, methyl ester	7256	000818-58-6	11.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00



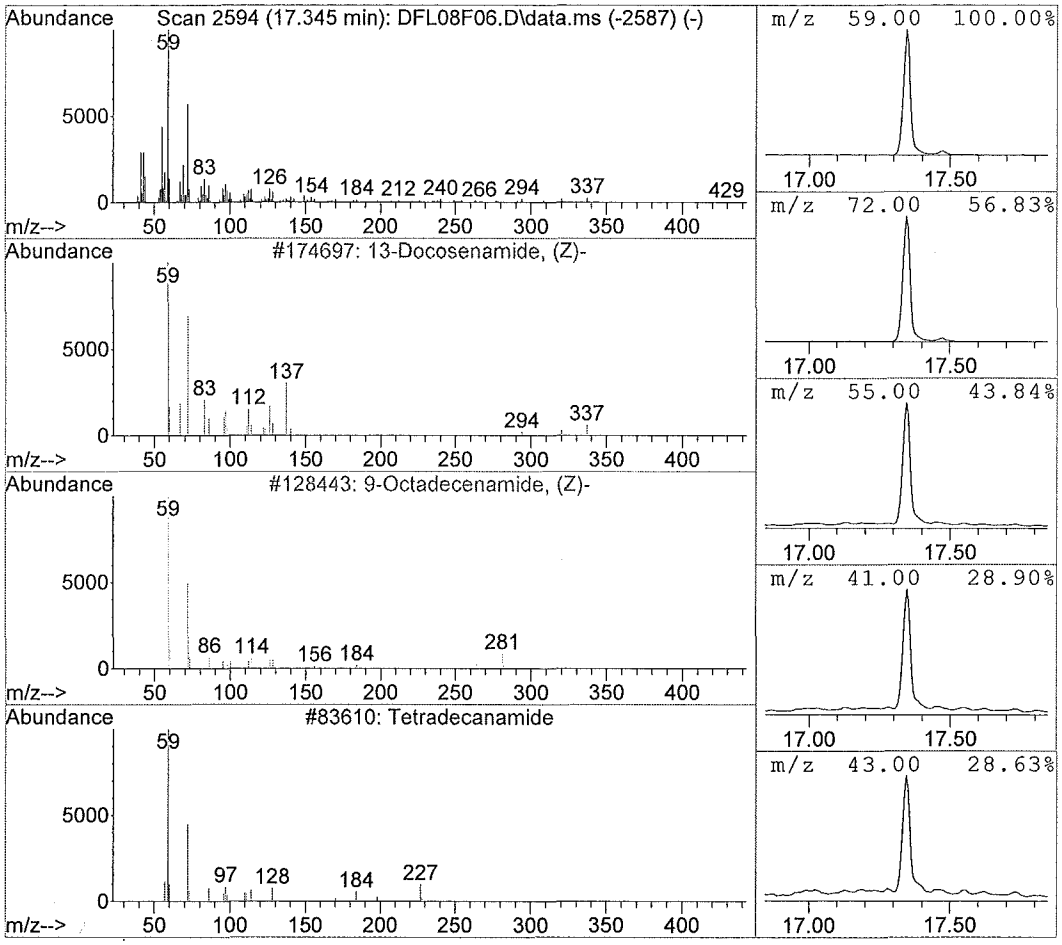
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	22.05 ug/ml	9304710	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	90.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Octadecanamide	130204	000124-26-5	72.00
5	7-Nonenamide	28131	090949-53-4	59.00



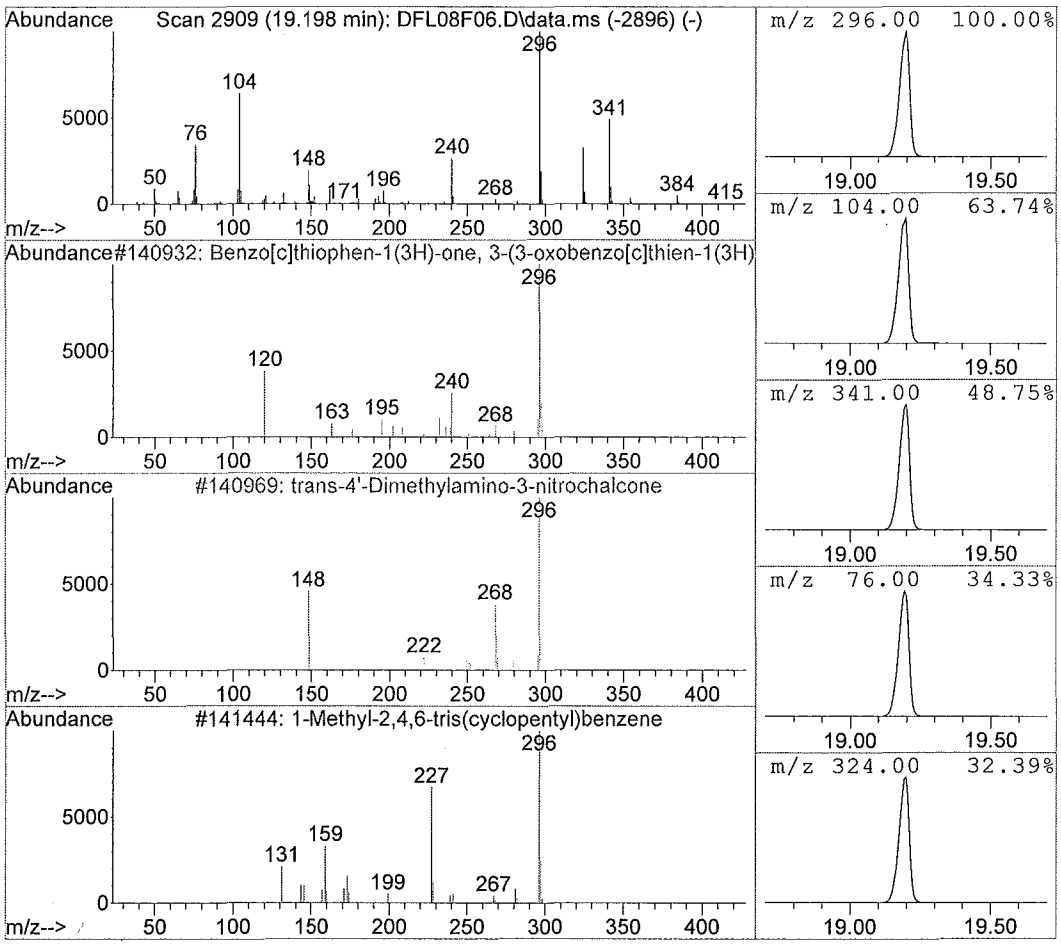
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.20	40.83 ug/ml	17230487	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	27.00
2	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	27.00
3	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	22.00
4	3-Methoxy-D-homoestra-1,3,5(10),8-t	141373	002000-72-8	17.00
5	5-(2-Chlorophenyl)-3-[5-(trifluorom	177339	287979-09-3	17.00



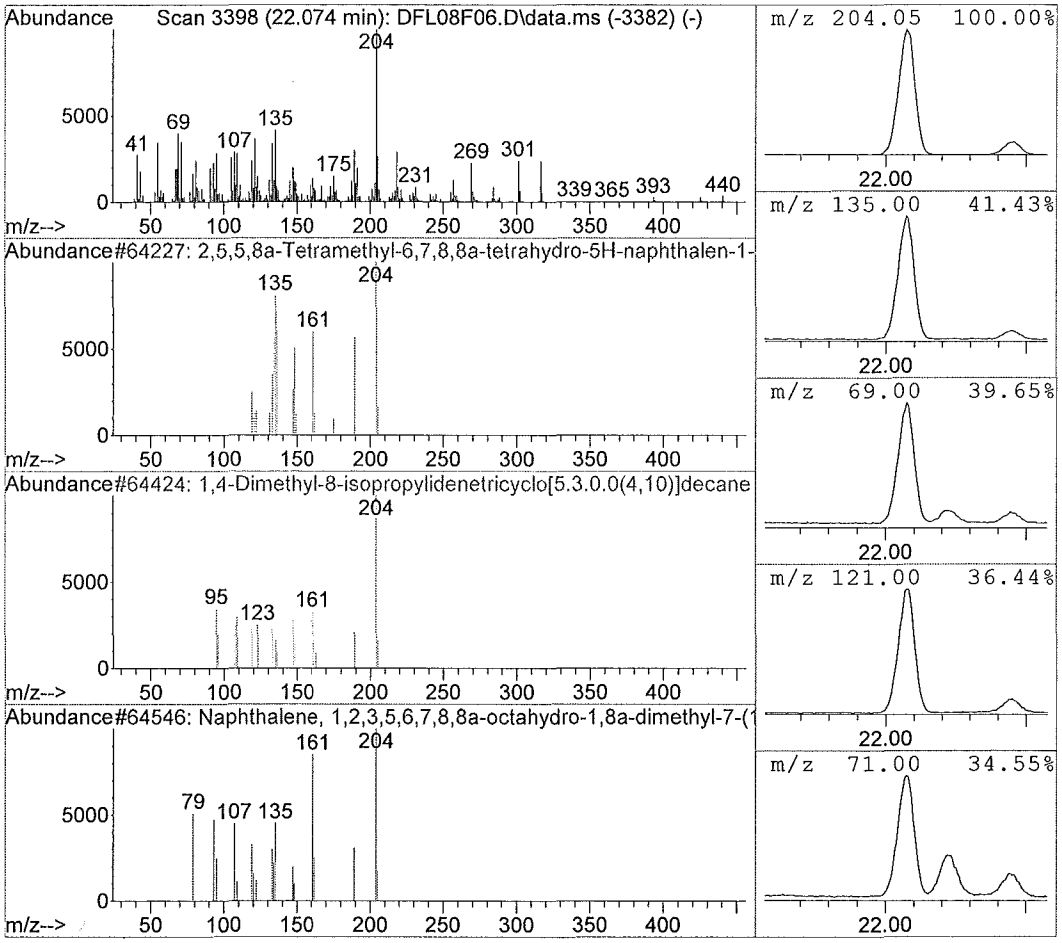
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	20.63 ug/ml	8707007	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
2	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	38.00
4	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	38.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	35.00



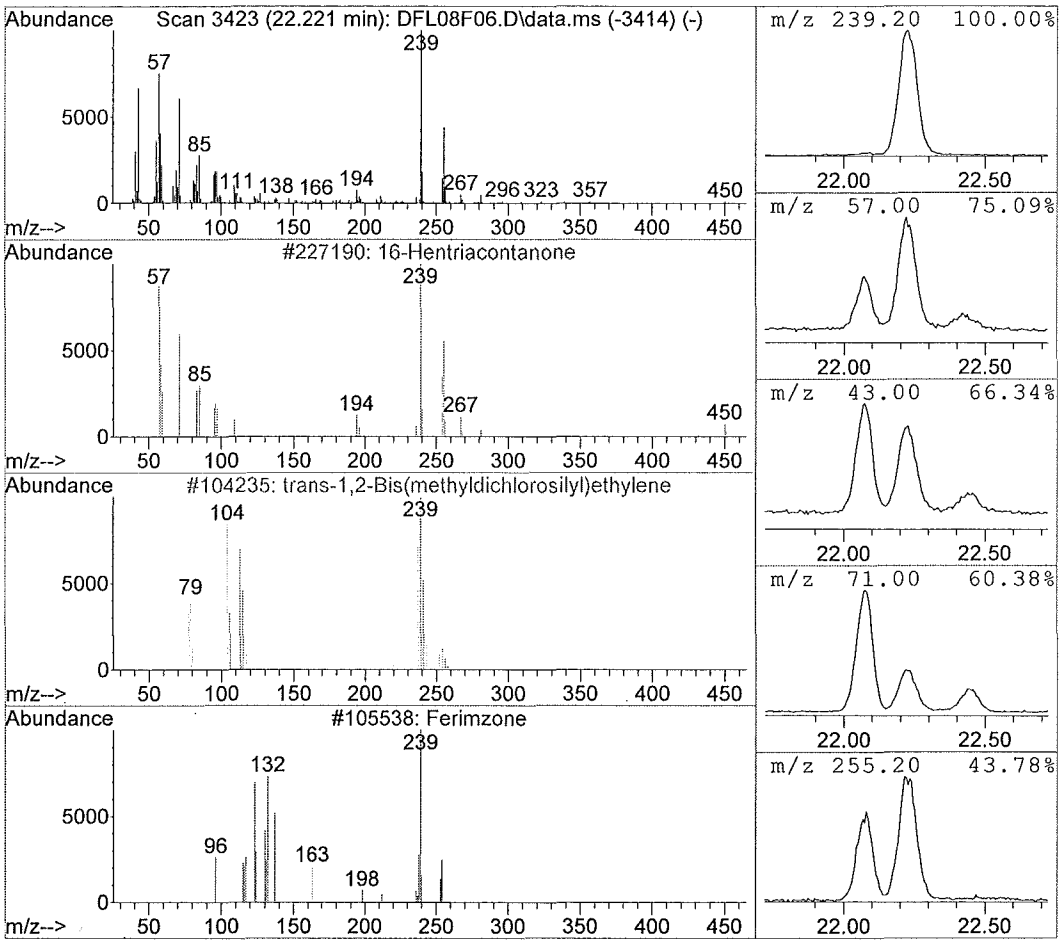
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	2.32 ug/ml	977186	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	16-Hentriacontanone	227190	000502-73-8	90.00
2	trans-1,2-Bis(methyldichlorosilyl)e	104235	065899-10-7	86.00
3	Ferimzone	105538	089269-64-7	30.00
4	Hexadecane	83024	000544-76-3	25.00
5	Palmitic acid vinyl ester	129350	000693-38-9	18.00



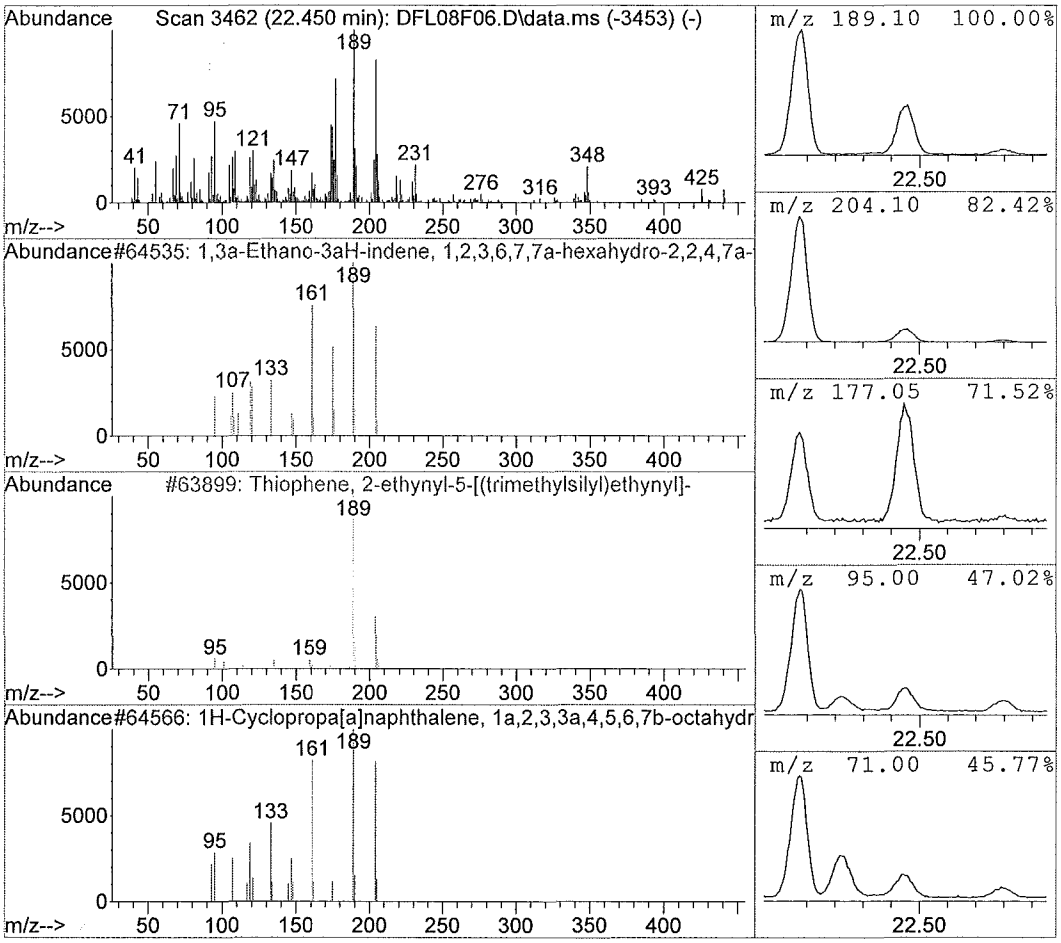
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.45	3.12 ug/ml	1318070	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	53.00
2	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	46.00
3	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	45.00
4	.delta.-Selinene	64314	028624-23-9	43.00
5	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	38.00



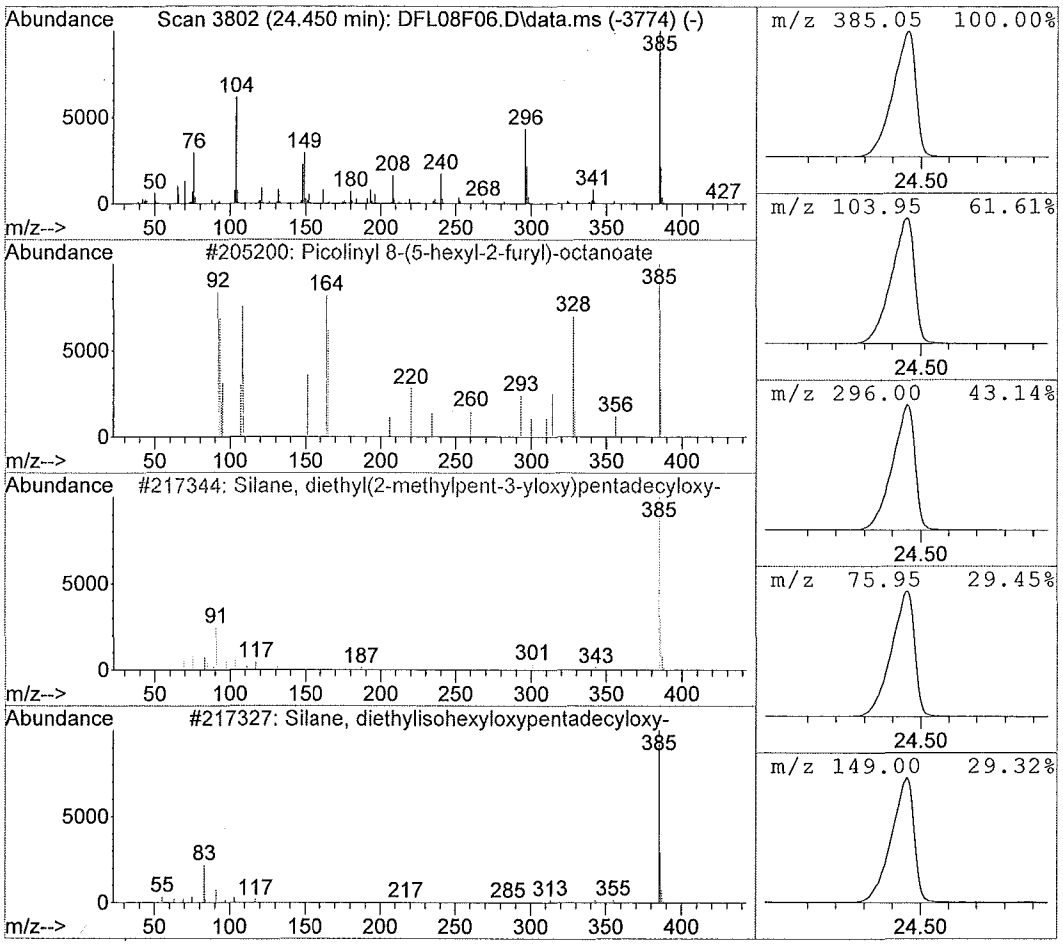
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL08F06.D Vial: 8
Acq On : 05/27/2015 12:46 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.45	66.39 ug/ml	28019732	Perylene-d12	8440314

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	25.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	10.00
3	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	10.00
4	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	10.00
5	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK07F07

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.: F9KY4

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK07F07
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015
GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCK07F07

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

GPC Cleanup: (Y/N) Y pH: 7.6 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-	2.27	84.	JN
02		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	220	J
03		Unknown Acetamide, N-ethyl-	2.34	290	J
04		Unknown 4-Chloro-2-butanone	3.31	100	J
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	5200	J
06		Unknown 1,2-Ethanediol, monoacetate	3.53	1700	J
07		Unknown 2-Pentanone, 3-methyl-	4.59	130	J
08		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	660	J
09		Unknown 2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethox	5.37	130	J
10		Unknown 4-Phenylpiperidine	8.68	97.	J
11	57-10-3	n-Hexadecanoic acid	12.66	200	JN
12	1120-16-7	Dodecanamide	12.76	110	JN
13		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.99	88.	J
14	1120-16-7	Dodecanamide	14.15	360	JN
15	959-26-2	1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl	14.37	260	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.08	2400	JN
17	629-54-9	Hexadecanamide	15.17	120	JN
18	301-02-0	9-Octadecenamide, (Z)-	15.86	130	JN
19		Unknown 3-Pentenoic acid, methyl ester	16.20	190	J
20		Unknown 9-Octadecenamide, (Z)-	16.98	780	J
21		Unknown Phthalic acid, monoethyl ester	18.63	2000	J
22		Unknown Palmitic acid vinyl ester	21.39	250	J
23		Unknown Phthalic anhydride	23.35	2700	J
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	78.	J

[2] EPA-designated Registry Number.

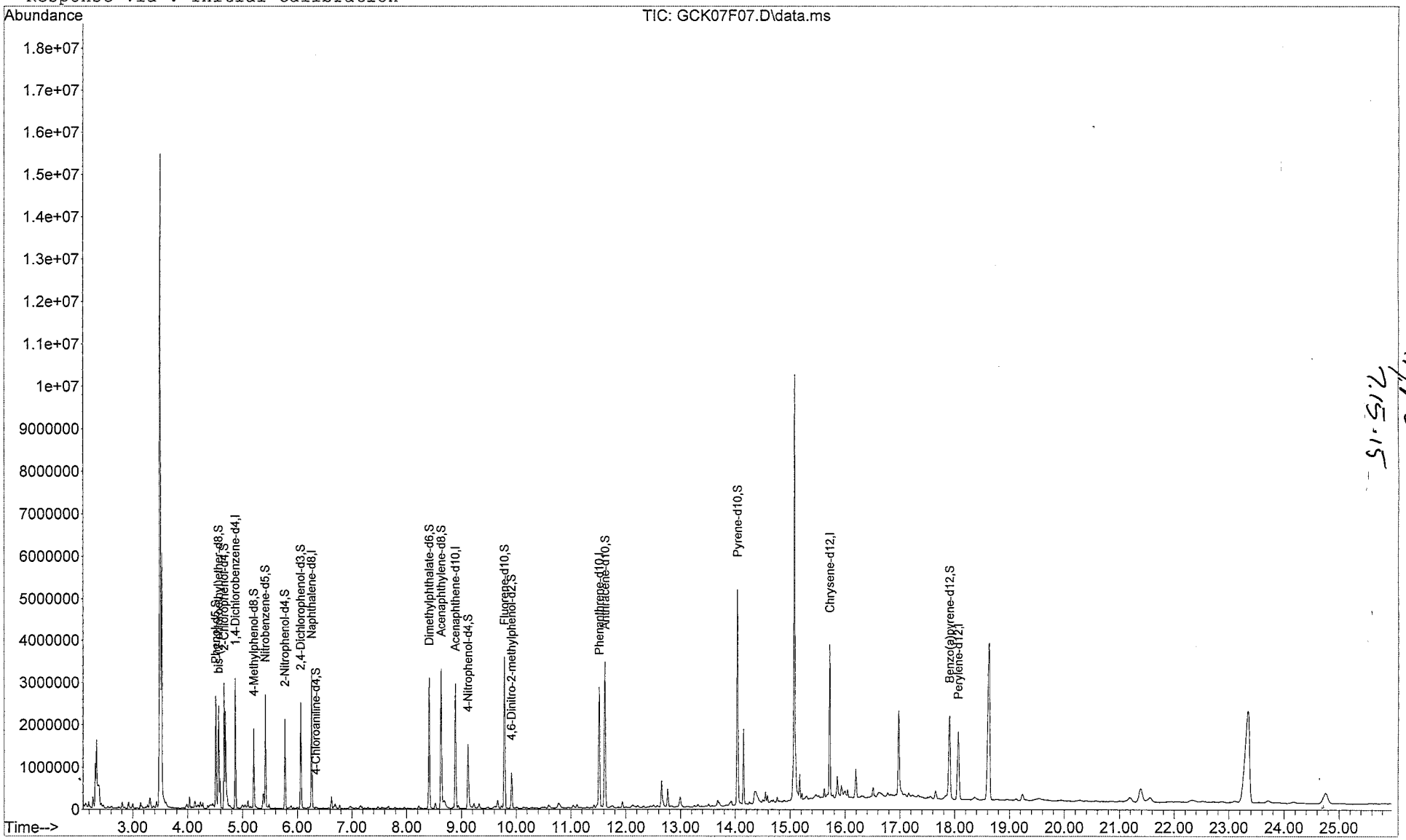
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D
Acq On : 07/02/2015 14:09
Sample : 1513978007 F9KY4
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 7
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:59:12 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



7/15/15

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:59:12 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	420205	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1560360	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	913337	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1556930	20.00 ug/ml
73) Chrysene-d12	15.72	240	1497097	20.00 ug/ml
81) Perylene-d12	18.07	264	1186679	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	855442	23.394ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	577627	20.270ug/mL
7) 2-Chlorophenol-d4	4.66	132	678477	21.975ug/ml
13) 4-Methylphenol-d8	5.20	113	369101	15.091ug/mL
17) Nitrobenzene-d5	5.42	128	310655	22.663ug/ml
21) 2-Nitrophenol-d4	5.77	143	335632	23.165ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	543720	24.100ug/mL
28) 4-Chloroaniline-d4	6.35	131	20768	0.843ug/mL
42) Dimethylphthalate-d6	8.42	166	1603755	28.002ug/mL
45) Acenaphthylene-d8	8.63	160	2015306	25.893ug/mL
50) 4-Nitrophenol-d4	9.12	143	323393	27.679ug/mL
57) Fluorene-d10	9.79	176	1342540	27.449ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	142322	12.879ug/mL
69) Anthracene-d10	11.62	188	2138800	25.905ug/mL
75) Pyrene-d10	14.04	212	2084303	27.898ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1413436	24.857ug/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:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:59:12 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	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)

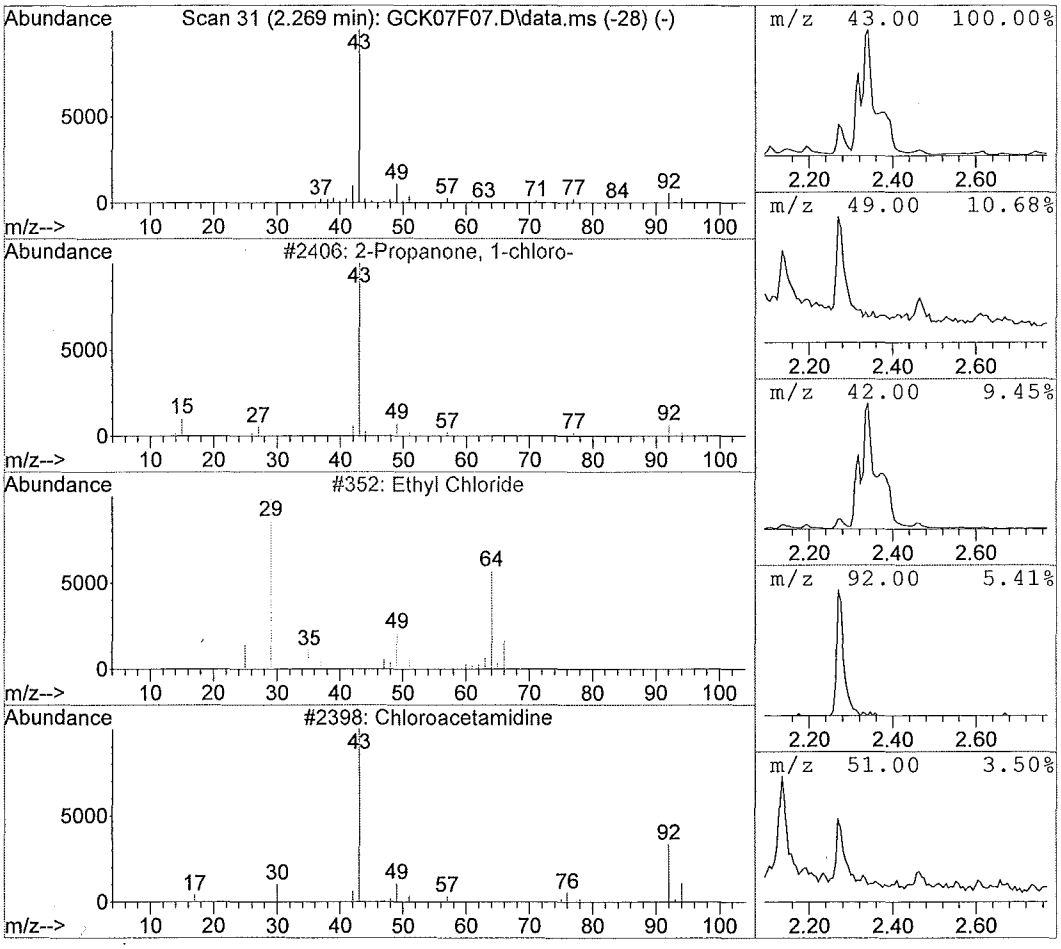
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.27	2.24 ug/ml	333980	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2406	000078-95-5	90.00
2	Ethyl Chloride	352	000075-00-3	4.00
3	Chloroacetamidine	2398	020846-52-0	4.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	4.00
5	Hydrogen azide	70	007782-79-8	3.00



Library Search Compound Report

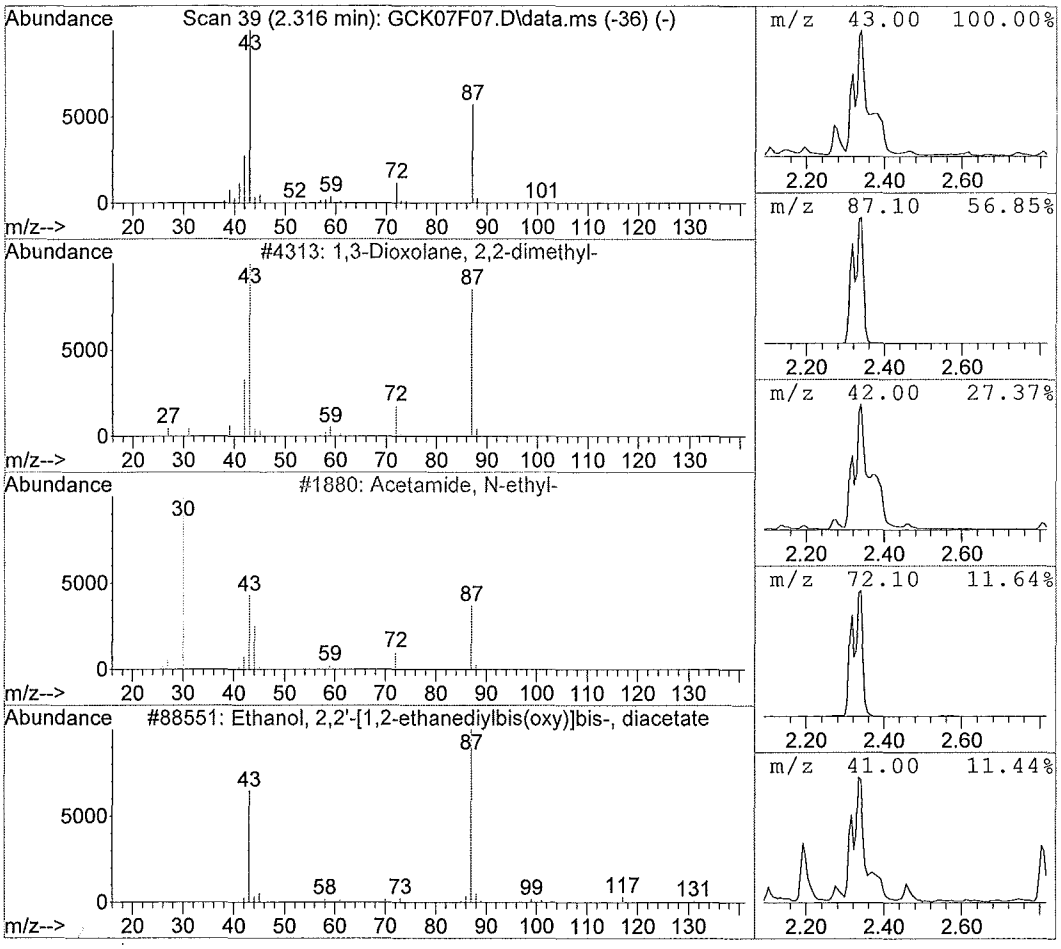
Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D
Acq On : 07/02/2015 14:09
Sample : 1513978007 F9KY4
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 7
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	5.98 ug/ml	893347	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	72.00
2	Acetamide, N-ethyl-	1880	000625-50-3	36.00
3	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	25.00
4	Isobutane	237	000075-28-5	12.00
5	N,N-Dimethylacetamide	1886	000127-19-5	9.00



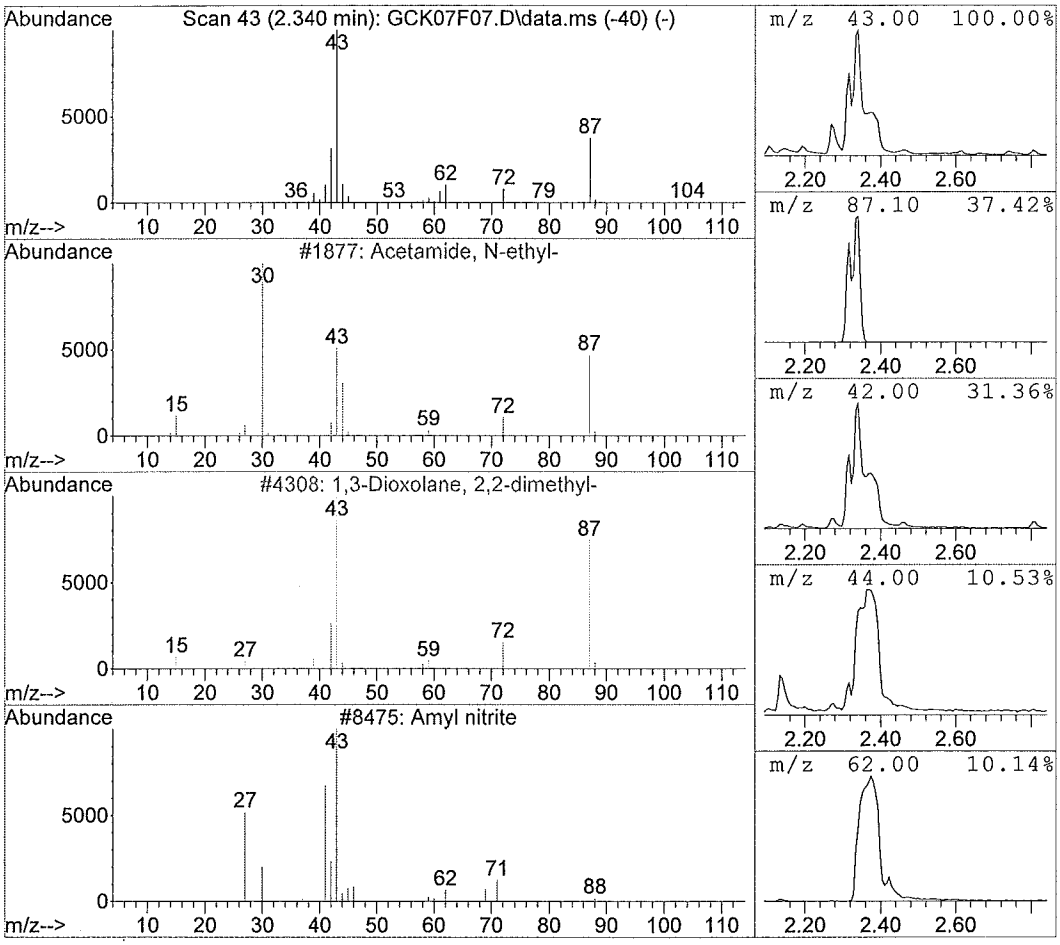
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.68 ug/ml	1147821	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetamide, N-ethyl-	1877	000625-50-3	9.00
2	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
3	Amyl nitrite	8475	000463-04-7	9.00
4	2-Propanone, 1-hydroxy-, oxime	2178	068113-52-0	7.00
5	Pentane	709	000109-66-0	7.00



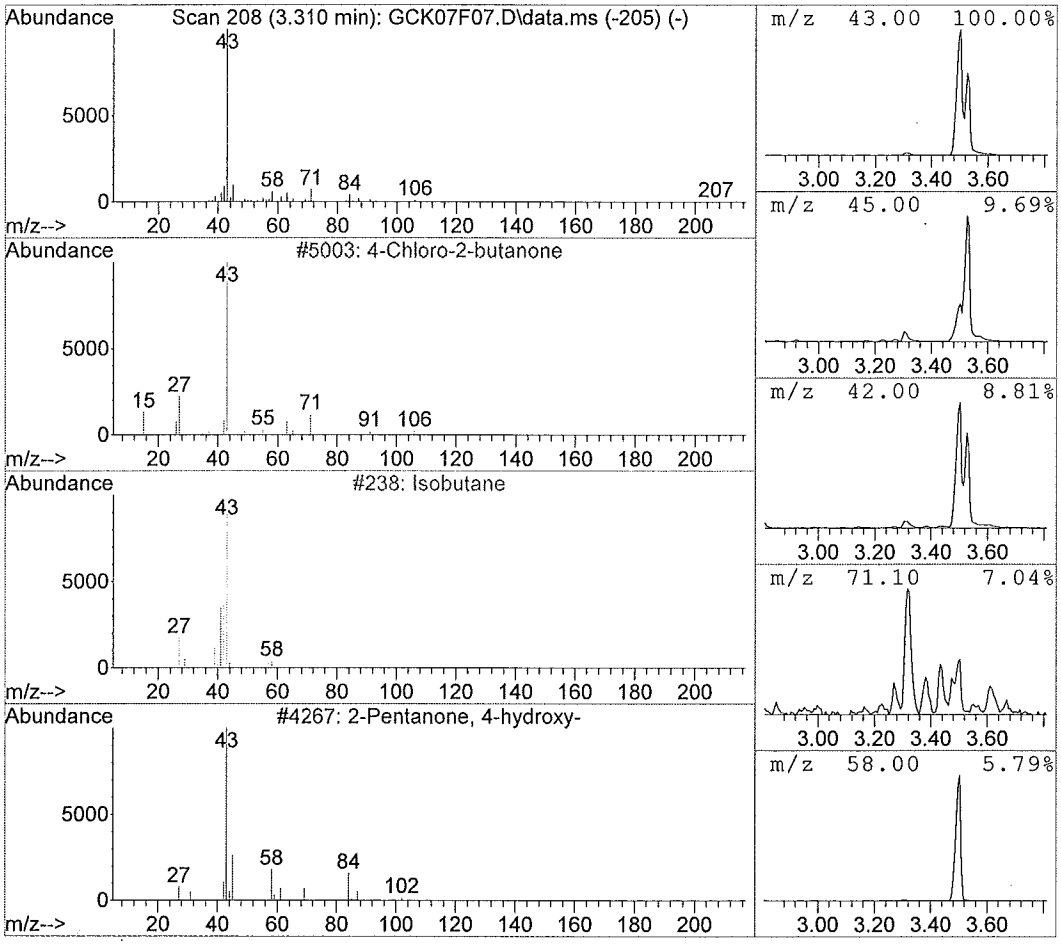
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	2.73 ug/ml	407190	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	14.00
2	Isobutane	238	000075-28-5	9.00
3	2-Pentanone, 4-hydroxy-	4267	004161-60-8	9.00
4	Cyclobutylamine	611	002516-34-9	9.00
5	2-Pentanone	1710	000107-87-9	9.00



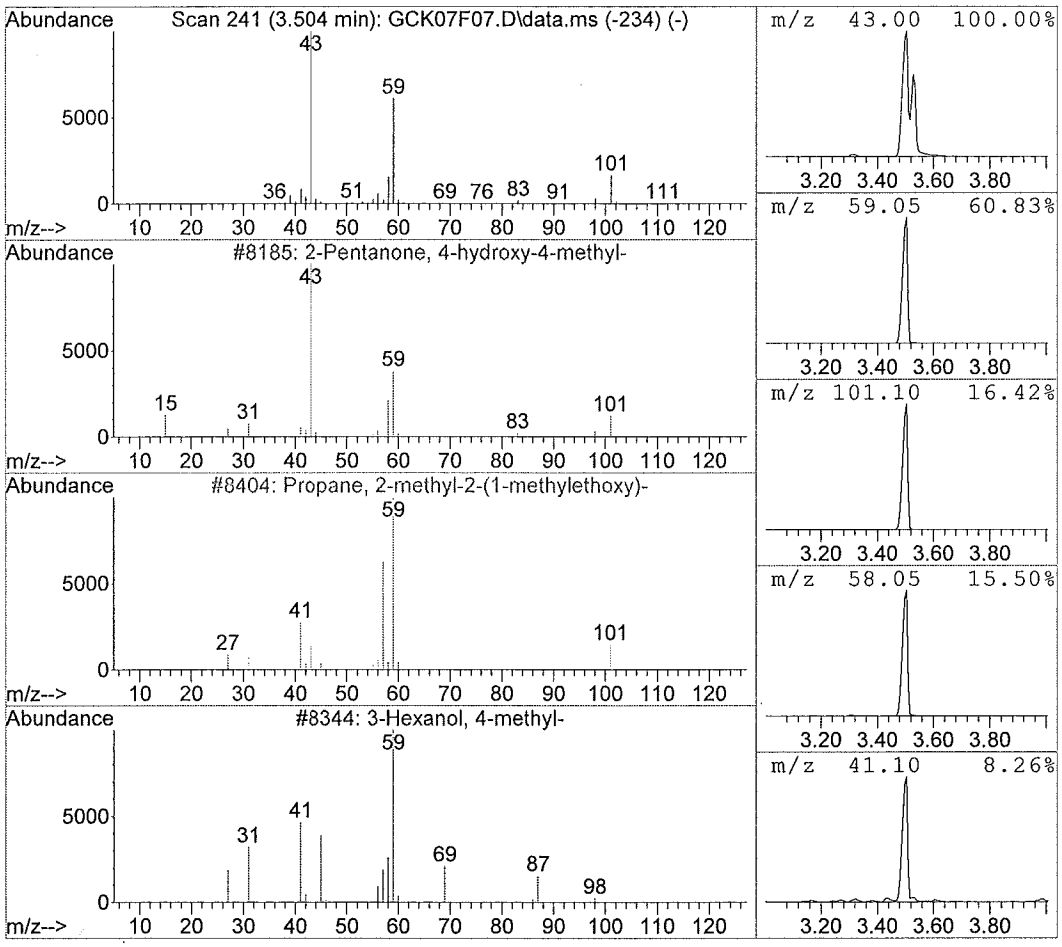
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	137.74 ug/ml	20575794	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
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	23.00



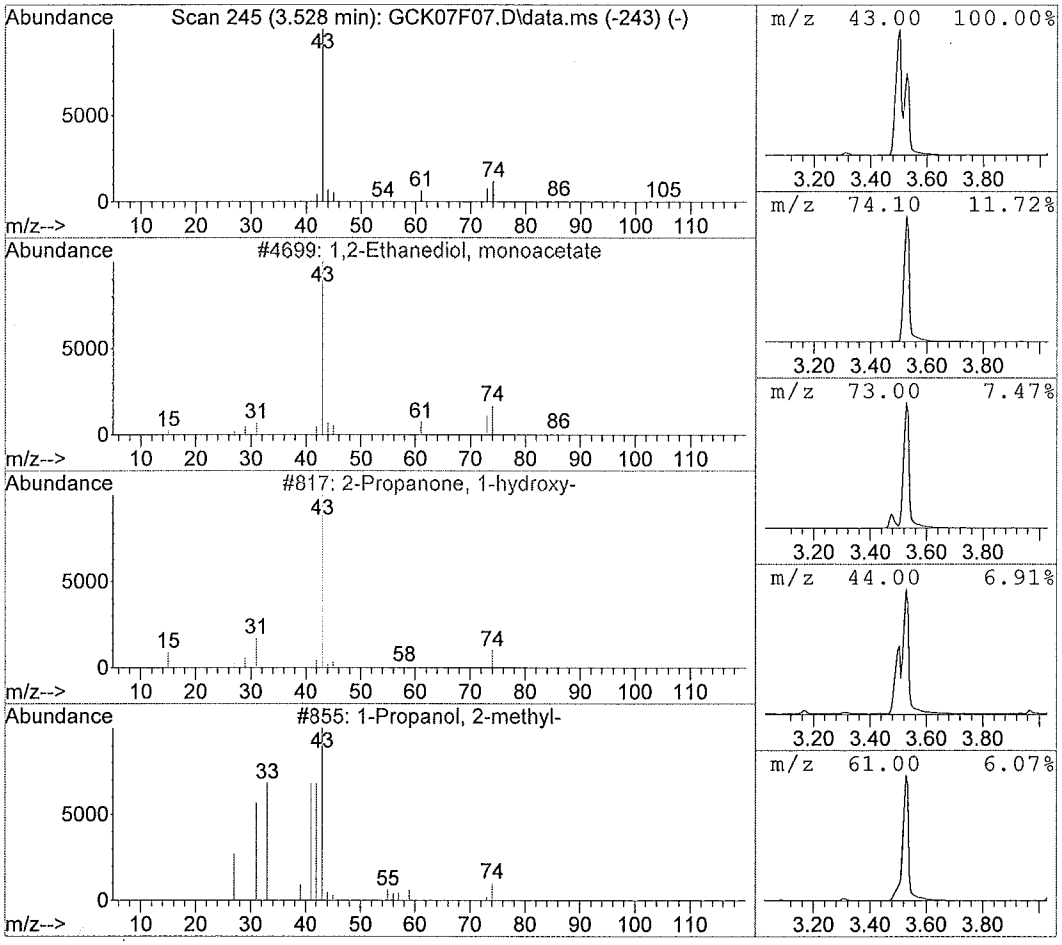
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	45.08 ug/ml	6733787	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol, monoacetate	4699	000542-59-6	45.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	9.00
3	1-Propanol, 2-methyl-	855	000078-83-1	7.00
4	Urea, methyl-	771	000598-50-5	5.00
5	Acetic acid, hydrazide	778	001068-57-1	4.00



00397

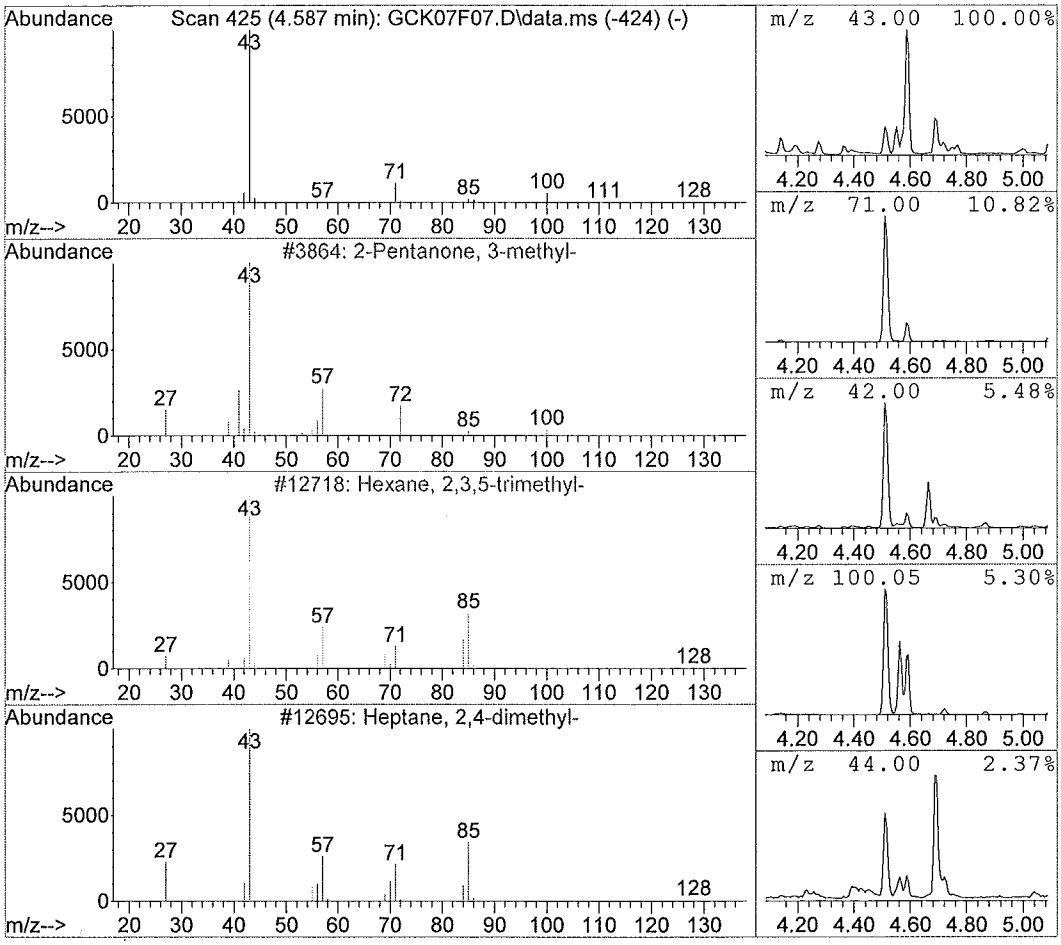
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.59 ug/ml	536218	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	Hexane, 2-methyl-	3978	000591-76-4	5.00
5	1-Propen-2-ol, acetate	3687	000108-22-5	5.00



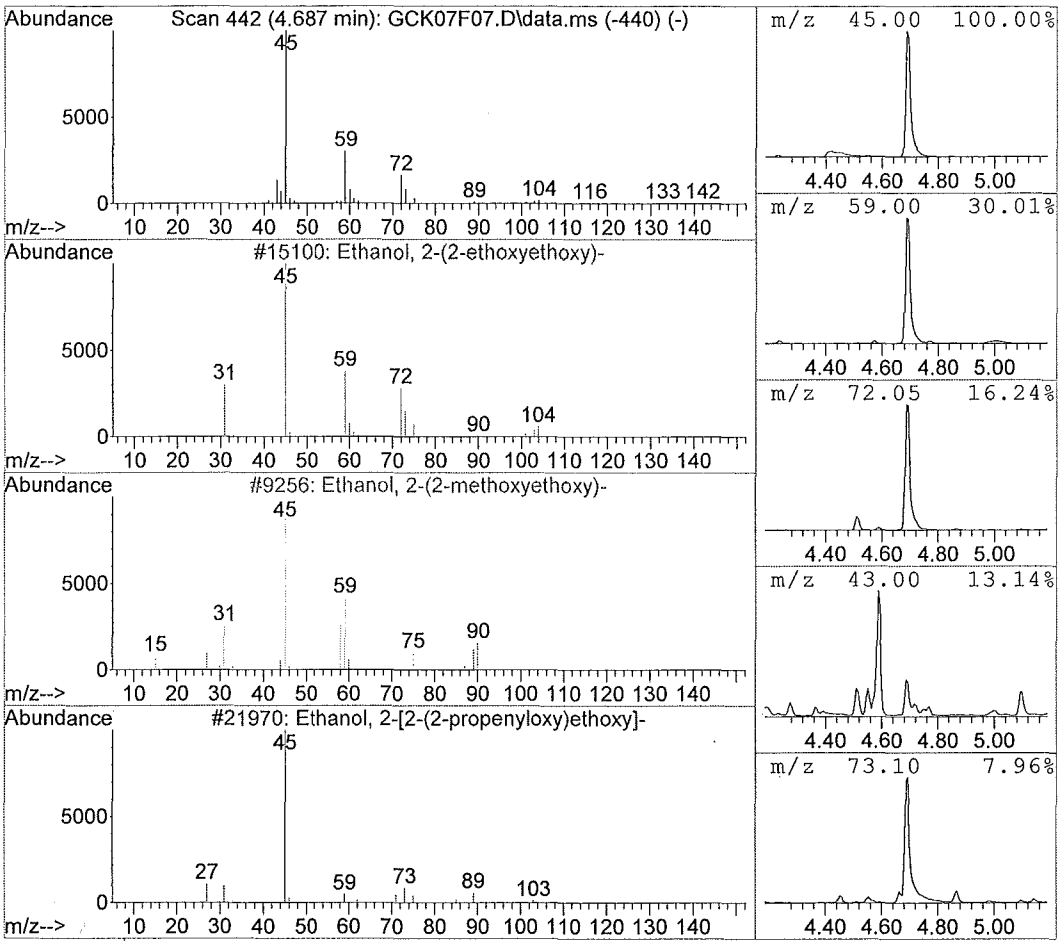
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	17.59 ug/ml	2627193	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	50.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	Ethanol, 2-[2-(2-propenyloxy)ethoxy	21970	015075-50-0	36.00
4	Methoxyacetic acid, butyl ester	21952	017640-22-1	33.00
5	(S)-(+)-1,2-Propanediol	946	004254-15-3	28.00



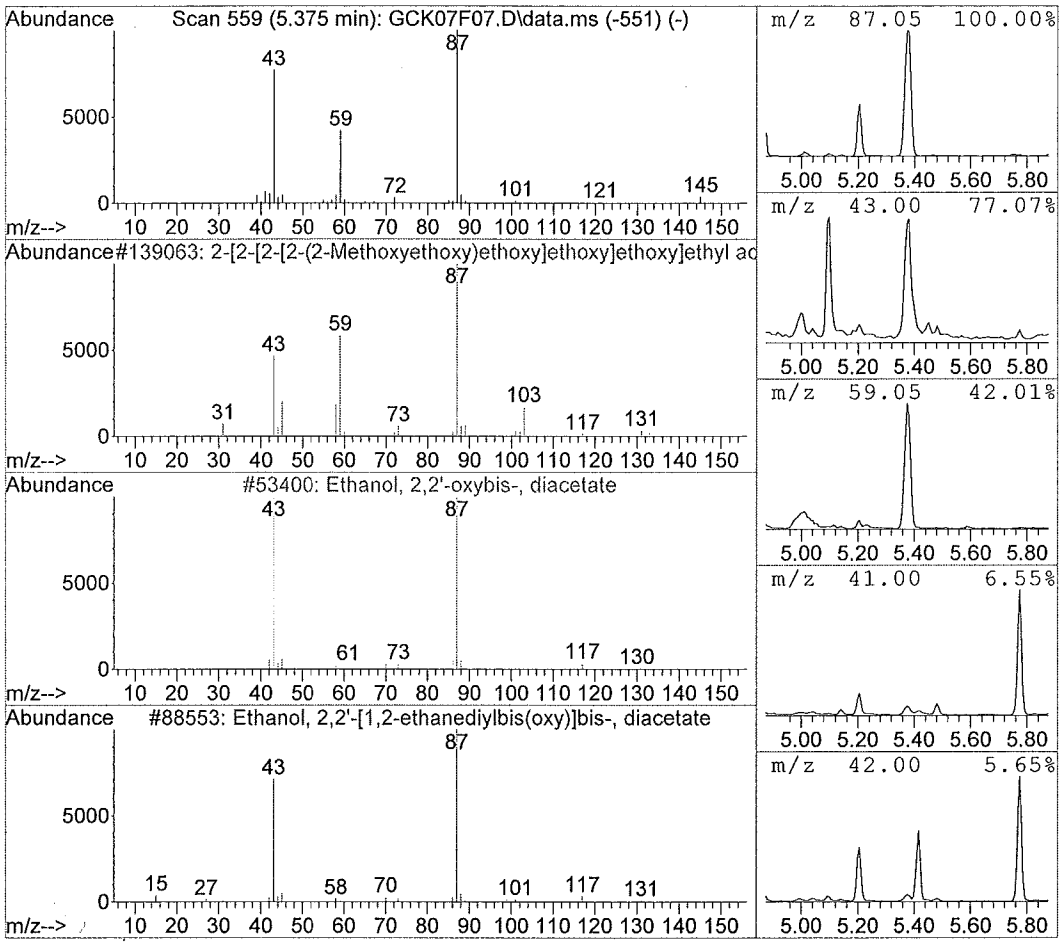
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.37	3.54 ug/ml	529057	1,4-Dichlorobenzene-d4	2987546

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]	139063	1000351-91-3	40.00
2	Ethanol, 2,2'-oxybis-, diacetate	53400	000628-68-2	40.00
3	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88553	000111-21-7	40.00
4	Hydrazine, 1,1-diethyl-2-(1-methylp	21077	067398-40-7	39.00
5	1,3-Dioxolane, 2-butyl-4-methyl-	20938	074094-60-3	39.00



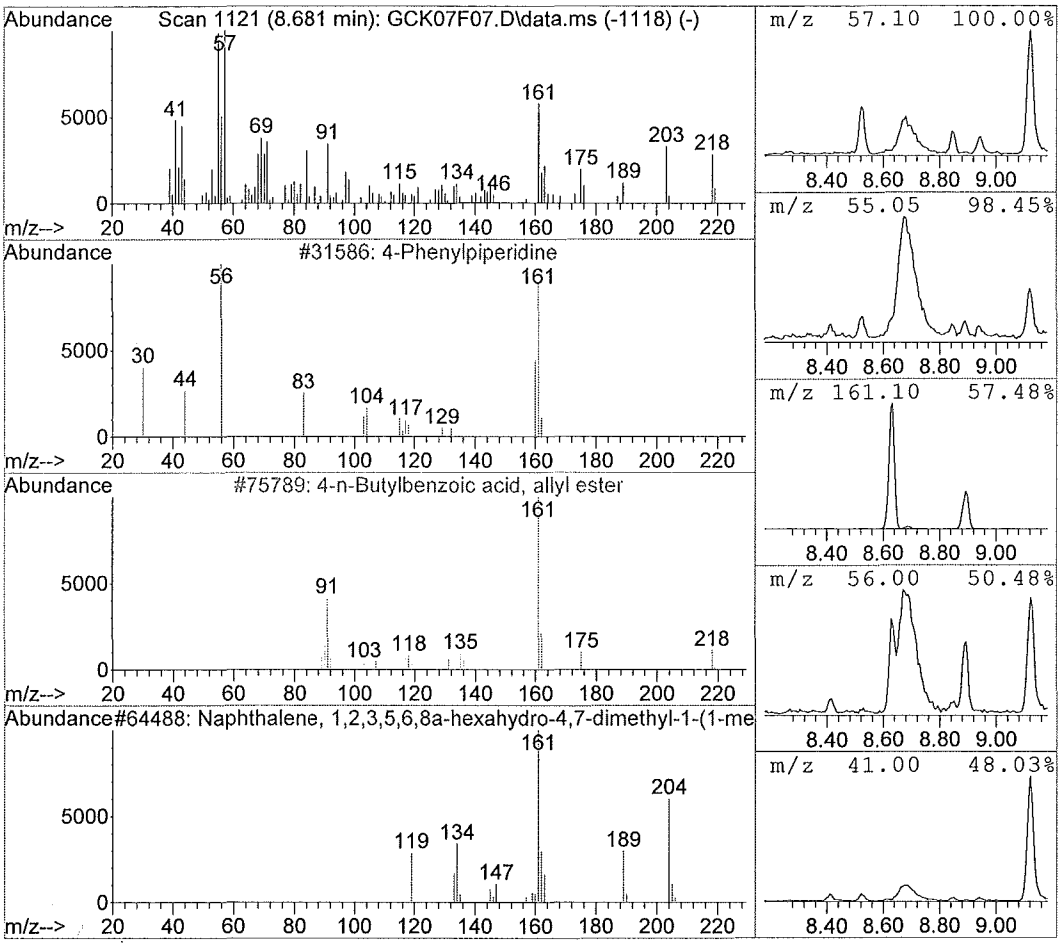
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.68	2.59 ug/ml	509421	Acenaphthene-d10	3930719

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Phenylpiperidine	31586	000771-99-3	30.00
2	4-n-Butylbenzoic acid, allyl ester	75789	1000293-35-8	22.00
3	Naphthalene, 1,2,3,5,6,8a-hexahydro	64488	000483-76-1	18.00
4	4(3H)-Quinazolinone, 7-amino-3-ethy	52208	1000338-19-9	15.00
5	1,3,4,6-Hexanetetrone, 1-(4-methylp	151312	058330-10-2	14.00



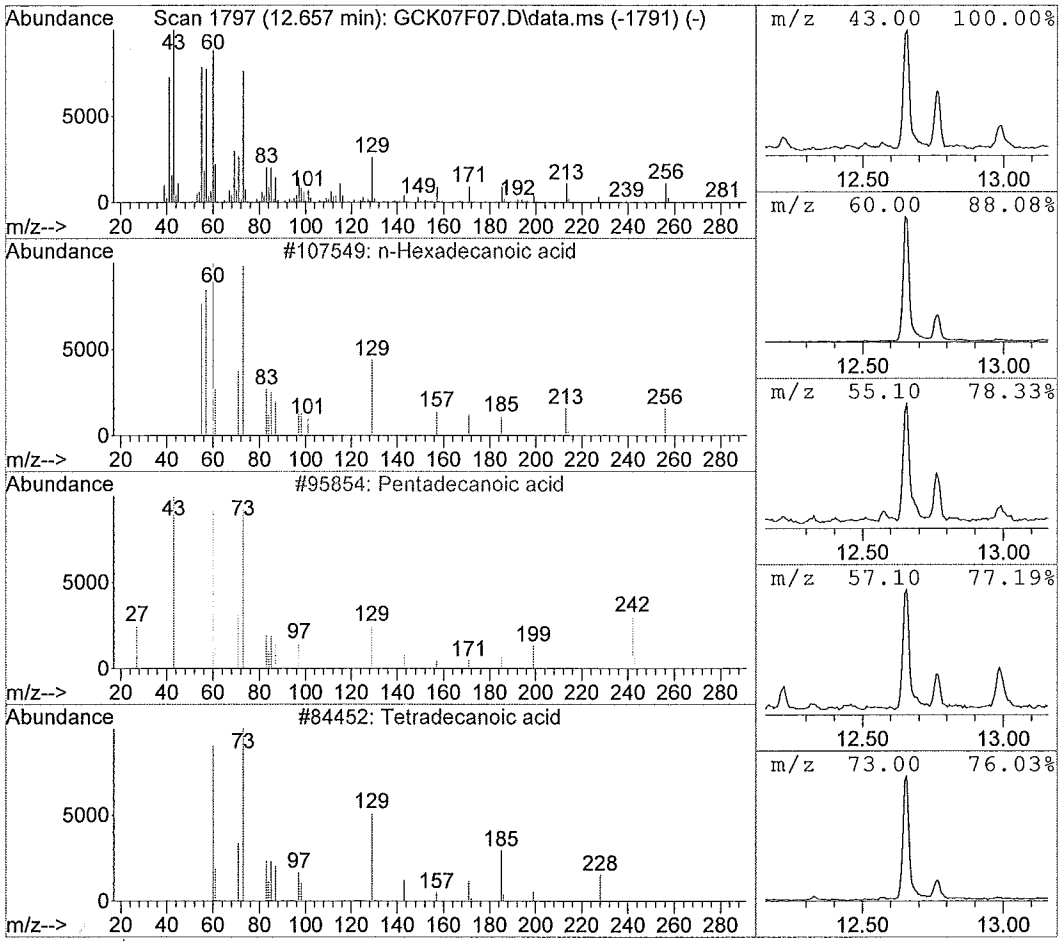
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	5.46 ug/ml	1107853	Phenanthrene-d10	4061462

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	72648	000638-53-9	64.00
5	Undecanoic acid	50051	000112-37-8	59.00



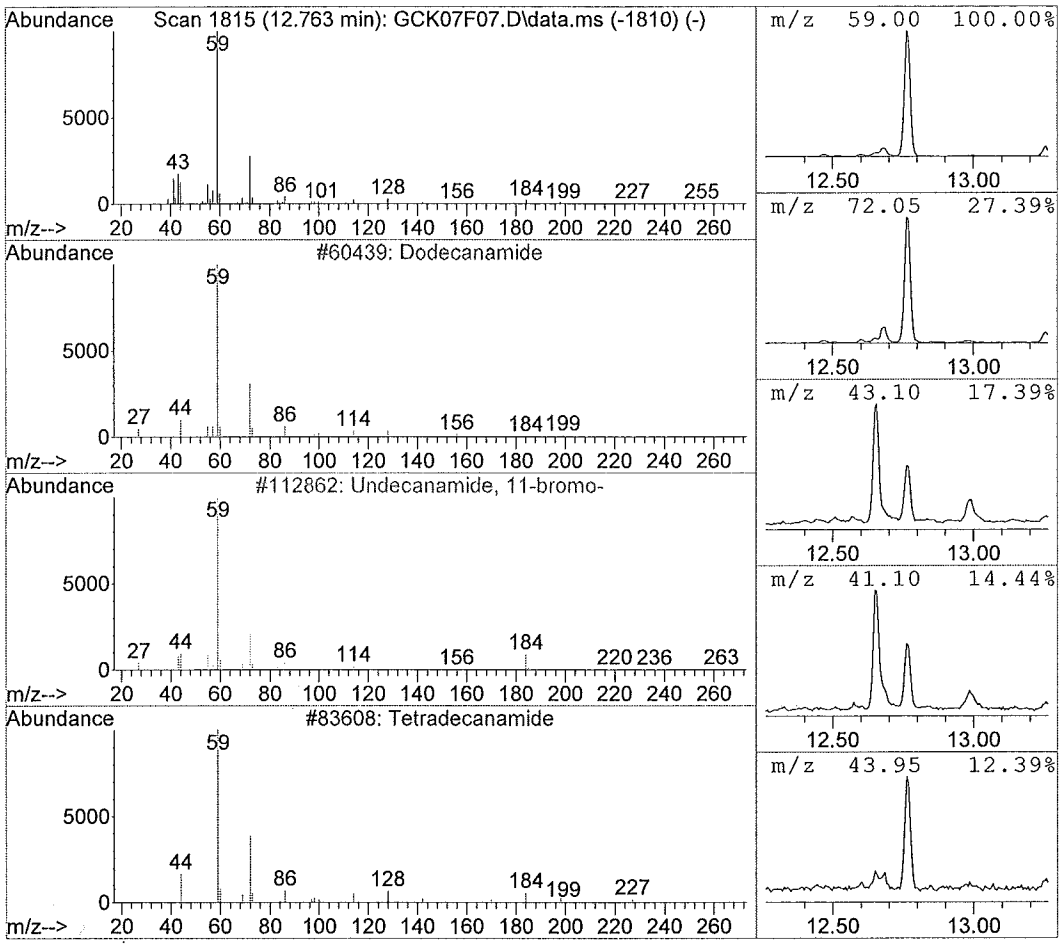
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.07 ug/ml	622799	Phenanthrene-d10	4061462

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	90.00
3	Tetradecanamide	83608	000638-58-4	83.00
4	Pentanamide	4064	000626-97-1	80.00
5	Decanamide-	38977	002319-29-1	74.00



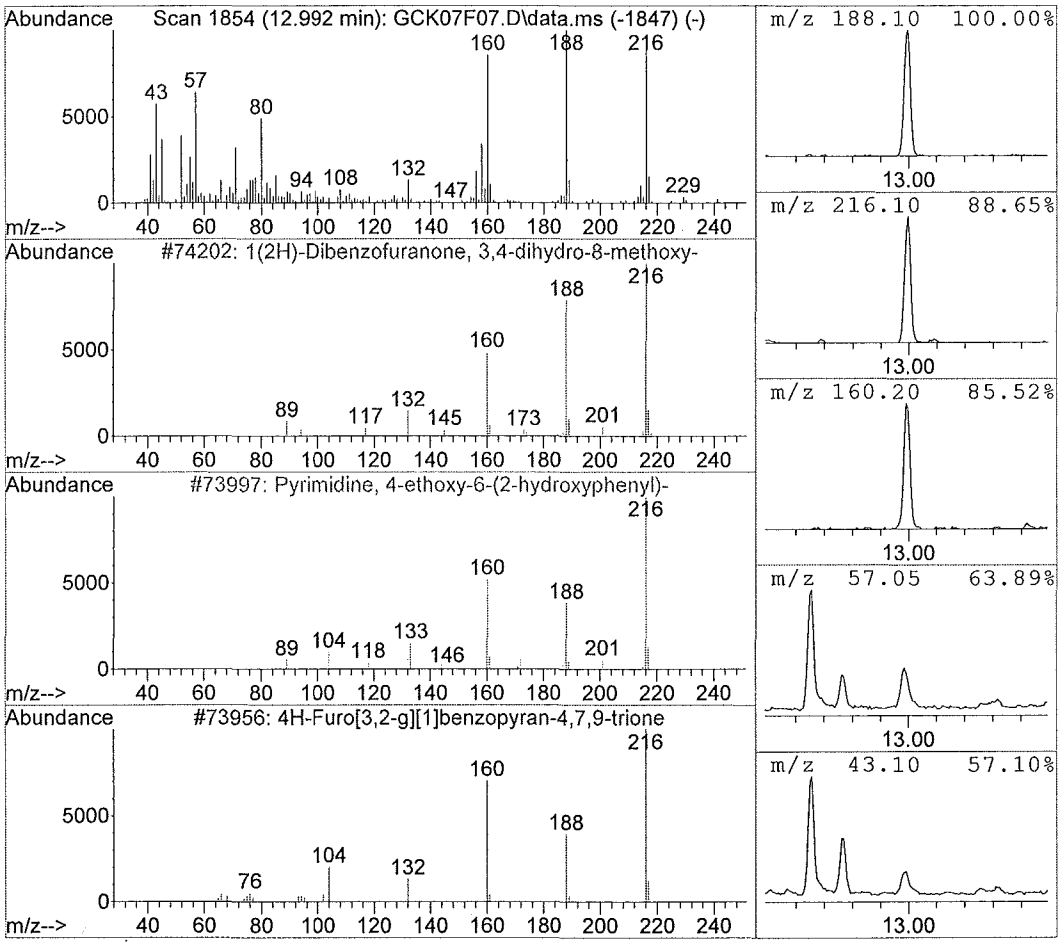
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.36 ug/ml	479156	Phenanthrene-d10	4061462

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	42.00
2	Pyrimidine, 4-ethoxy-6-(2-hydroxyph	73997	097630-78-9	27.00
3	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	22.00
4	5H-[1]Benzopyrano[3,4-b]pyridin-5-o	74033	1000337-92-0	22.00
5	2H-1-Benzopyran-2-one, 7-(diethylam	86820	000091-44-1	16.00



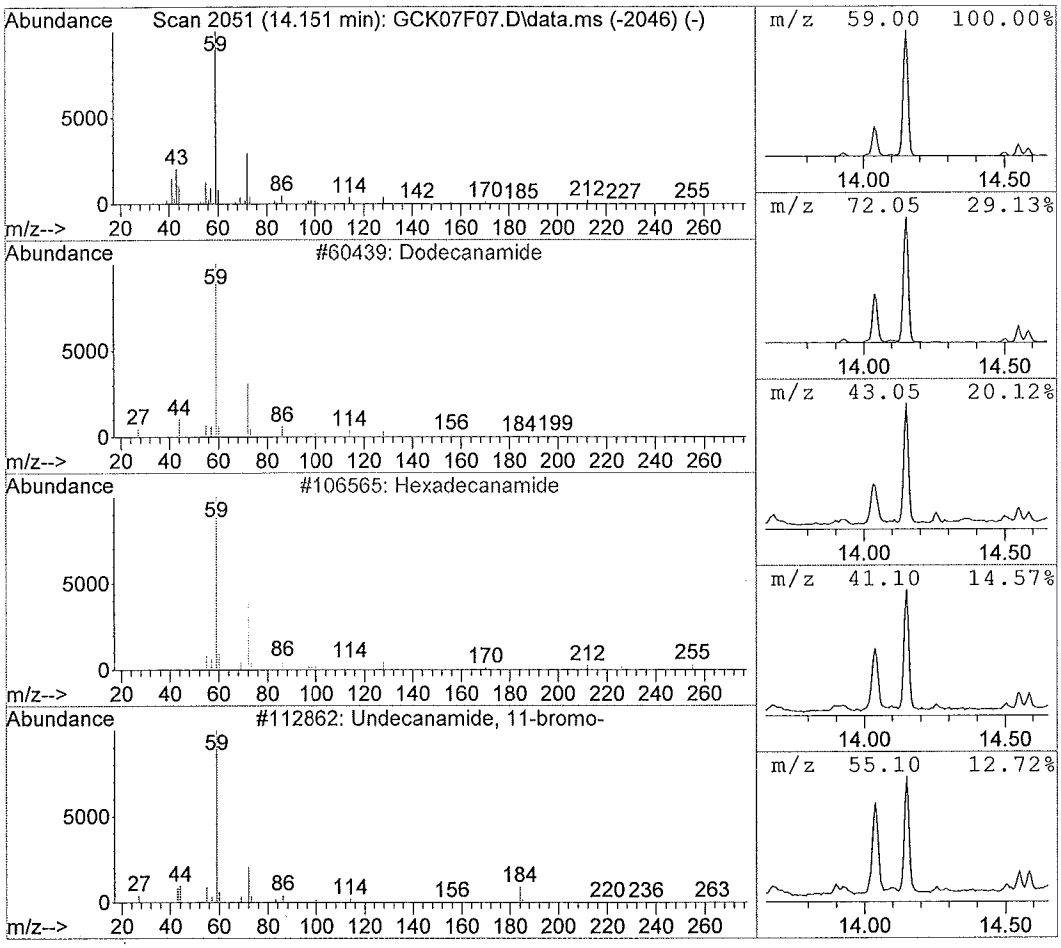
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	9.70 ug/ml	2030182	Chrysene-d12	4185963

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	Tetradecanamide	83609	000638-58-4	78.00
5	Decanamide-	38977	002319-29-1	78.00



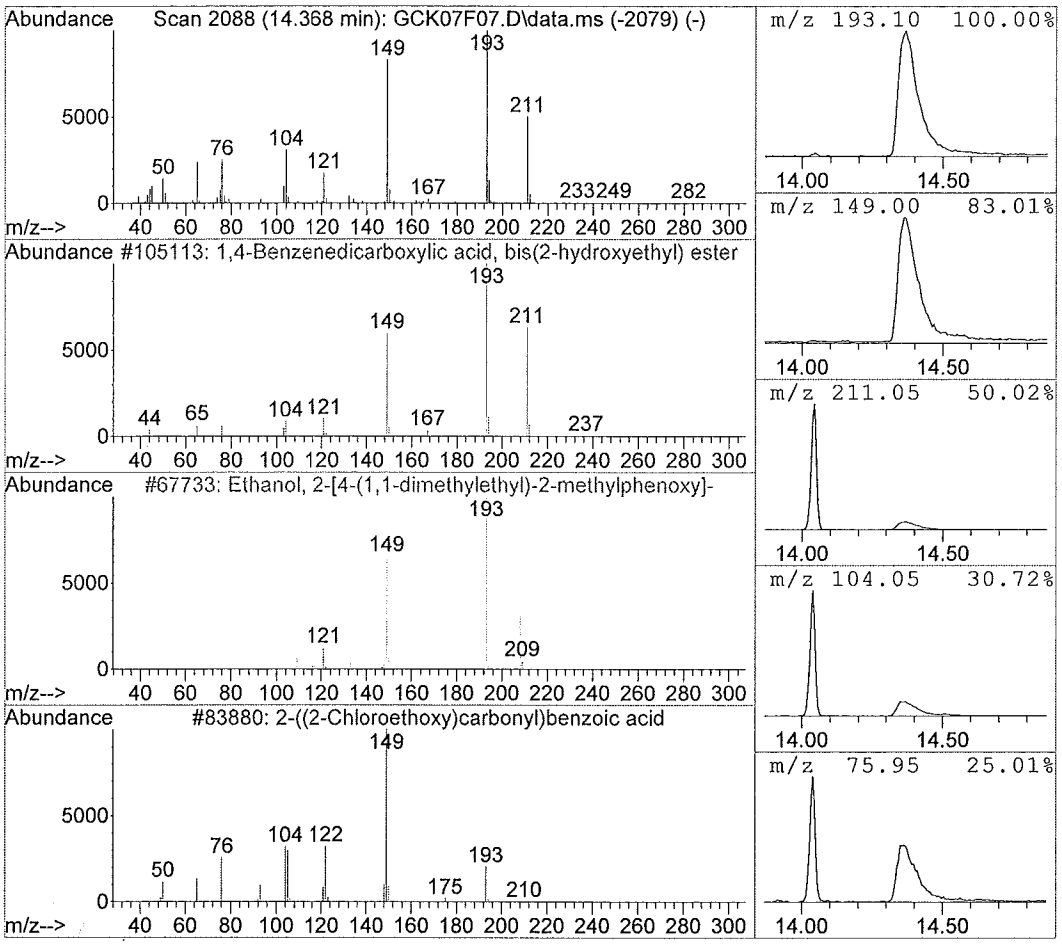
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.37	6.86 ug/ml	1436658	Chrysene-d12	4185963

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Benzenedicarboxylic acid, bis(2	105113	000959-26-2	87.00
2	Ethanol, 2-[4-(1,1-dimethylethyl)-2	67733	054934-87-1	47.00
3	2-((2-Chloroethoxy)carbonyl)benzoic	83880	1000373-53-5	42.00
4	2-((Prop-2-ynyloxy)carbonyl)benzoic	63934	1000373-53-6	38.00
5	Benzene-1,2-dicarboxylic acid, mono	87296	063081-73-2	35.00



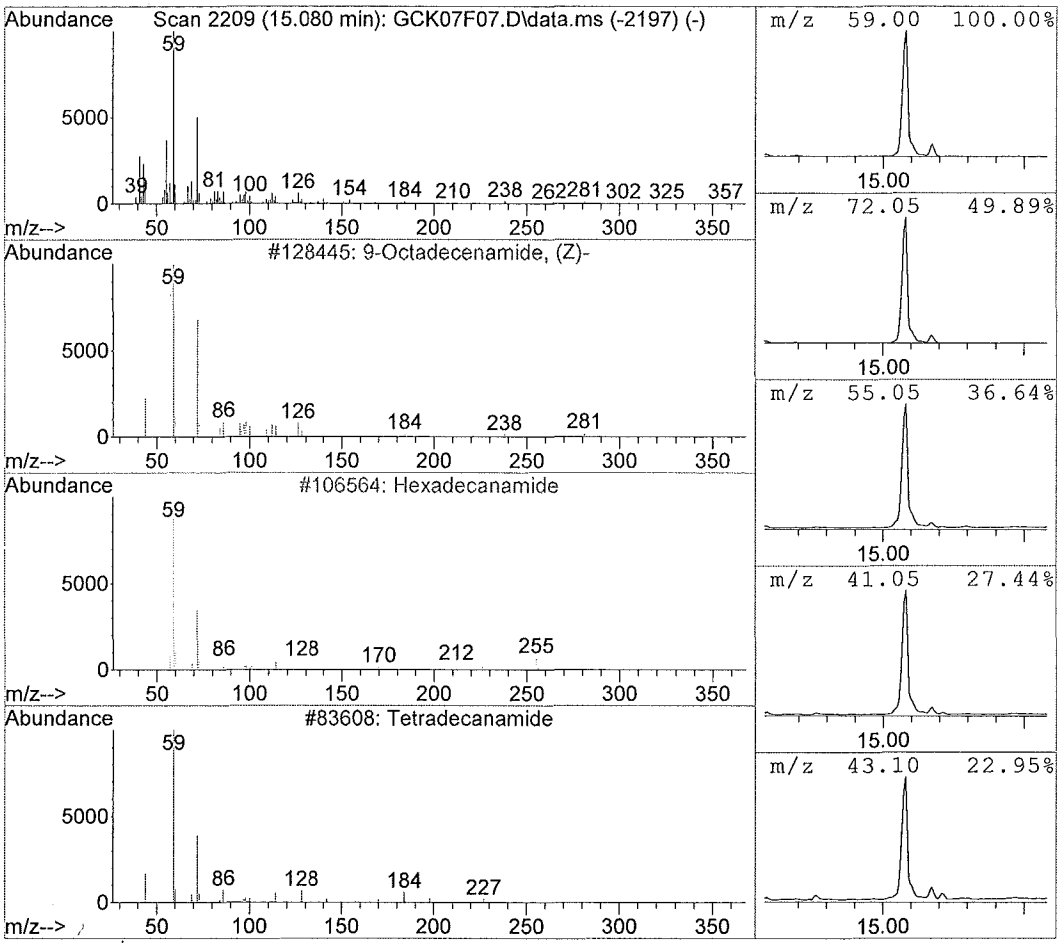
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	65.30 ug/ml	13667511	Chrysene-d12	4185963

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Tetradecanamide	83608	000638-58-4	56.00
4	Nonanamide	29478	001120-07-6	50.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	50.00



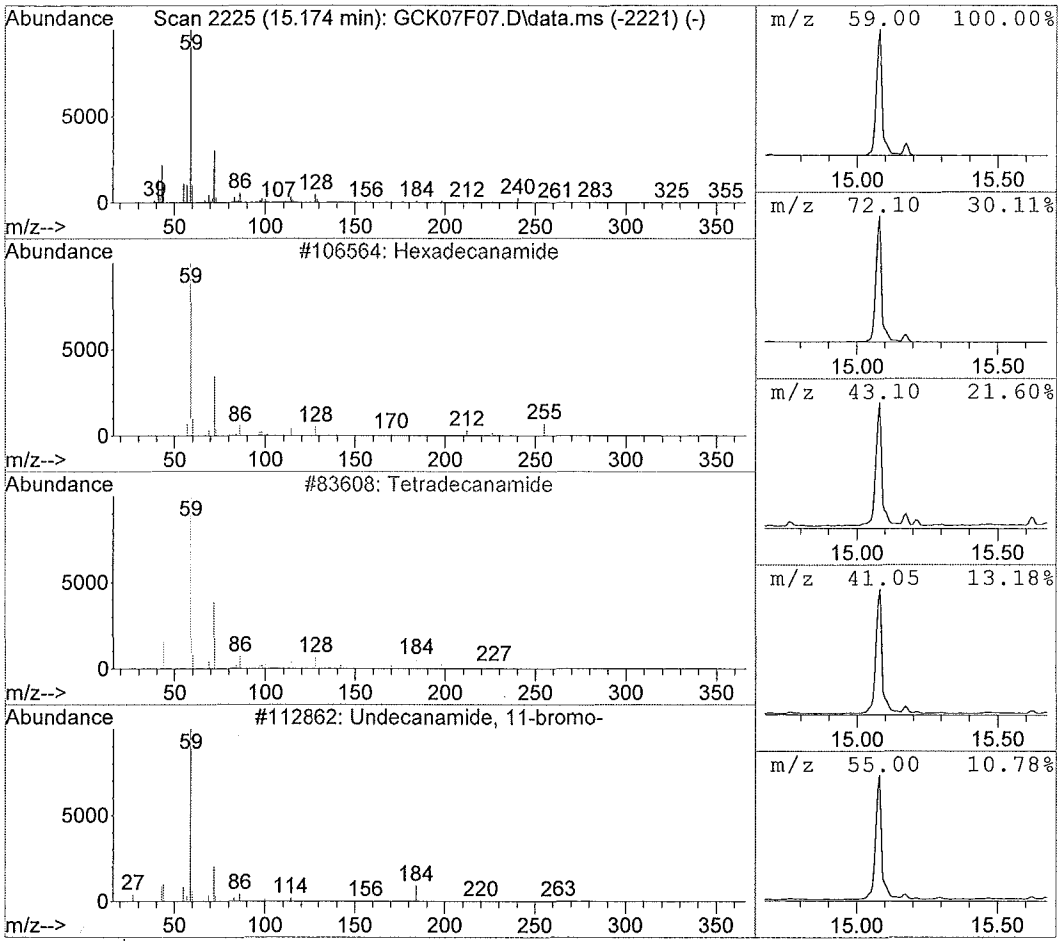
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.16 ug/ml	661274	Chrysene-d12	4185963

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Tetradecanamide	83608	000638-58-4	72.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	59.00
4	Pentanamide	4062	000626-97-1	59.00
5	Octadecanamide	130205	000124-26-5	56.00



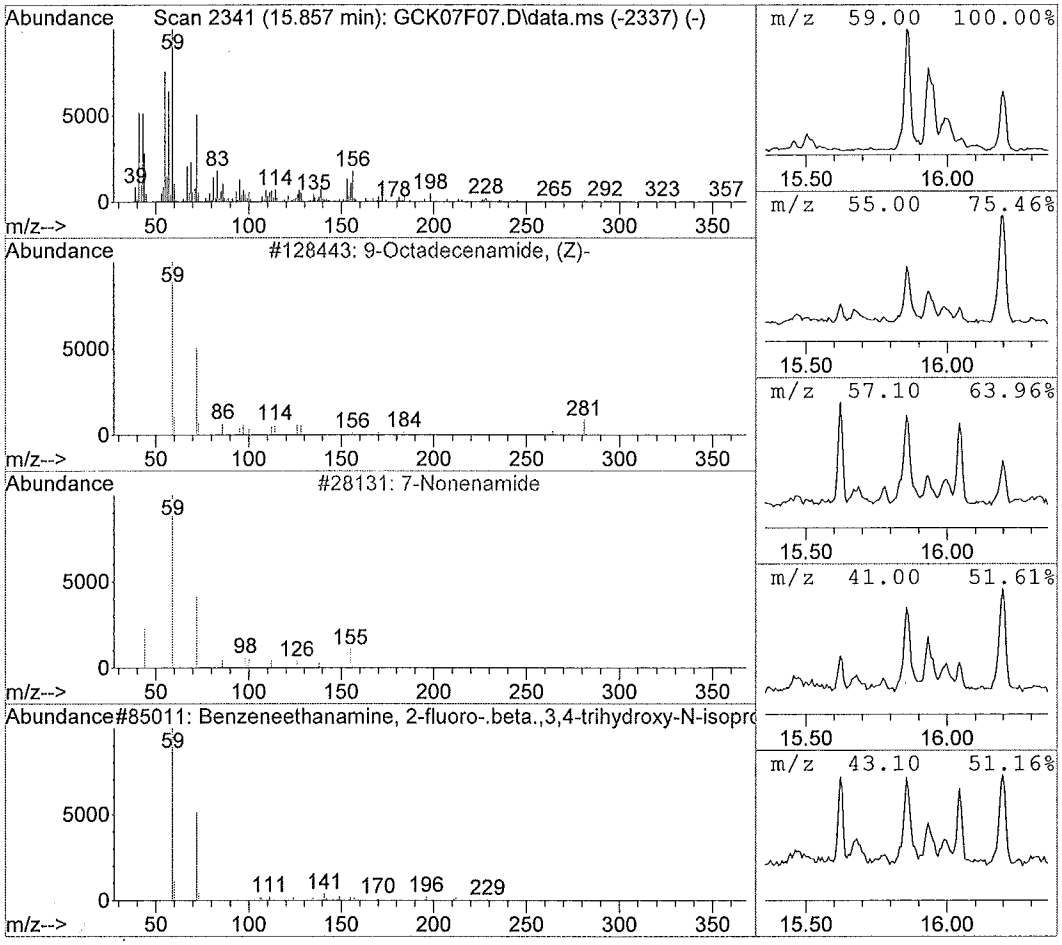
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.40 ug/ml	710807	Chrysene-d12	4185963

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	89.00
2	7-Nonenamide	28131	090949-53-4	76.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	52.00
4	Tetradecanamide	83609	000638-58-4	49.00
5	.alpha.-Methyl-.alpha.-[4-methyl-3-	38138	1000132-13-0	43.00



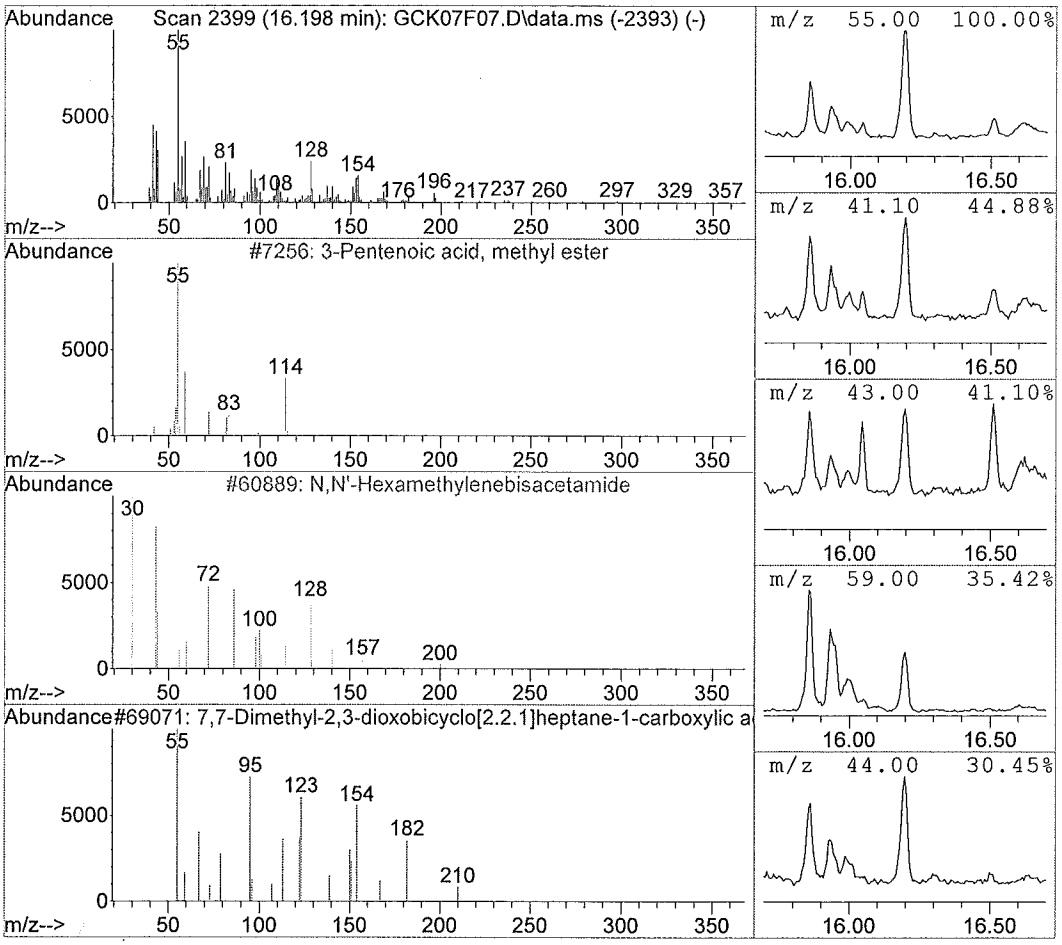
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	5.00 ug/ml	1047339	Chrysene-d12	4185963

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	14.00
2	N,N'-Hexamethylenebisacetamide	60889	003073-59-4	12.00
3	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	11.00
4	2,6-Octadienoic acid, 3-methyl-, me	36504	055283-12-0	10.00
5	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	10.00



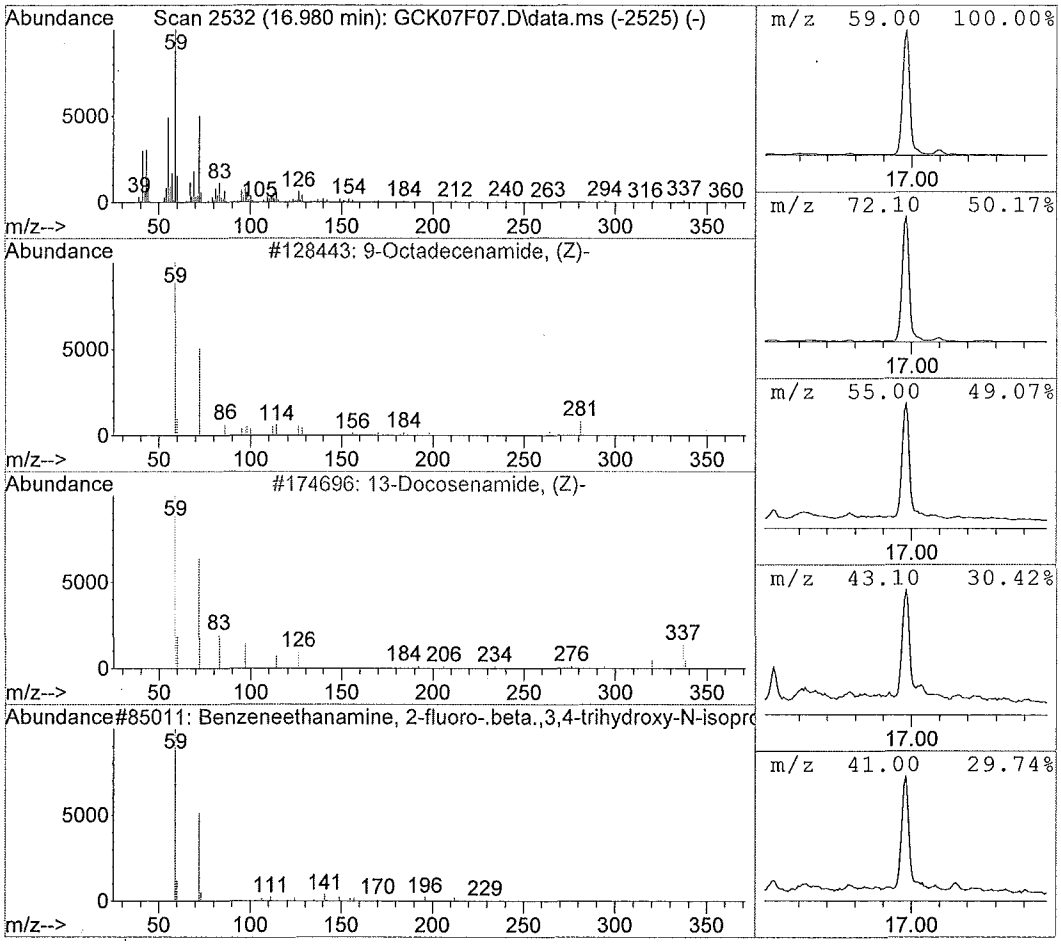
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	20.93 ug/ml	3637791	Perylene-d12	3476281

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	72.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
5	Nonanamide	29478	001120-07-6	53.00



Library Search Compound Report

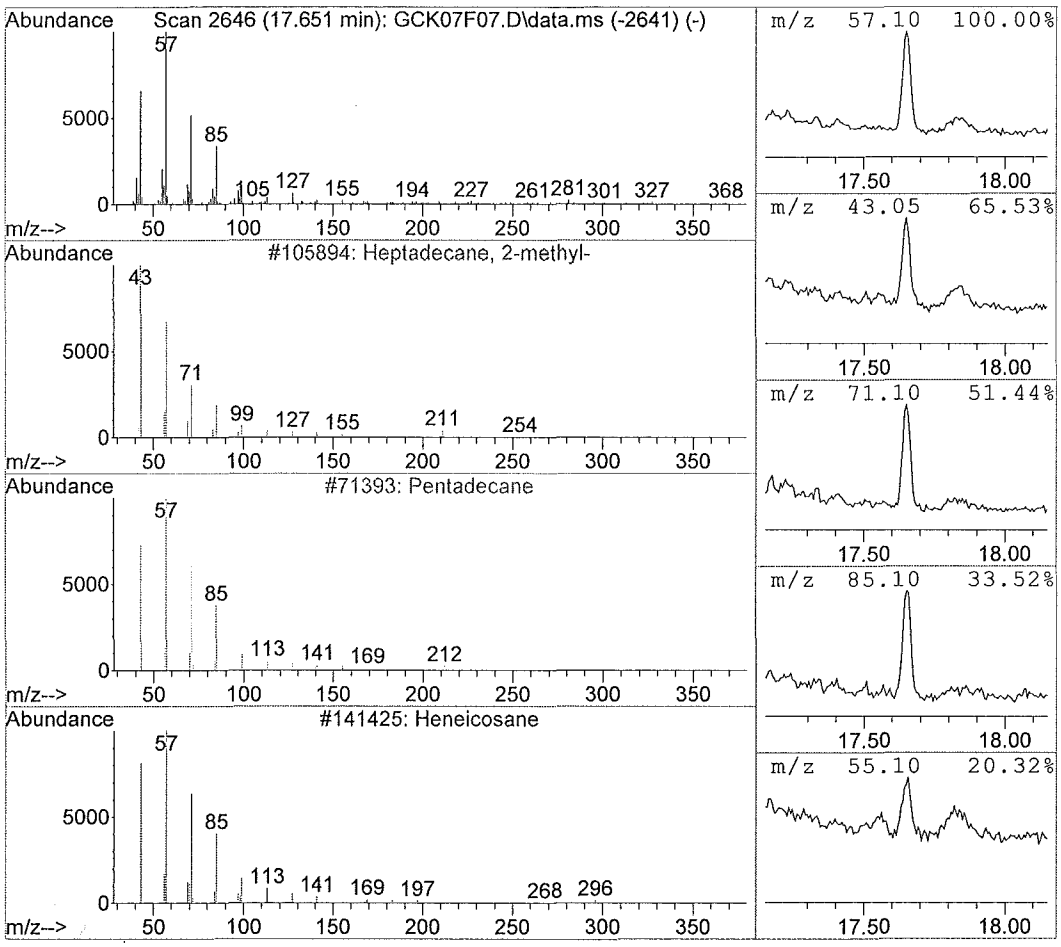
Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	2.07 ug/ml	360612	Perylene-d12	3476281

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2-methyl-	105894	001560-89-0	87.00
2	Pentadecane	71393	000629-62-9	83.00
3	Heneicosane	141425	000629-94-7	83.00
4	Hexadecane	83025	000544-76-3	80.00
5	Hexacosane	194493	000630-01-3	80.00

BA



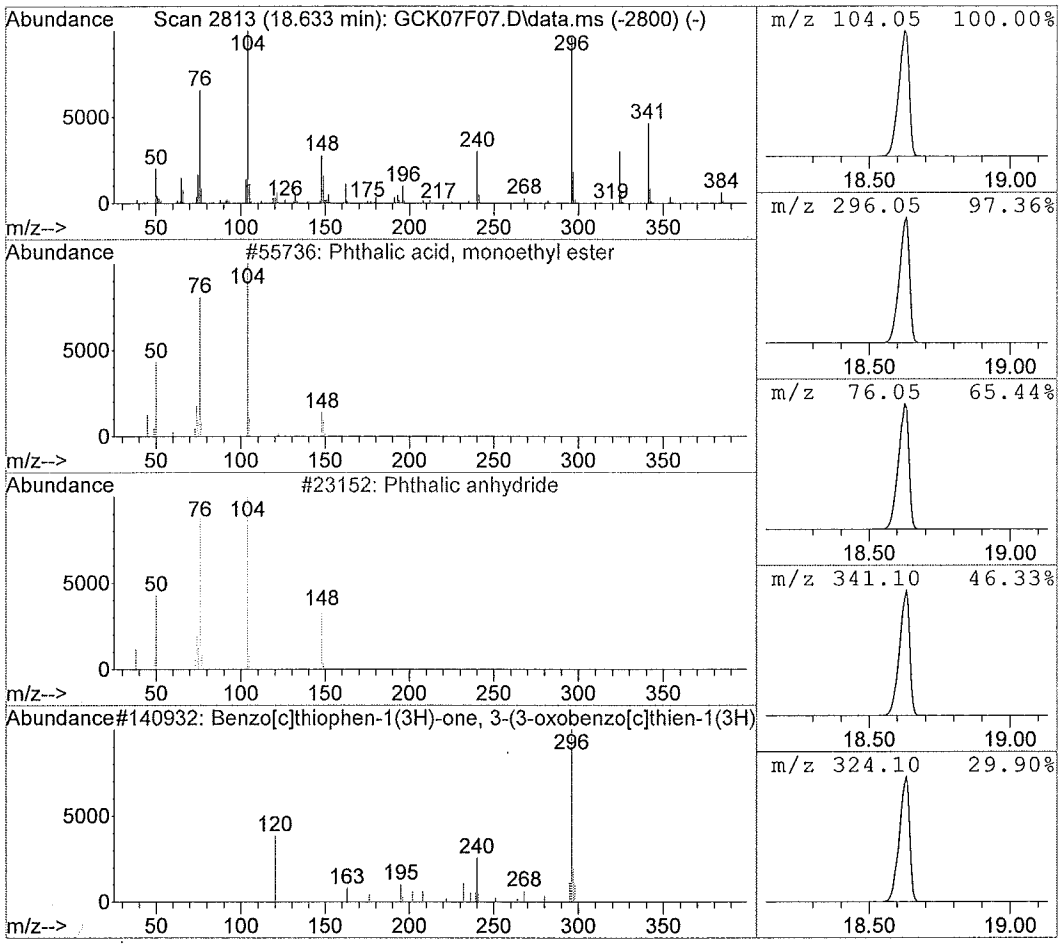
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.63	54.36 ug/ml	9448421	Perylene-d12	3476281

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
2	Phthalic anhydride	23152	000085-44-9	27.00
3	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
4	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
5	1,2-Benzenedicarboxylic acid	35571	000088-99-3	16.00



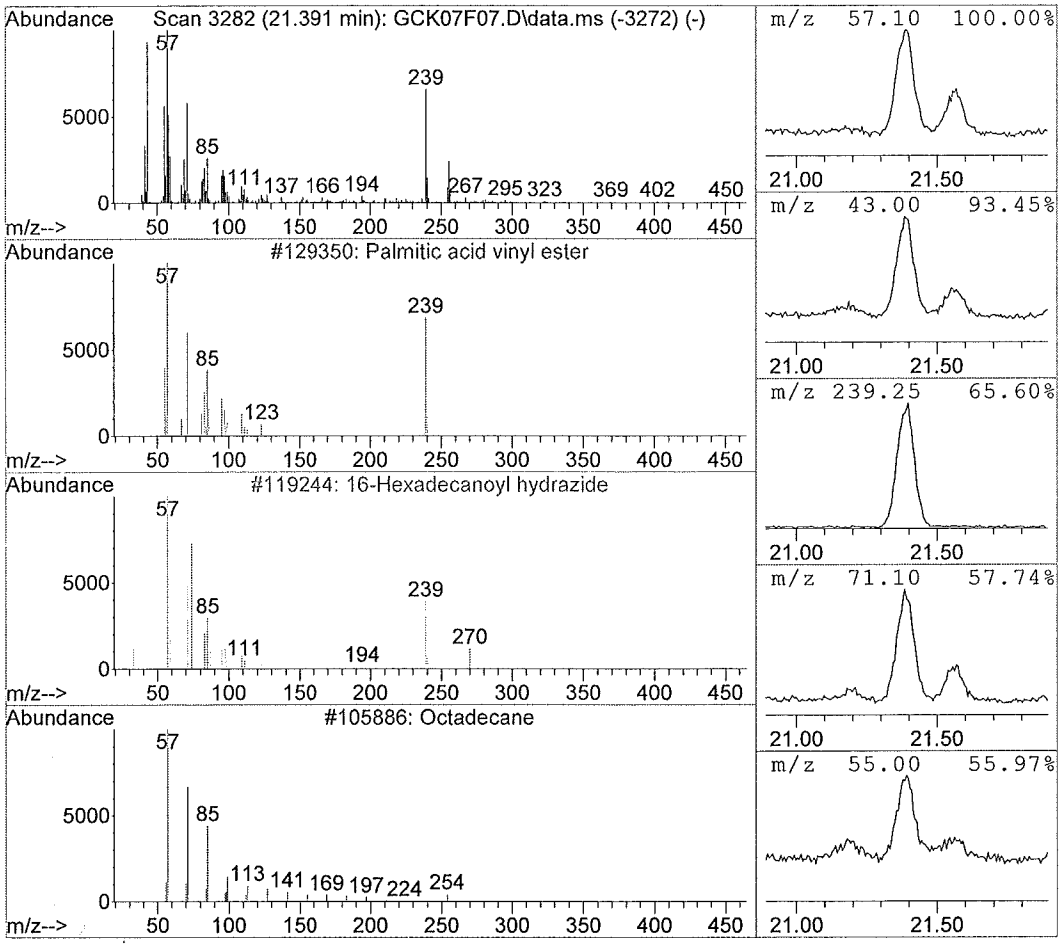
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.39	6.58 ug/ml	1143205	Perylene-d12	3476281

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Palmitic acid vinyl ester	129350	000693-38-9	55.00
2	16-Hexadecanoyl hydrazide	119244	002619-88-7	38.00
3	Octadecane	105886	000593-45-3	35.00
4	16-Hentriacontanone	227190	000502-73-8	35.00
5	Hexadecanoic acid, 4-nitrophenyl es	201038	001492-30-4	30.00



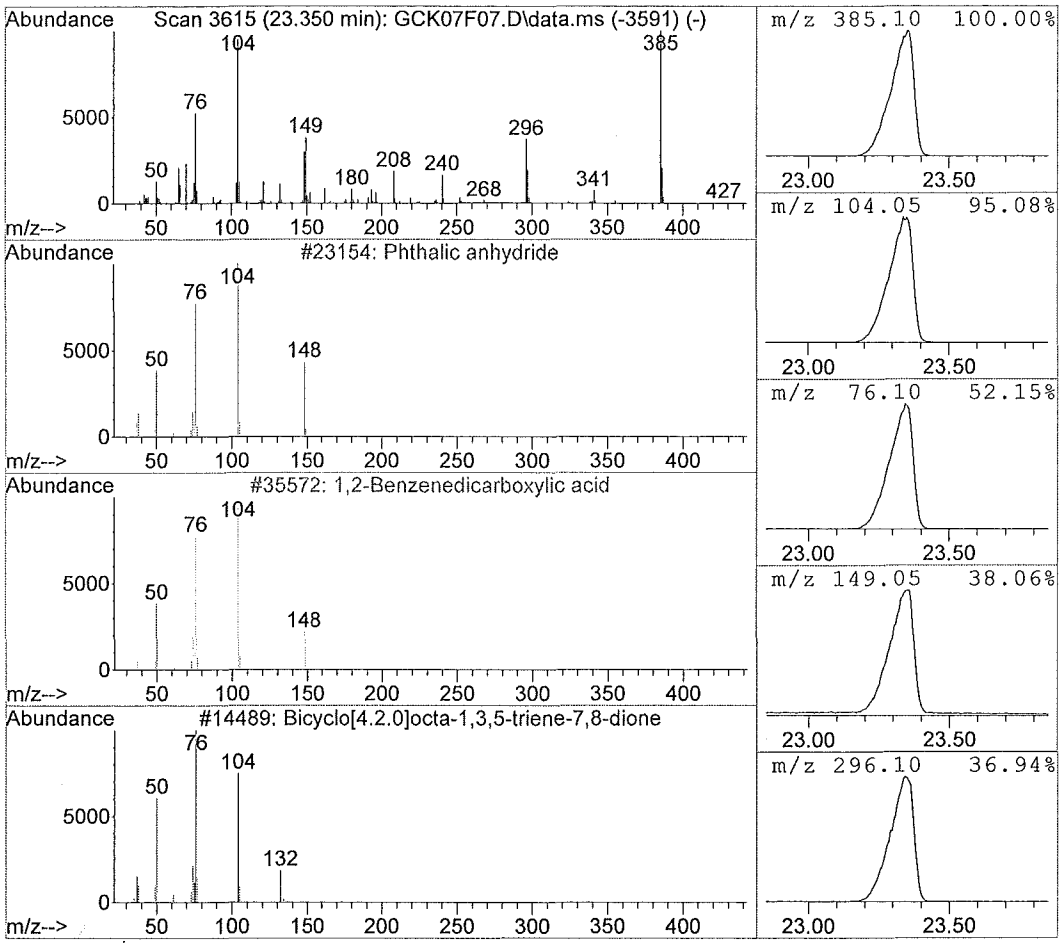
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK07F07.D Vial: 7
Acq On : 07/02/2015 14:09 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.35	71.47 ug/ml	12422891	Perylene-d12	3476281

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	27.00
3	Bicyclo[4.2.0]octa-1,3,5-triene-7,8	14489	006383-11-5	22.00
4	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	14.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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

EPA SAMPLE NO.

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9KY5

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008
Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015
GPC Cleanup: (Y/N) Y pH: 7.7 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	2.55	280	J
02		Unknown 4-Chloro-2-butanone	3.53	92.	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.72	5000	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.49	120	J
05		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	75.	JB
06		Unknown 9-Octadecenamide, (Z)-	14.31	85.	JB
07	629-54-9	Hexadecanamide	14.42	180	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
09		Unknown Cyclohexanecarboxamide	16.50	100	J
10	301-02-0	9-Octadecenamide, (Z)-	17.34	340	JN
11		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	22.07	170	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		

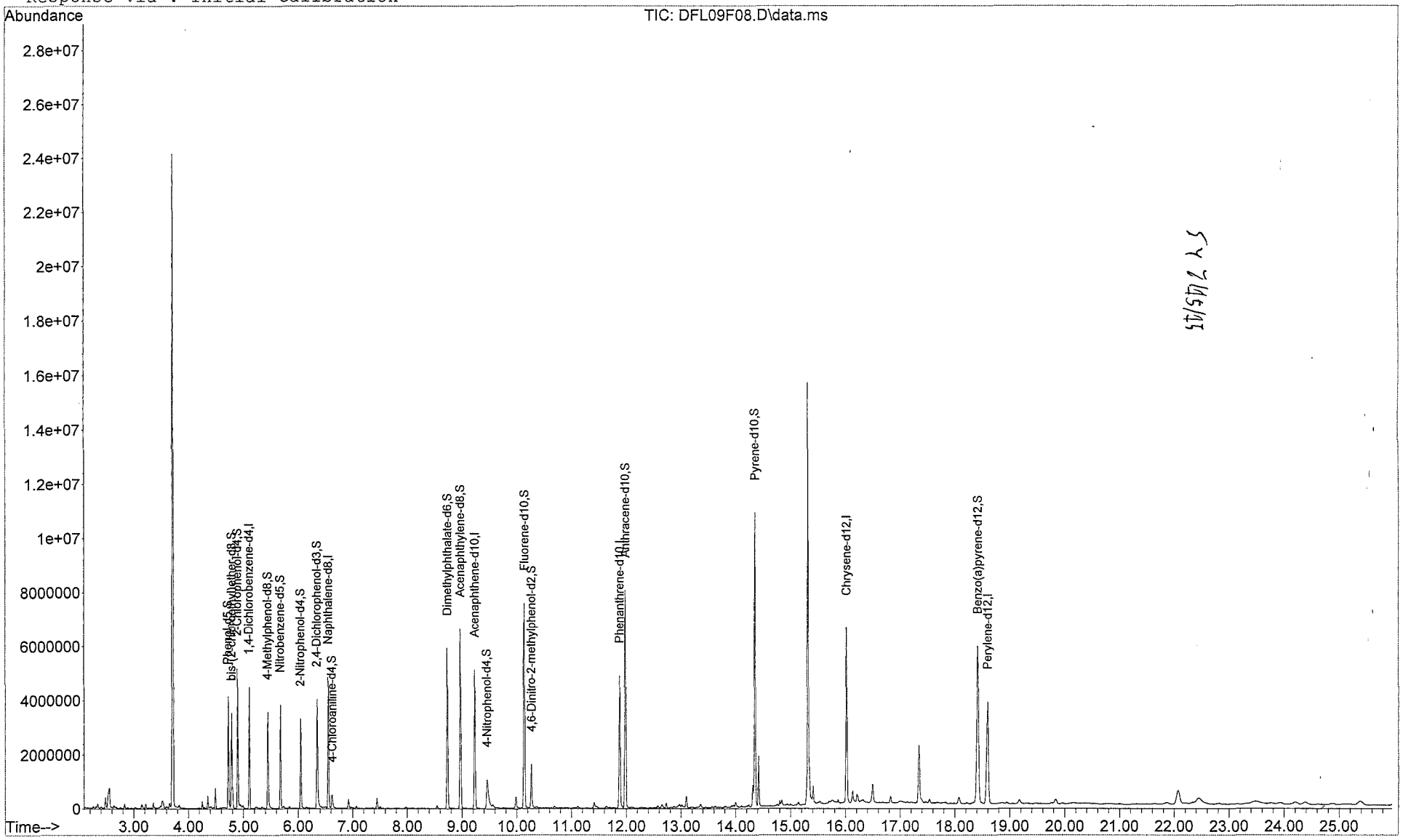
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:14:54 2015 Results File: DSOM01D5.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



5Y 7/15/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:54 2015 Results File: DSOM01D5.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	5.11	152	807287	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2734430	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1704804	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2962688	20.00 ug/ml
73) Chrysene-d12	16.02	240	3502245	20.00 ug/ml
81) Perylene-d12	18.60	264	3391512	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1516658	30.186ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	872993	23.746ug/mL
7) 2-Chlorophenol-d4	4.89	132	1442822	28.810ug/ml
13) 4-Methylphenol-d8	5.45	113	929570	24.682ug/mL
17) Nitrobenzene-d5	5.67	128	617166	27.556ug/ml
21) 2-Nitrophenol-d4	6.05	143	786979	29.631ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1285550	29.953ug/mL
28) 4-Chloroaniline-d4	6.62	131	256361	7.950ug/mL
42) Dimethylphthalate-d6	8.73	166	3679224	35.003ug/mL
45) Acenaphthylene-d8	8.97	160	4372961	31.596ug/mL
50) 4-Nitrophenol-d4	9.46	143	559216	32.033ug/mL
57) Fluorene-d10	10.14	176	3156905	33.989ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	428786	22.918ug/mL
69) Anthracene-d10	11.98	188	5227355	34.439ug/mL
75) Pyrene-d10	14.35	212	5306497	35.979ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5257707	33.875ug/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)

: 88428

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:14:54 2015 Results File: DSOM01D5.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)

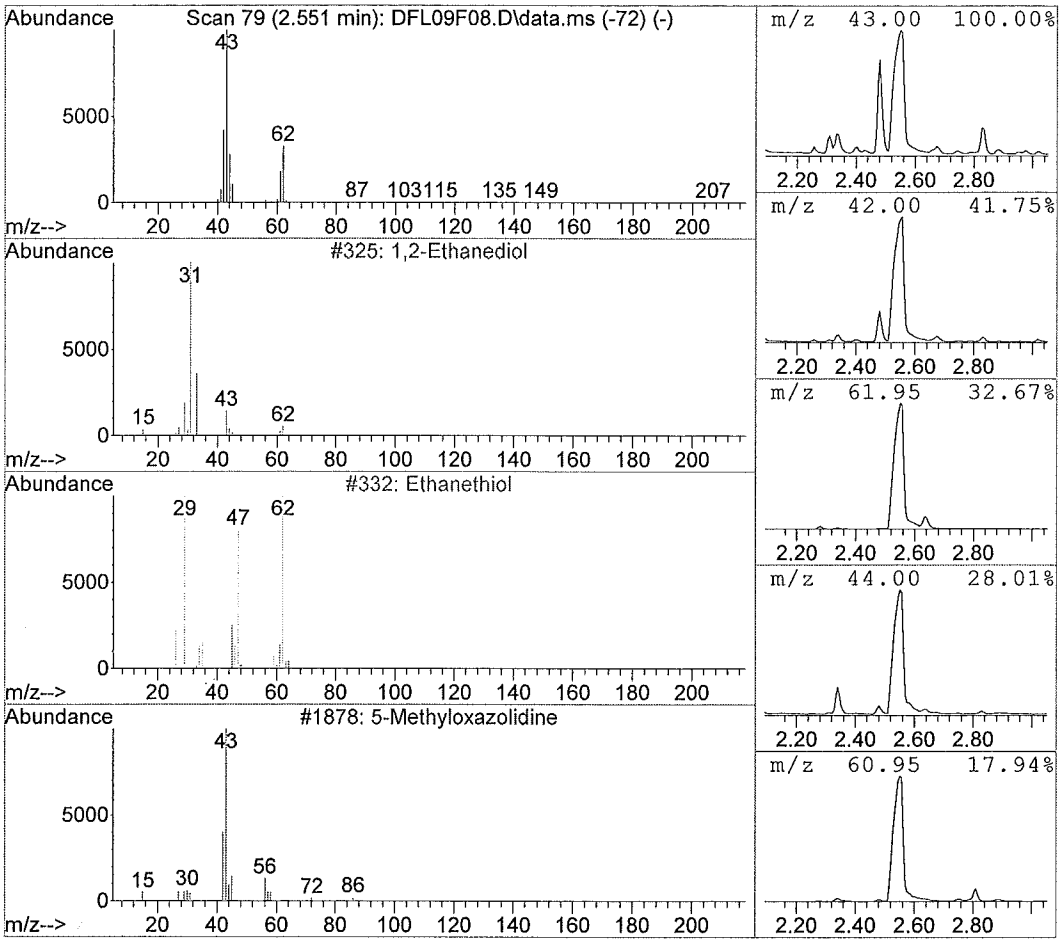
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.55	7.52 ug/ml	1781015	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	42.00
2	Ethanethiol	332	000075-08-1	5.00
3	5-Methyloxazolidine	1878	058328-22-6	4.00
4	Peroxide, dimethyl	328	000690-02-8	4.00
5	Diazirine	62	1000305-84-1	3.00



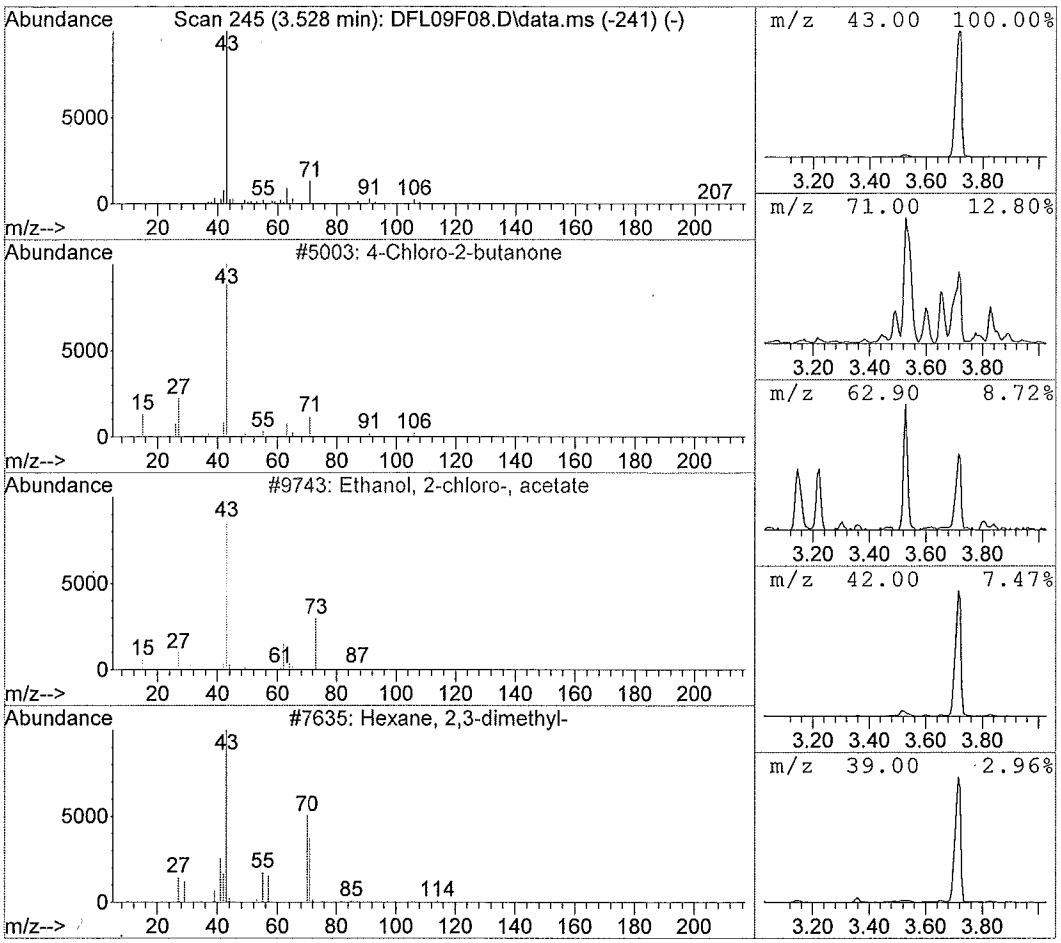
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	2.46 ug/ml	581549	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	50.00
2	Ethanol, 2-chloro-, acetate	9743	000542-58-5	33.00
3	Hexane, 2,3-dimethyl-	7635	000584-94-1	9.00
4	2-Butanone, 3-methyl-	1767	000563-80-4	9.00
5	2-Pentanone	1706	000107-87-9	9.00



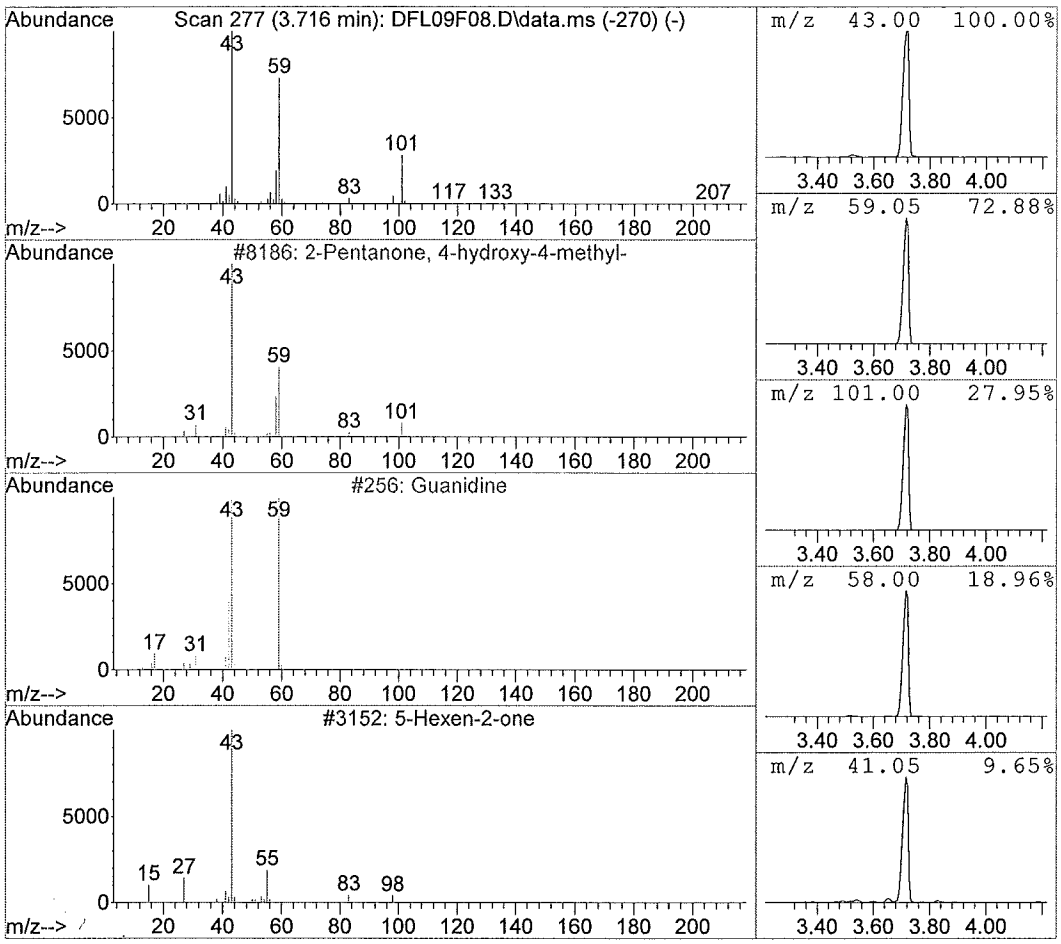
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	133.85 ug/ml	31700832	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	43.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



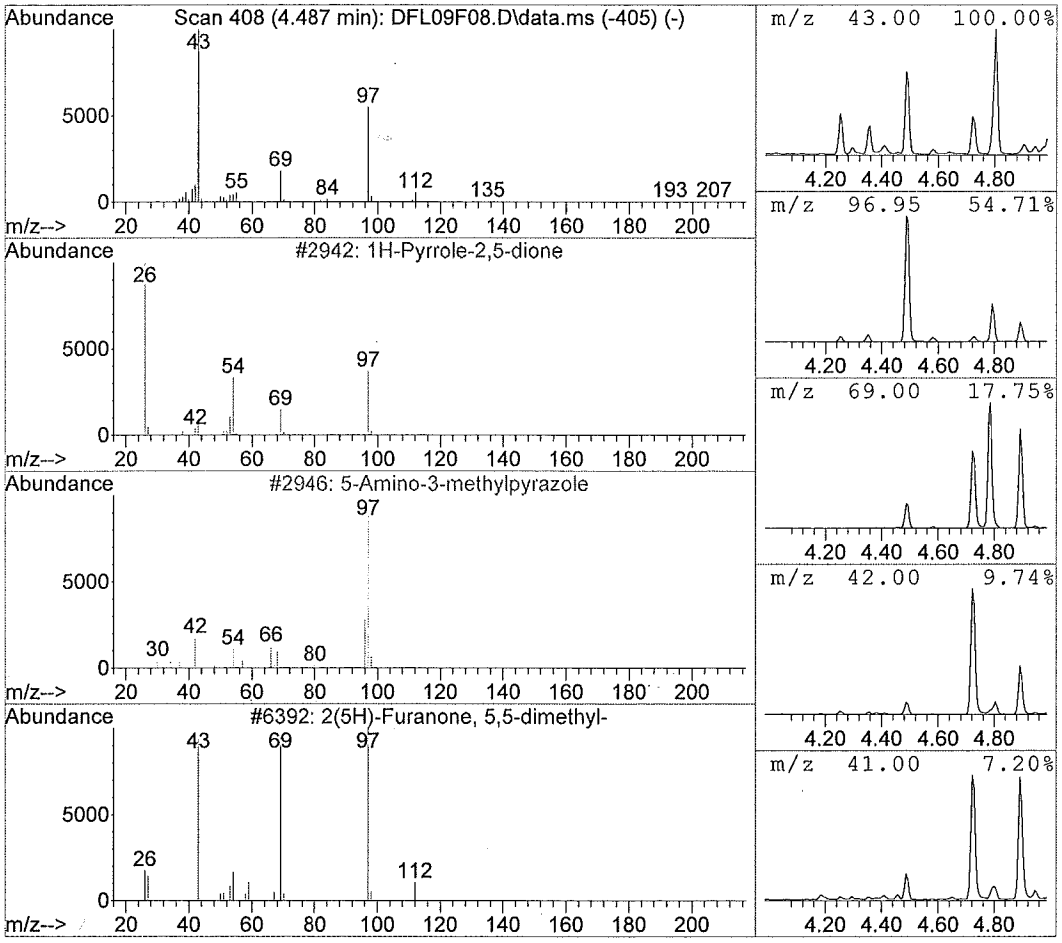
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	3.14 ug/ml	743384	1,4-Dichlorobenzene-d4	4736943

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
3	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00



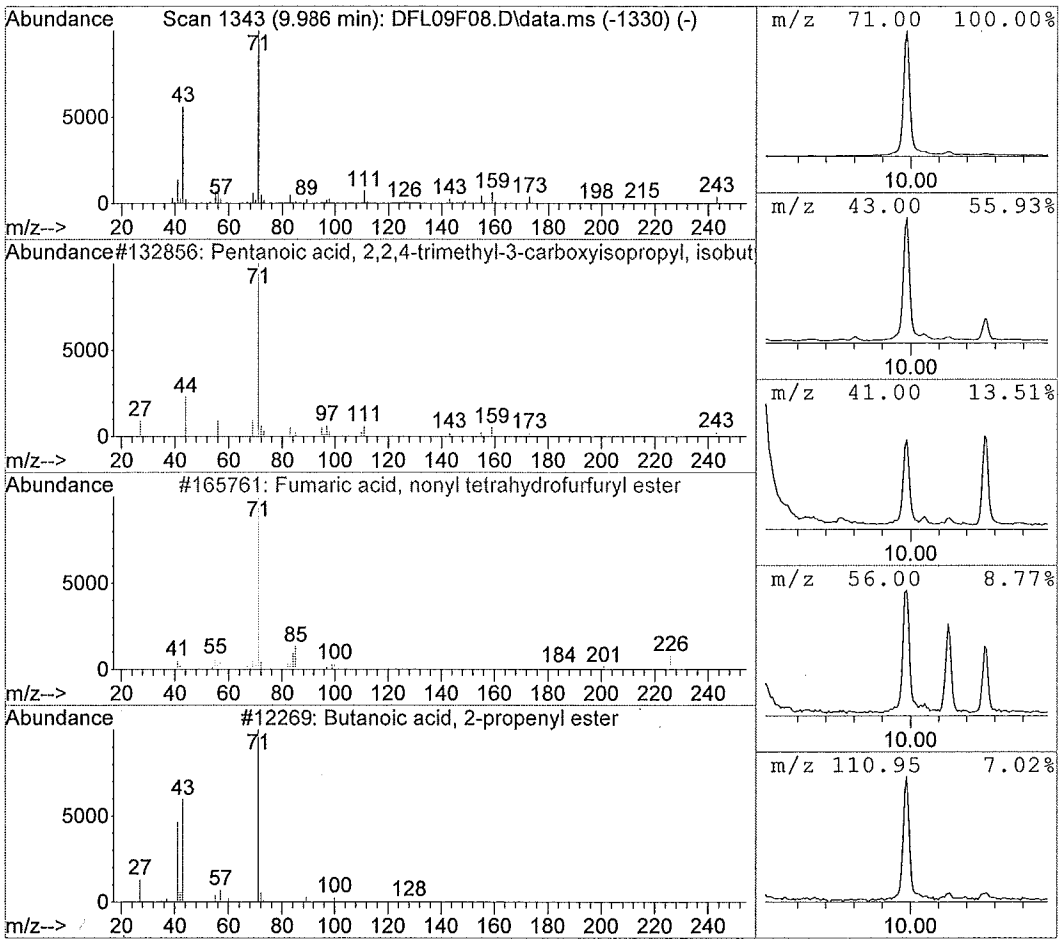
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.01 ug/ml	686727	Acenaphthene-d10	6843885

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	64.00
2	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	53.00
3	Butanoic acid, 2-propenyl ester	12269	002051-78-7	53.00
4	Diethylmalonic acid, monochloride,	111984	1000370-65-0	53.00
5	Decane, 3,3,8-trimethyl-	48906	062338-16-3	45.00



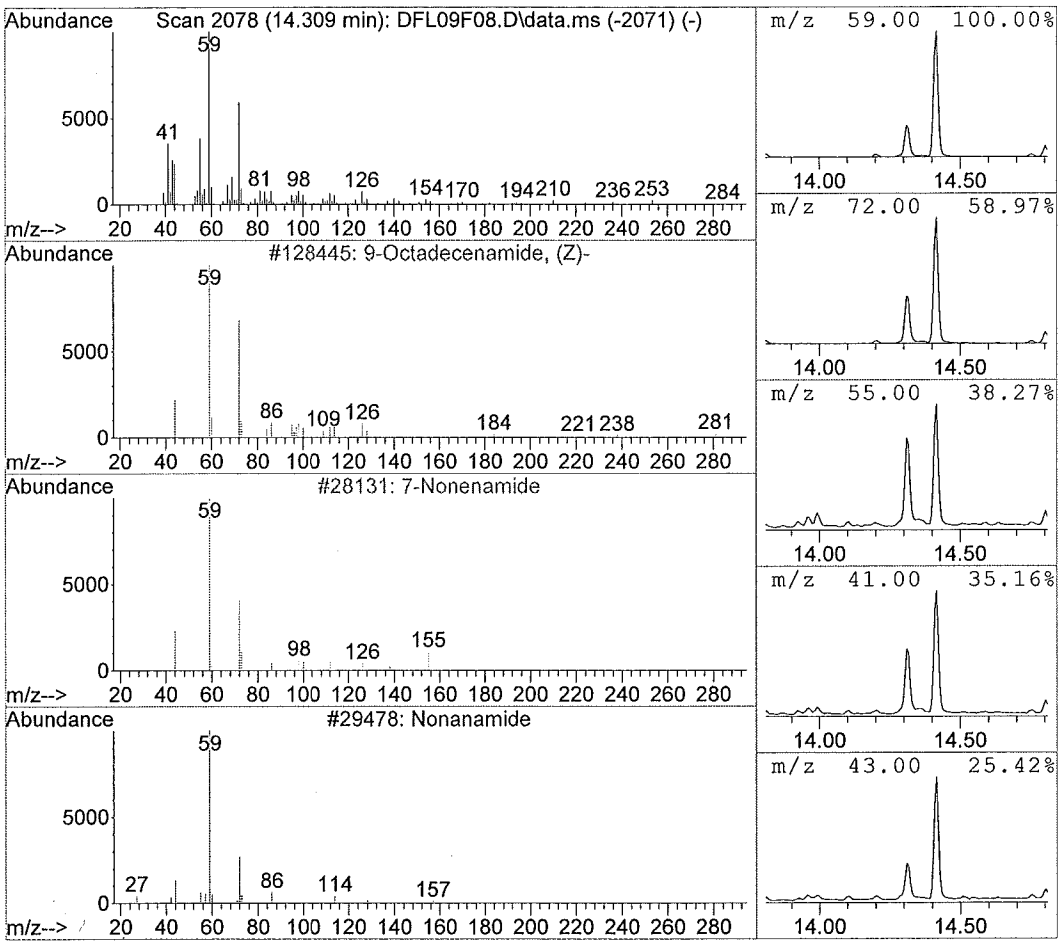
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.26 ug/ml	1034443	Chrysene-d12	9147620

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Nonanamide	29478	001120-07-6	59.00
4	Hexanamide	7793	000628-02-4	59.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	56.00



: 00427

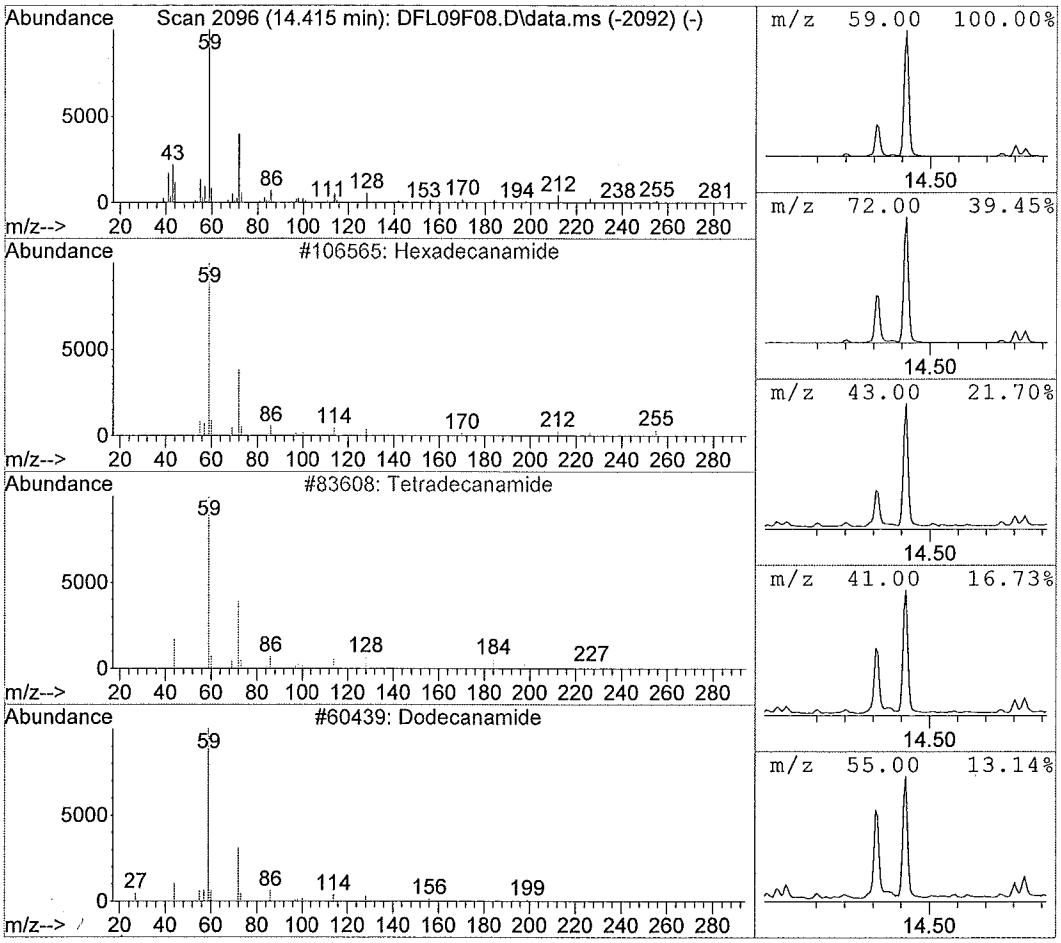
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	4.68 ug/ml	2141003	Chrysene-d12	9147620

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	83.00
5	Nonanamide	29478	001120-07-6	59.00



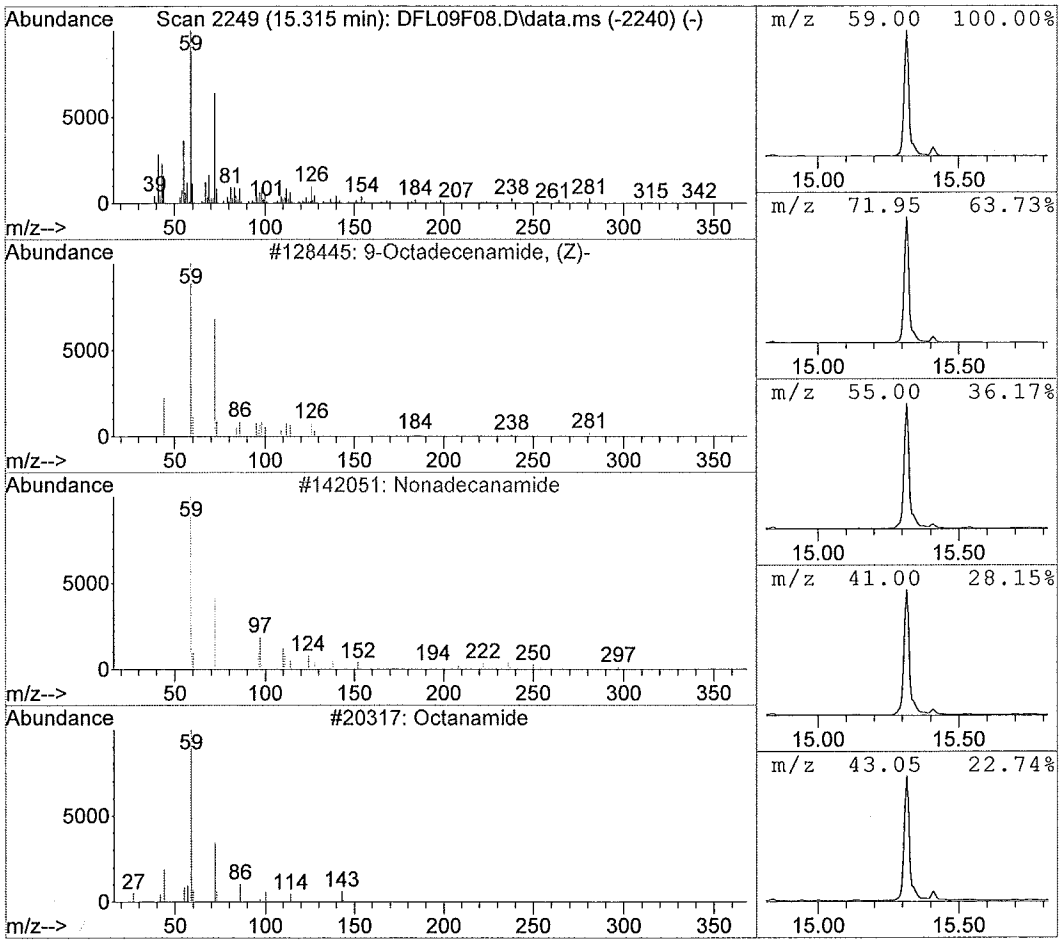
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	42.62 ug/ml	19493915	Chrysene-d12	9147620

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	Octanamide	20317	000629-01-6	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00



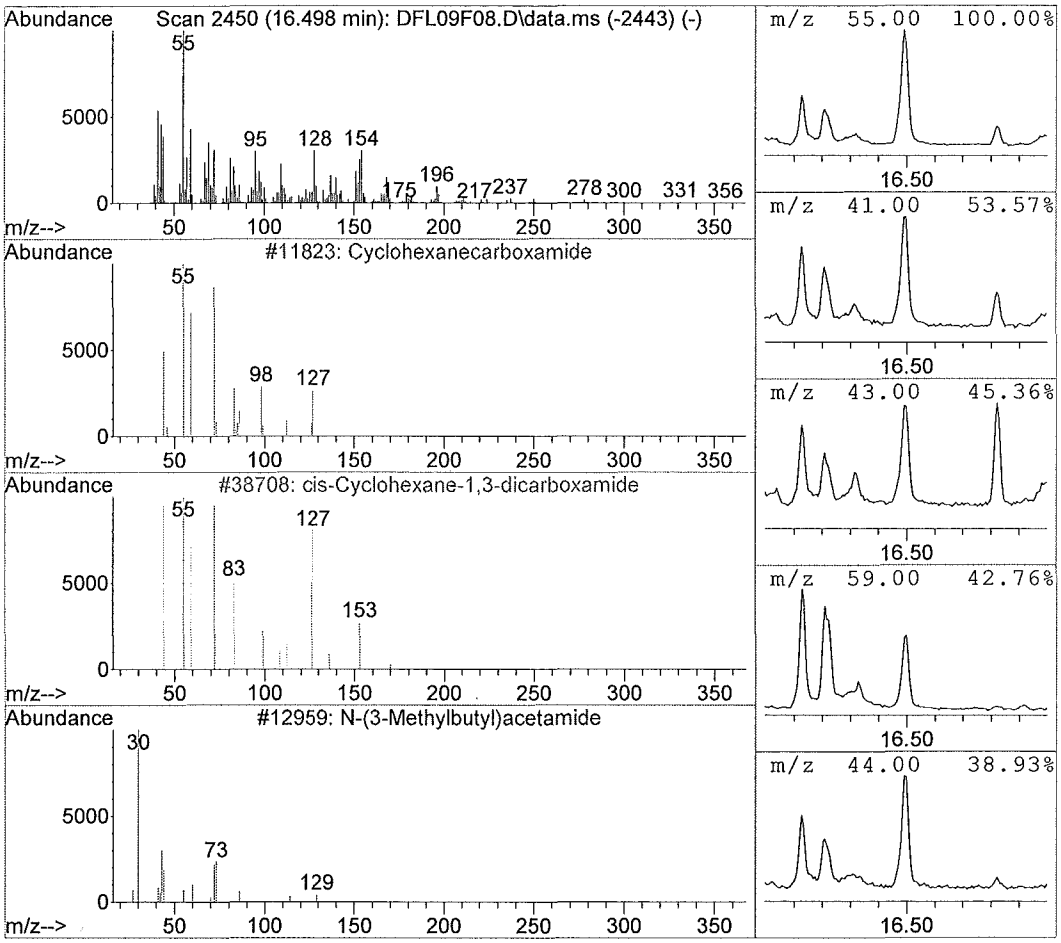
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	2.67 ug/ml	1222723	Chrysene-d12	9147620

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	10.00
3	N-(3-Methylbutyl)acetamide	12959	013434-12-3	10.00
4	4-(Prop-2-enoyloxy)tetradecane	117474	1000245-67-2	10.00
5	Cyclohexylamine, N-(2-chloropropyli	52648	037898-42-3	9.00



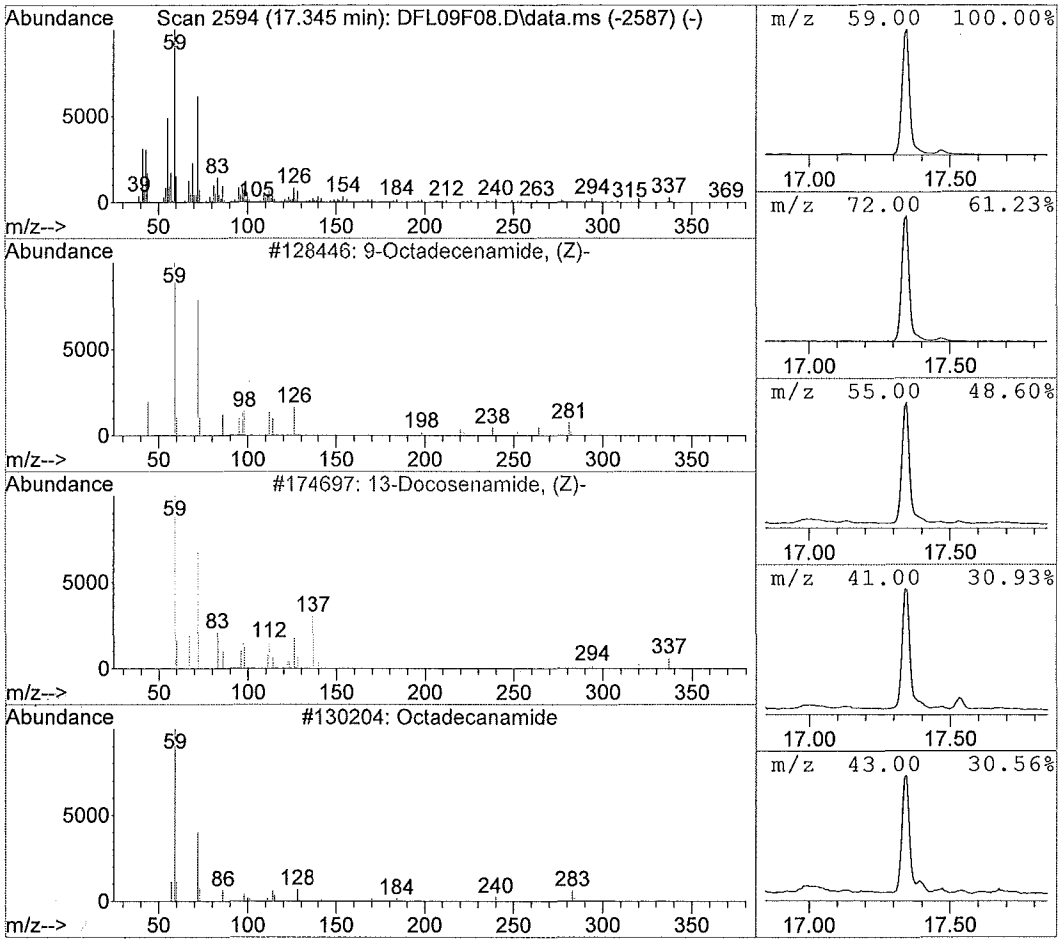
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	9.05 ug/ml	3936536	Perylene-d12	8697155

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	95.00
2	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
3	Octadecanamide	130204	000124-26-5	72.00
4	Tetradecanamide	83610	000638-58-4	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



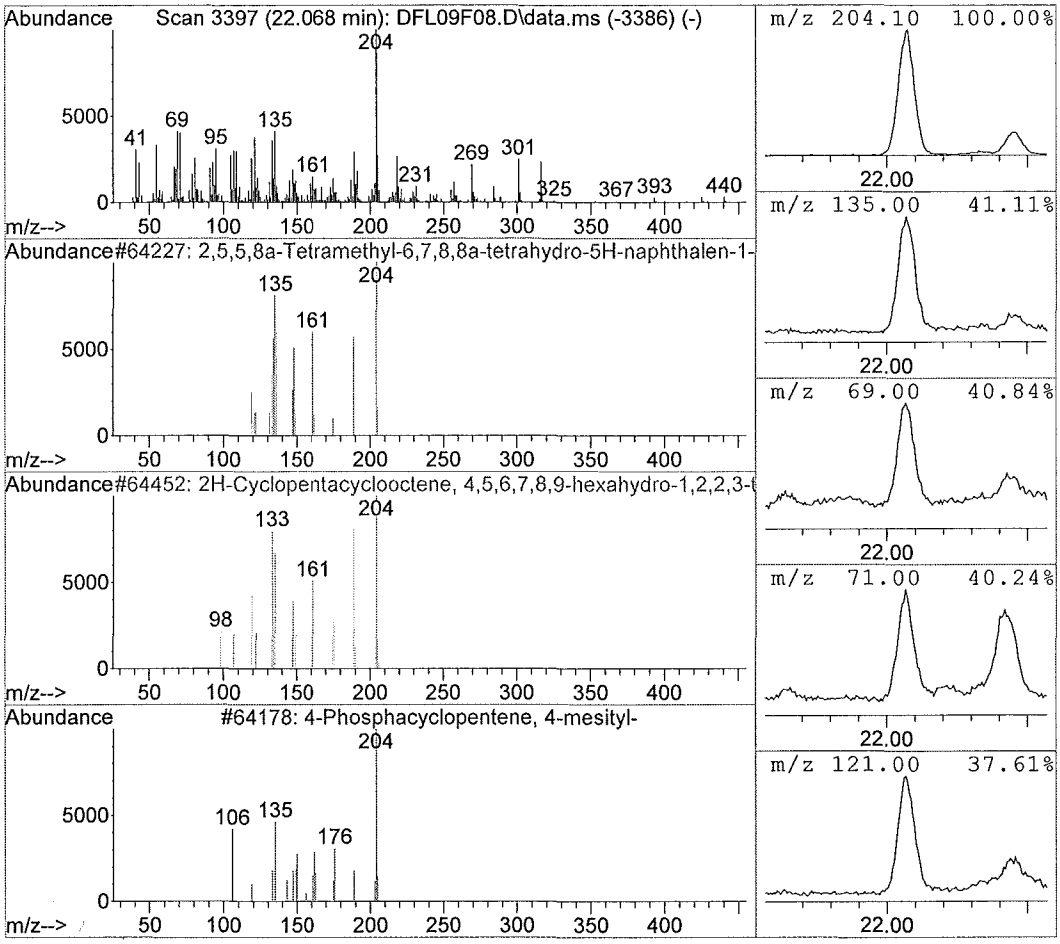
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL09F08.D Vial: 9
Acq On : 05/27/2015 13:20 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.07	4.42 ug/ml	1922104	Perylene-d12	8697155

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	58.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	49.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00



: 00432

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK08F09

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.: F9KY6

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK08F09
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015
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	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	78.	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK08F09

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	814-78-8	3-Buten-2-one, 3-methyl-	2.18	110	JN
02		Unknown 2-Propanone, 1-chloro-	2.26	100	J
03		Unknown Acetamide, N-ethyl-	2.33	430	J
04		Unknown 2H-Pyran, tetrahydro-2-methyl-	2.80	100	J
05		Unknown 4-Chloro-2-butanone	3.31	110	J
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6100	J
07		Unknown 1H-Pyrrole-2,5-dione	4.28	180	J
08		Unknown 2-Pentanone, 3-methyl-	4.59	300	J
09		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	130	J
10		Unknown Hydroxylamine, O-(3-methylbutyl)-	5.09	160	J
11		Unknown Silane, tetraethyl-	5.37	96.	J
12	552-41-0	Ethanone, 1-(2-hydroxy-4-methoxyphenyl)-	8.46	110	JN
13	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	100	JN
14		Unknown Lanceol, cis	12.27	260	J
15	112-39-0	Hexadecanoic acid, methyl ester	12.40	130	JN
16	57-10-3	n-Hexadecanoic acid	12.66	270	JN
17		Unknown Dodecanamide	12.77	120	J
18		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.99	110	J
19	13481-95-3	10-Octadecenoic acid, methyl ester	13.68	100	JN
20	1120-16-7	Dodecanamide	14.15	400	JN
21	301-02-0	9-Octadecenamide, (Z)-	15.08	2800	JN
22	629-54-9	Hexadecanamide	15.17	130	JN
23		Unknown 7-Nonenamide	15.86	150	J
24		Unknown 2-Pentenoic acid, 2,3-dimethyl-	16.20	230	J
25		Unknown Acetic acid, 2-[5-(4-nitrophenyl)-1-imid	16.51	420	J
26	301-02-0	9-Octadecenamide, (Z)-	16.98	1800	JN
27	111-02-4	Squalene	17.16	200	JN
28		Unknown 3-Methoxy-D-homoestra-1,3,5(10),8-tetrae	18.61	180	J
29	83-46-5	.beta.-Sitosterol	22.29	450	JN
30	58-22-0	Testosterone	24.18	580	JN
	E966796[2]	Total Alkanes	N/A	1000	J

[2] EPA-designated Registry Number.

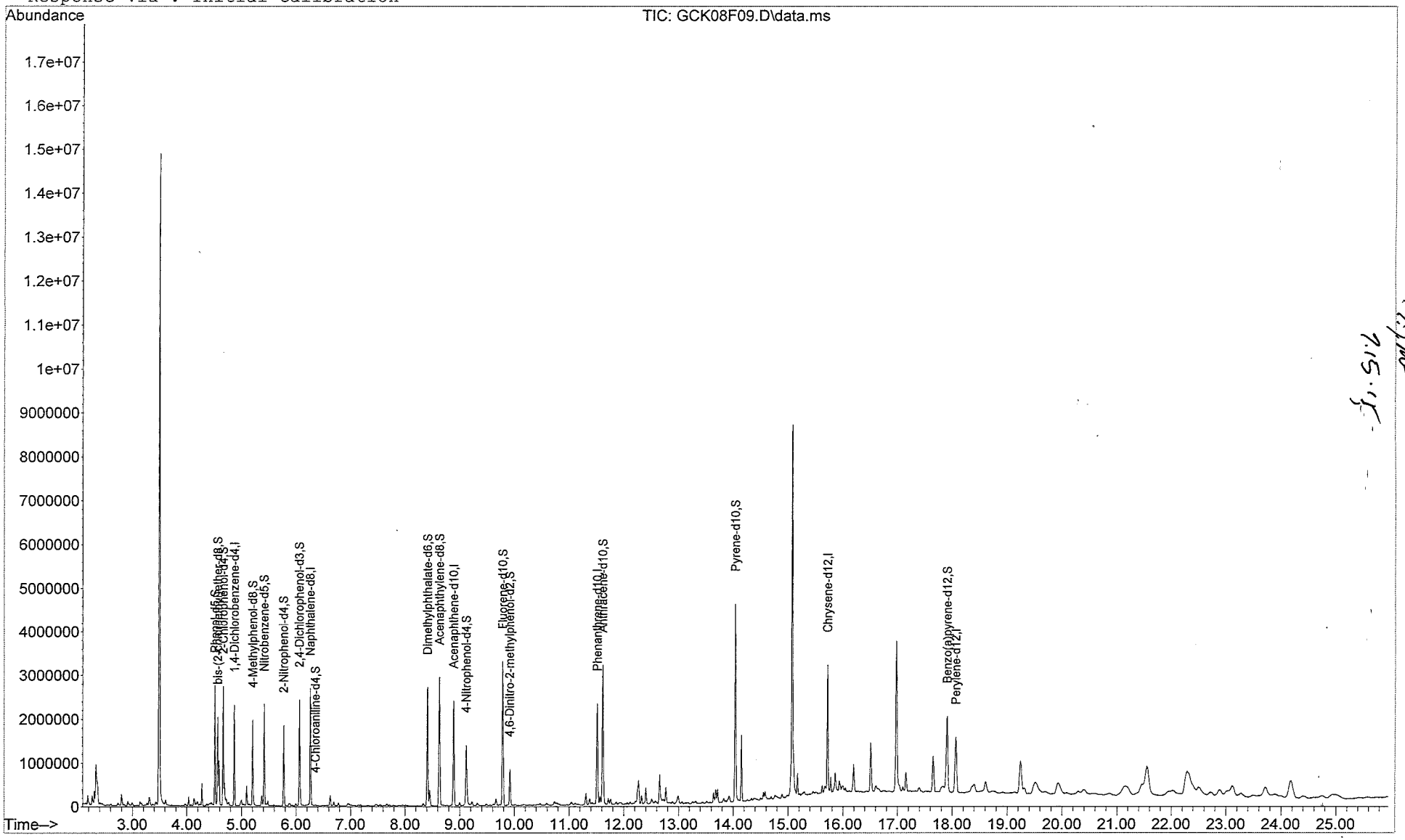
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 15:00:24 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 15:00:24 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	340901	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1292133	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	743903	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1253413	20.00 ug/ml
73) Chrysene-d12	15.72	240	1188132	20.00 ug/ml
81) Perylene-d12	18.07	264	942386	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	787278	26.538ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	483730	20.924ug/mL
7) 2-Chlorophenol-d4	4.66	132	626975	25.031ug/ml
13) 4-Methylphenol-d8	5.20	113	398855	20.101ug/mL
17) Nitrobenzene-d5	5.42	128	277545	24.451ug/ml
21) 2-Nitrophenol-d4	5.77	143	299521	24.964ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	510643	27.333ug/mL
28) 4-Chloroaniline-d4	6.36	131	11949	0.586ug/mL
42) Dimethylphthalate-d6	8.42	166	1436749	30.800ug/mL
45) Acenaphthylene-d8	8.63	160	1786930	28.188ug/mL
50) 4-Nitrophenol-d4	9.12	143	291582	30.640ug/mL
57) Fluorene-d10	9.79	176	1210835	30.395ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	140636	15.808ug/mL
69) Anthracene-d10	11.62	188	1907221	28.693ug/mL
75) Pyrene-d10	14.04	212	1825706	30.791ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1254269	27.776ug/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)

: 88437

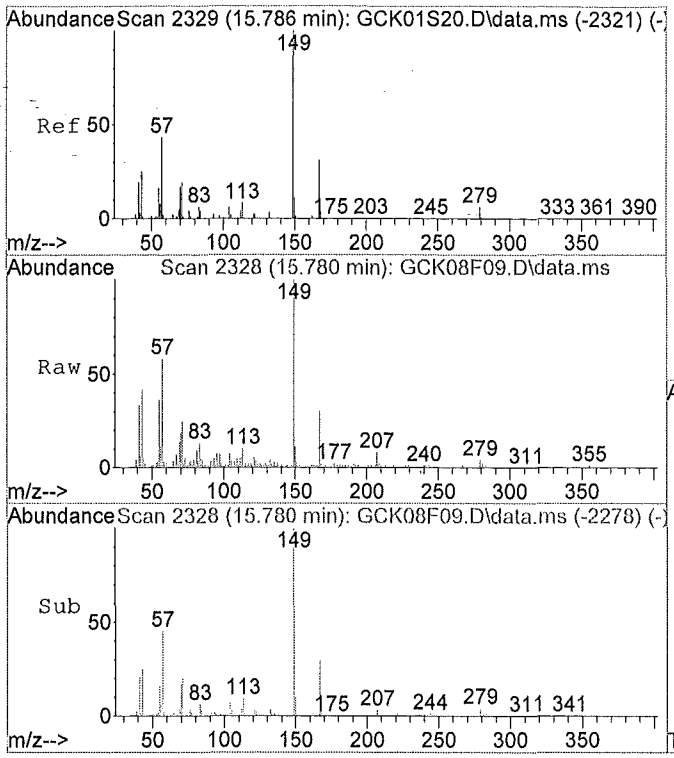
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 15:00:24 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 14:40:07 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	113804	1.937ug/ml	96
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	

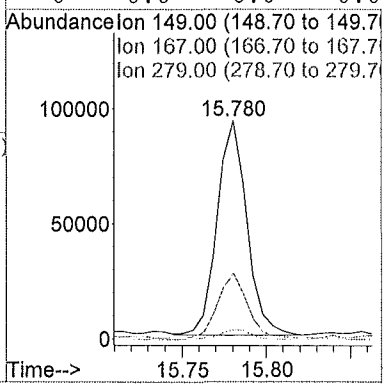
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.94 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCK08F09.D
Acq: 07/02/2015 14:42

Tgt Ion:149 Resp: 113804

Ion	Ratio	Lower	Upper
149	100		
167	29.5	22.0	40.8
279	4.7	5.0	9.2#
0	0.0	0.0	0.0



Library Search Compound Report

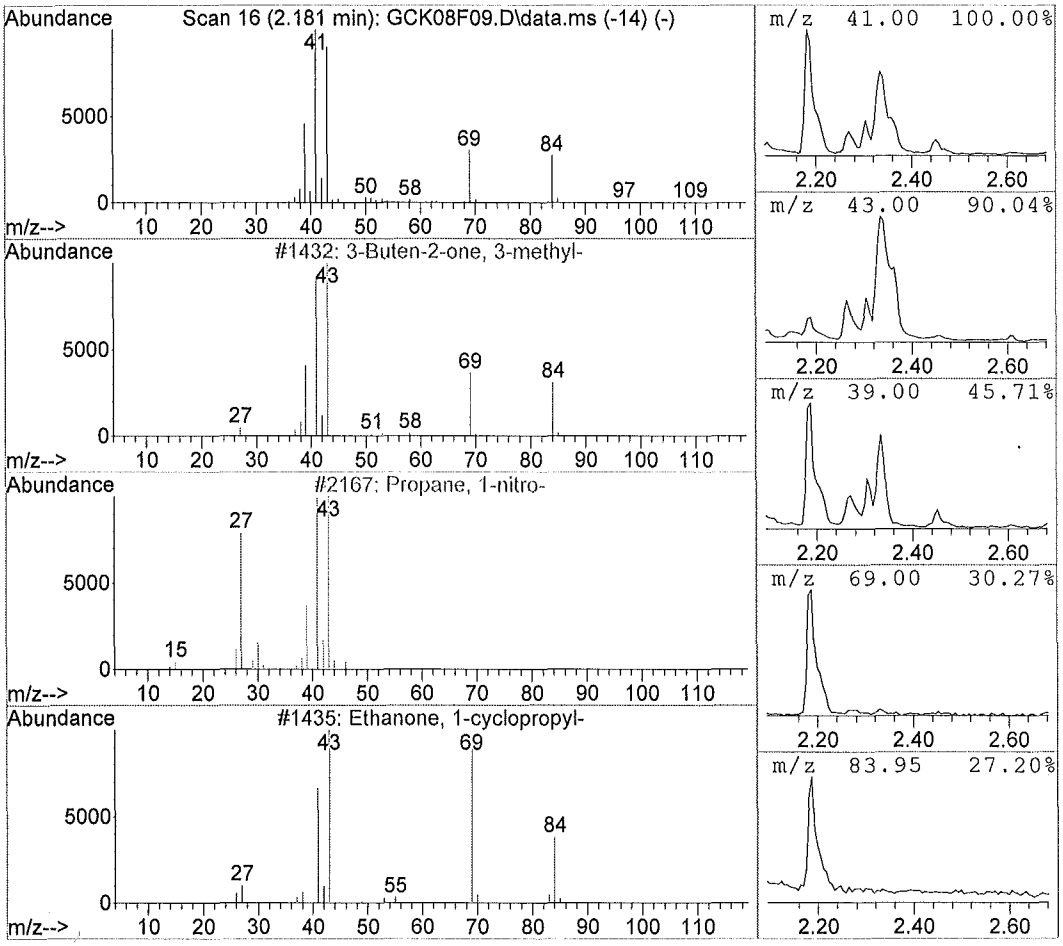
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	2.60 ug/ml	309600	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Propane, 1-nitro-	2167	000108-03-2	45.00
3	Ethanone, 1-cyclopropyl-	1435	000765-43-5	43.00
4	3-Penten-2-one	1397	000625-33-2	40.00
5	2-Butanone, 4-hydroxy-3-(hydroxymet	14338	006868-97-9	37.00



: 00449

Library Search Compound Report

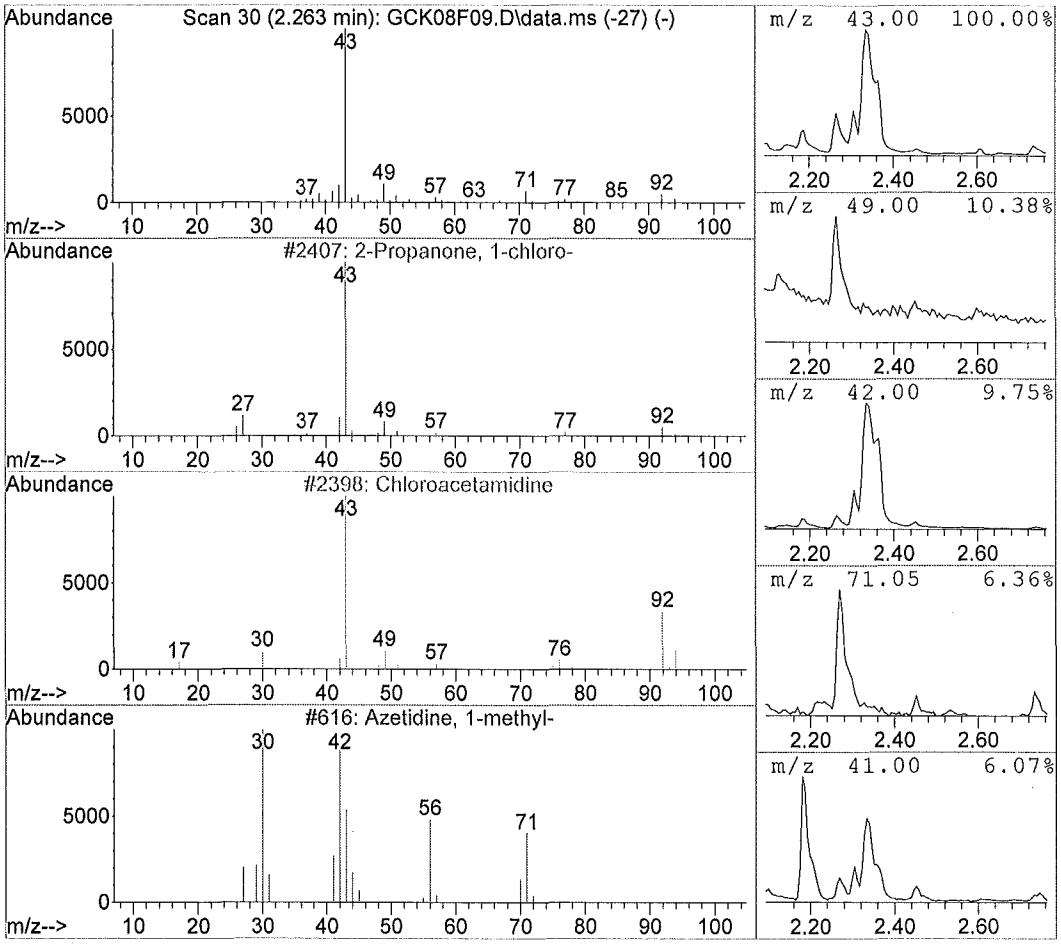
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.52 ug/ml	299481	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	83.00
2	Chloroacetamidine	2398	020846-52-0	9.00
3	Azetidine, 1-methyl-	616	004923-79-9	5.00
4	Azetidine, 2-methyl-	615	019812-49-8	4.00
5	Aziridine, 2,2-dimethyl-	619	002658-24-4	4.00



00441

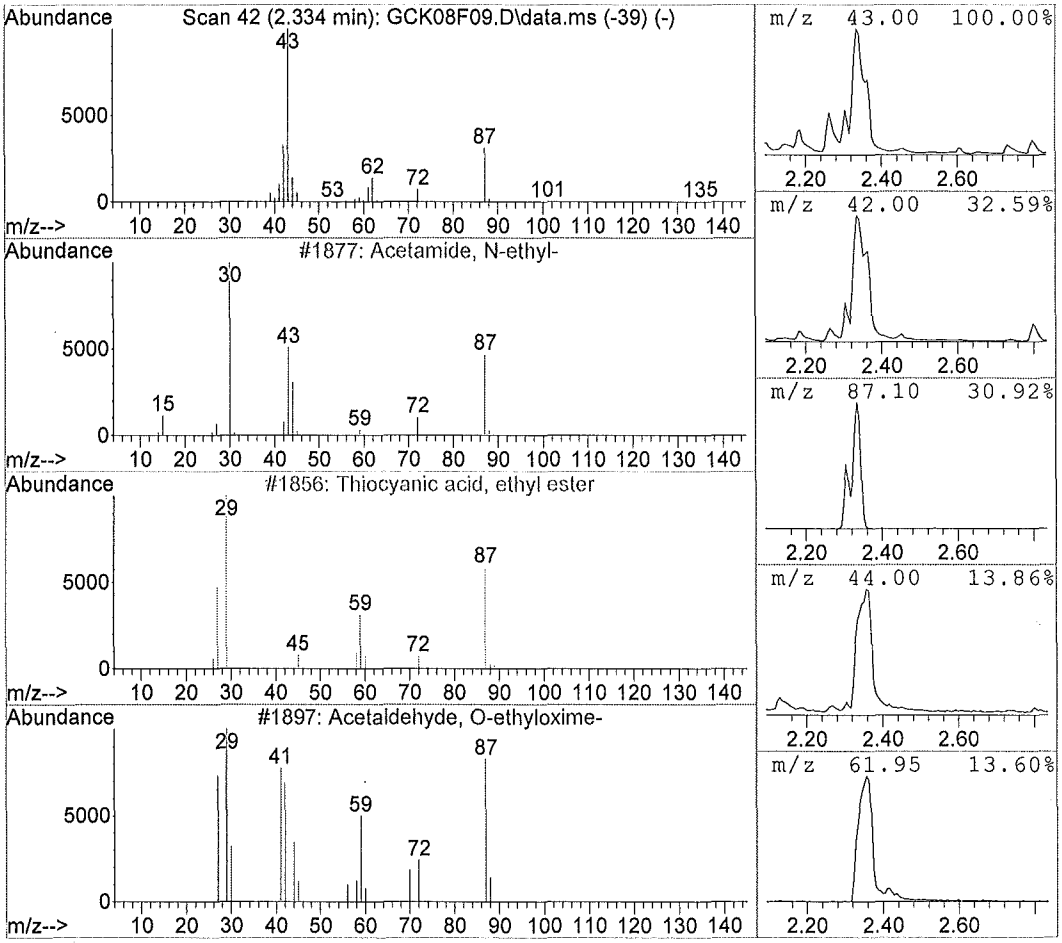
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	10.60 ug/ml	1260549	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetamide, N-ethyl-	1877	000625-50-3	9.00
2	Thiocyanic acid, ethyl ester	1856	000542-90-5	9.00
3	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00
4	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
5	Glyceraldehyde	2253	000056-82-6	9.00



:0442

Library Search Compound Report

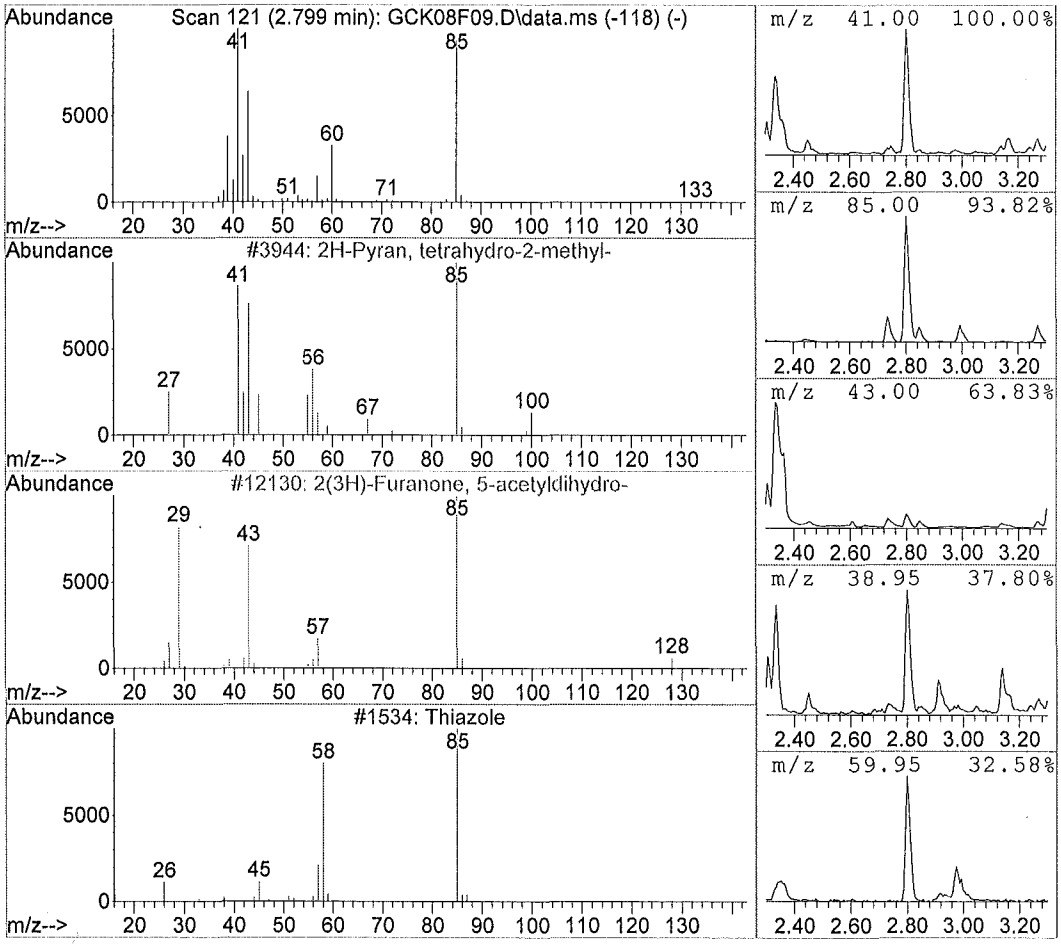
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	2.57 ug/ml	305299	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran, tetrahydro-2-methyl-	3944	010141-72-7	38.00
2	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	28.00
3	Thiazole	1534	000288-47-1	25.00
4	Methacrylamide	1540	000079-39-0	9.00
5	Acetic acid	262	000064-19-7	9.00



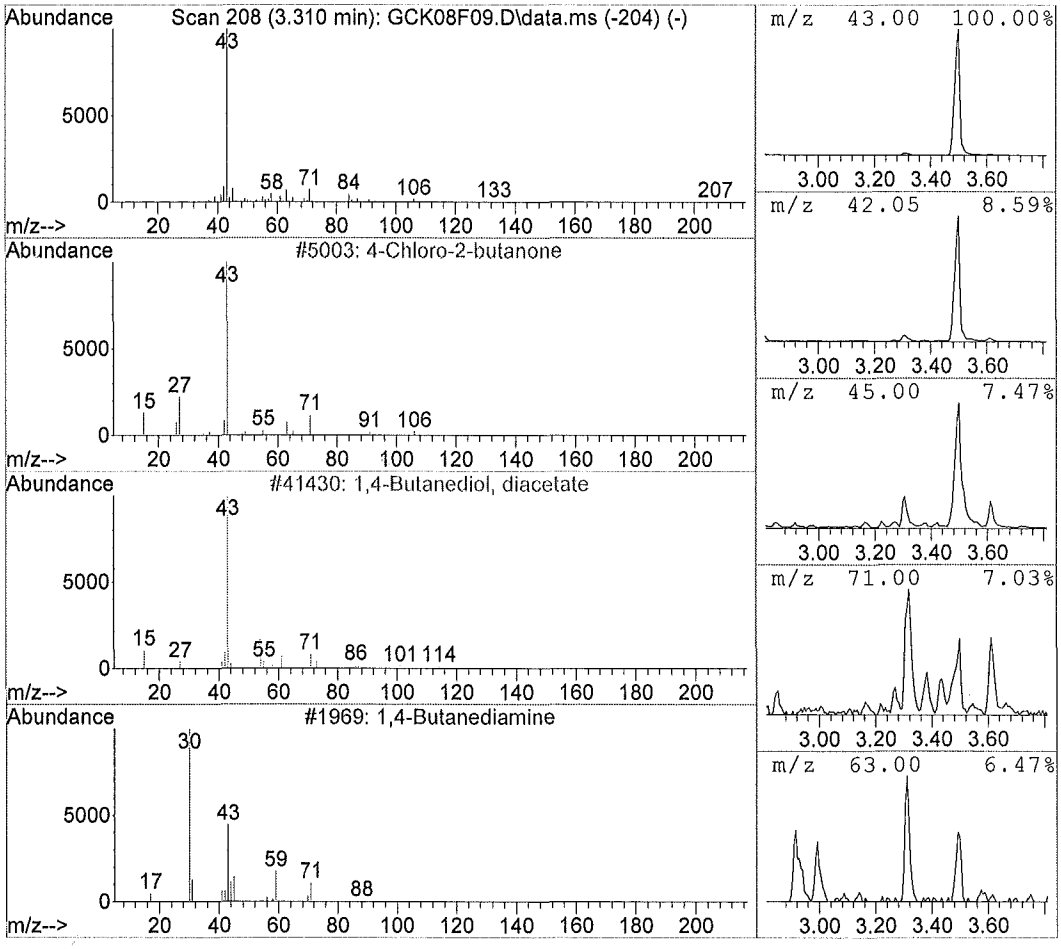
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	2.76 ug/ml	327658	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	35.00
2	1,4-Butanediol, diacetate	41430	000628-67-1	25.00
3	1,4-Butanediamine	1969	000110-60-1	9.00
4	2-Pentanone, 5-hydroxy-	4270	001071-73-4	9.00
5	2-Butanone, 3-chloro-	5007	004091-39-8	9.00



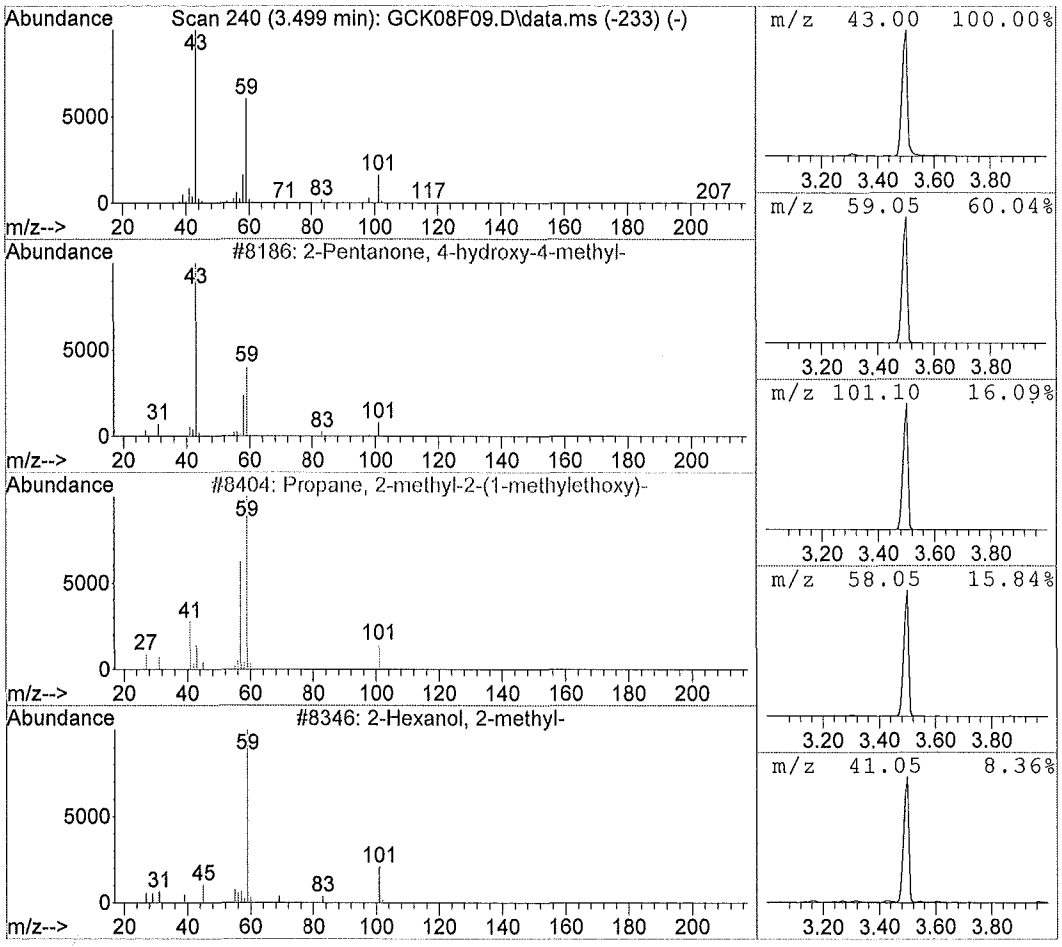
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	150.24 ug/ml	17861834	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	36.00
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



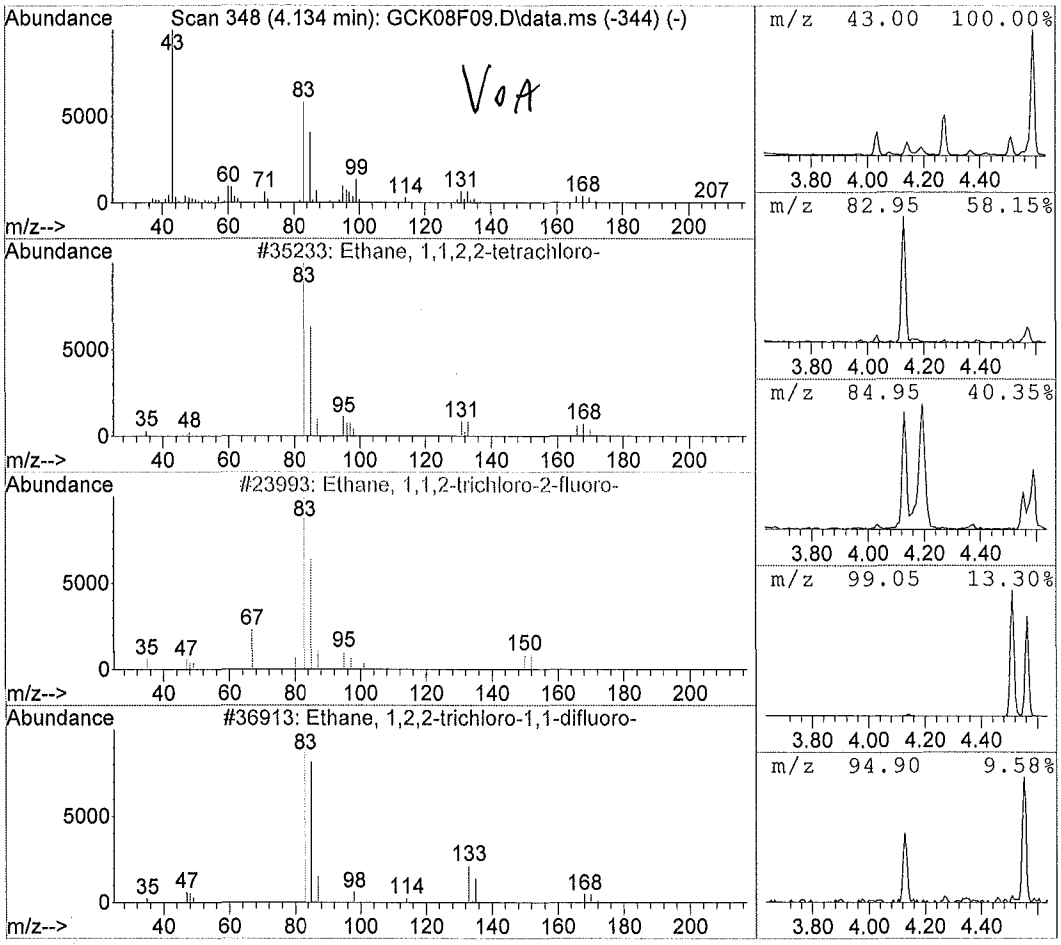
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.02 ug/ml	239728	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35233	000079-34-5	95.00
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	58.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	38.00



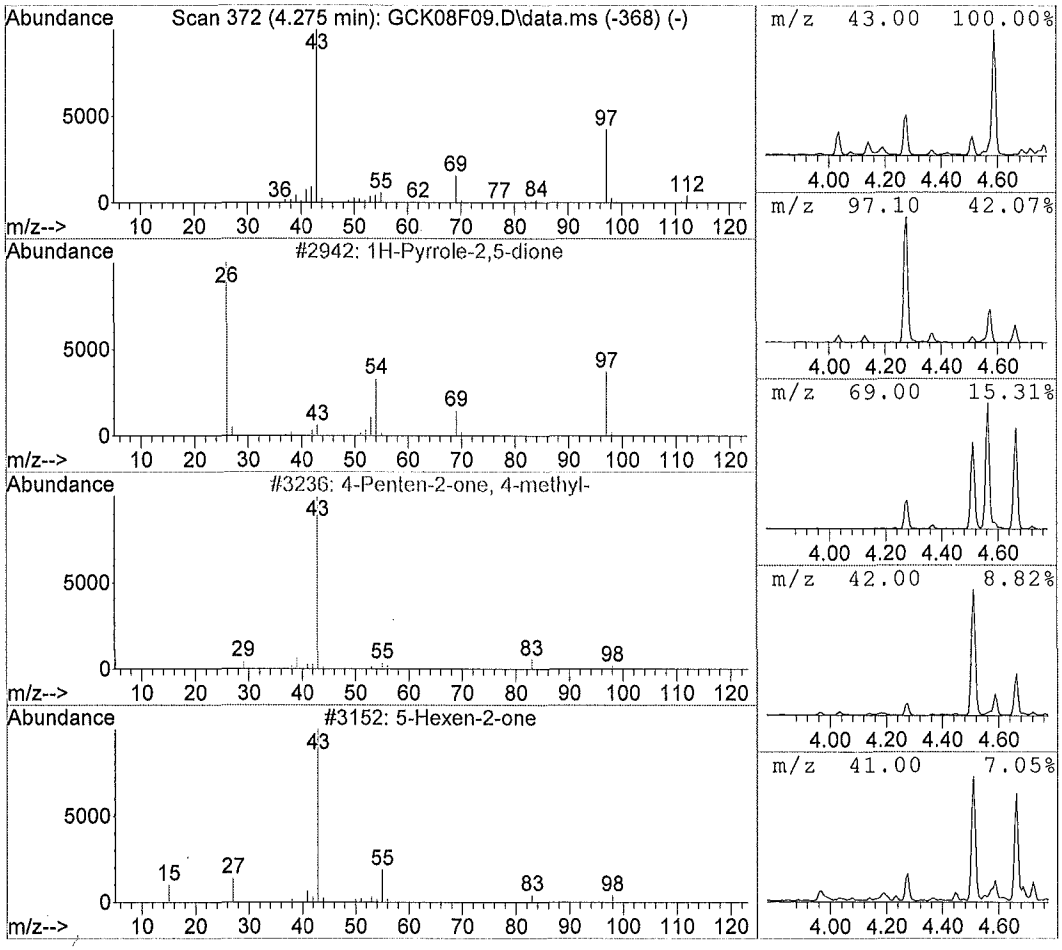
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.40 ug/ml	523064	1,4-Dichlorobenzene-d4	2377718

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	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



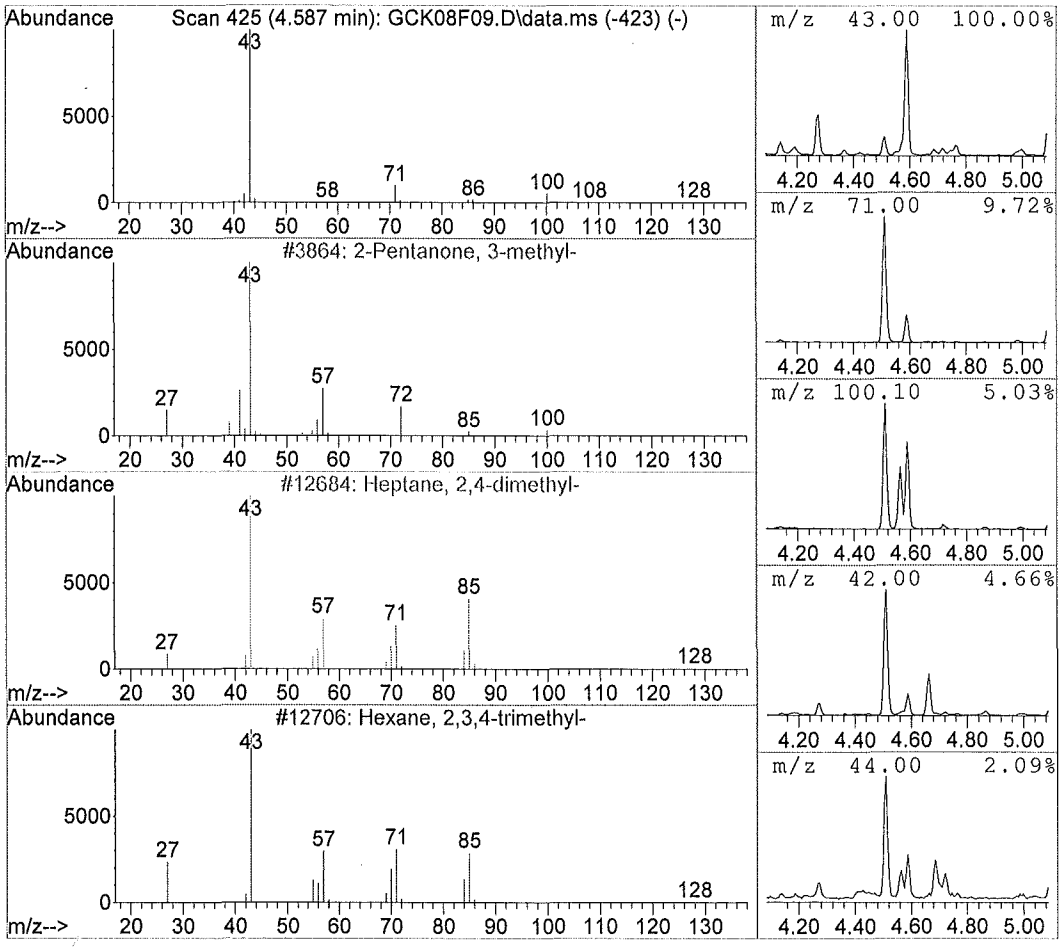
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.50 ug/ml	891856	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
4	Heptane	3971	000142-82-5	4.00
5	Hexane, 2-methyl-	3979	000591-76-4	4.00



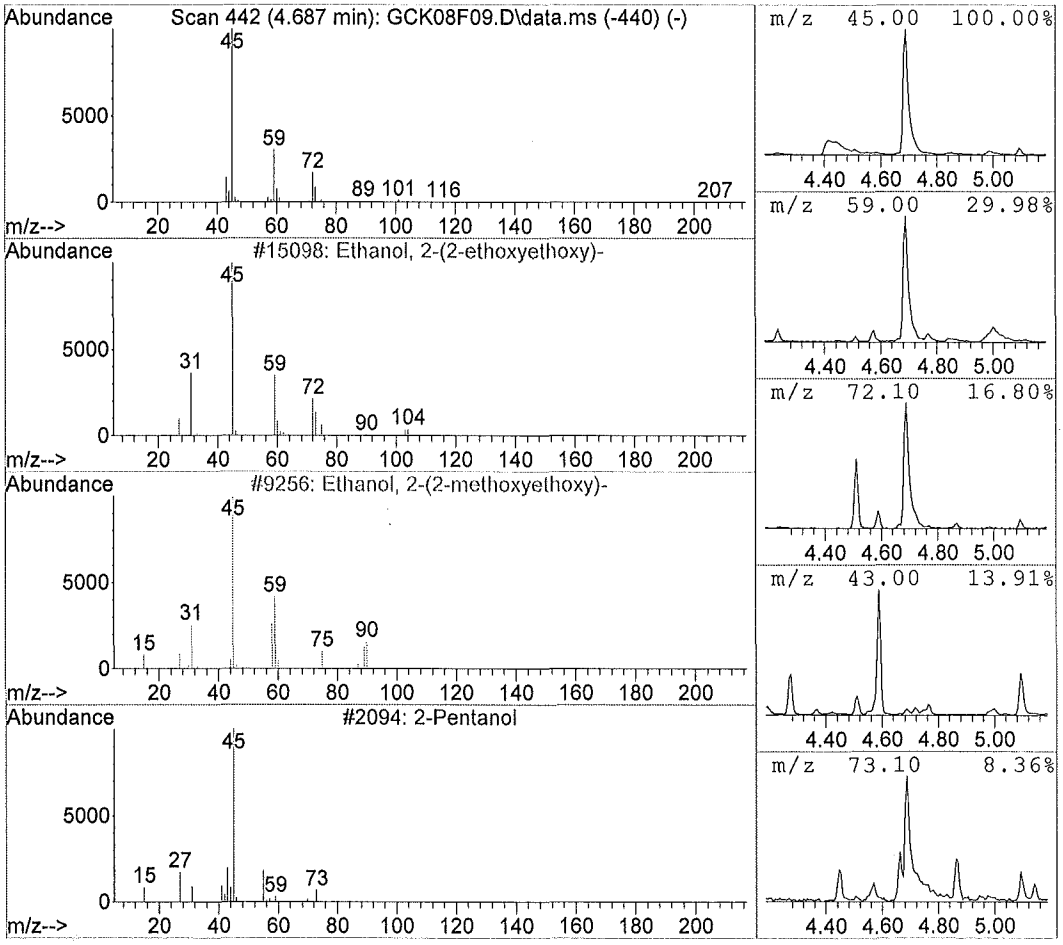
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	3.22 ug/ml	383079	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	2-Pentanol	2094	006032-29-7	36.00
4	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00
5	Carbonic acid, ethyl-, methyl ester	4708	000623-53-0	9.00



Library Search Compound Report

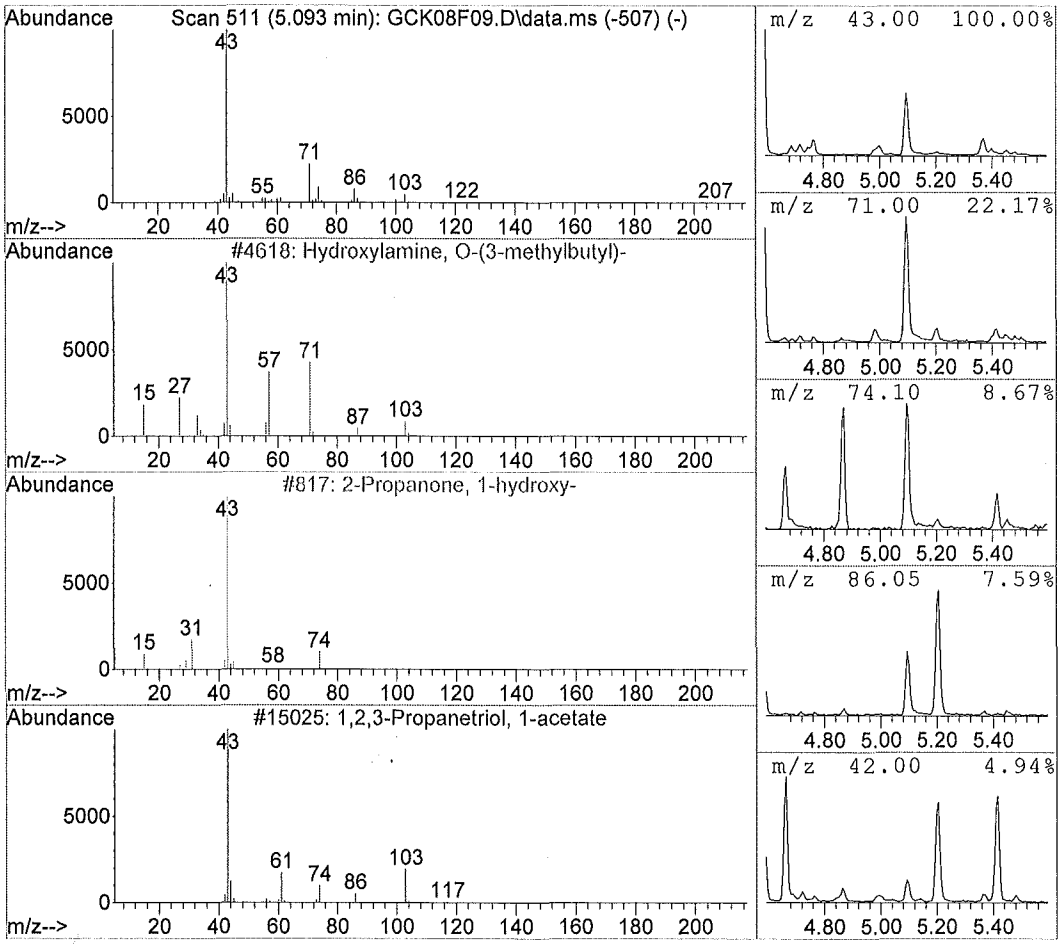
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.09	4.01 ug/ml	477079	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	28.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
3	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	17.00
4	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
5	N-Methoxy-N-methylacetamide	4568	078191-00-1	9.00



Library Search Compound Report

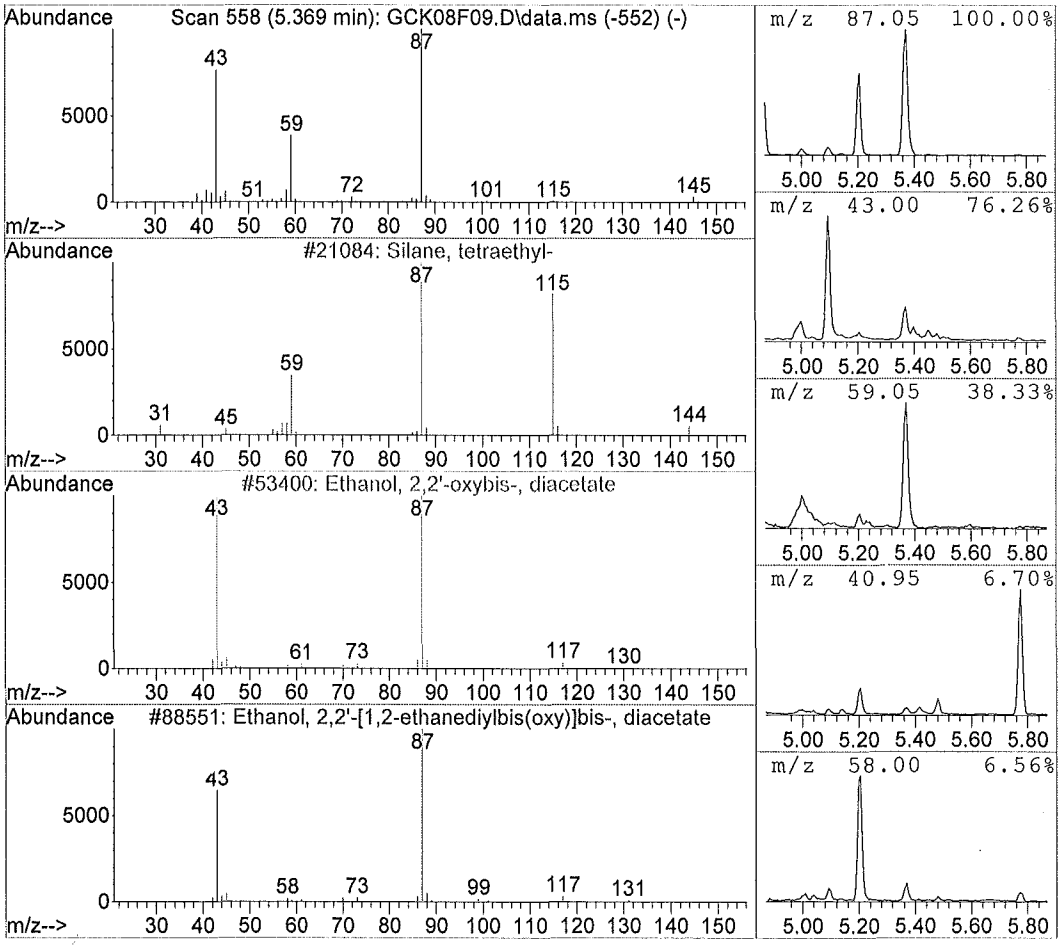
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.37	2.39 ug/ml	283772	1,4-Dichlorobenzene-d4	2377718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, tetraethyl-	21084	000631-36-7	50.00
2	Ethanol, 2,2'-oxybis-, diacetate	53400	000628-68-2	40.00
3	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	40.00
4	1,3-Dioxolane, 2-butyl-4-methyl-	20938	074094-60-3	39.00
5	2-Ethoxyethyl acetate	14270	000111-15-9	17.00



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Library Search Compound Report

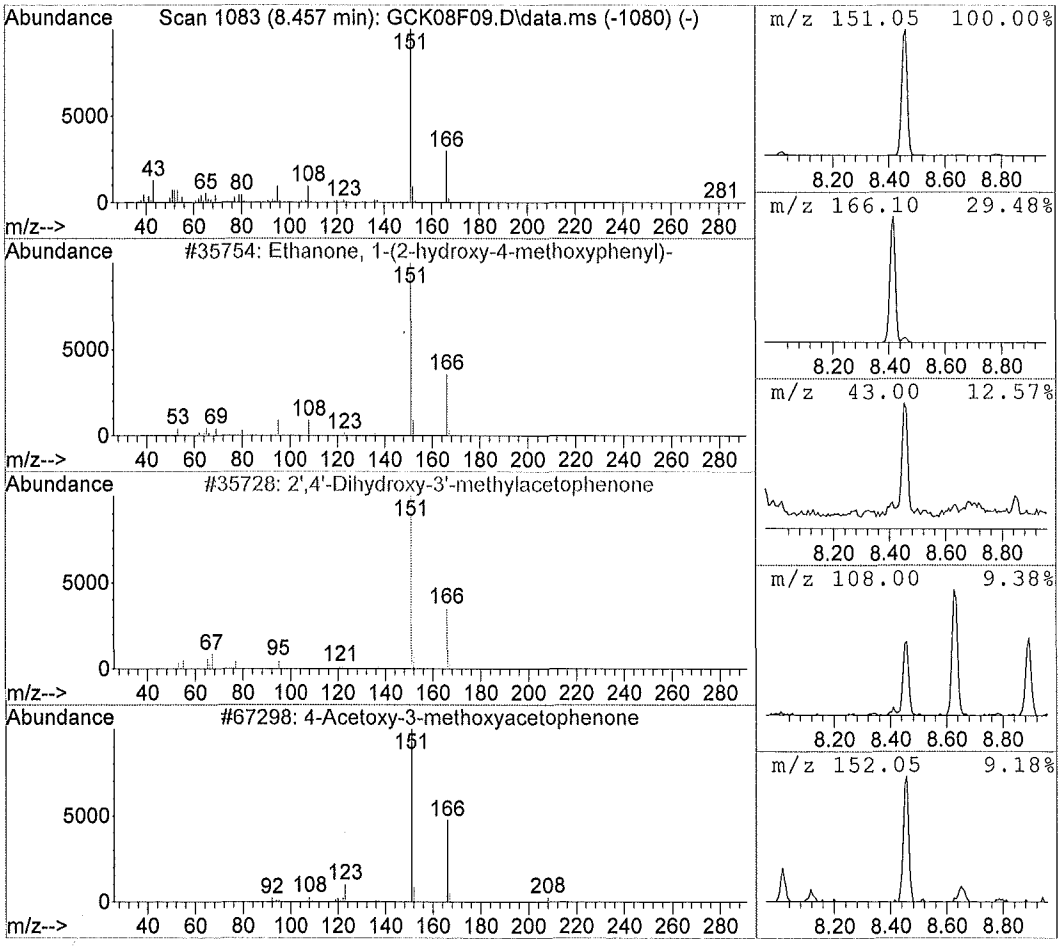
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.46	2.83 ug/ml	461491	Acenaphthene-d10	3266724

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-(2-hydroxy-4-methoxyphe	35754	000552-41-0	94.00
2	2',4'-Dihydroxy-3'-methylacetopheno	35728	010139-84-1	72.00
3	4-Acetoxy-3-methoxyacetophenone	67298	054771-60-7	64.00
4	p-tert-Butyl catechol	34804	000098-29-3	59.00
5	2'-Hydroxy-4'-methoxyacetophenone,	67321	1000352-92-9	56.00



: 00452

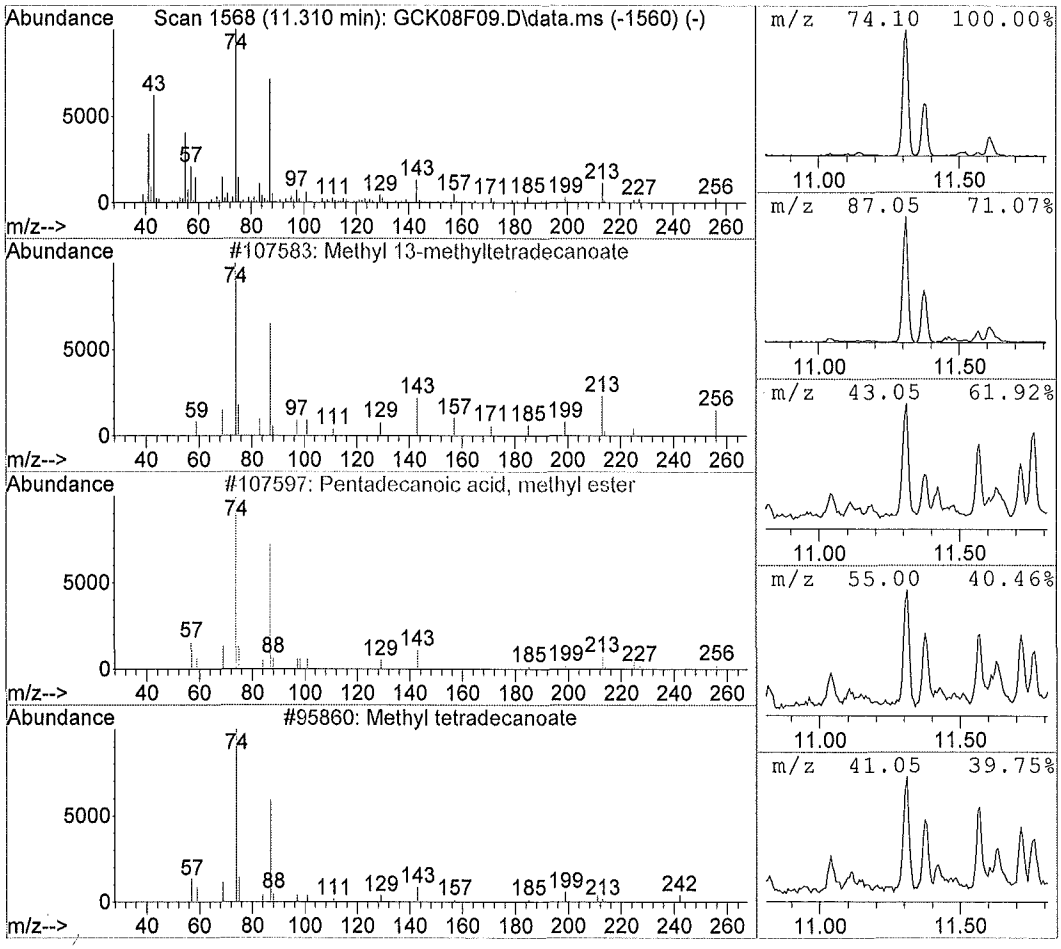
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.46 ug/ml	406815	Phenanthrene-d10	3301772

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	94.00
3	Methyl tetradecanoate	95860	000124-10-7	86.00
4	Hexadecanoic acid, methyl ester	119408	000112-39-0	86.00
5	Nonanoic acid, methyl ester	39527	001731-84-6	80.00



: 00453

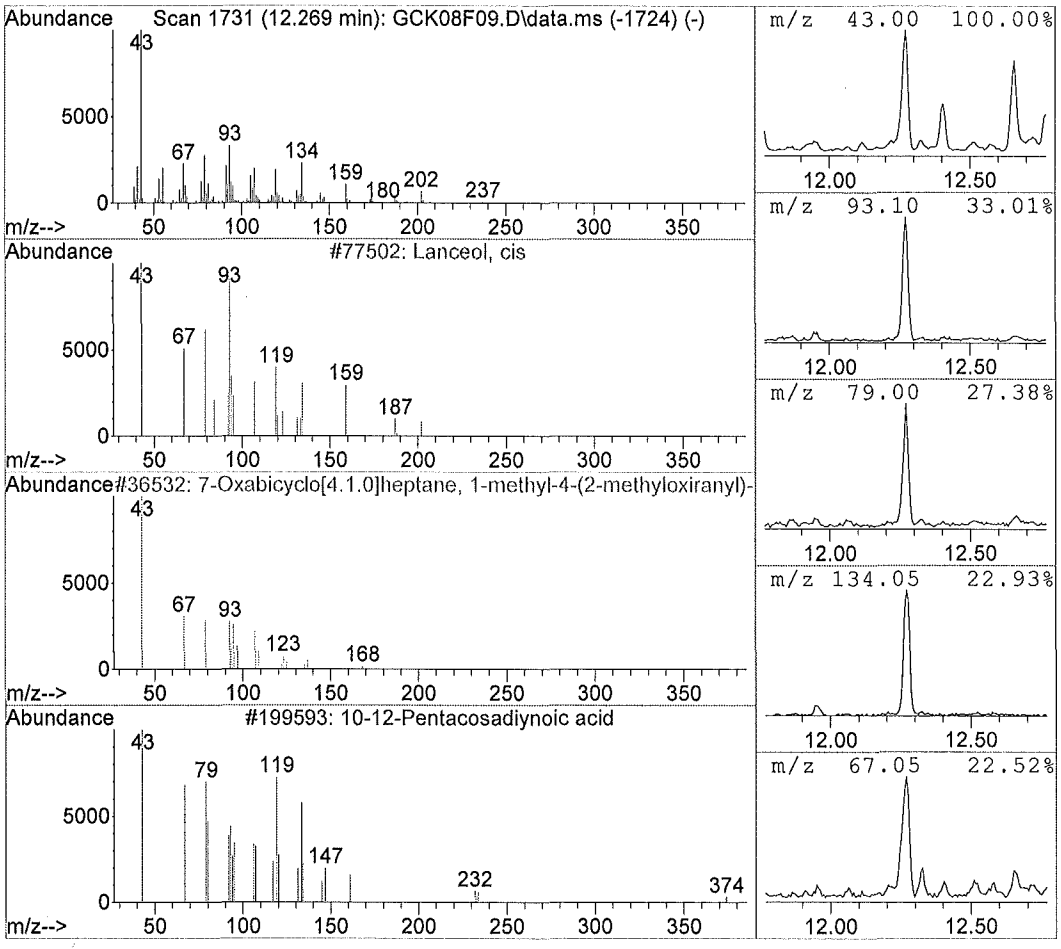
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.27	6.48 ug/ml	1069311	Phenanthrene-d10	3301772

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Lanceol, cis	77502	010067-28-4	72.00
2	7-Oxabicyclo[4.1.0]heptane, 1-methy	36532	000096-08-2	37.00
3	10-12-Pentacosadiynoic acid	199593	066990-32-7	33.00
4	Methyl cis-2-(3-cyclopropyl-7-norca	67721	1000223-15-7	25.00
5	p-Mentha-1,8-dien-7-yl acetate	56186	015111-96-3	23.00



Library Search Compound Report

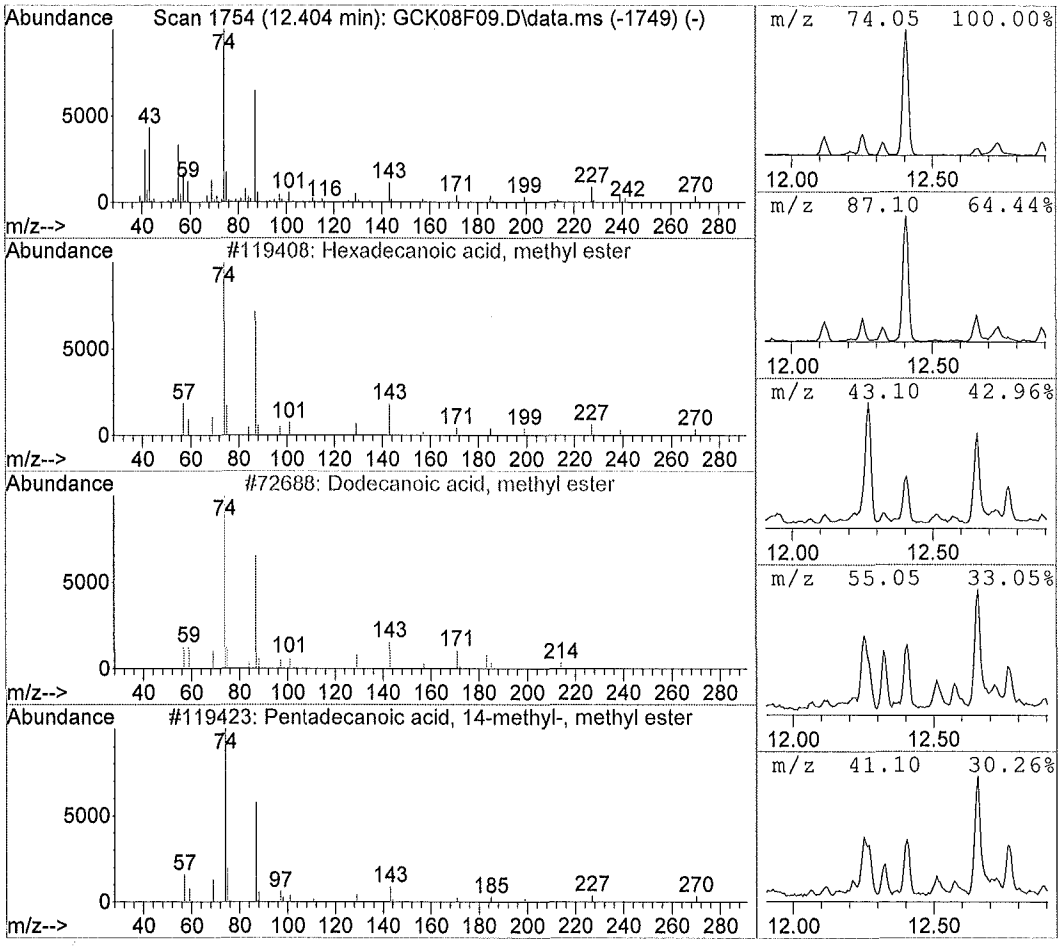
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	3.13 ug/ml	516328	Phenanthrene-d10	3301772

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	97.00
2	Dodecanoic acid, methyl ester	72688	000111-82-0	96.00
3	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	95.00
4	Tridecanoic acid, methyl ester	84483	001731-88-0	94.00
5	Methyl tetradecanoate	95860	000124-10-7	93.00



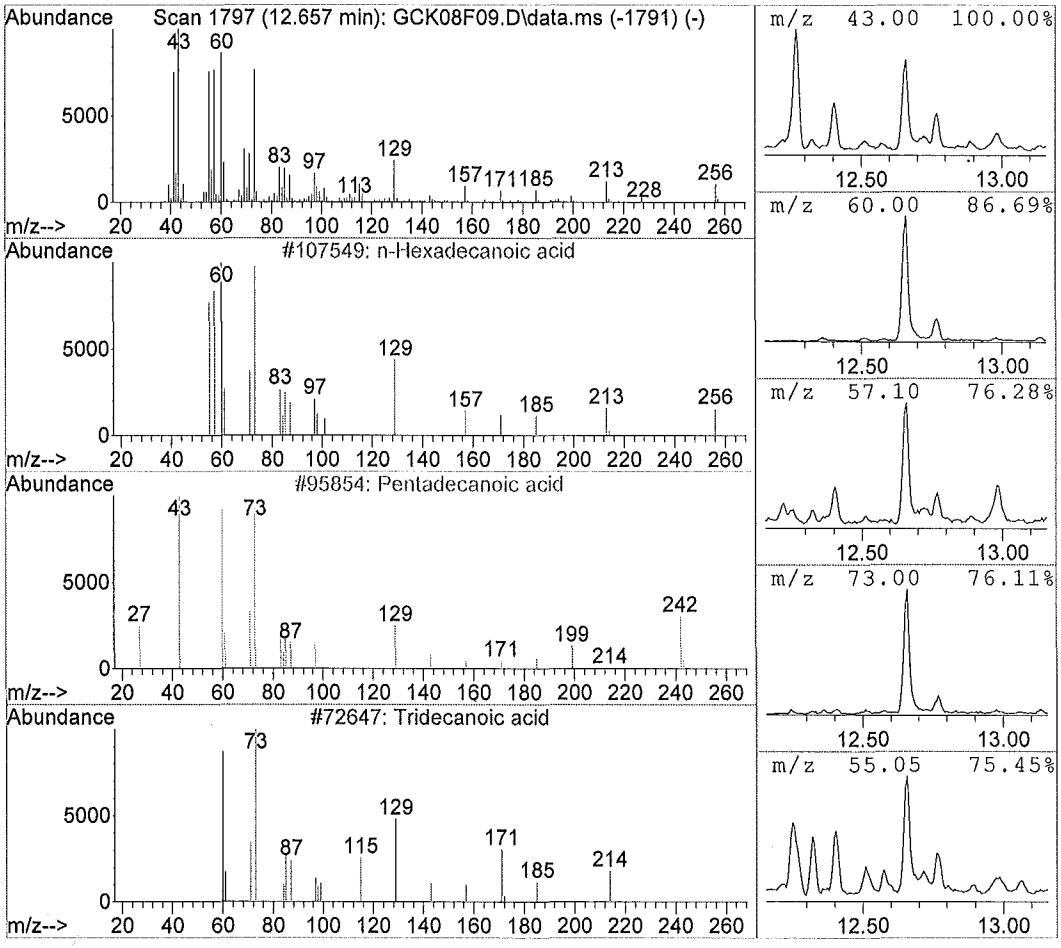
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.73 ug/ml	1111329	Phenanthrene-d10	3301772

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	83.00
3	Tridecanoic acid	72647	000638-53-9	78.00
4	Dodecanoic acid	61120	000143-07-7	76.00
5	Undecanoic acid	50052	000112-37-8	64.00



: 00455

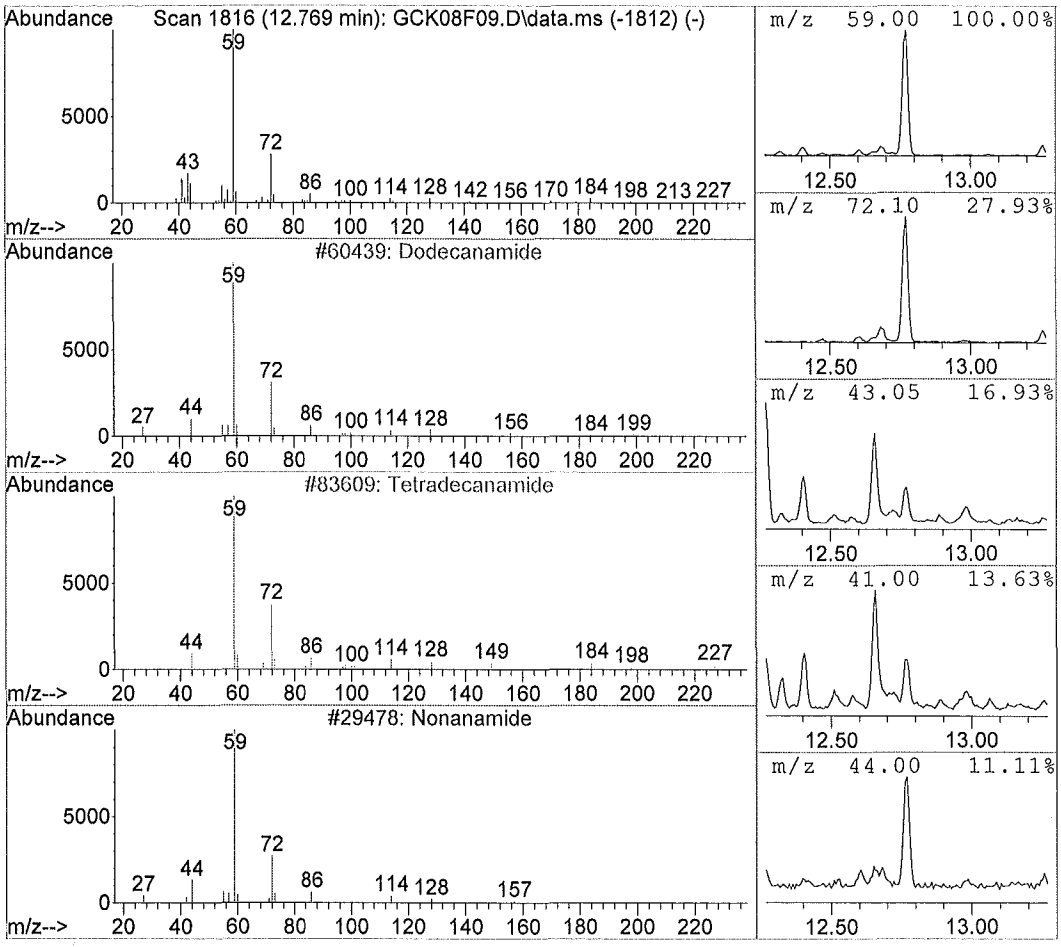
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.96 ug/ml	488715	Phenanthrene-d10	3301772

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Tetradecanamide	83609	000638-58-4	83.00
3	Nonanamide	29478	001120-07-6	78.00
4	Decanamide-	38977	002319-29-1	74.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	72.00



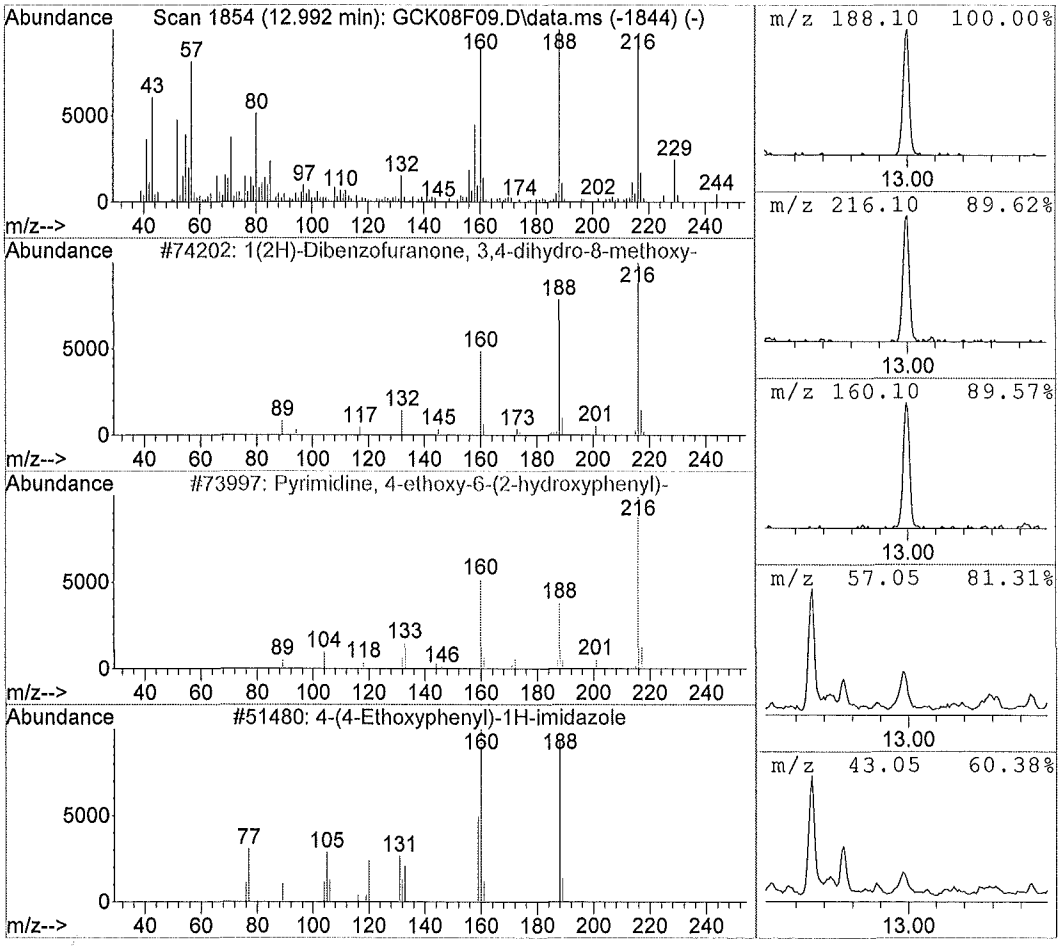
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.66 ug/ml	439779	Phenanthrene-d10	3301772

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	30.00
2	Pyrimidine, 4-ethoxy-6-(2-hydroxyph	73997	097630-78-9	22.00
3	4-(4-Ethoxyphenyl)-1H-imidazole	51480	1000311-54-8	18.00
4	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	18.00
5	4H-1-Benzopyran-8-carboxylic acid,	88751	051786-54-0	12.00



: 00458

Library Search Compound Report

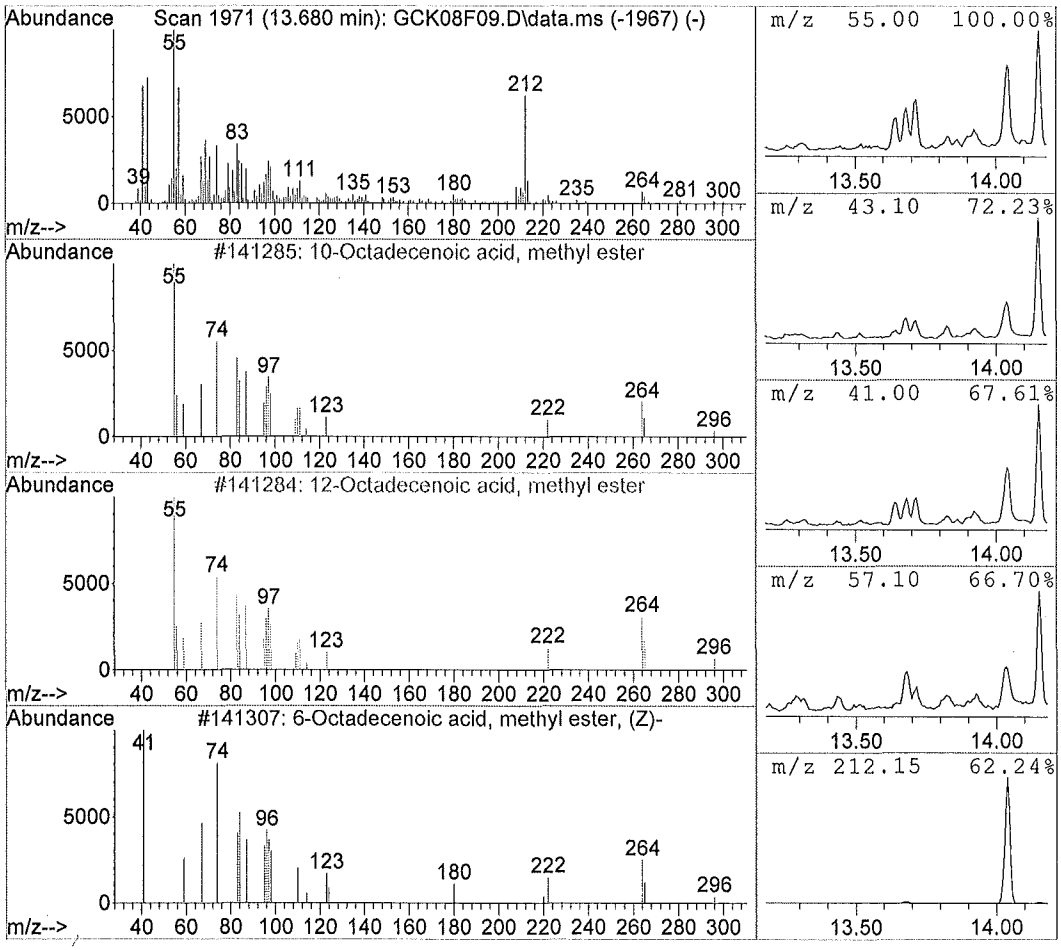
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	2.57 ug/ml	444763	Chrysene-d12	3461397

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	141285	013481-95-3	96.00
2	12-Octadecenoic acid, methyl ester	141284	056554-46-2	96.00
3	6-Octadecenoic acid, methyl ester,	141307	002777-58-4	95.00
4	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	93.00
5	9-Octadecenoic acid, methyl ester,	141309	001937-62-8	93.00



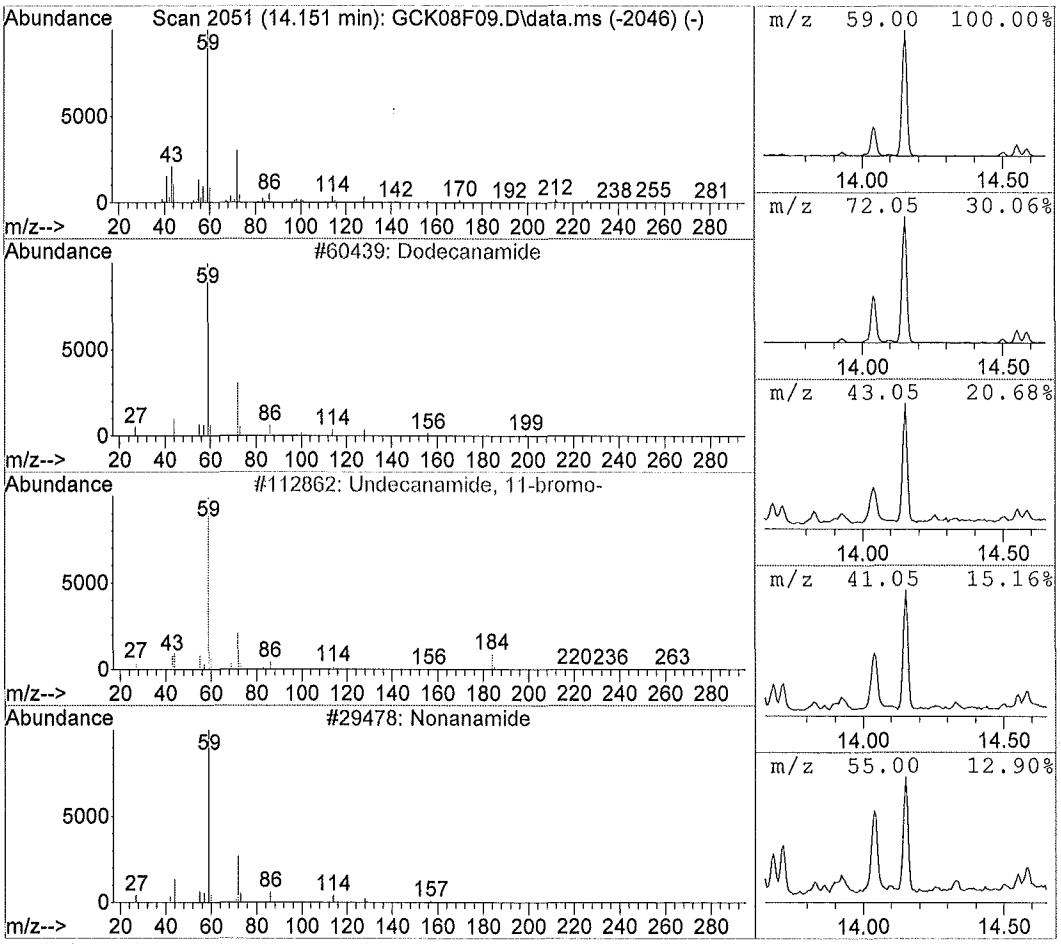
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	9.81 ug/ml	1697456	Chrysene-d12	3461397

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	Nonanamide	29478	001120-07-6	83.00
4	Decanamide-	38977	002319-29-1	83.00
5	Hexadecanamide	106565	000629-54-9	72.00



Library Search Compound Report

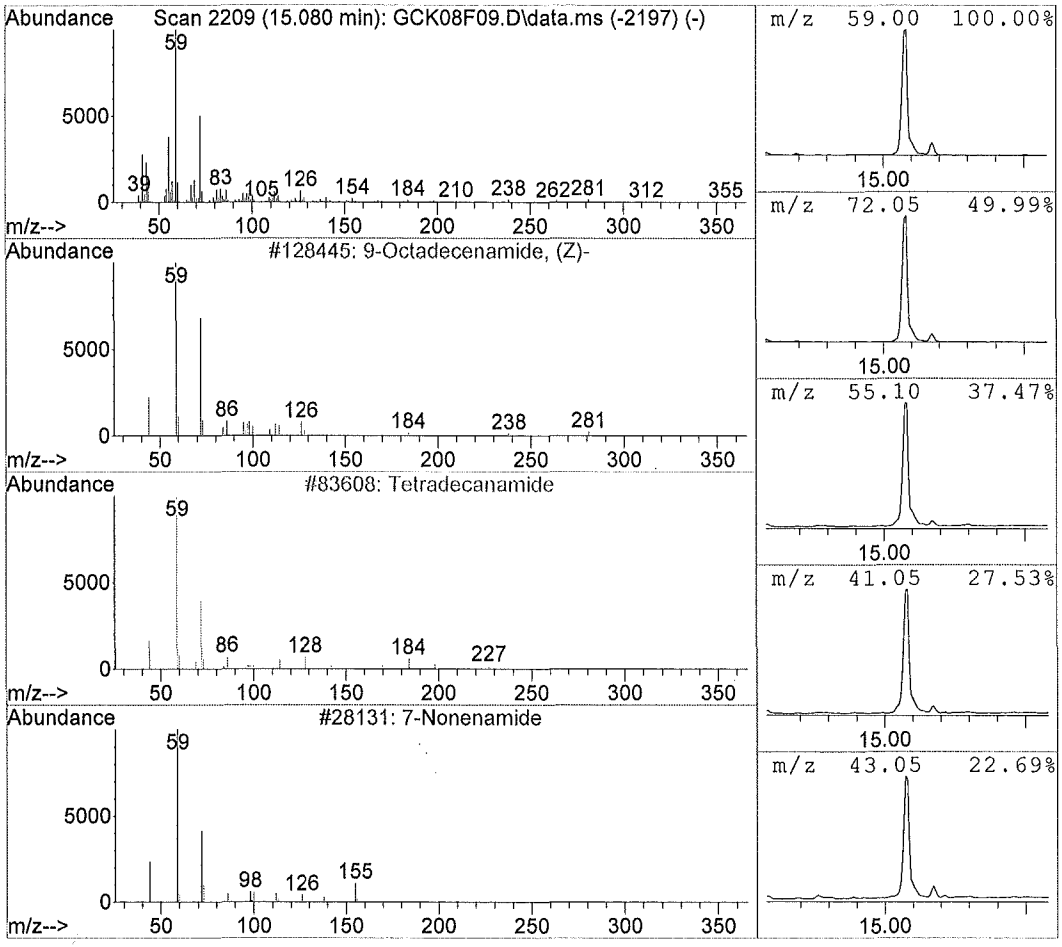
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	68.11 ug/ml	11787973	Chrysene-d12	3461397

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83608	000638-58-4	56.00
3	7-Nonenamide	28131	090949-53-4	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00



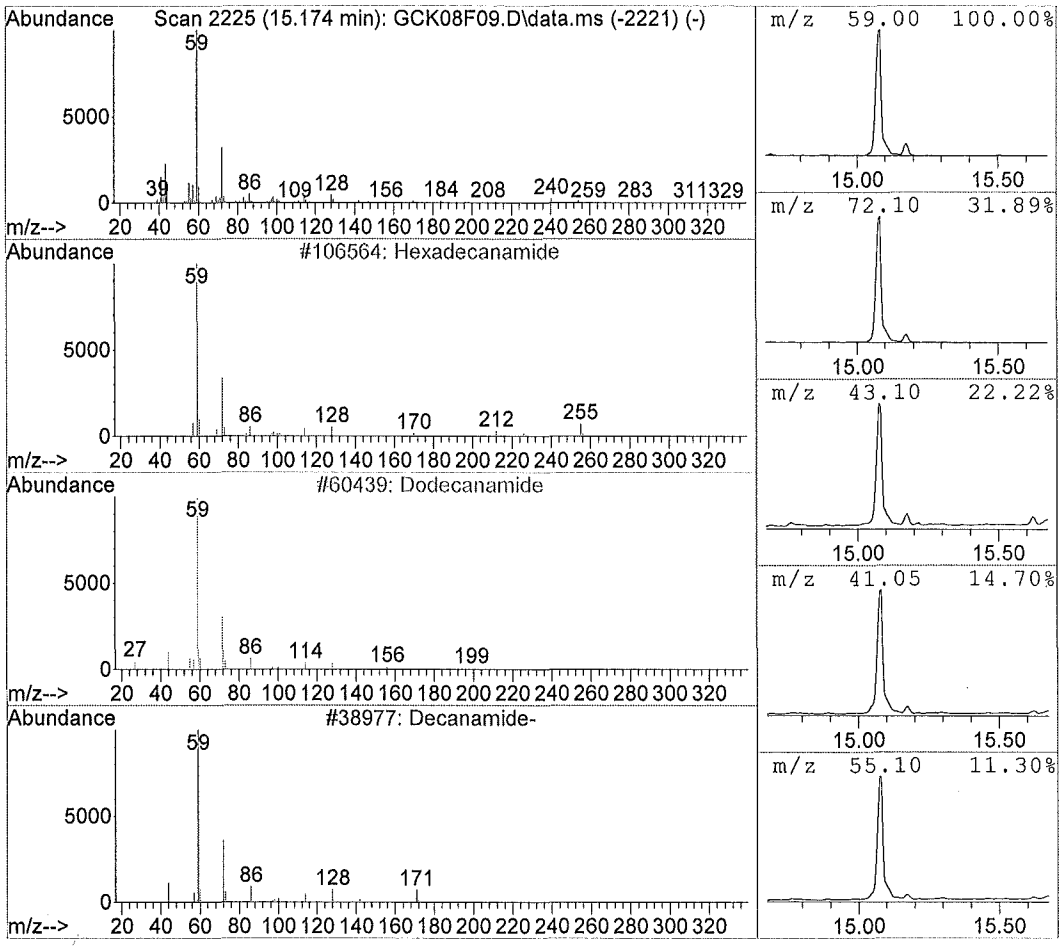
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.23 ug/ml	558873	Chrysene-d12	3461397

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Decanamide-	38977	002319-29-1	78.00
4	Pentanamide	4064	000626-97-1	72.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



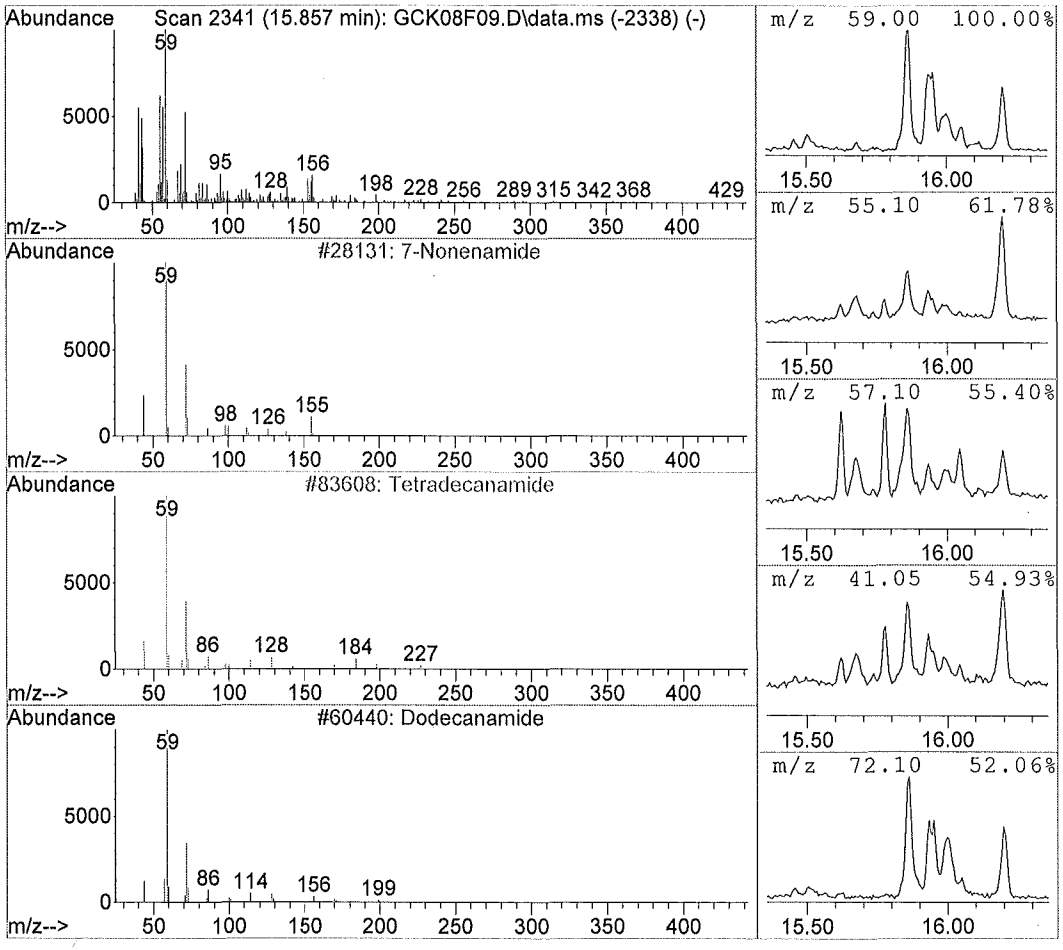
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.75 ug/ml	648534	Chrysene-d12	3461397

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	62.00
2	Tetradecanamide	83608	000638-58-4	58.00
3	Dodecanamide	60440	001120-16-7	55.00
4	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00



Library Search Compound Report

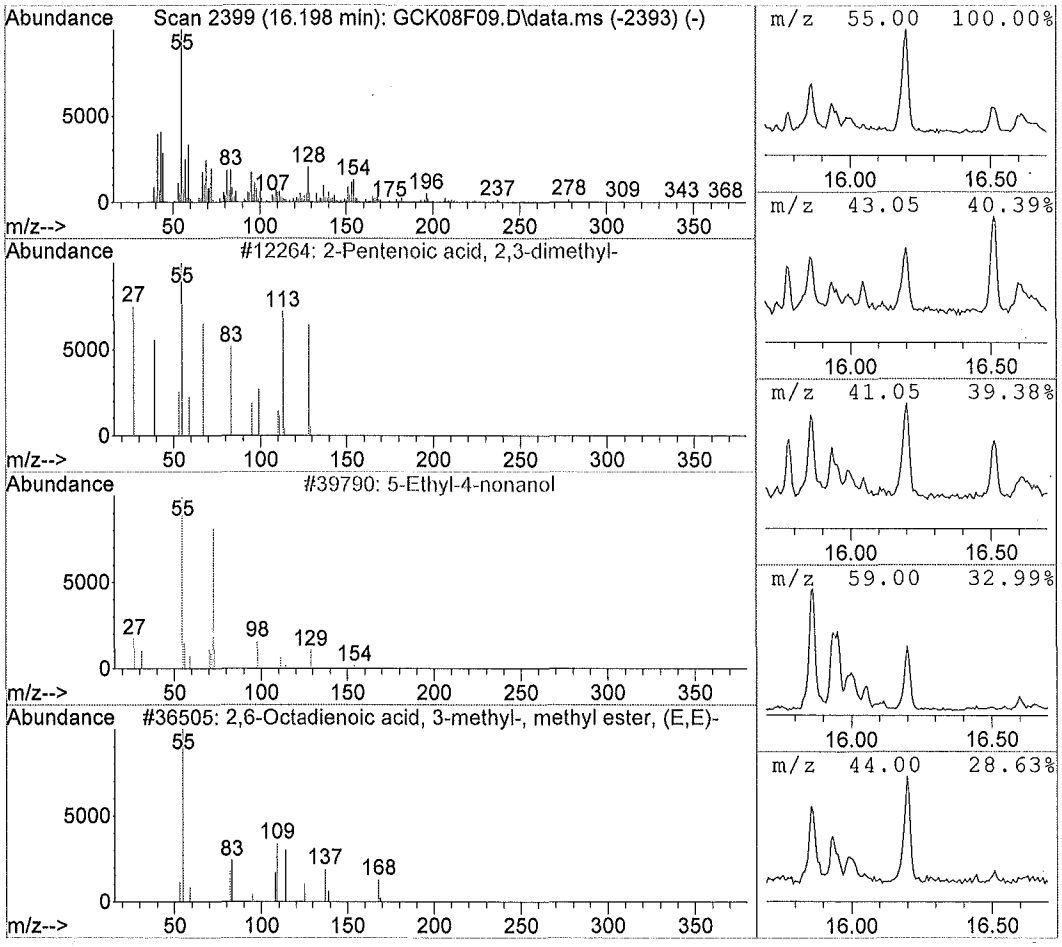
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	5.79 ug/ml	1001348	Chrysene-d12	3461397

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	10.00
2	5-Ethyl-4-nonanol	39790	019780-73-5	10.00
3	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	10.00
4	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	10.00
5	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	10.00



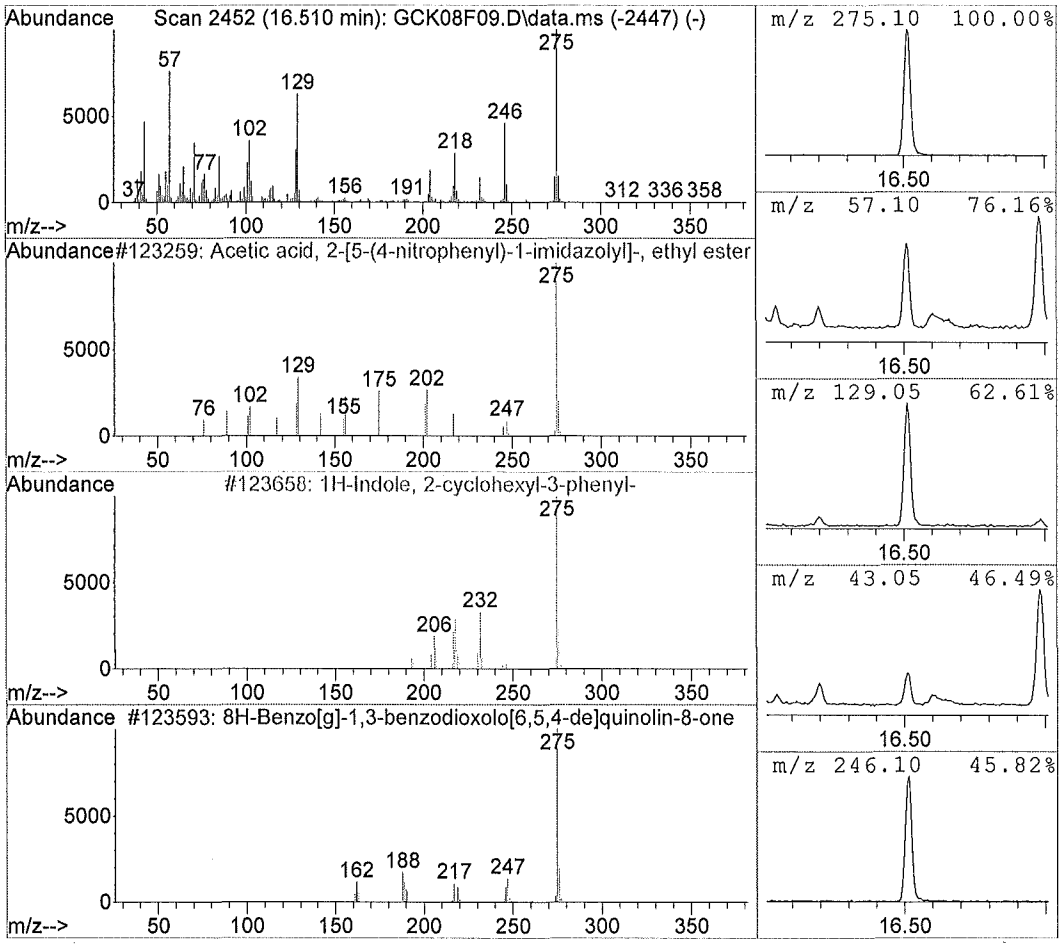
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	10.40 ug/ml	1800030	Chrysene-d12	3461397

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetic acid, 2-[5-(4-nitrophenyl)-1	123259	351064-45-4	46.00
2	1H-Indole, 2-cyclohexyl-3-phenyl-	123658	1000163-87-0	41.00
3	8H-Benzo[g]-1,3-benzodioxolo[6,5,4-	123593	000475-75-2	38.00
4	1-Methyl-5'-phenylspiro(indoline-3,	123560	015970-21-5	38.00
5	Ethyl 2-cyano-2-(9-fluorenylidene)a	123602	014003-25-9	30.00



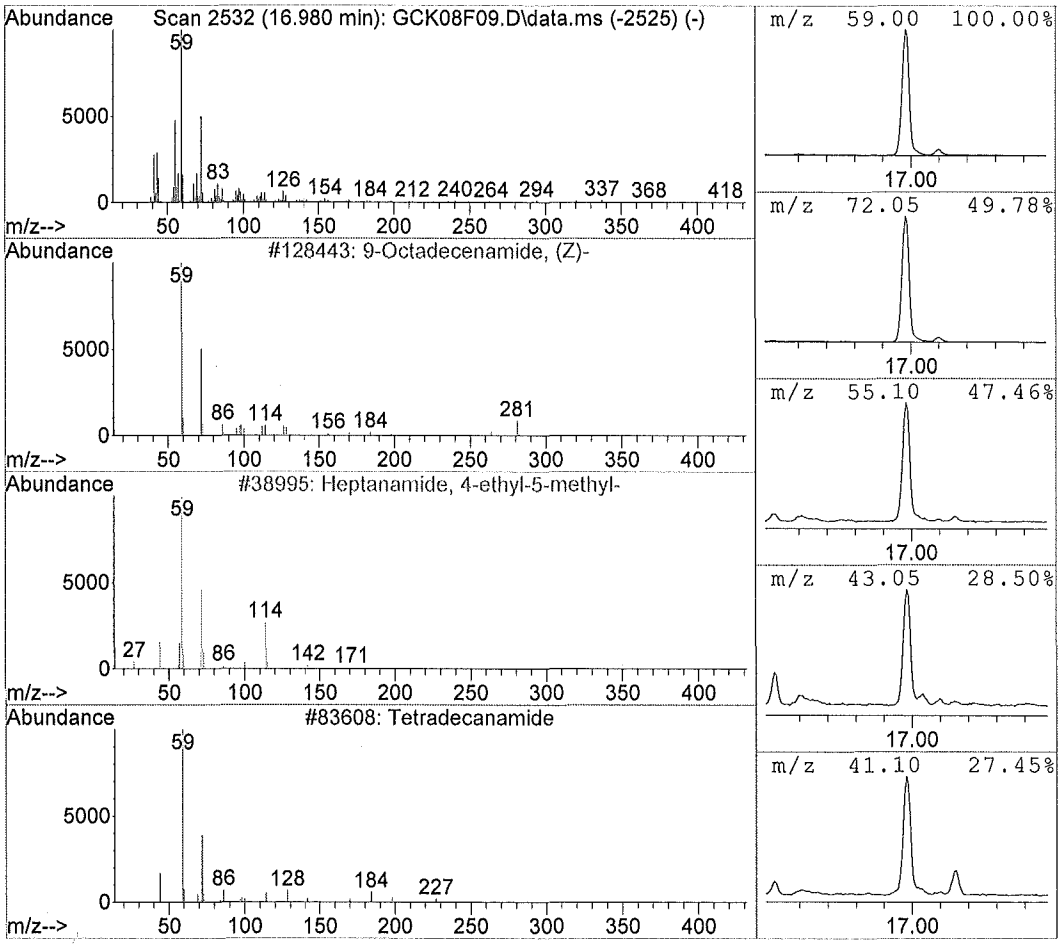
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	44.54 ug/ml	6356384	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
3	Tetradecanamide	83608	000638-58-4	56.00
4	Hexadecanamide	106565	000629-54-9	53.00
5	Octanamide	20317	000629-01-6	53.00



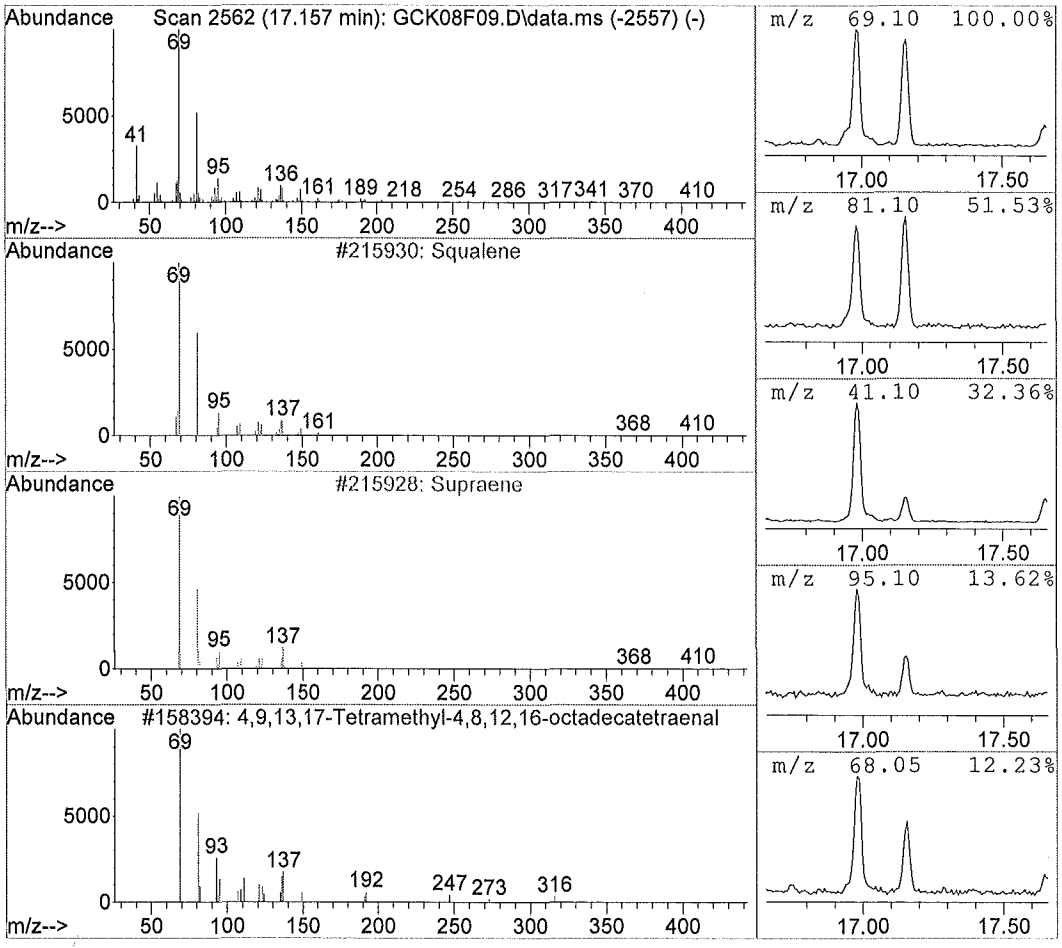
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	5.01 ug/ml	715129	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	98.00
2	Supraene	215928	007683-64-9	86.00
3	4,9,13,17-Tetramethyl-4,8,12,16-oct	158394	056882-09-8	83.00
4	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	79427	004602-84-0	80.00
5	2,6-Octadiene, 4-methyl-	10659	074498-94-5	52.00



Library Search Compound Report

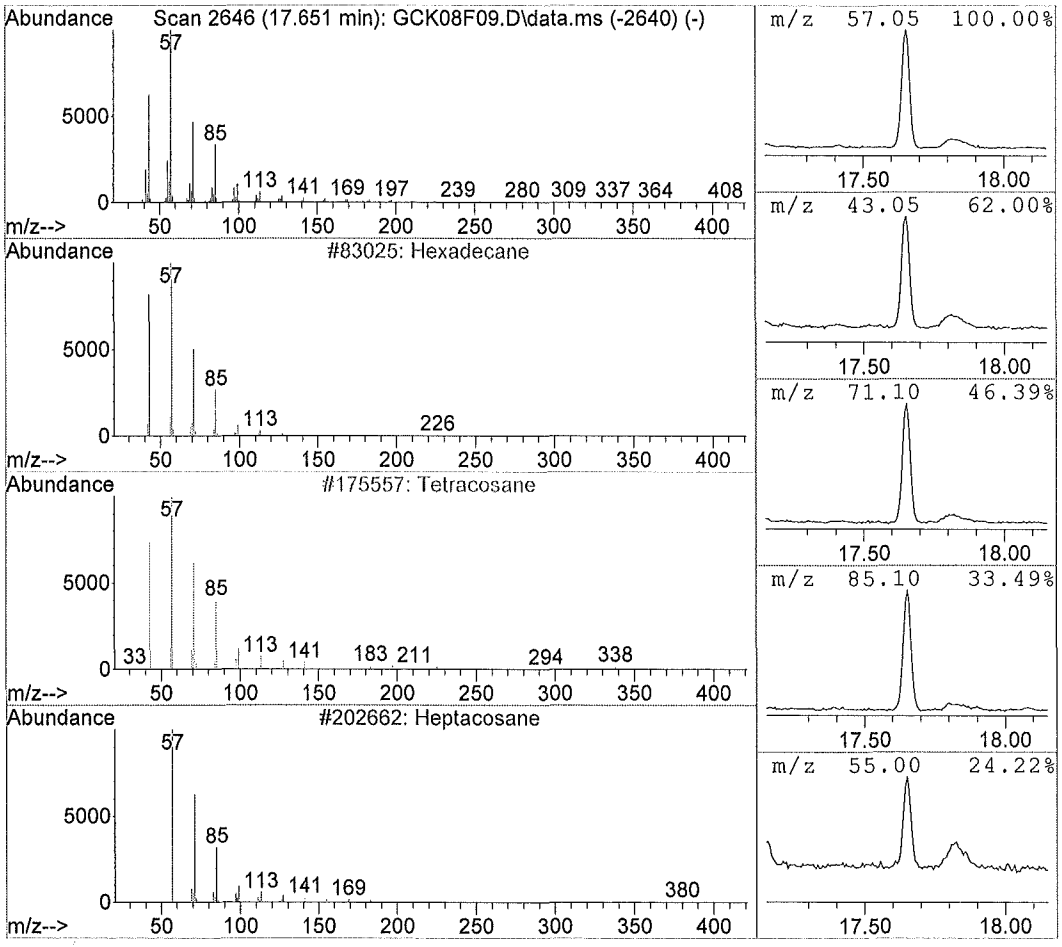
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	11.15 ug/ml	1591573	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	93.00
2	Tetracosane	175557	000646-31-1	91.00
3	Heptacosane	202662	000593-49-7	91.00
4	Hexacosane	194493	000630-01-3	90.00
5	Eicosane	129492	000112-95-8	90.00

SCA



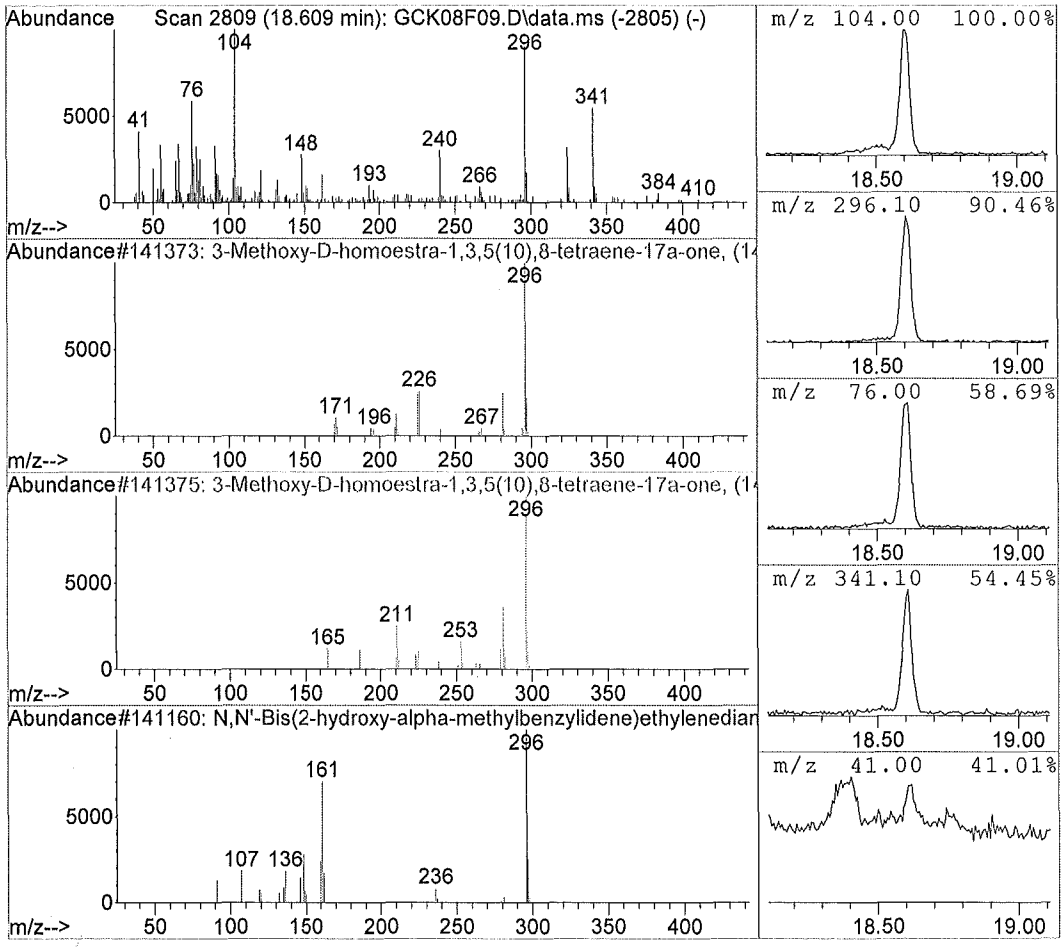
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.47 ug/ml	637360	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Methoxy-D-homoestra-1,3,5(10),8-t	141373	002000-72-8	35.00
2	3-Methoxy-D-homoestra-1,3,5(10),8-t	141375	1000215-85-6	35.00
3	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	25.00
4	Thioindigo	140930	000522-75-8	22.00
5	Bithiophthalide	140931	032819-84-4	22.00



Library Search Compound Report

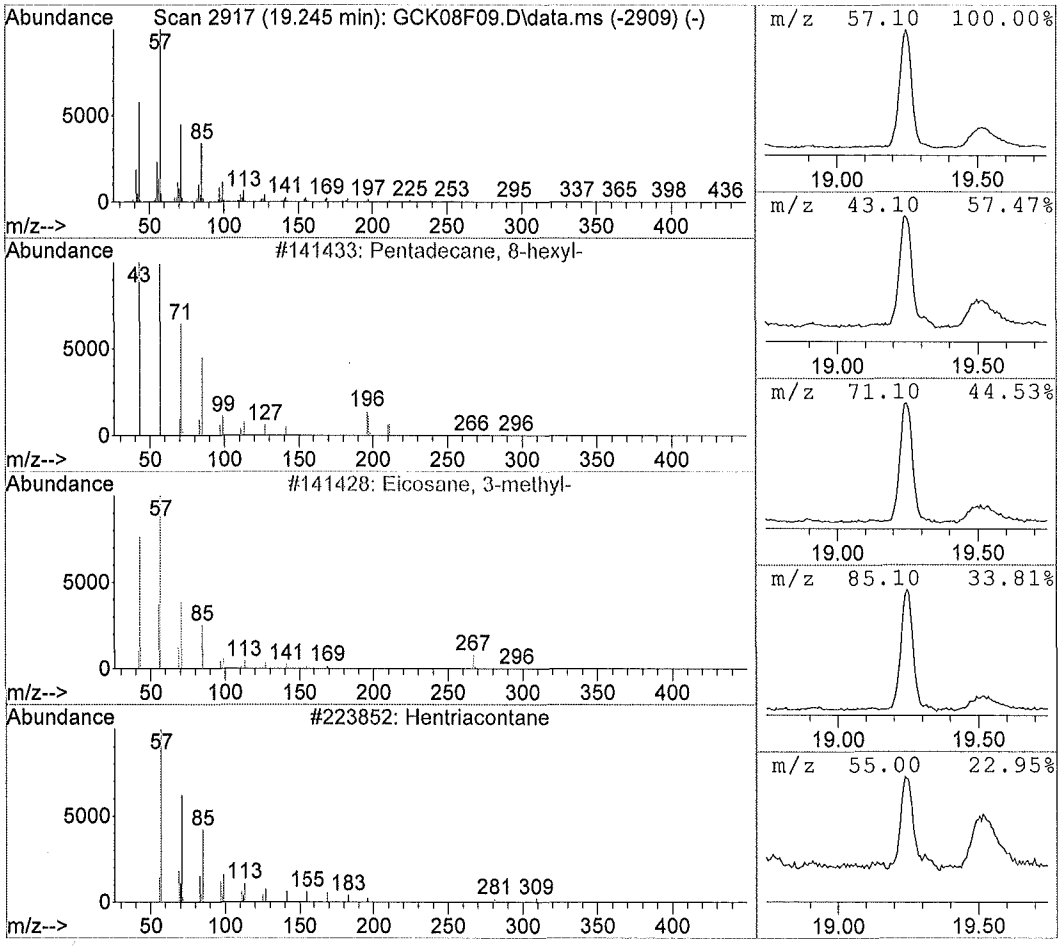
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	13.79 ug/ml	1967695	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
2	Eicosane, 3-methyl-	141428	006418-46-8	91.00
3	Hentriacontane	223852	000630-04-6	91.00
4	Eicosane, 10-methyl-	141431	054833-23-7	90.00
5	Eicosane	129492	000112-95-8	87.00

BA



Library Search Compound Report

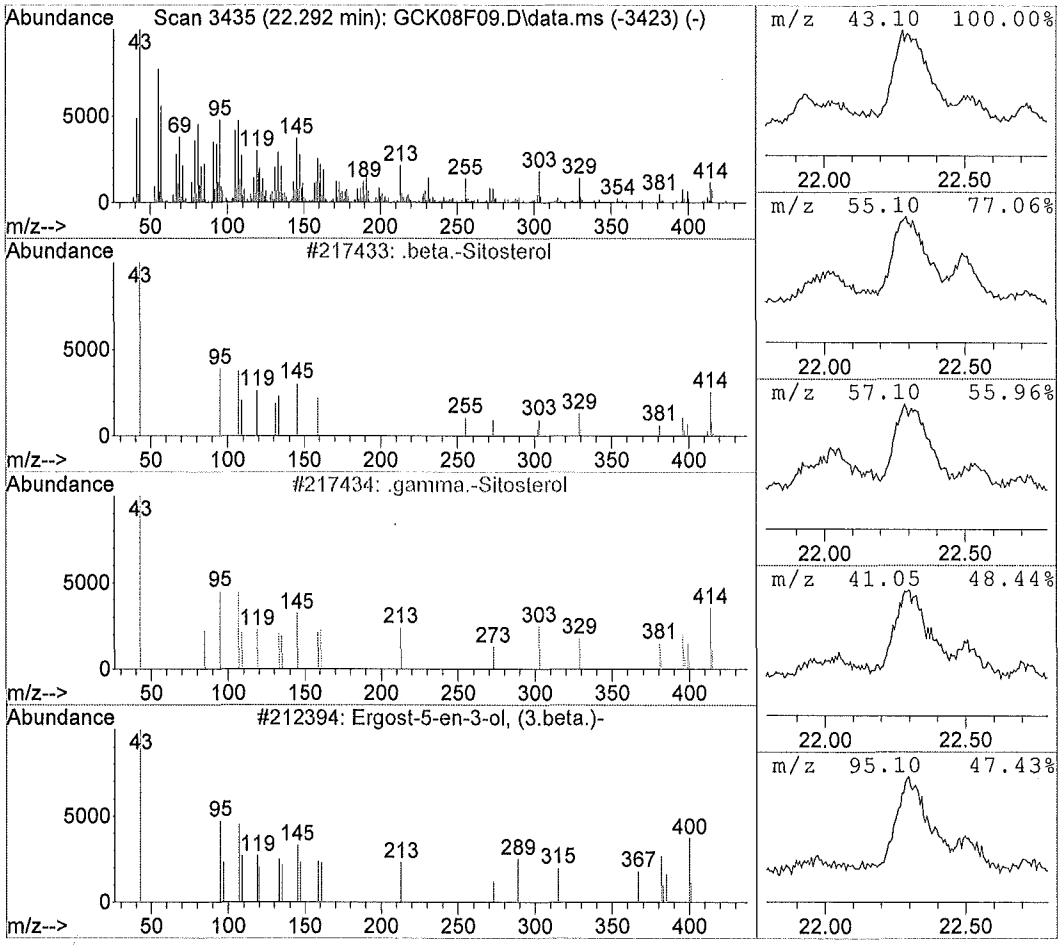
Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D
Acq On : 07/02/2015 14:42
Sample : 1513978009 F9KY6
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.29	11.23 ug/ml	1602708	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217433	000083-46-5	99.00
2	.gamma.-Sitosterol	217434	000083-47-6	95.00
3	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	74.00
4	Campesterol	212387	000474-62-4	64.00
5	Isocholesteryl methyl ether	212393	029944-53-4	58.00



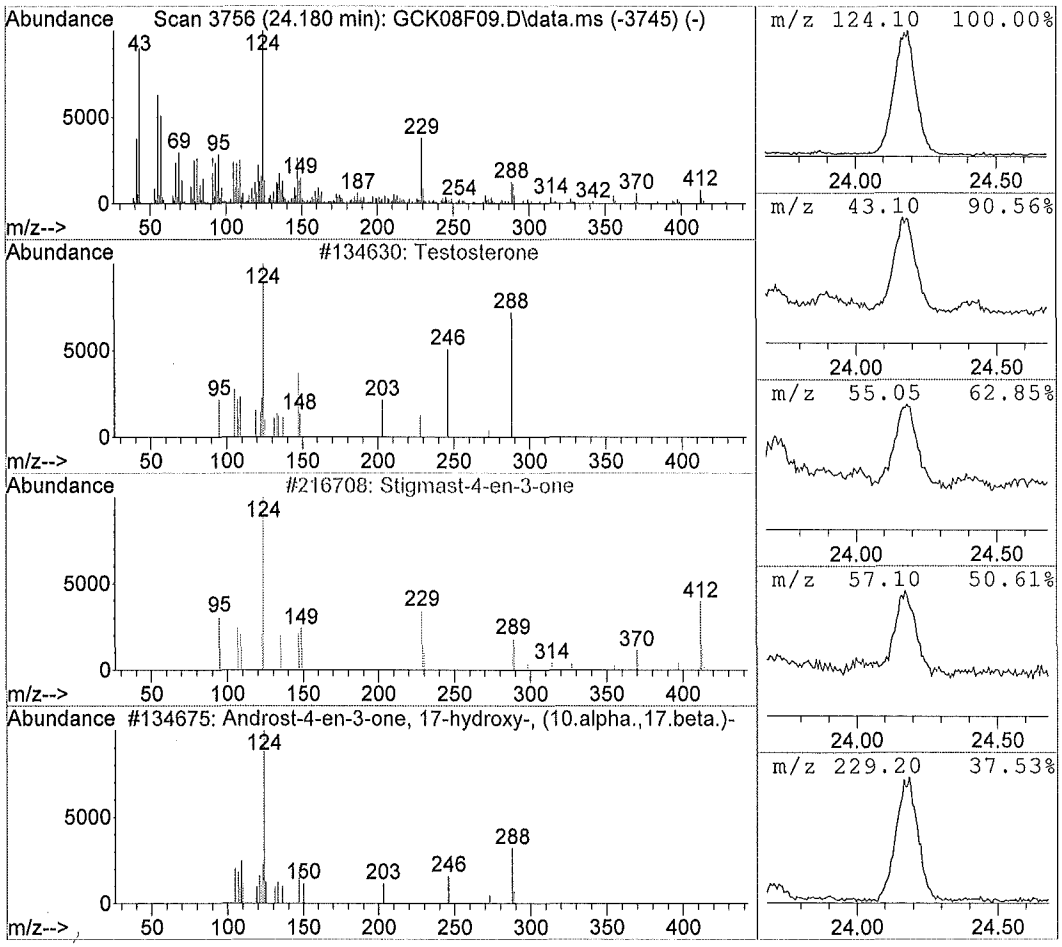
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK08F09.D Vial: 8
Acq On : 07/02/2015 14:42 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.18	14.43 ug/ml	2059579	Perylene-d12	2854288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Testosterone	134630	000058-22-0	90.00
2	Stigmast-4-en-3-one	216708	001058-61-3	90.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	78.00
4	3-Cyclohexene-1-carboxaldehyde, 4-m	10583	007560-64-7	55.00
5	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	53.00



: 88472

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCK09F10

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCK09F10

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCK09F10

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	814-78-8	3-Buten-2-one, 3-methyl-	2.18	130	JN
02		Unknown 2-Propanone, 1-chloro-	2.26	91.	J
03		Unknown 3-Pyrrolidinol	2.34	420	J
04		Unknown Thiazole	2.80	130	J
05		Unknown 4-Chloro-2-butanone	3.31	89.	J
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	5400	J
07		Unknown 1H-Pyrrole-2,5-dione	4.27	180	J
08		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	260	J
09		Unknown Ethanone, 1-oxiranyl-	5.09	91.	J
10		Unknown Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-,	5.37	110	J
11		Unknown Thiophene, 2-methyl-	6.96	130	J
12	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	81.	JN
13	57-10-3	n-Hexadecanoic acid	12.66	300	JN
14	638-58-4	Tetradecanamide	12.77	160	JN
15		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.99	80.	J
16		Unknown 9-Octadecenoic acid (Z)-, methyl ester	13.68	94.	J
17		Unknown Nonanamide	14.15	520	J
18		Unknown 4-Acetylbenzoic acid	14.37	150	J
19	301-02-0	9-Octadecenamide, (Z)-	15.08	3900	JN
20		Unknown Dodecanamide	15.17	180	J
21		Unknown 9-Octadecenamide, (Z)-	15.86	170	J
22		Unknown 7-Nonenamide	15.93	99.	J
23		Unknown 1-Decene, 5-methyl-	16.20	250	J
24		Unknown Tridecane, 1-iodo-	16.51	270	J
25	638-58-4	Tetradecanamide	16.98	1300	JN
26	111-02-4	Squalene	17.16	120	JN
27		Unknown Phthalic anhydride	18.62	1600	J
28		Unknown Palmitic acid vinyl ester	21.40	620	J
29		Unknown [2.2]Paracyclophane	23.29	520	J
30		Unknown Stearic acid hydrazide	24.77	670	J
	E966796[2]	Total Alkanes	N/A	1500	J

[2] EPA-designated Registry Number.

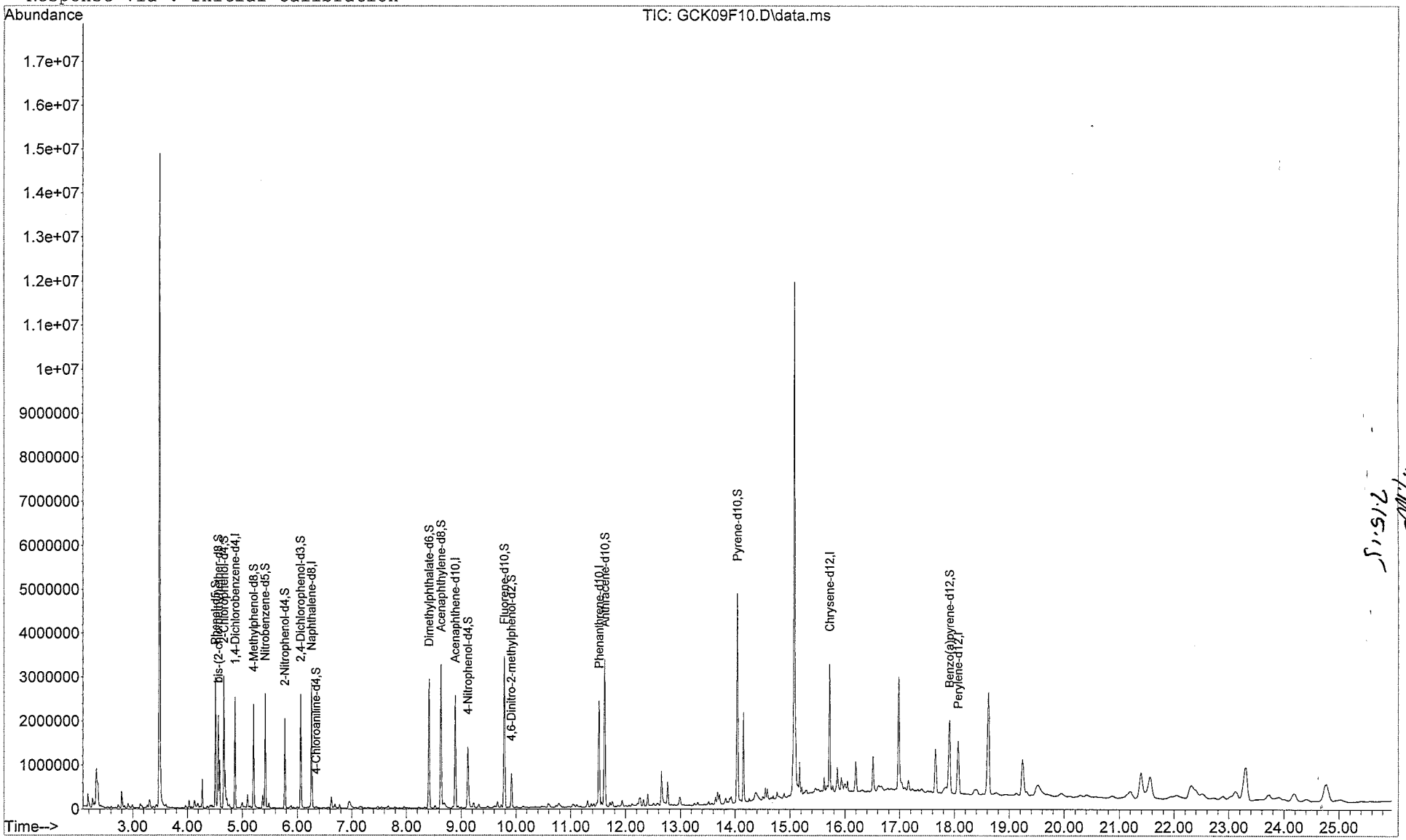
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D
Acq On : 07/02/2015 15:15
Sample : 1513978010 F9KY7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 9
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 15:01:17 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



2/5/15

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 15:01:17 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	362600	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1362446	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	802066	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1329086	20.00 ug/ml
73) Chrysene-d12	15.72	240	1236865	20.00 ug/ml
81) Perylene-d12	18.07	264	883097	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	859375	27.235ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	517698	21.053ug/mL
7) 2-Chlorophenol-d4	4.66	132	681054	25.563ug/ml
13) 4-Methylphenol-d8	5.20	113	457751	21.689ug/mL
17) Nitrobenzene-d5	5.42	128	301185	25.164ug/ml
21) 2-Nitrophenol-d4	5.77	143	326237	25.788ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	549362	27.888ug/mL
28) 4-Chloroaniline-d4	6.34	131	22184	1.032ug/mL
42) Dimethylphthalate-d6	8.42	166	1558956	30.996ug/mL
45) Acenaphthylene-d8	8.63	160	1966417	28.770ug/mL
50) 4-Nitrophenol-d4	9.12	143	301416	29.377ug/mL
57) Fluorene-d10	9.79	176	1311794	30.541ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	135069	14.318ug/mL
69) Anthracene-d10	11.62	188	2071677	29.393ug/mL
75) Pyrene-d10	14.04	212	1870403	30.302ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1201556	28.395ug/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:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 15:01:17 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)

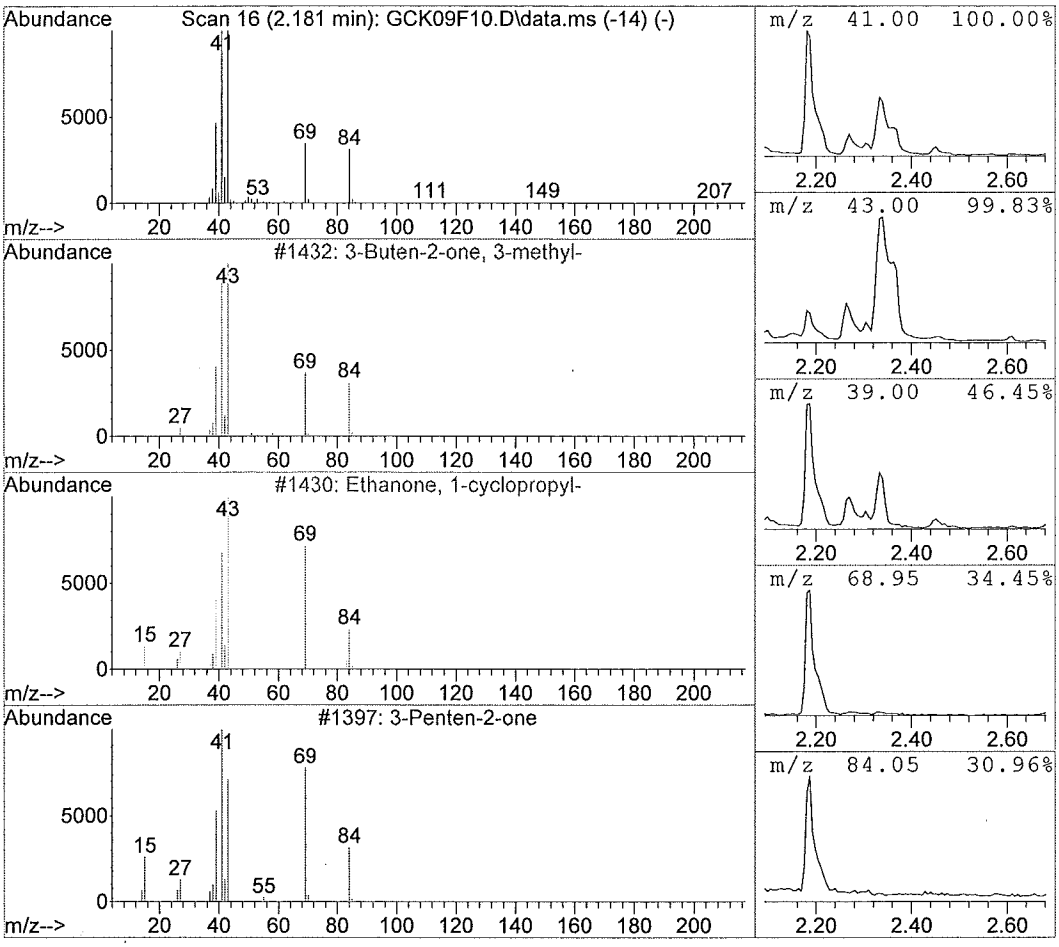
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	3.29 ug/ml	421261	1,4-Dichlorobenzene-d4	2557290

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	90.00
3	3-Penten-2-one	1397	000625-33-2	72.00
4	Propane, 1-nitro-	2167	000108-03-2	45.00
5	Dicyclopropyl carbinol	6505	014300-33-5	33.00



: 00479

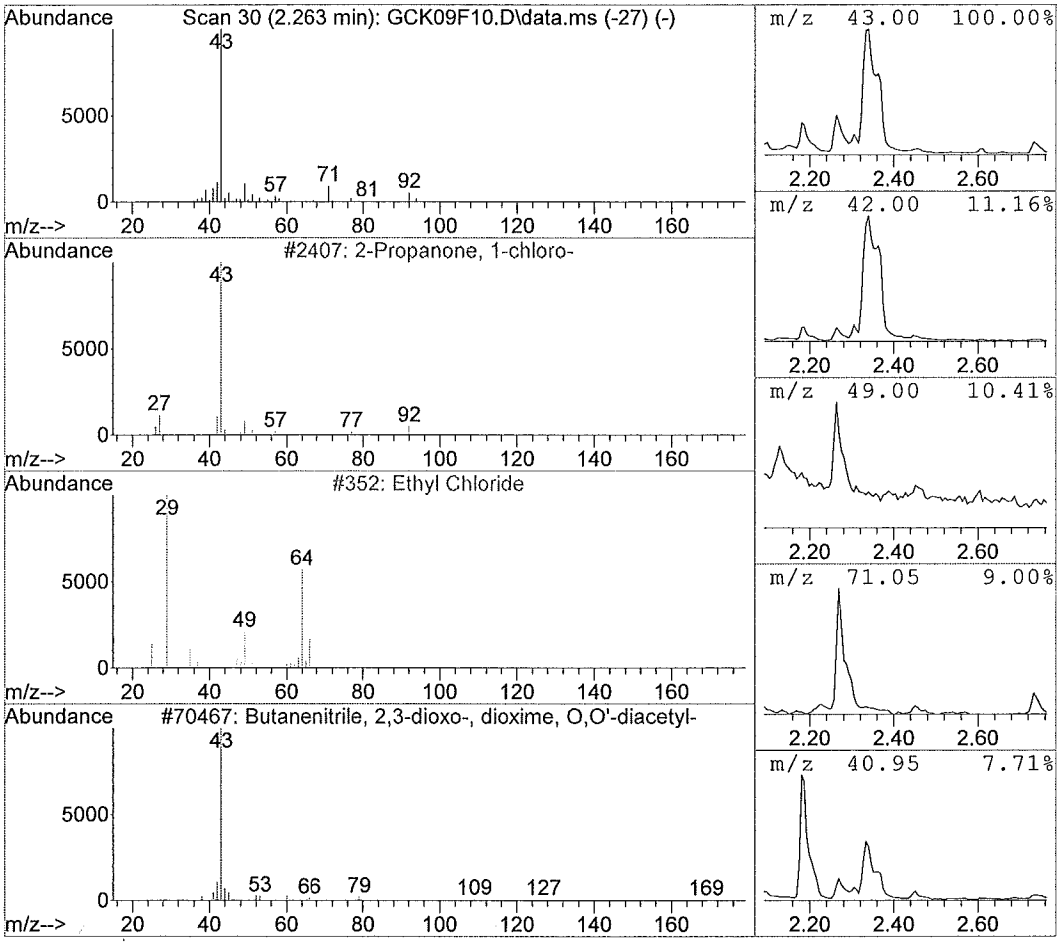
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.37 ug/ml	303353	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	80.00
2	Ethyl Chloride	352	000075-00-3	9.00
3	Butanenitrile, 2,3-dioxo-, dioxime,	70467	339246-62-7	9.00
4	n-Propyl acetate	4251	000109-60-4	9.00
5	2-Propanone, 1-fluoro-	931	000430-51-3	9.00



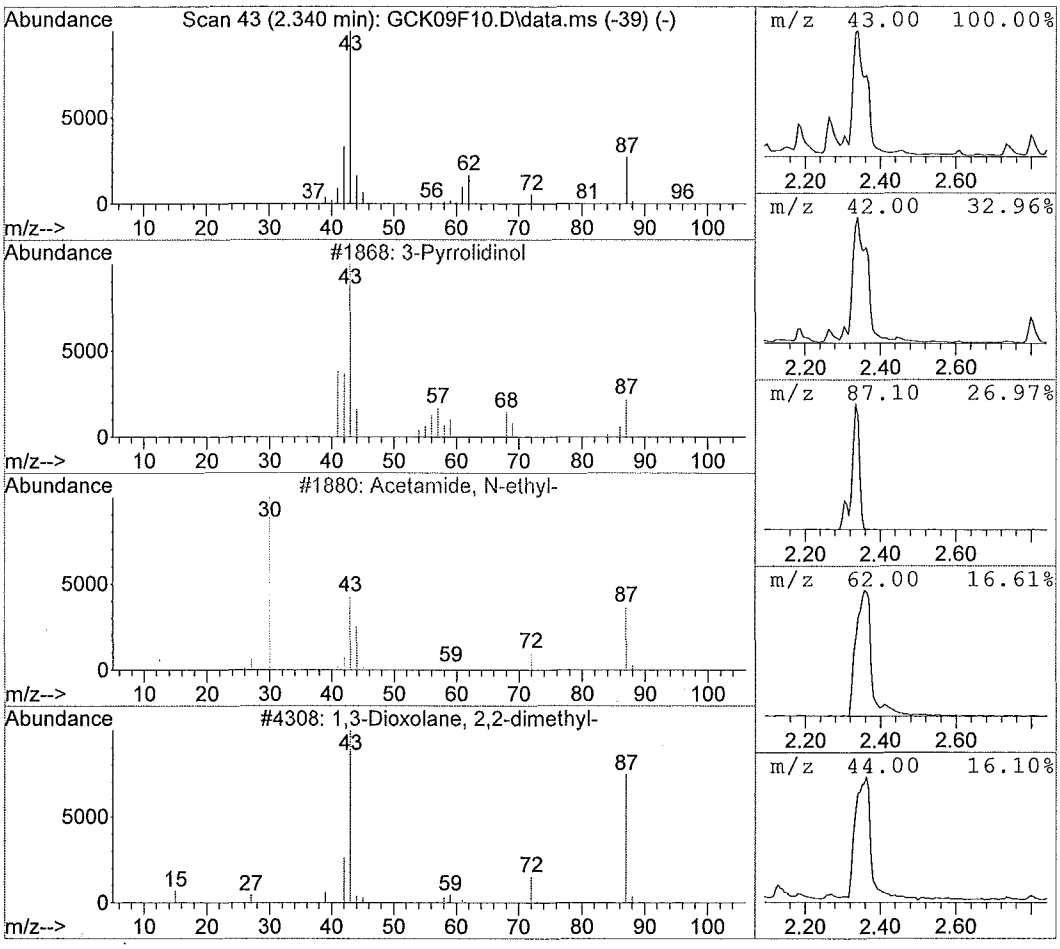
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	10.85 ug/ml	1387375	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	1868	040499-83-0	32.00
2	Acetamide, N-ethyl-	1880	000625-50-3	22.00
3	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
4	Thiocyanic acid, ethyl ester	1855	000542-90-5	7.00
5	Ethanethiol	332	000075-08-1	7.00



Library Search Compound Report

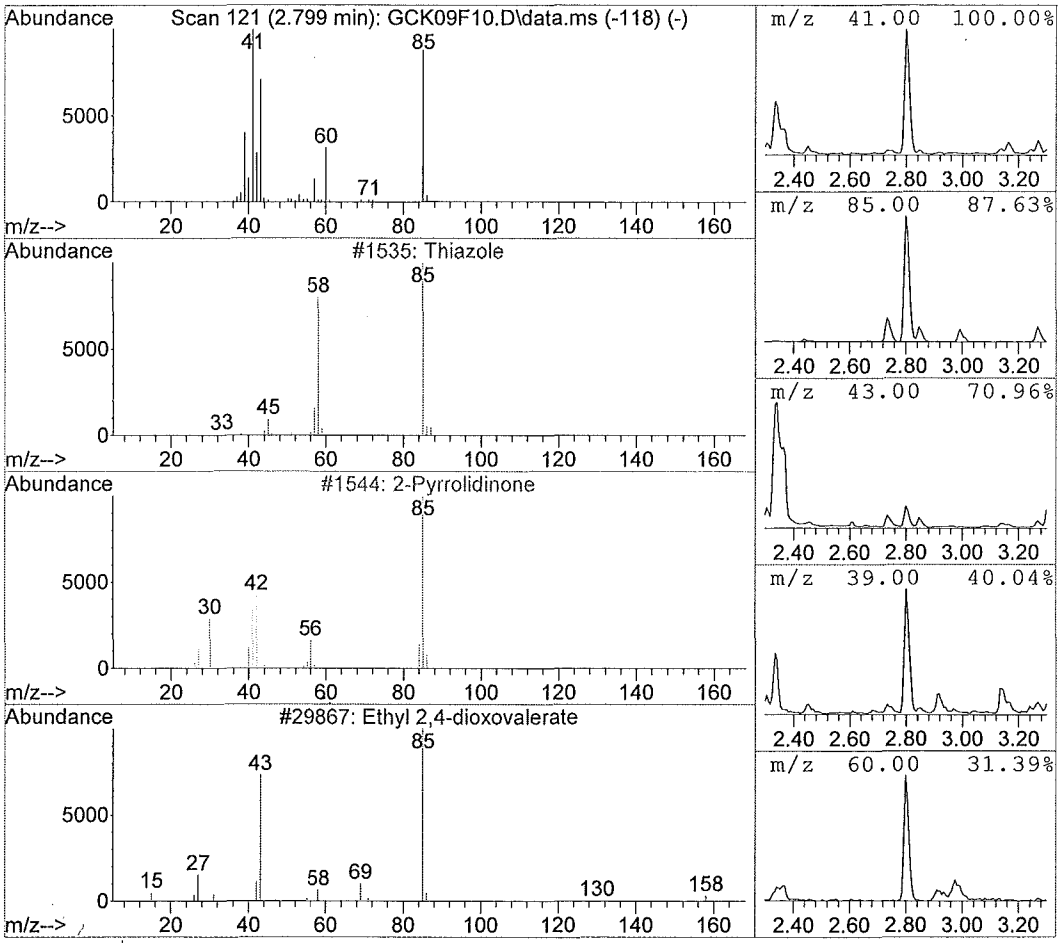
Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D
Acq On : 07/02/2015 15:15
Sample : 1513978010 F9KY7
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 9
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	3.40 ug/ml	435302	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiazole	1535	000288-47-1	35.00
2	2-Pyrrolidinone	1544	000616-45-5	23.00
3	Ethyl 2,4-dioxovalerate	29867	000615-79-2	12.00
4	Hexane, 3-bromo-	33931	003377-87-5	9.00
5	Hexane, 2-bromo-	33924	003377-86-4	9.00



: 00482

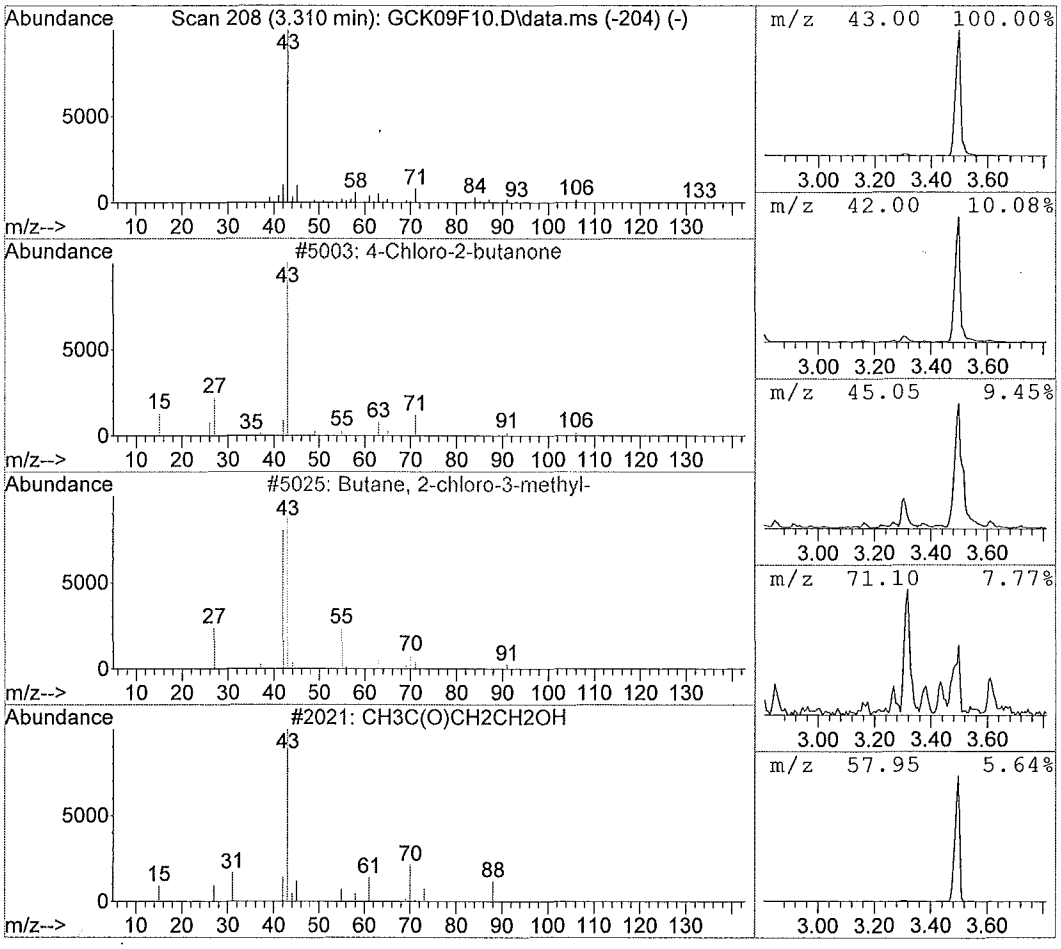
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	2.32 ug/ml	296874	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	25.00
2	Butane, 2-chloro-3-methyl-	5025	000631-65-2	9.00
3	CH3C(O)CH2CH2OH	2021	000590-90-9	9.00
4	Formic acid, chloro-, (3,4,4-trimet	56651	107323-92-2	9.00
5	1,4-Butanediol, diacetate	41433	000628-67-1	9.00



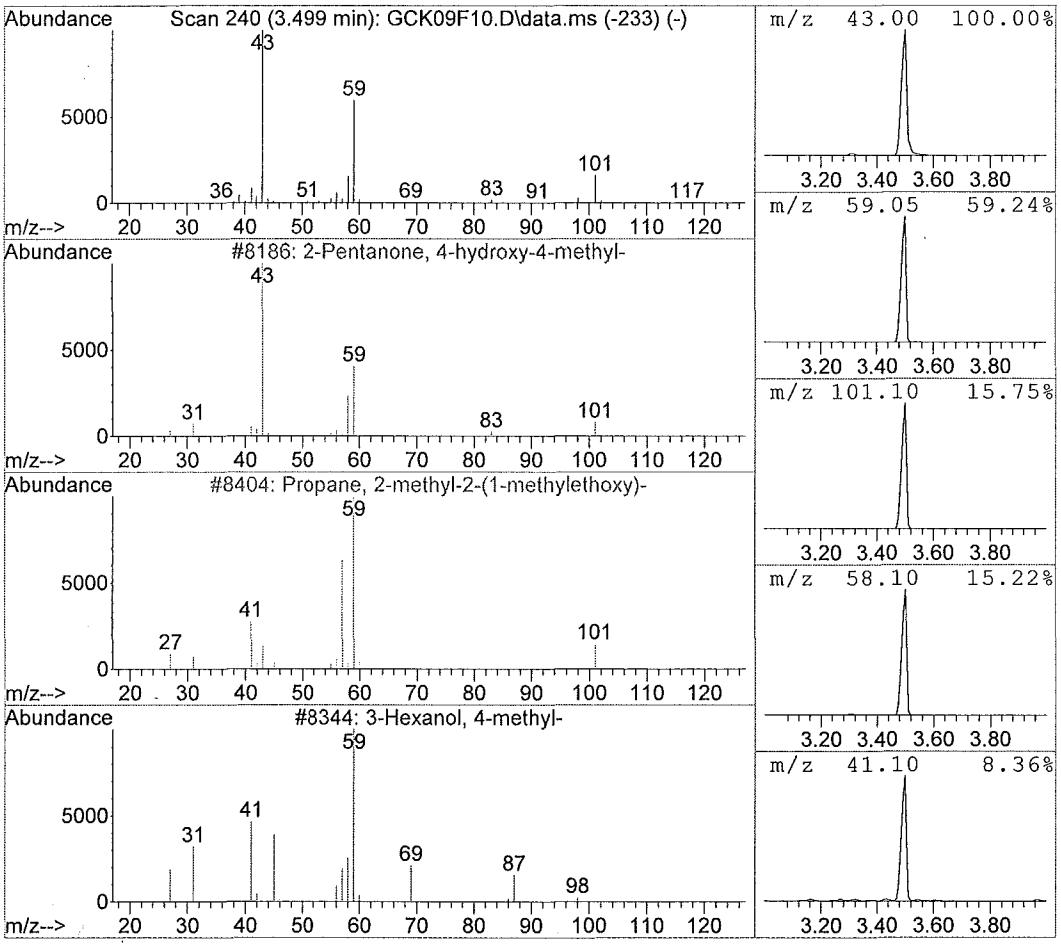
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	141.39 ug/ml	18079314	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	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	23.00



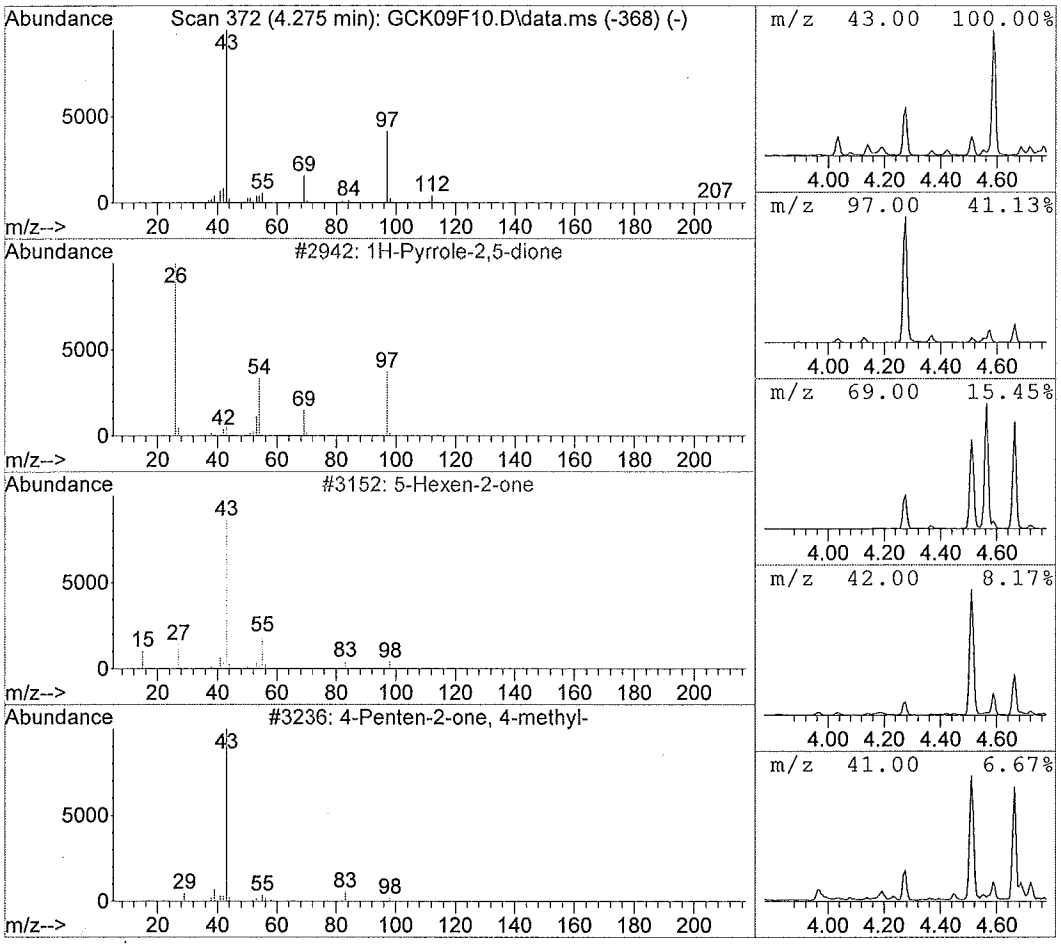
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.75 ug/ml	607165	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	5-Hexen-2-one	3152	000109-49-9	10.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	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:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.40 ug/ml	946476	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Hexane, 2-methyl-	3978	000591-76-4	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3971	000142-82-5	5.00

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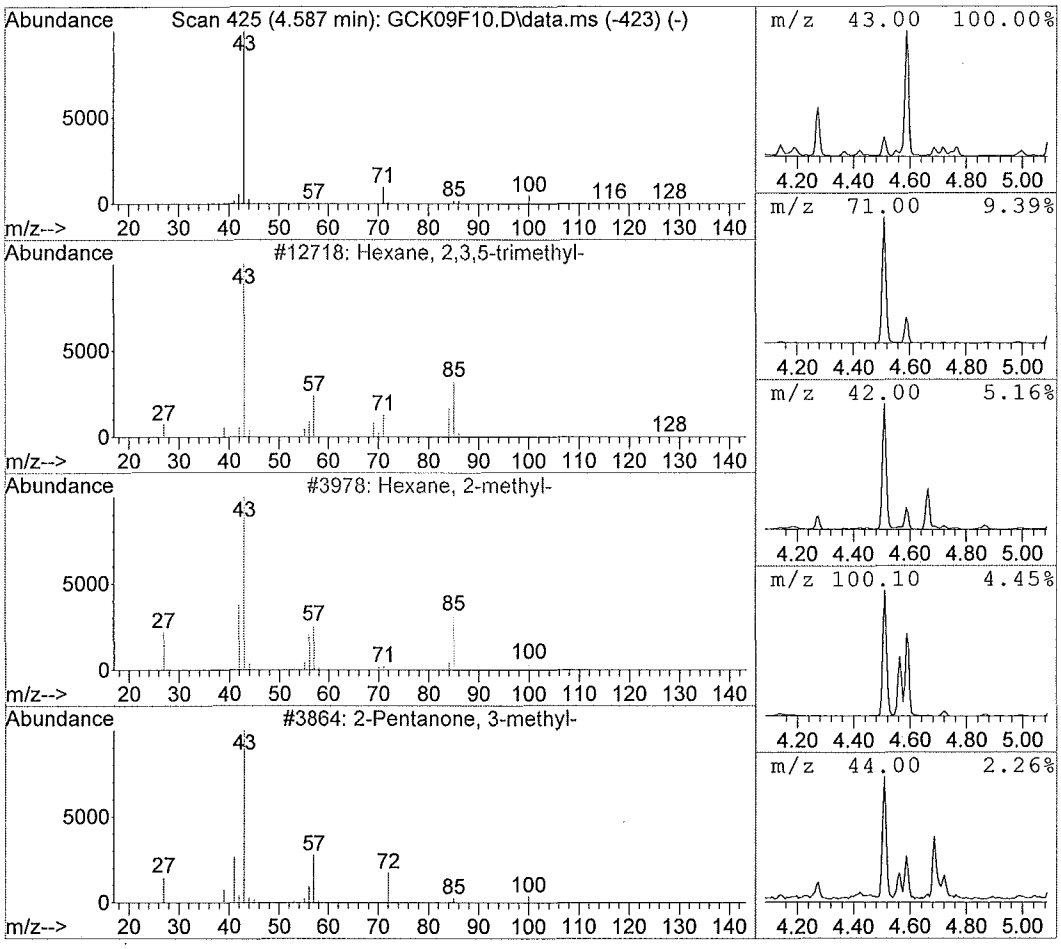


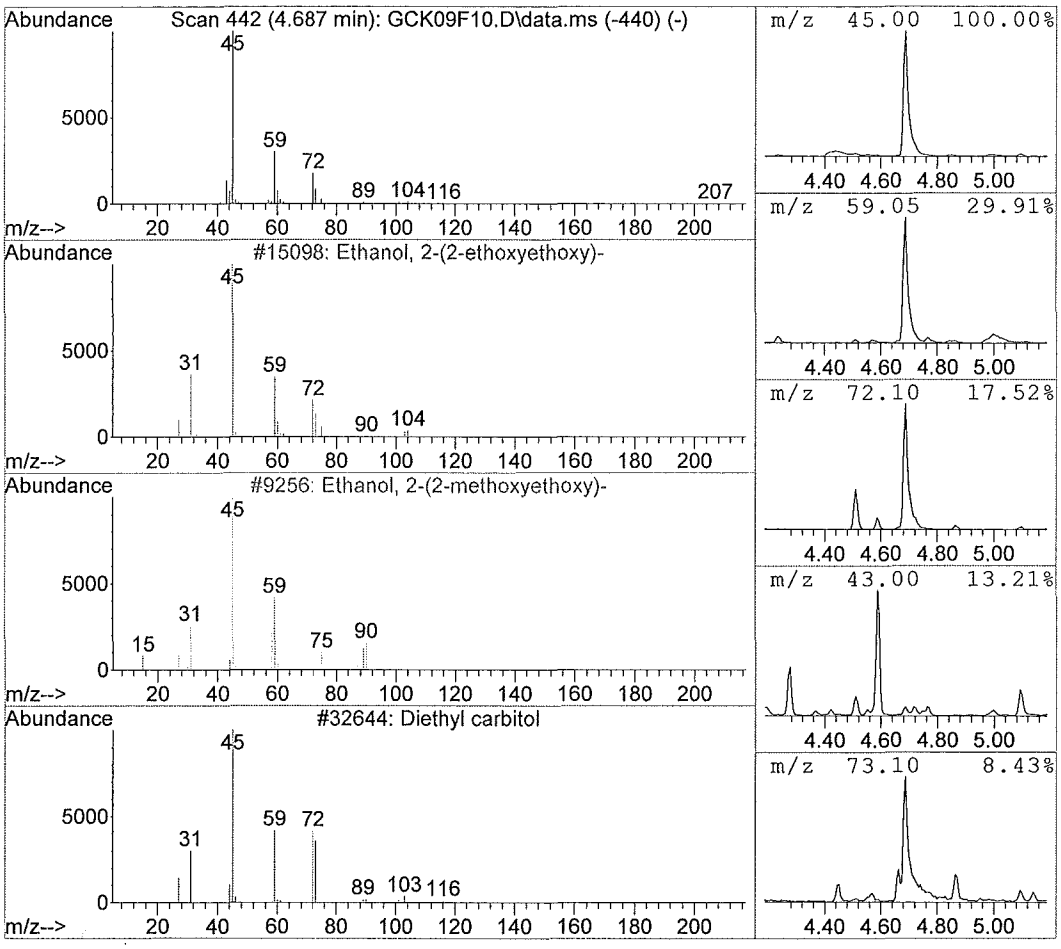
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	6.75 ug/ml	863582	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	Diethyl carbitol	32644	000112-36-7	39.00
4	2-Pentanol	2094	006032-29-7	36.00
5	Methoxyacetic acid, butyl ester	21952	017640-22-1	33.00



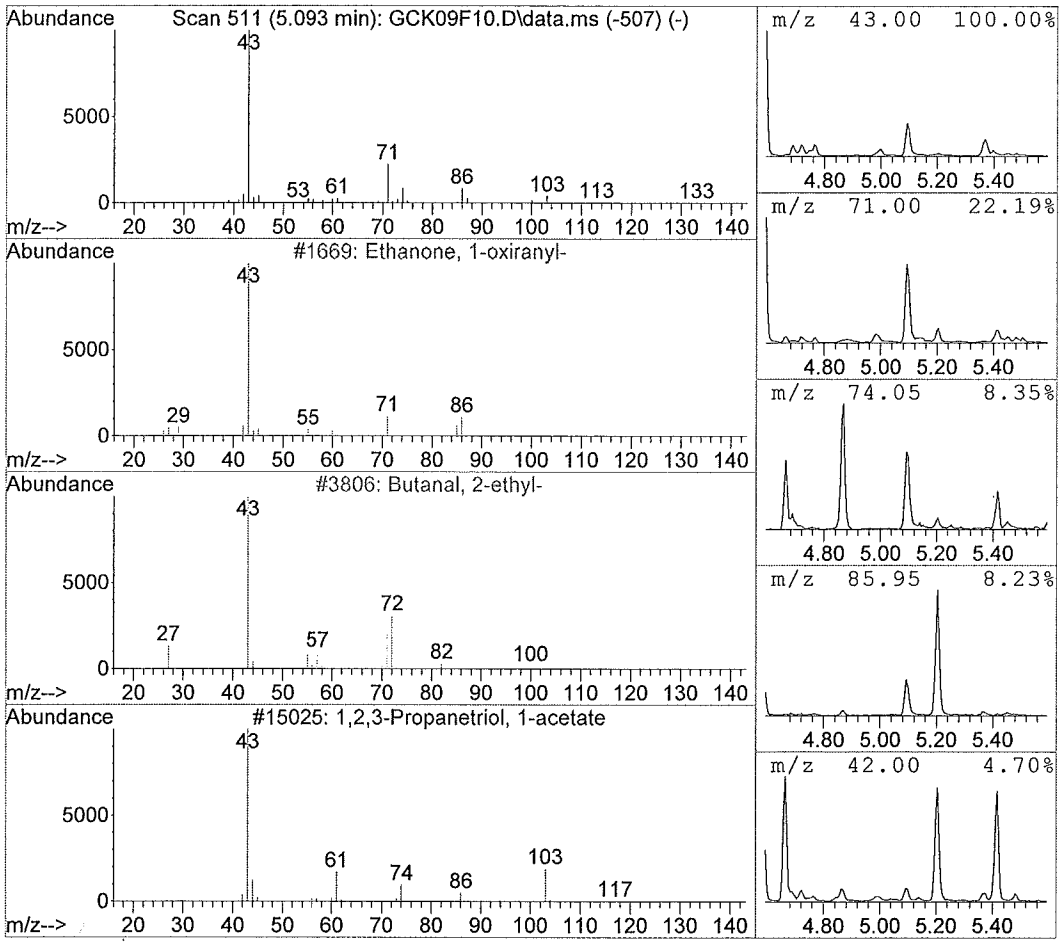
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.09	2.38 ug/ml	304142	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	50.00
2	Butanal, 2-ethyl-	3806	000097-96-1	33.00
3	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
4	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
5	2-Butanol, 3-methyl-, acetate	13487	005343-96-4	17.00



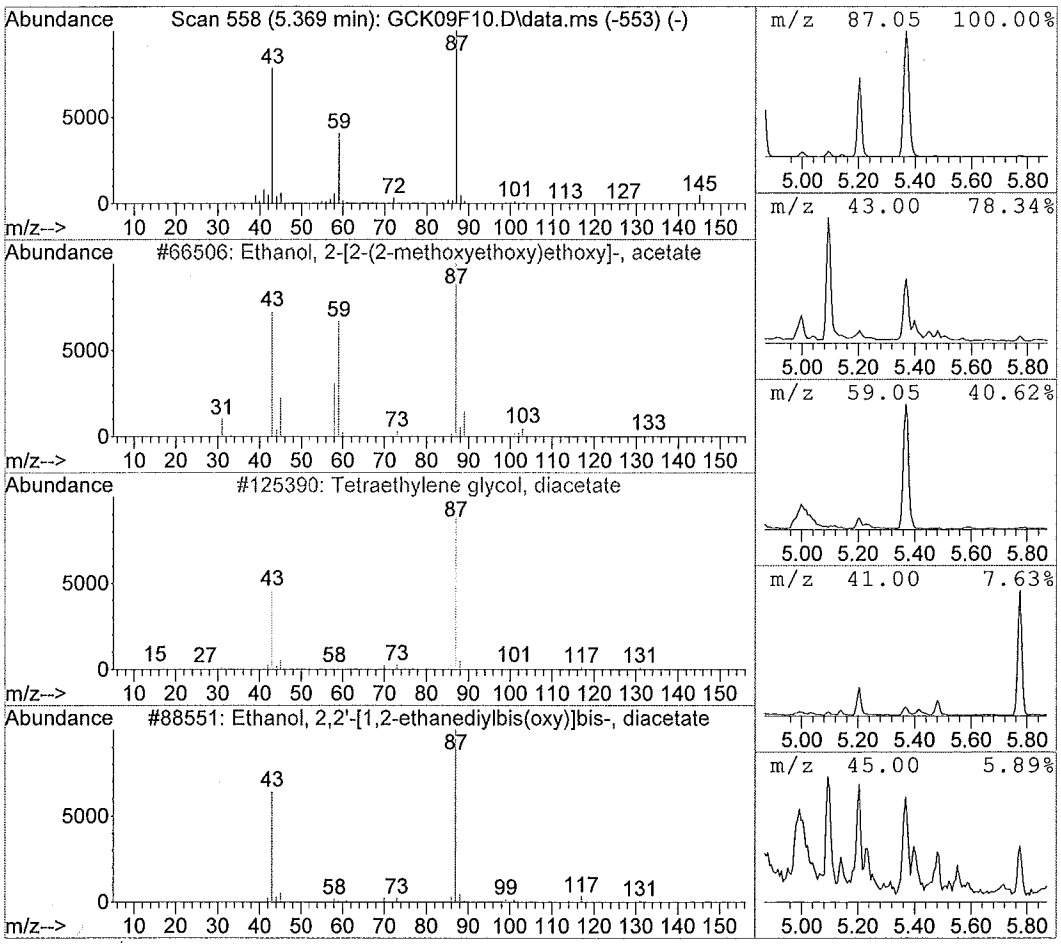
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.37	2.95 ug/ml	377363	1,4-Dichlorobenzene-d4	2557290

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-[2-(2-methoxyethoxy)etho	66506	003610-27-3	56.00
2	Tetraethylene glycol, diacetate	125390	022790-12-1	50.00
3	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	50.00
4	Silane, tetraethyl-	21084	000631-36-7	45.00
5	1,3-Dioxolane, 2-butyl-4-methyl-	20938	074094-60-3	39.00



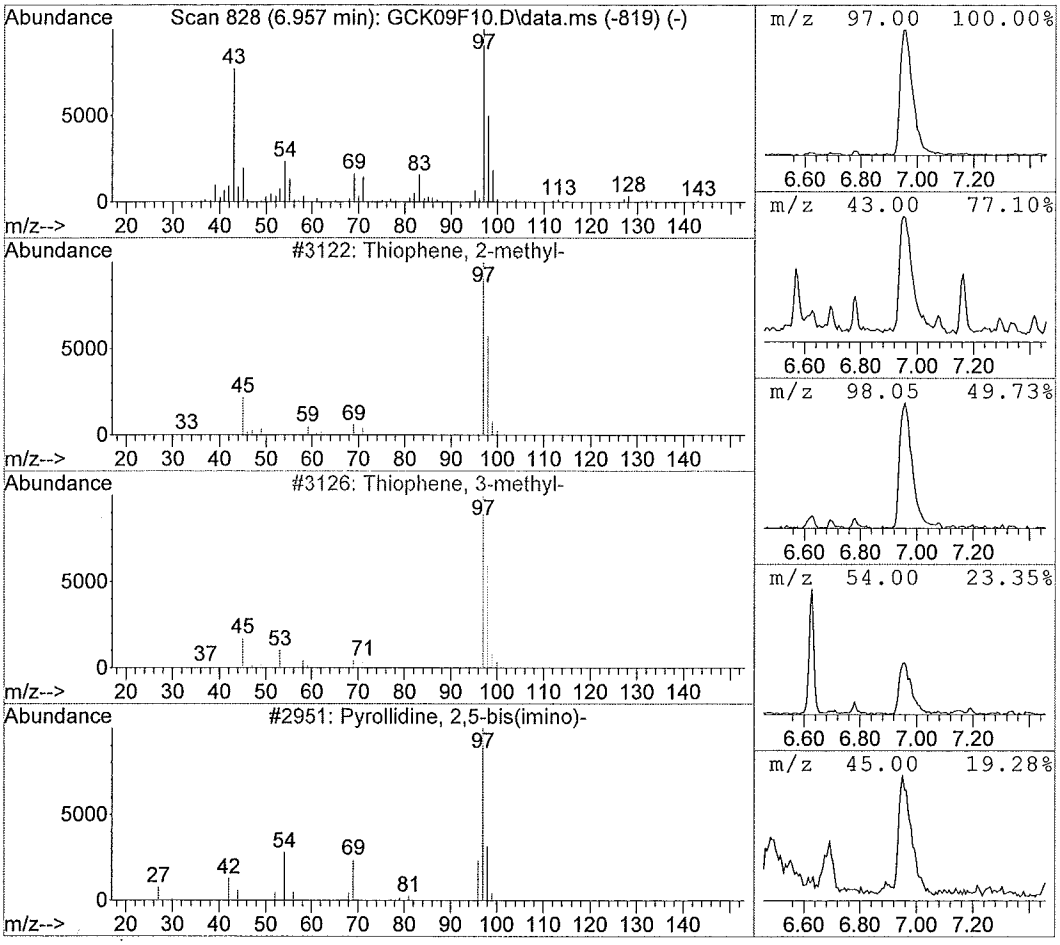
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.96	3.32 ug/ml	518891	Naphthalene-d8	3122429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiophene, 2-methyl-	3122	000554-14-3	64.00
2	Thiophene, 3-methyl-	3126	000616-44-4	64.00
3	Pyrollidine, 2,5-bis(imino)-	2951	000503-84-4	47.00
4	Propennitrile, 3-ethoxy-2-(2-thieny	107864	1000267-97-5	47.00
5	3-Thiopheneethanol	12159	013781-67-4	43.00



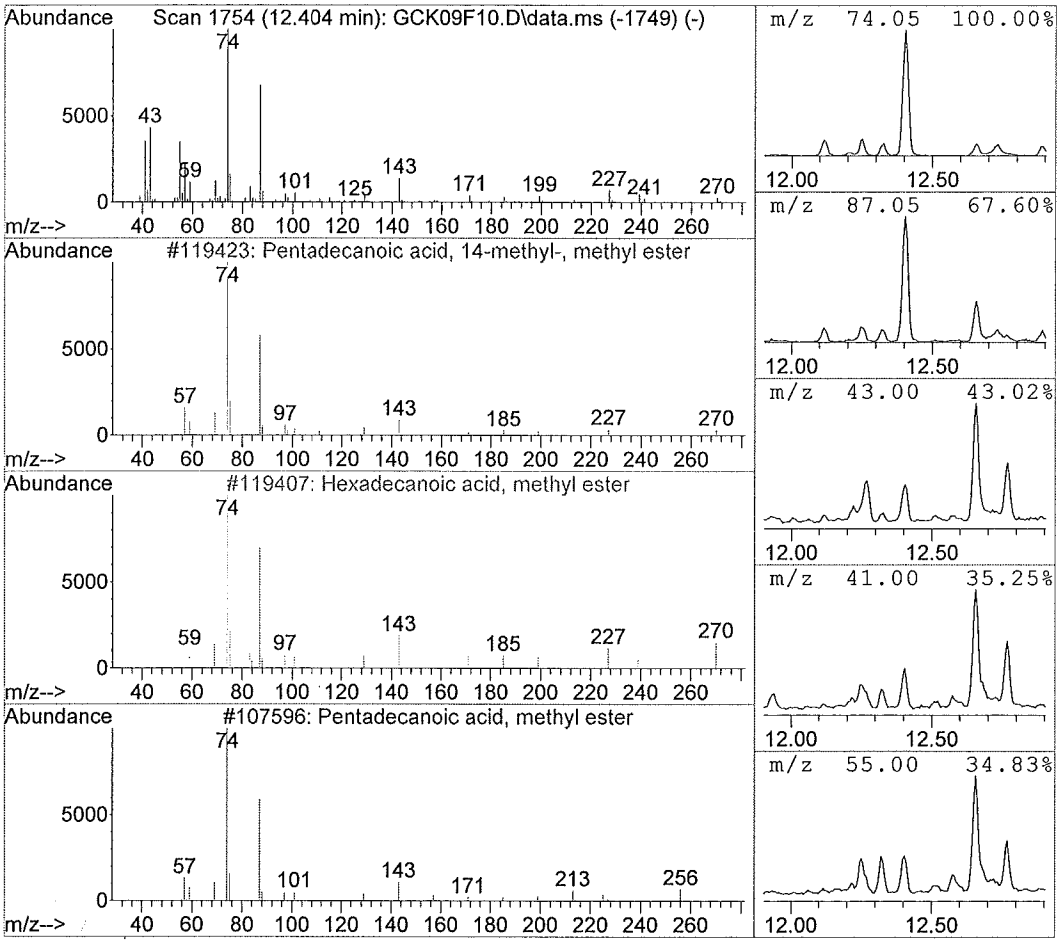
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.12 ug/ml	361857	Phenanthrene-d10	3413526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
2	Hexadecanoic acid, methyl ester	119407	000112-39-0	95.00
3	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	86.00
5	Methyl tetradecanoate	95861	000124-10-7	86.00



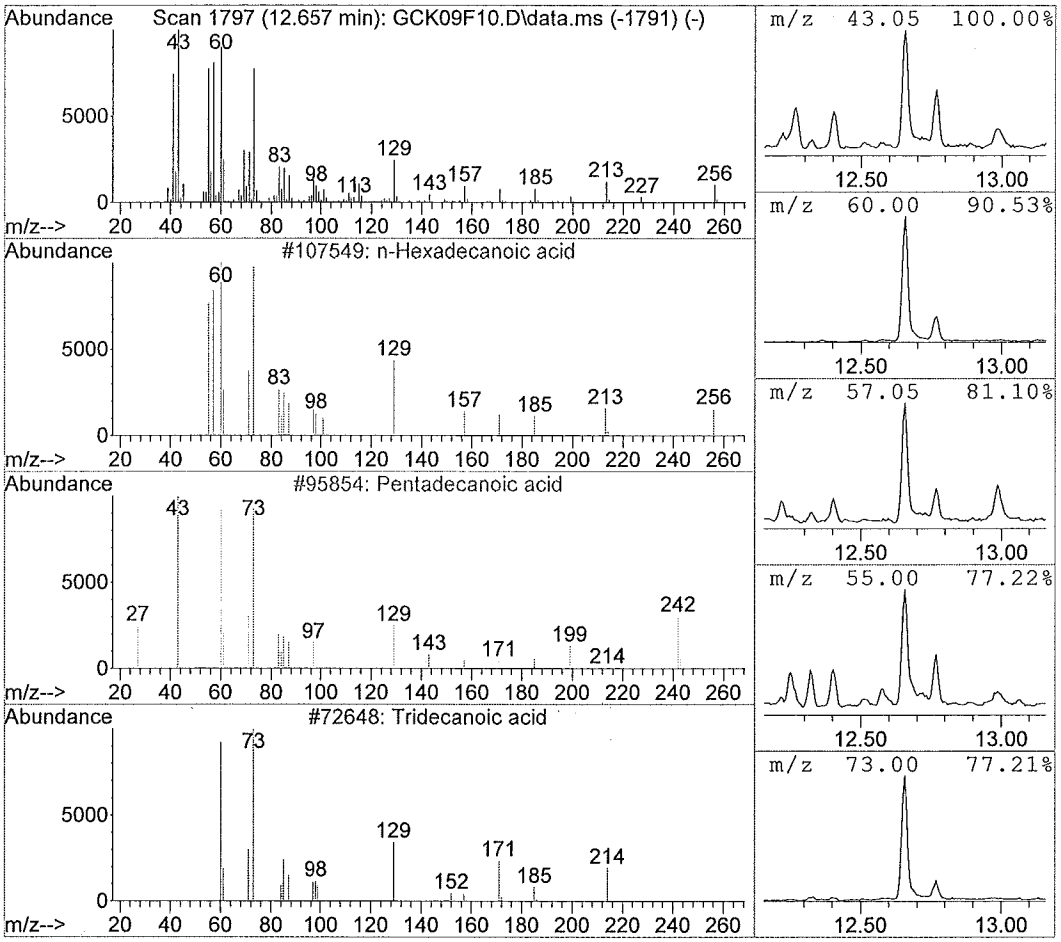
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.73 ug/ml	1319184	Phenanthrene-d10	3413526

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	72.00
3	Tridecanoic acid	72648	000638-53-9	72.00
4	Tetradecanoic acid	84452	000544-63-8	64.00
5	Undecanoic acid	50052	000112-37-8	59.00



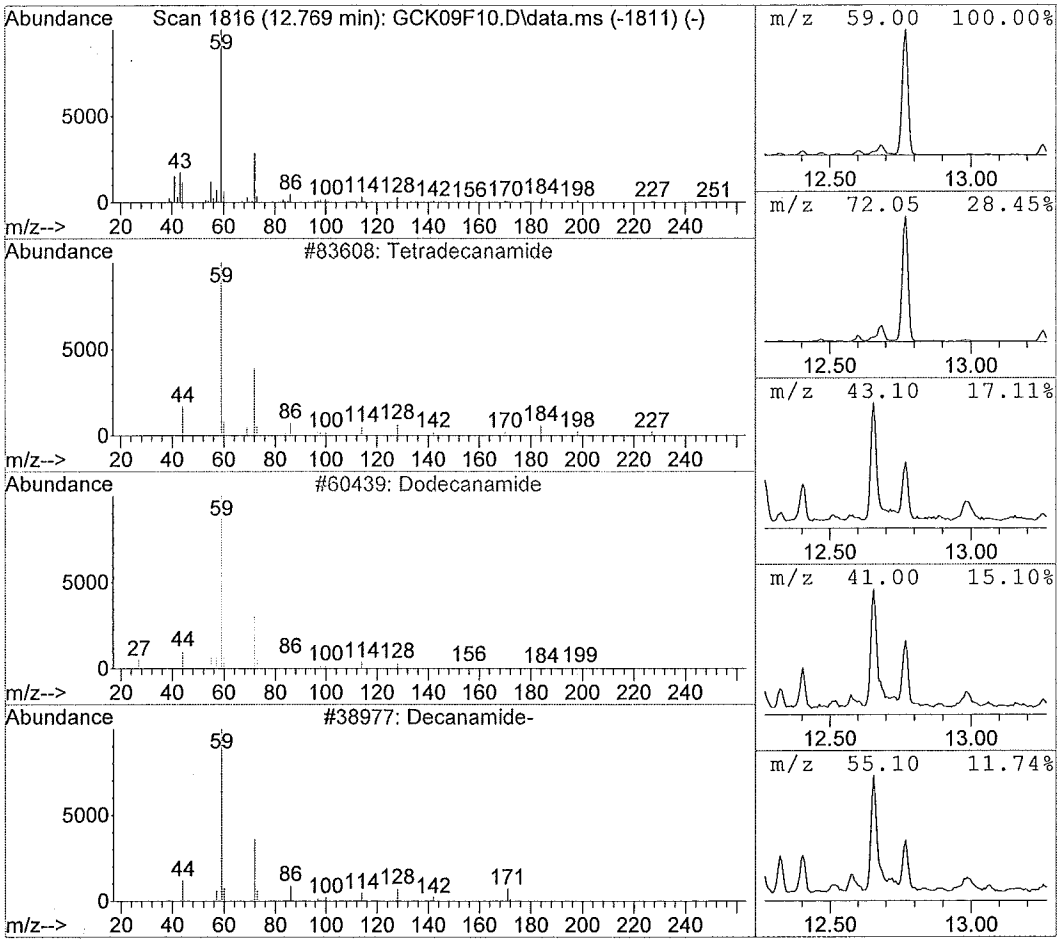
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.26 ug/ml	726873	Phenanthrene-d10	3413526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	95.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Decanamide-	38977	002319-29-1	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	83.00



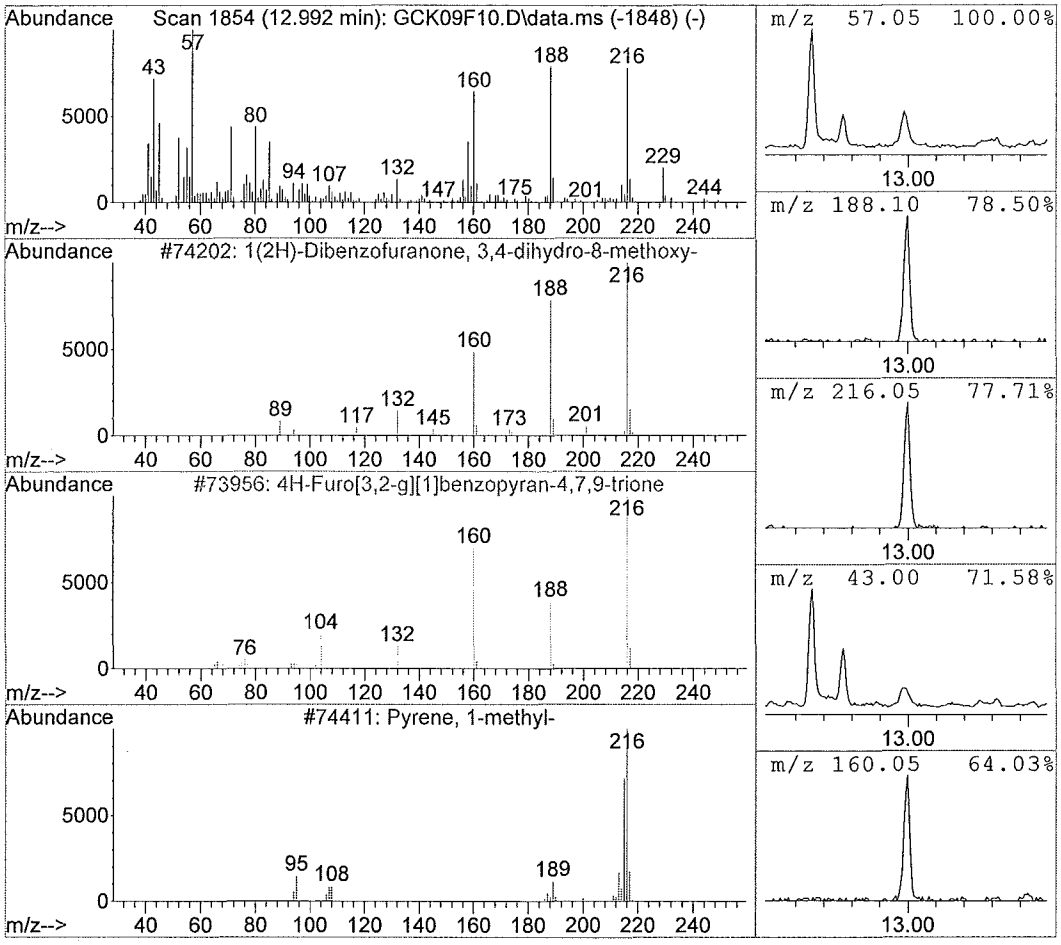
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.08 ug/ml	355458	Phenanthrene-d10	3413526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	38.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	25.00
3	Pyrene, 1-methyl-	74411	002381-21-7	15.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	15.00
5	1,2,3,4,7,8,9,10-Octahydro-[1,10]ph	51667	1000304-28-0	14.00



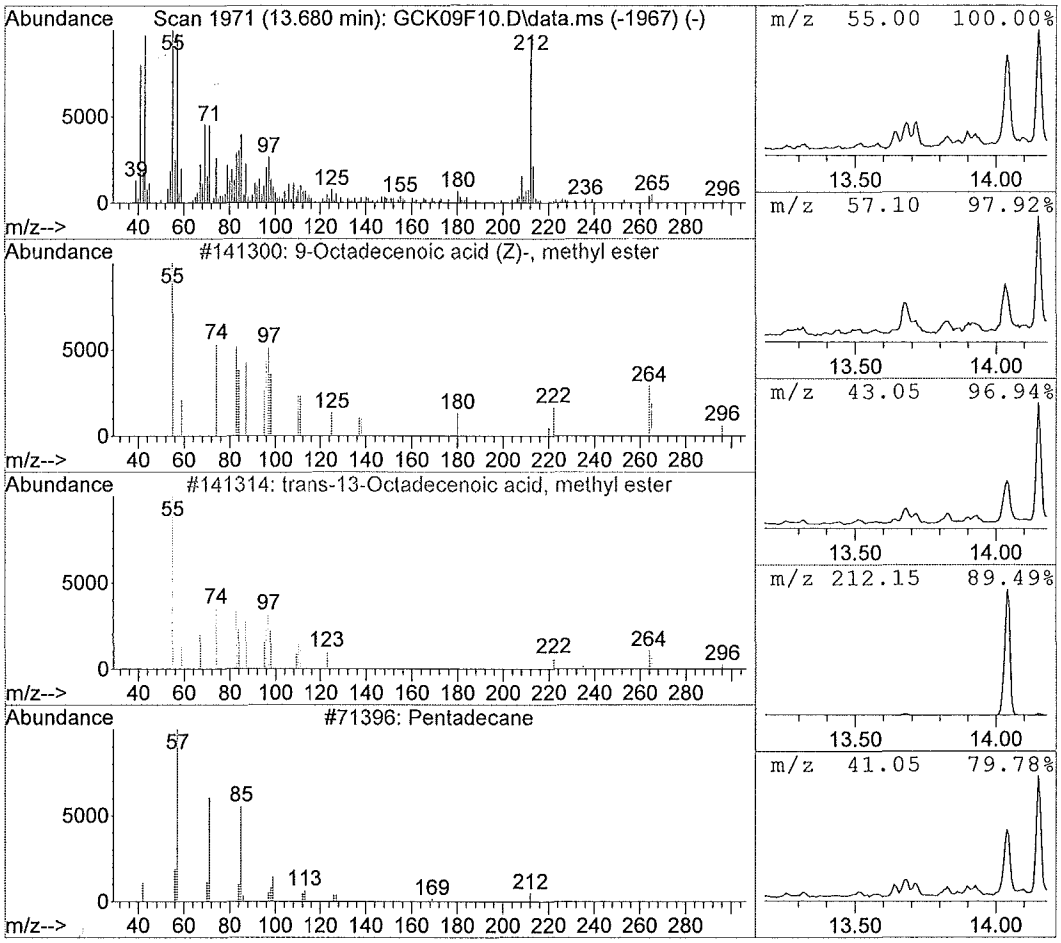
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.46 ug/ml	430846	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141300	000112-62-9	53.00
2	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	46.00
3	Pentadecane	71396	000629-62-9	46.00
4	Hexadecane	83023	000544-76-3	35.00
5	1-Dodecanol, 2-hexyl-	119526	110225-00-8	30.00



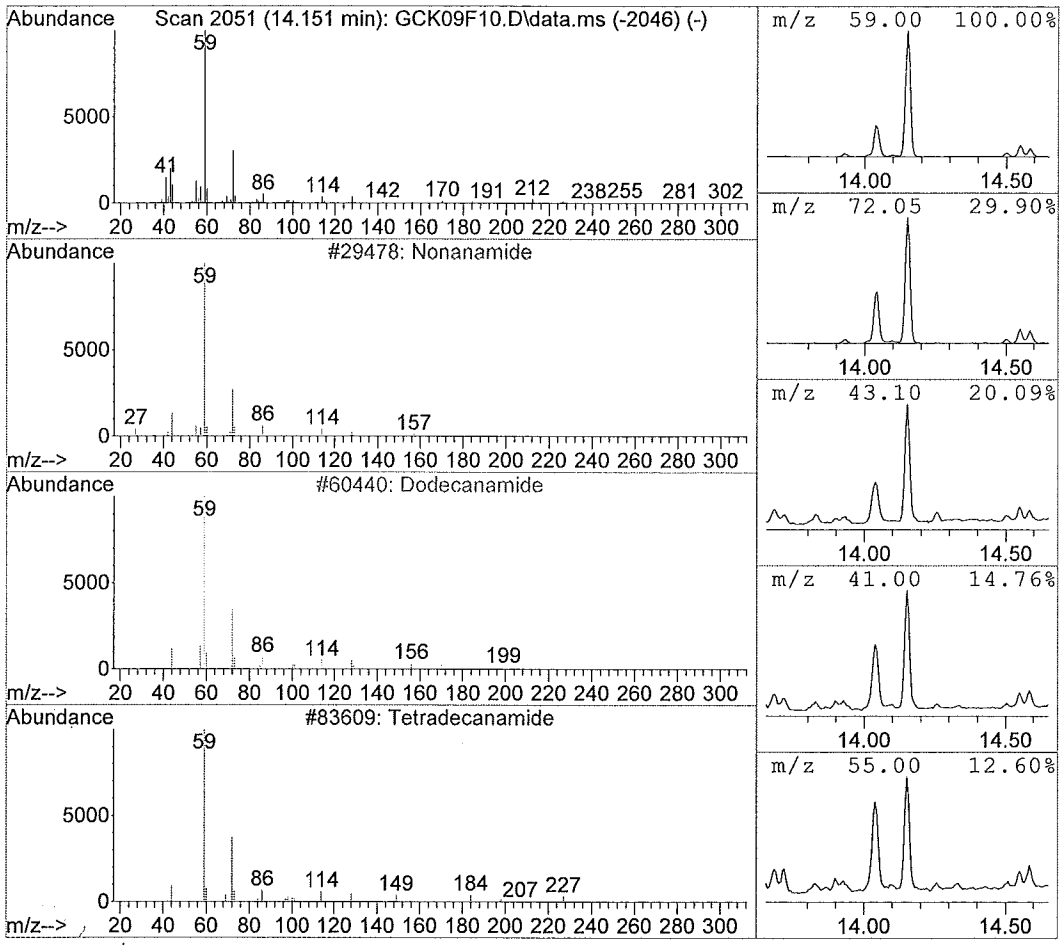
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	13.68 ug/ml	2396599	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanamide	29478	001120-07-6	78.00
2	Dodecanamide	60440	001120-16-7	78.00
3	Tetradecanamide	83609	000638-58-4	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



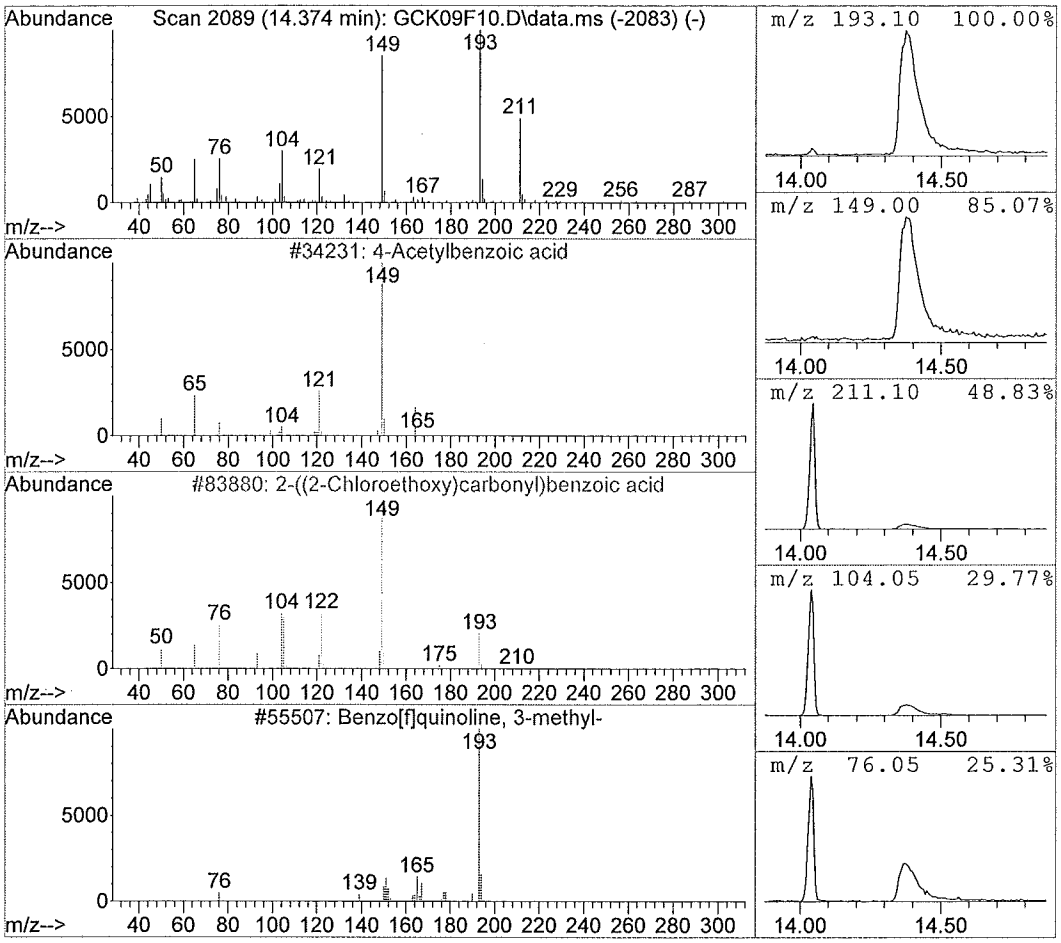
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.37	3.88 ug/ml	679074	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Acetylbenzoic acid	34231	000586-89-0	27.00
2	2-((2-Chloroethoxy)carbonyl)benzoic	83880	1000373-53-5	25.00
3	Benzo[f]quinoline, 3-methyl-	55507	000085-06-3	22.00
4	4-(Trifluoroacetyl)benzoic acid	76213	058808-59-6	16.00
5	2-((2-Ethylbutoxy)carbonyl)benzoic	102168	1000373-62-8	16.00



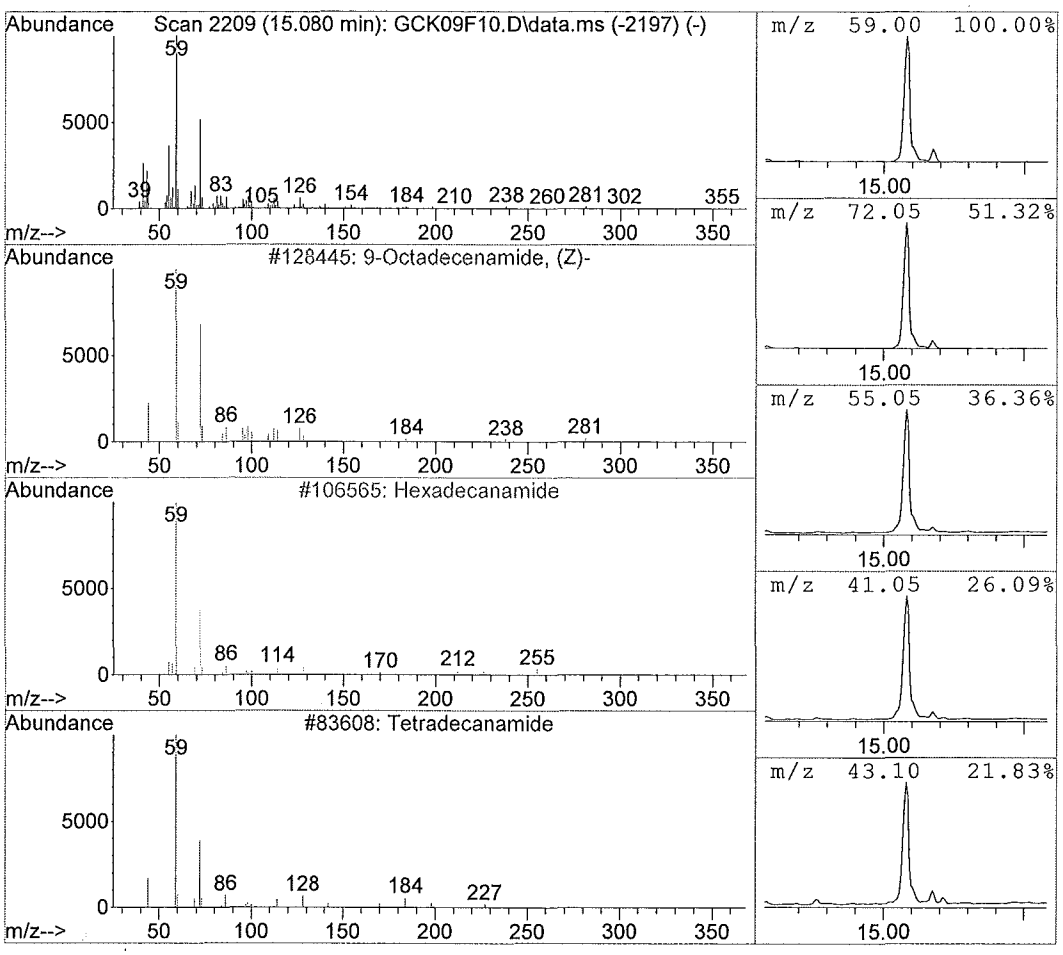
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	102.89 ug/ml	18022310	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	Tetradecanamide	83608	000638-58-4	72.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Dodecanamide	60439	001120-16-7	59.00



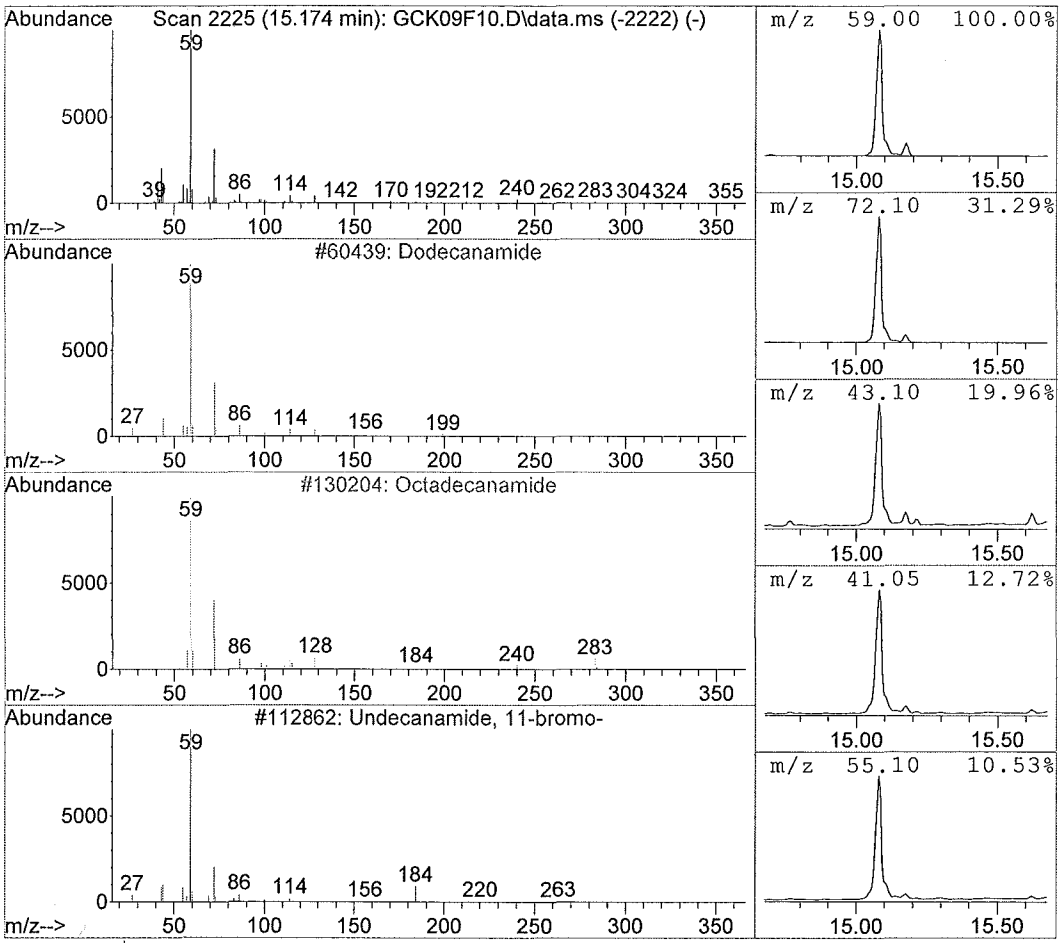
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.76 ug/ml	834404	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Octadecanamide	130204	000124-26-5	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	64.00
4	Nonadecanamide	142051	058185-32-3	56.00
5	Hexadecanamide	106564	000629-54-9	55.00



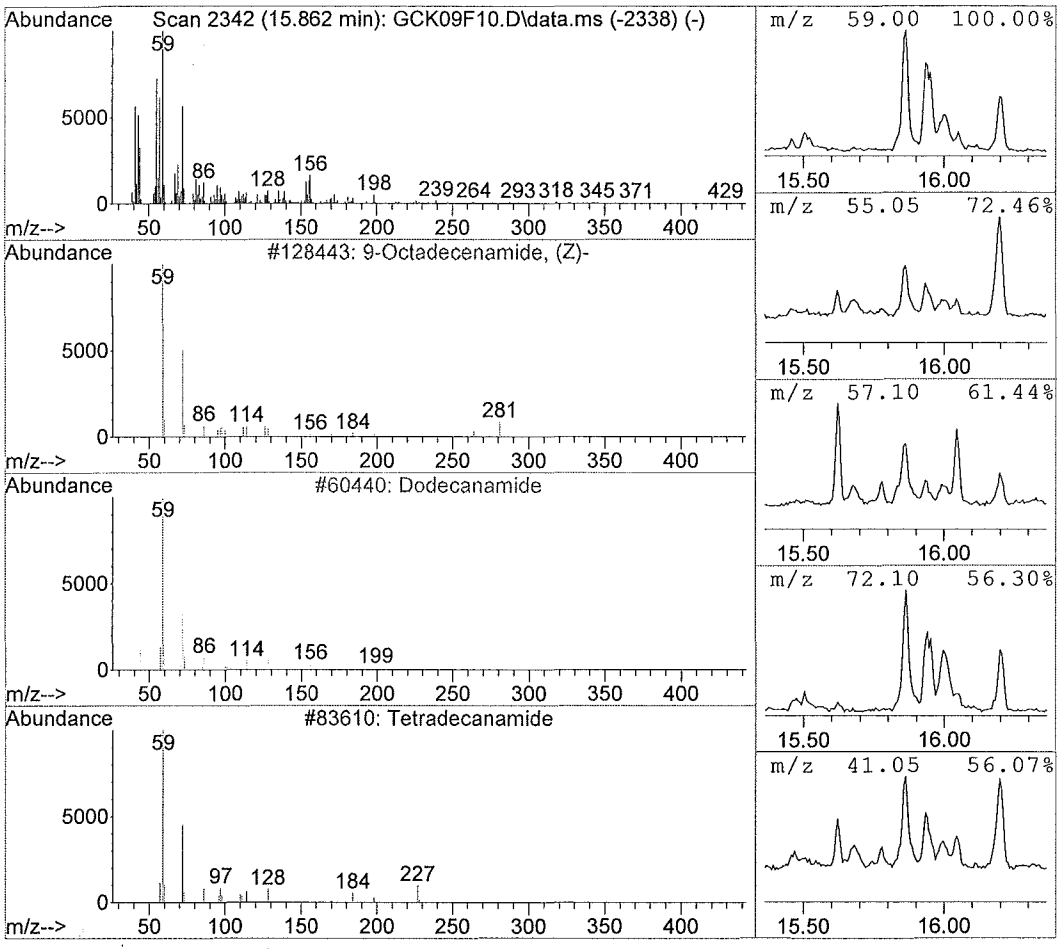
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.42 ug/ml	774613	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
2	Dodecanamide	60440	001120-16-7	55.00
3	Tetradecanamide	83610	000638-58-4	53.00
4	7-Nonenamide	28131	090949-53-4	53.00
5	Butanal, 3-methyl-, oxime	4097	000626-90-4	35.00



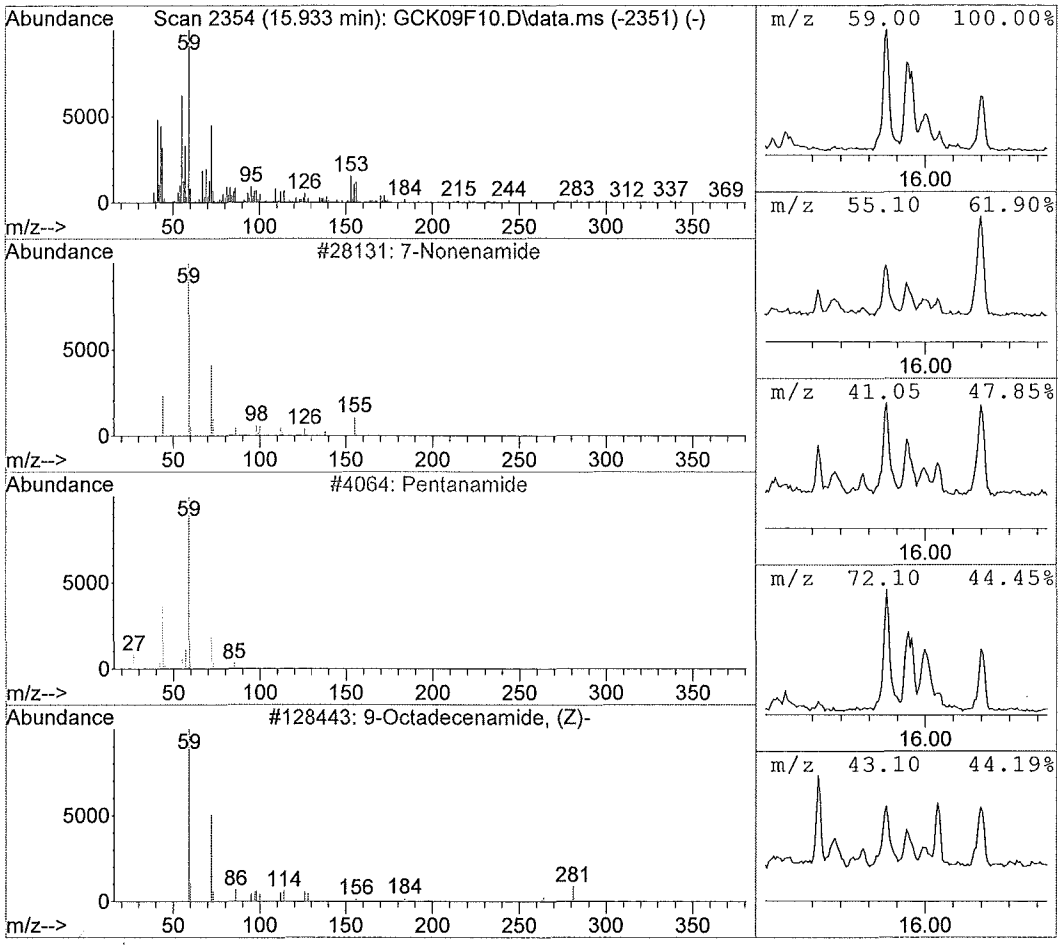
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.59 ug/ml	453411	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	68.00
2	Pentanamide	4064	000626-97-1	53.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	52.00
4	Hexadecanamide	106564	000629-54-9	50.00
5	Dodecanamide	60439	001120-16-7	47.00



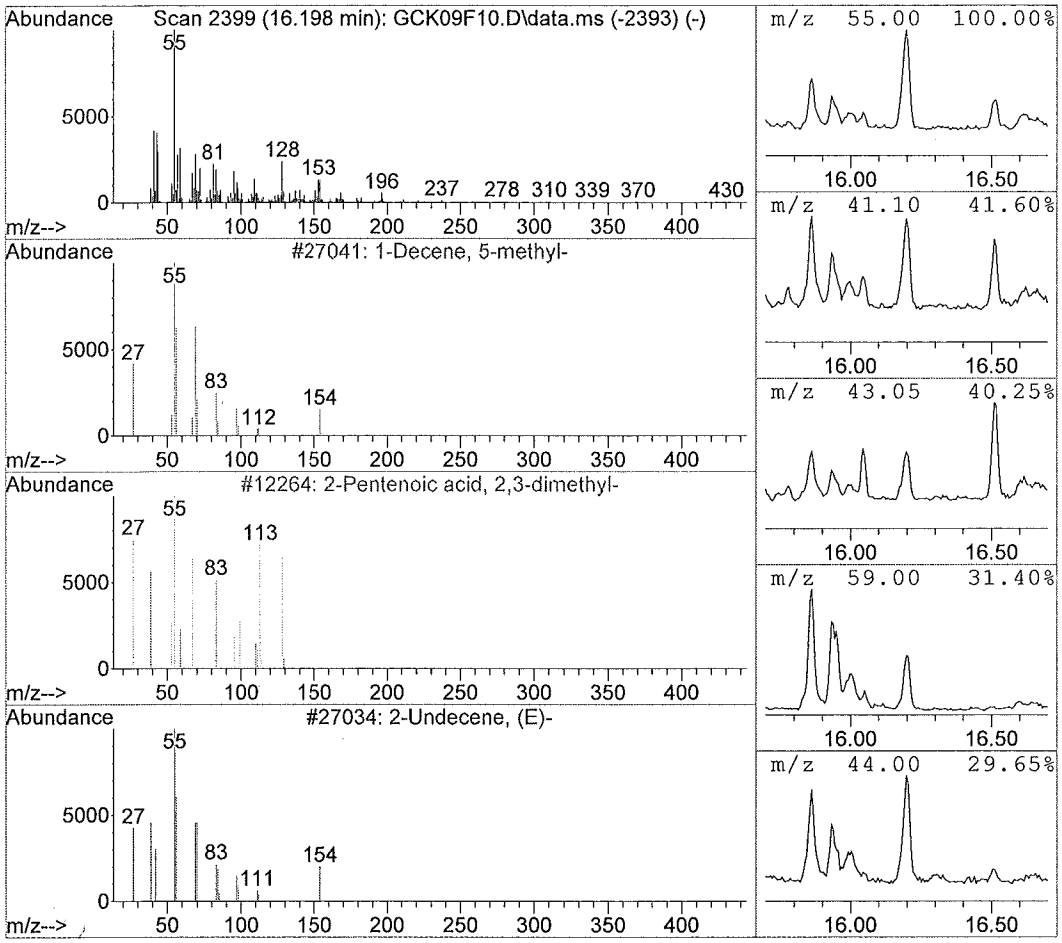
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.52 ug/ml	1142644	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decene, 5-methyl-	27041	054244-79-0	35.00
2	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	22.00
3	2-Undecene, (E)-	27034	000693-61-8	18.00
4	9-Octadecenoic acid, methyl ester,	141306	001937-62-8	18.00
5	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25369	015358-88-0	14.00



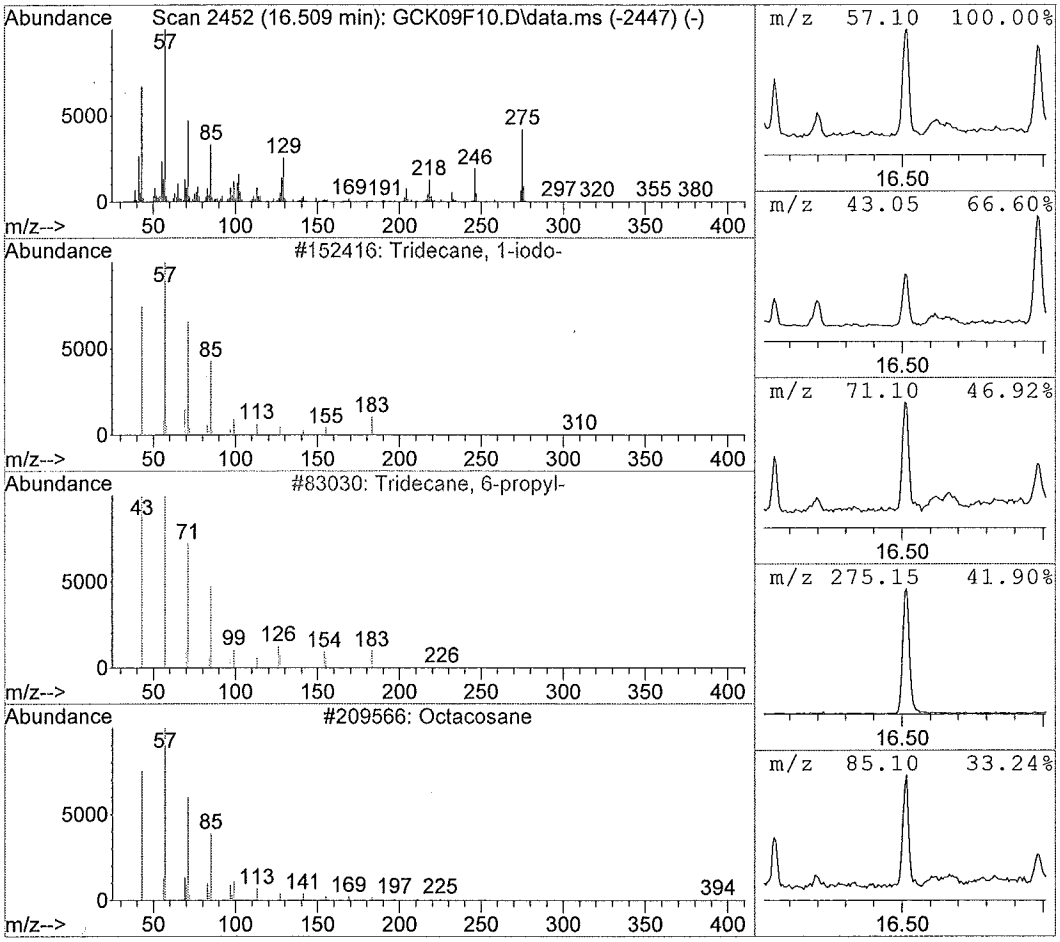
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.18 ug/ml	1256857	Chrysene-d12	3503275

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 1-iodo-	152416	035599-77-0	51.00
2	Tridecane, 6-propyl-	83030	055045-10-8	38.00
3	Octacosane	209566	000630-02-4	38.00
4	Decane, 3,8-dimethyl-	38349	017312-55-9	38.00
5	Octadecane, 5,14-dibutyl-	194506	055282-13-8	30.00



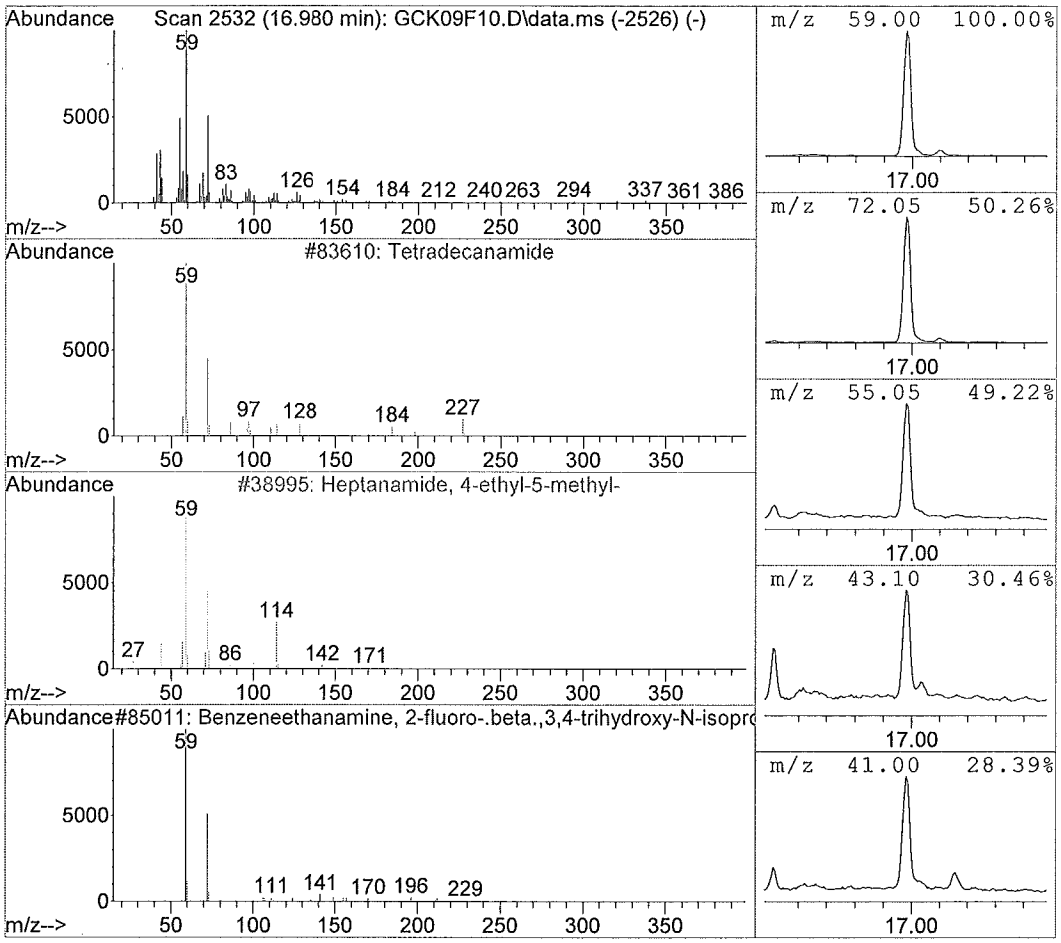
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	34.70 ug/ml	4509699	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	87.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	72.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	9-Octadecenamide, (Z)-	128445	000301-02-0	58.00
5	Octanamide	20317	000629-01-6	53.00



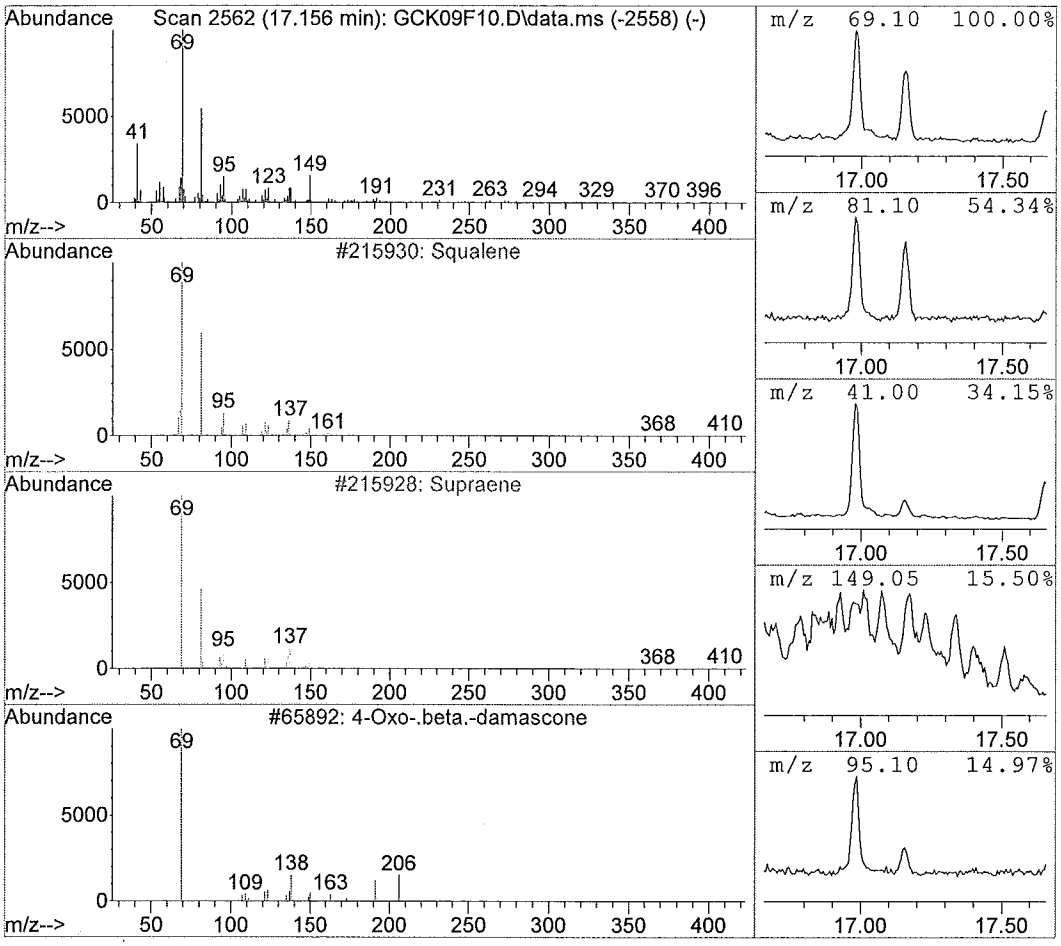
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.15 ug/ml	409368	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	98.00
2	Supraene	215928	007683-64-9	93.00
3	4-Oxo-.beta.-damascone	65892	053398-08-6	59.00
4	2,6-Octadiene, 4-methyl-	10659	074498-94-5	53.00
5	2,6-Octadiene, 4,5-dimethyl-	16905	018476-57-8	47.00



Library Search Compound Report

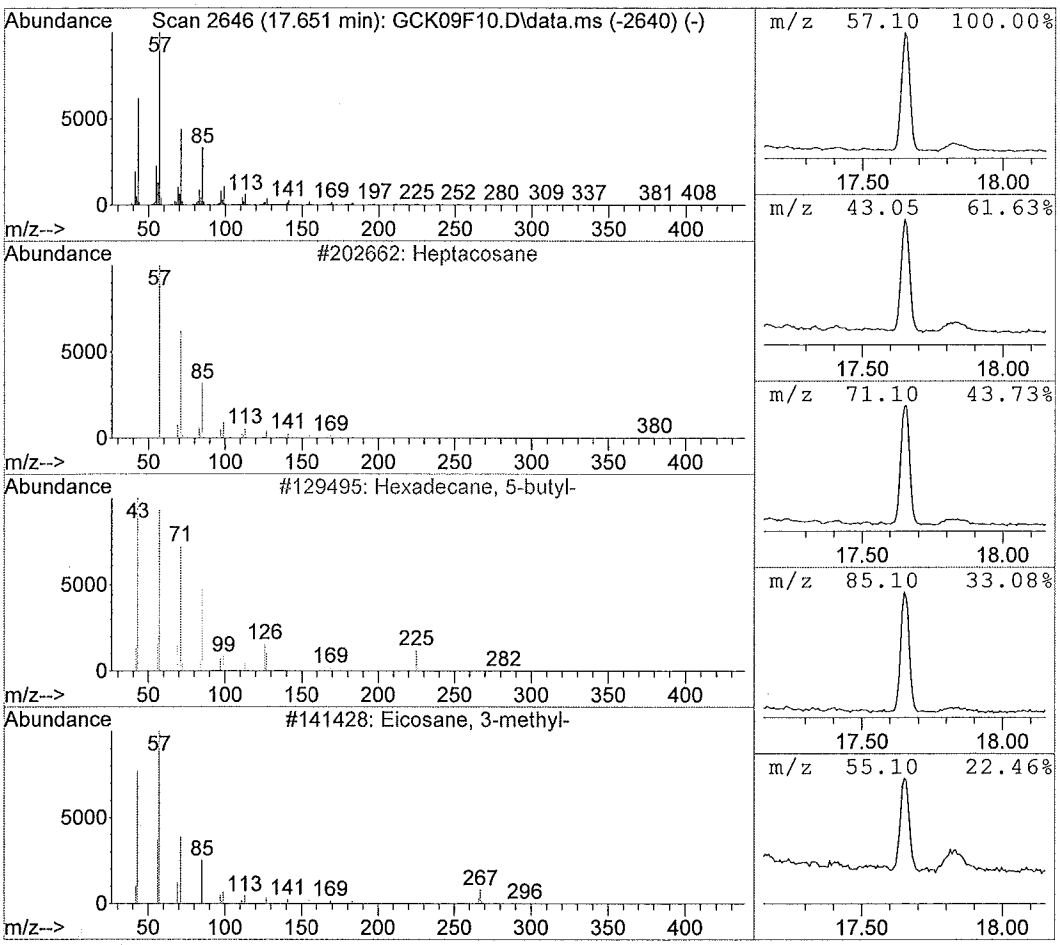
Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	15.72 ug/ml	2042984	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Hexadecane, 5-butyl-	129495	006912-07-8	90.00
3	Eicosane, 3-methyl-	141428	006418-46-8	87.00
4	Eicosane, 7-hexyl-	194499	055333-99-8	87.00
5	Heneicosane, 11-decyl-	223853	055320-06-4	87.00

SCA



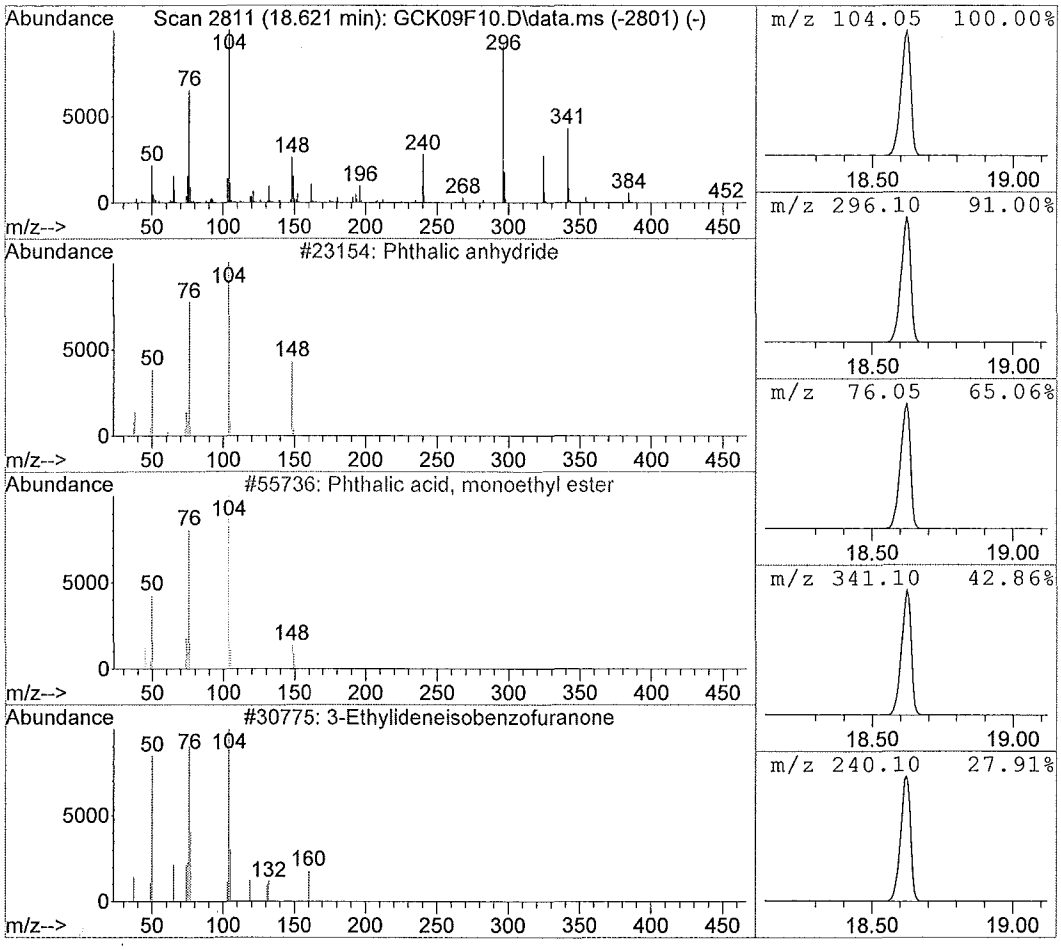
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	42.69 ug/ml	5548370	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
3	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
4	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
5	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	14.00



Library Search Compound Report

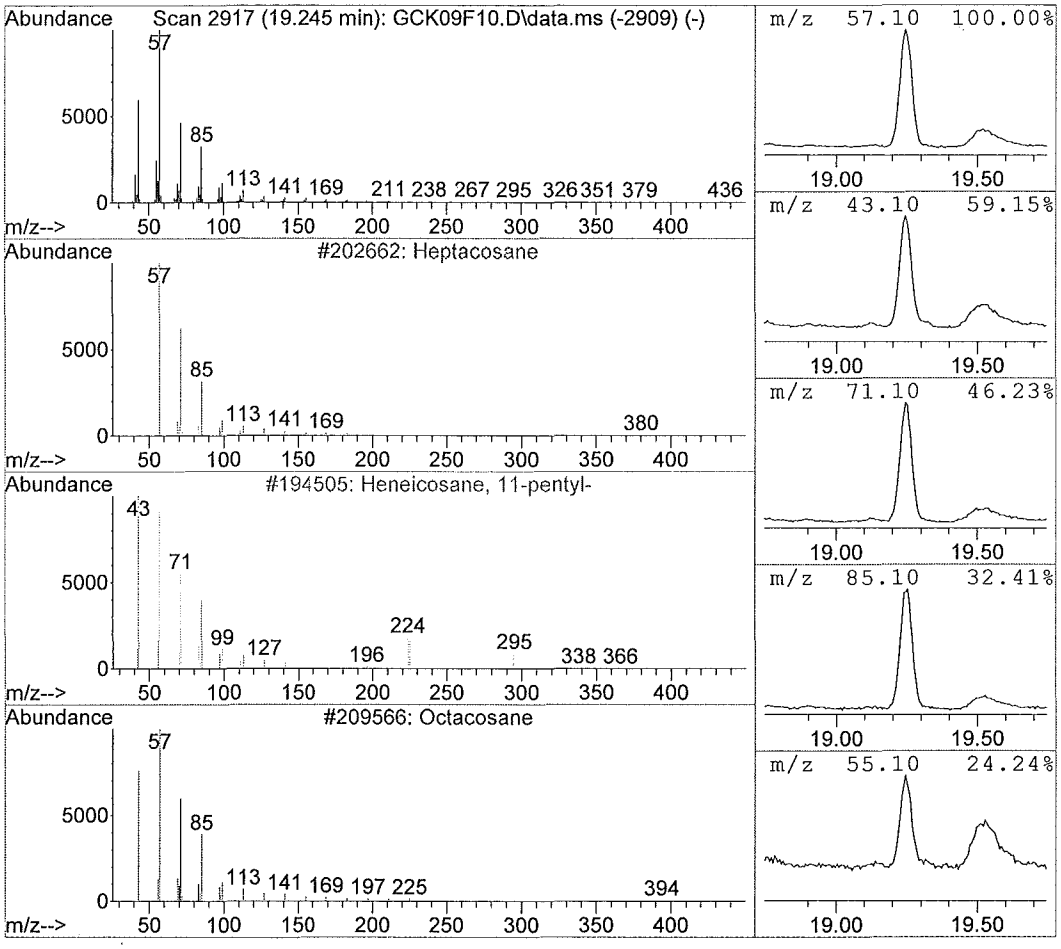
Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	17.11 ug/ml	2223513	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	94.00
2	Heneicosane, 11-pentyl-	194505	014739-72-1	91.00
3	Octacosane	209566	000630-02-4	91.00
4	Tetratetracontane	241528	007098-22-8	87.00
5	Hentriacontane	223852	000630-04-6	87.00

SCA



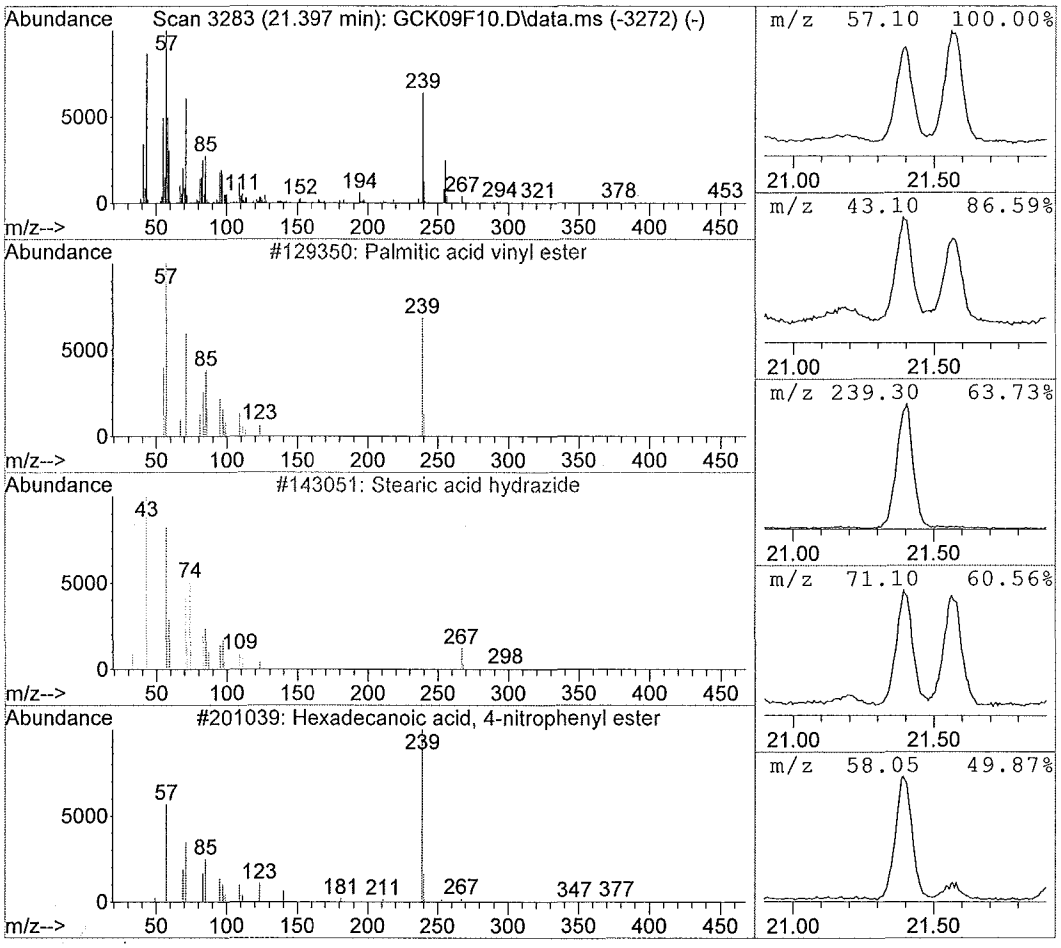
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.40	16.27 ug/ml	2115155	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Palmitic acid vinyl ester	129350	000693-38-9	45.00
2	Stearic acid hydrazide	143051	004130-54-5	38.00
3	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	30.00
4	Tetradecane, 4-methyl-	71399	025117-24-2	15.00
5	Phthalic acid, 4-methoxyphenyl 2-me	191934	1000315-59-5	14.00



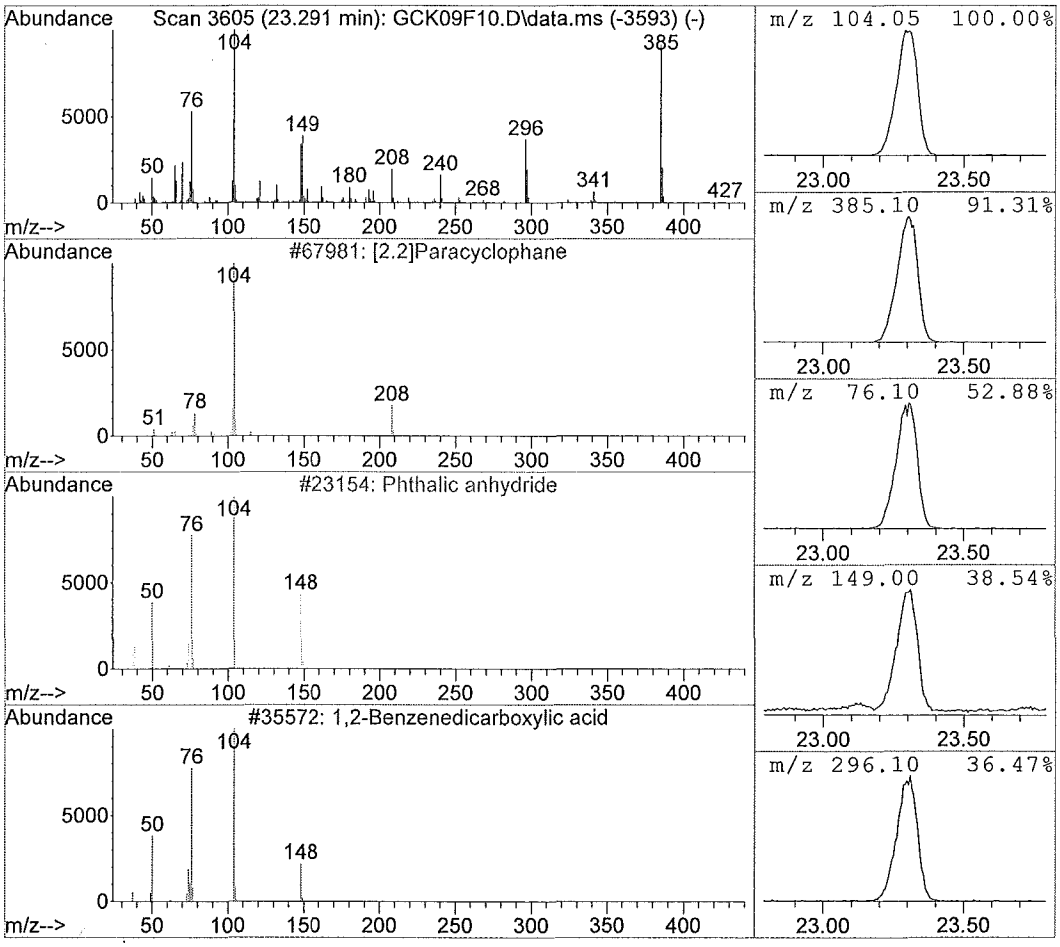
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.29	13.61 ug/ml	1769562	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	67981	001633-22-3	18.00
2	Phthalic anhydride	23154	000085-44-9	16.00
3	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00
4	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	15.00
5	Indane-1,3(2H)-dione, 2-(2-methyl-3	175770	1000263-60-8	12.00



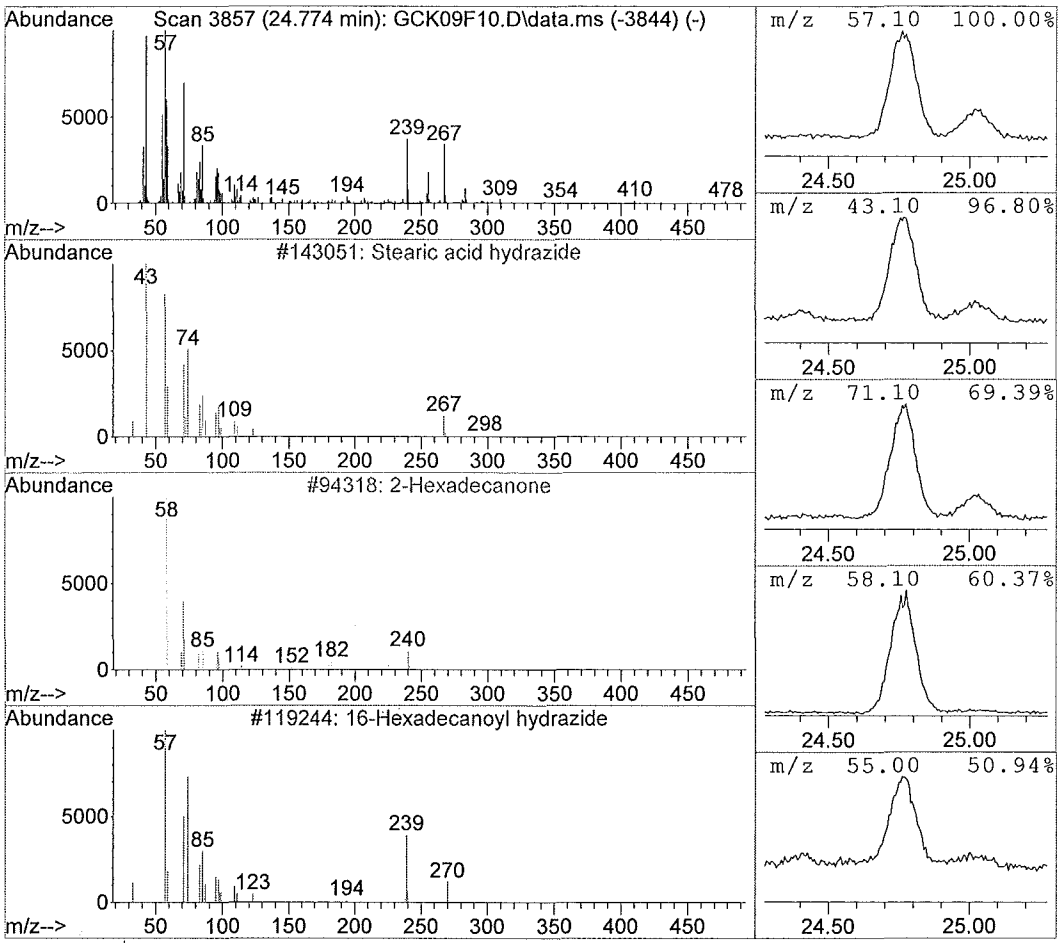
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK09F10.D Vial: 9
Acq On : 07/02/2015 15:15 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.77	17.56 ug/ml	2282019	Perylene-d12	2599548

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stearic acid hydrazide	143051	004130-54-5	43.00
2	2-Hexadecanone	94318	018787-63-8	38.00
3	16-Hexadecanoyl hydrazide	119244	002619-88-7	38.00
4	Palmitic acid vinyl ester	129350	000693-38-9	27.00
5	Sulfurous acid, 2-ethylhexyl isohex	125661	1000309-19-0	22.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK10F11

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK10F11

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCK10F11

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/02/2015

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	814-78-8	3-Buten-2-one, 3-methyl-	2.20	190	JN
02		Unknown 2-Propanone, 1-chloro-	2.28	170	JB
03		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.33	1500	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	5600	J
05		Unknown Ethanone, 1-oxiranyl-	5.10	160	J
06		Unknown Silane, tetraethyl-	5.38	200	J
07		Unknown Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-	11.72	170	J
08	112-39-0	Hexadecanoic acid, methyl ester	12.40	260	JN
09	57-10-3	n-Hexadecanoic acid	12.67	670	JN
10		Unknown Dodecanamide	12.77	120	J
11	1000336-44-2	Methyl 10-trans,12-cis-octadecadienoate	13.64	150	JN
12	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.68	160	JN
13	4764-72-1	15-Octadecenoic acid, methyl ester	13.72	150	JN
14		Unknown Phytol	13.81	180	J
15	506-17-2	cis-Vaccenic acid	13.90	140	JN
16		Unknown Bromoacetic acid, 4-methylpentyl ester	13.93	140	J
17	1120-16-7	Dodecanamide	14.16	390	JN
18	301-02-0	9-Octadecenamide, (Z)-	15.08	2800	JN
19	90949-53-4	7-Nonenamide	15.86	180	JN
20		Unknown 2,2,5,5,8-Pentamethyl-3,6-dioxa-8-nonen-	16.20	270	J
21		Unknown 9-Octadecenamide, (Z)-	16.98	630	J
22	111-02-4	Squalene	17.15	250	JN
23	557-61-9	Octacosanol	17.80	240	JN
24		Unknown 3-[4-Methoxyphenyl]quinolin-4-ol	18.40	440	J
25		Unknown Thioindigo	18.61	270	J
26		Unknown Glutaric acid, ethyl 1-phenylpropyl este	19.32	320	J
27	56221-91-1	13-Tetradecen-1-ol acetate	19.49	890	JN
28	83-48-7	Stigmasterol	21.45	520	JN
29	1000351-75-1	Tricosyl trifluoroacetate	21.94	2500	JN
30	58-22-0	Testosterone	24.20	810	JN
	E966796[2]	Total Alkanes	N/A	4600	J

[2] EPA-designated Registry Number.

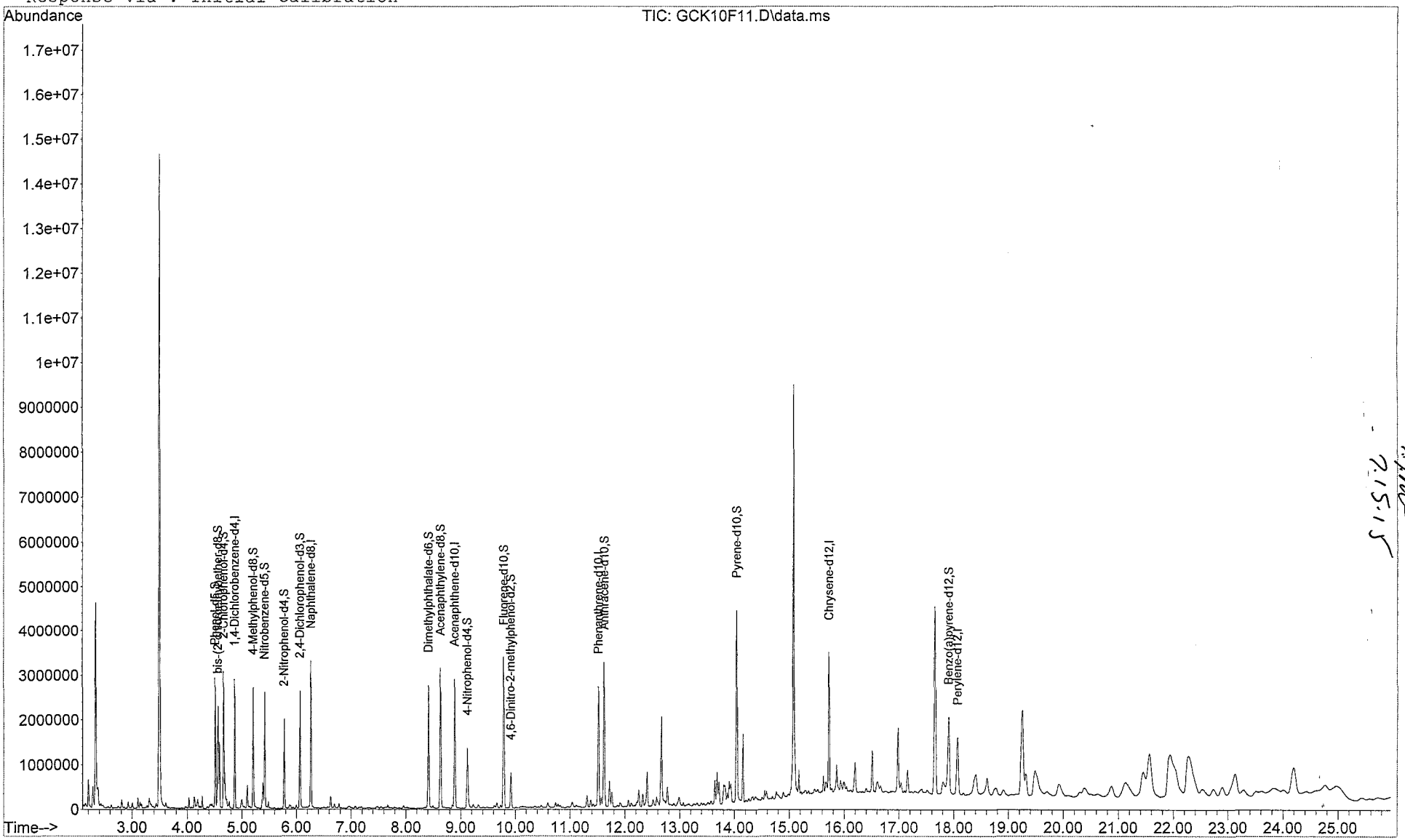
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D
Acq On : 07/02/2015 15:47
Sample : 1513978011 F9L28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 10
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 15:04:28 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:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 15:04:28 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	407976	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1559117	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	882267	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1455147	20.00 ug/ml
73) Chrysene-d12	15.72	240	1328977	20.00 ug/ml
81) Perylene-d12	18.07	264	976186	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	853880	24.051ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	543353	19.639ug/mL
7) 2-Chlorophenol-d4	4.66	132	694252	23.160ug/ml
13) 4-Methylphenol-d8	5.20	113	524194	22.075ug/mL
17) Nitrobenzene-d5	5.42	128	298782	21.814ug/ml
21) 2-Nitrophenol-d4	5.77	143	325263	22.467ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	556771	24.699ug/mL
28) 4-Chloroaniline-d4	6.35	131	8621	0.350ug/mL
42) Dimethylphthalate-d6	8.42	166	1485572	26.852ug/mL
45) Acenaphthylene-d8	8.63	160	1886968	25.098ug/mL
50) 4-Nitrophenol-d4	9.12	143	286160	25.355ug/mL
57) Fluorene-d10	9.79	176	1259013	26.648ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	135350	13.105ug/mL
69) Anthracene-d10	11.62	188	1970853	25.540ug/mL
75) Pyrene-d10	14.04	212	1809969	27.291ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1208817	25.842ug/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:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 15:04:28 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	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

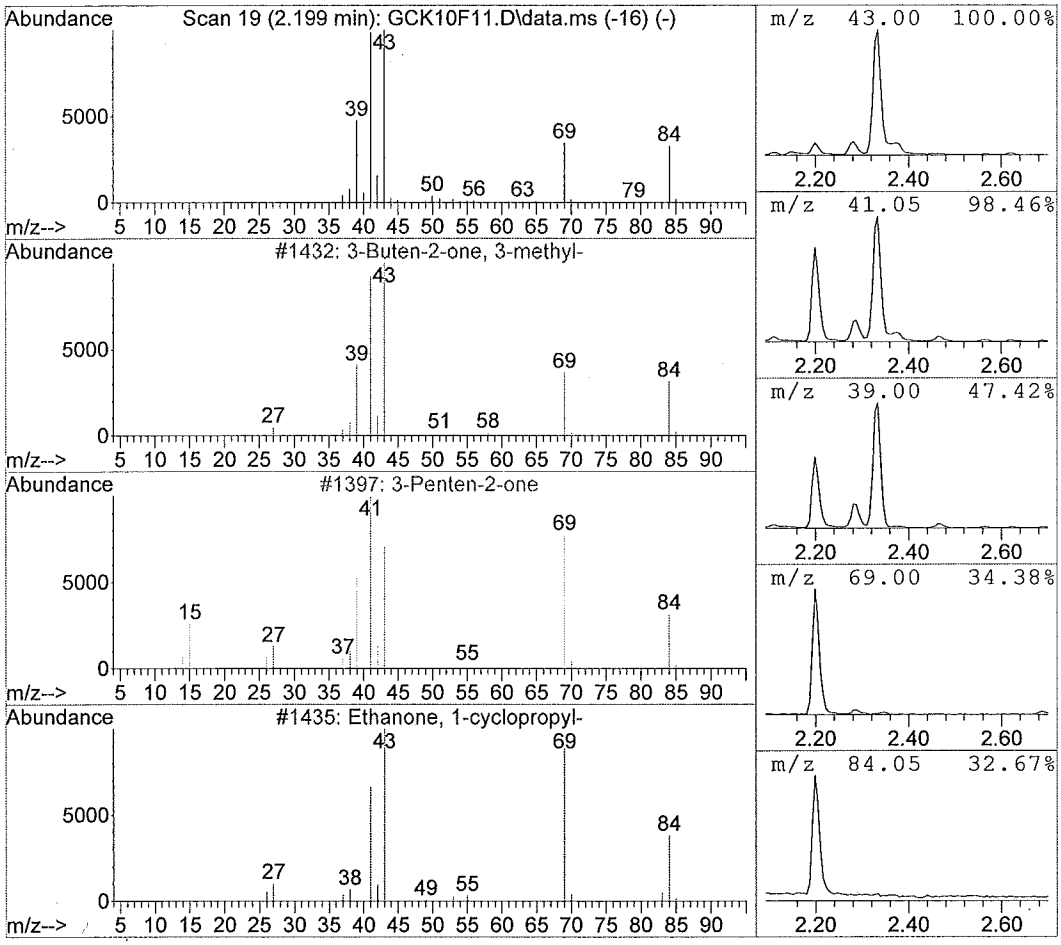
Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D
Acq On : 07/02/2015 15:47
Sample : 1513978011 F9L28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 10
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\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	4.76 ug/ml	696331	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	3-Penten-2-one	1397	000625-33-2	45.00
3	Ethanone, 1-cyclopropyl-	1435	000765-43-5	43.00
4	Propane, 1-nitro-	2167	000108-03-2	42.00
5	Dicyclopropyl carbinol	6505	014300-33-5	33.00



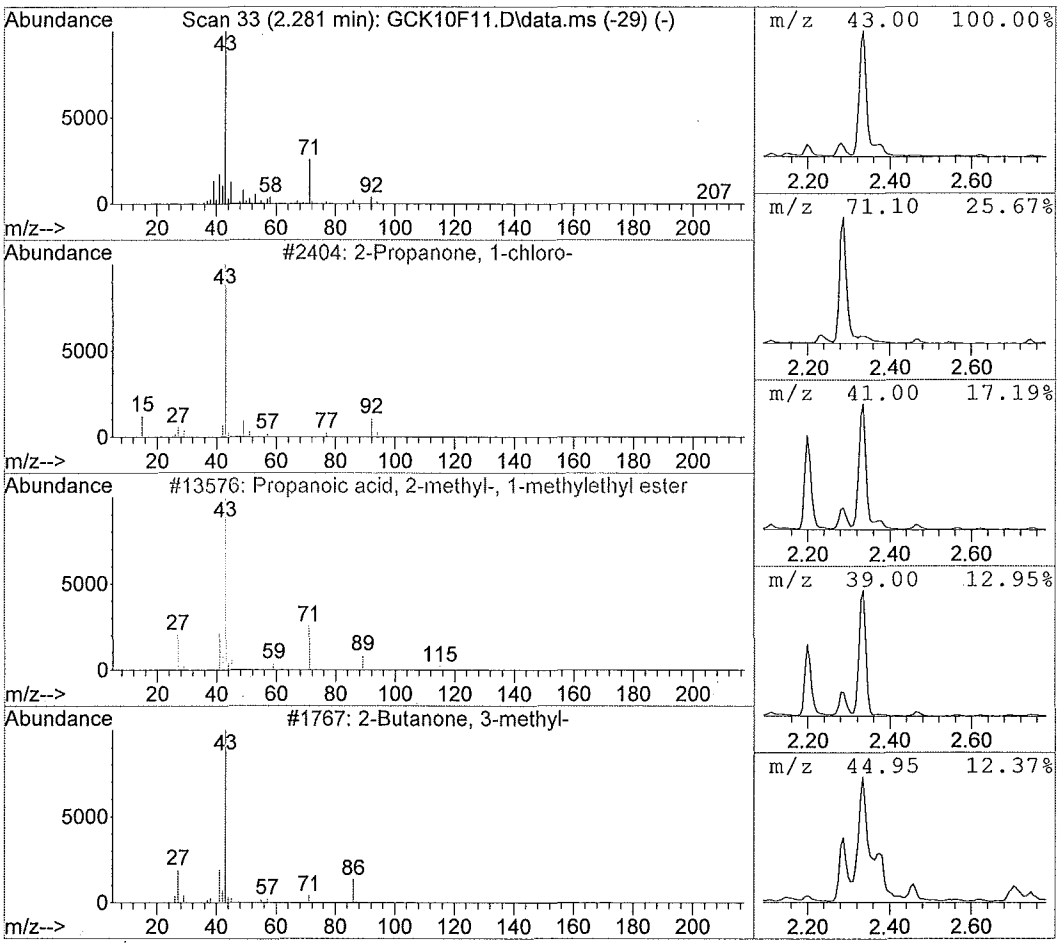
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.28	4.15 ug/ml	606990	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2404	000078-95-5	38.00
2	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	36.00
3	2-Butanone, 3-methyl-	1767	000563-80-4	17.00
4	2-Oxo-n-valeric acid	8027	001821-02-9	12.00
5	Butanal, 2,2-dimethyl-	3861	002094-75-9	10.00



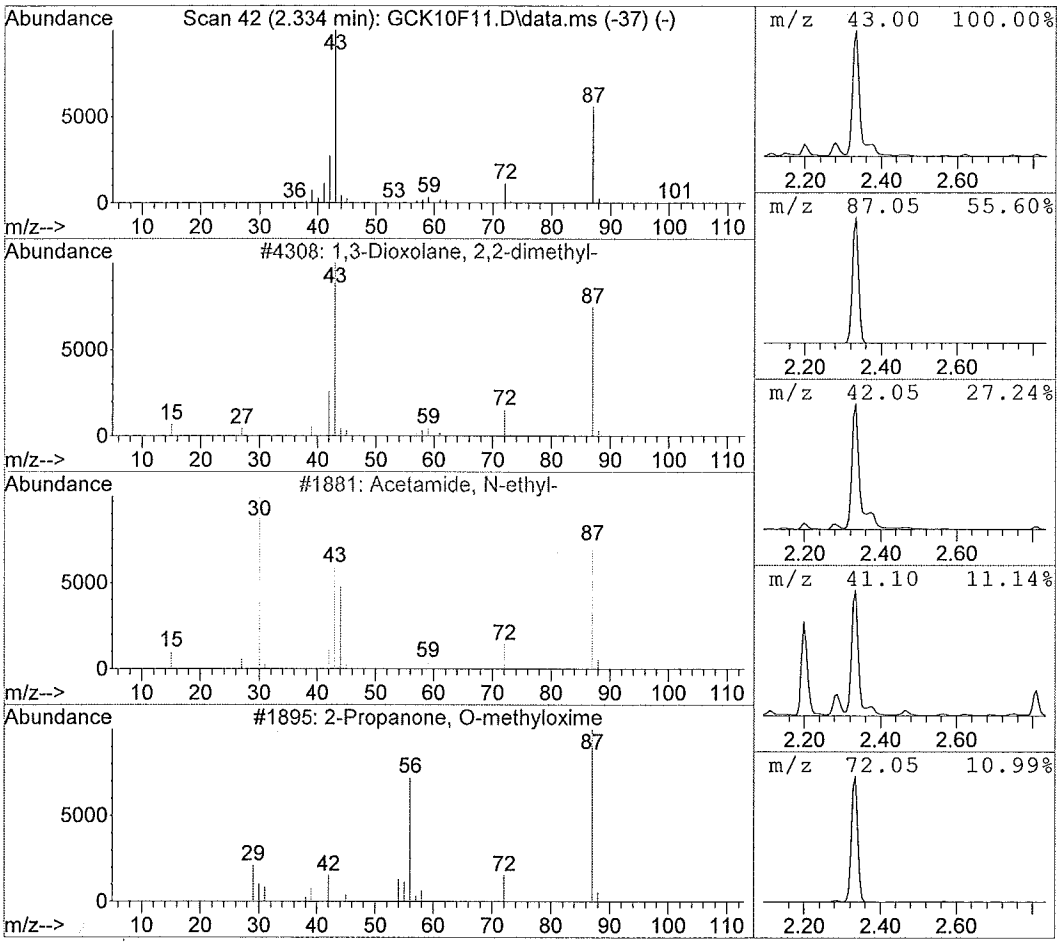
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.33	36.96 ug/ml	5403819	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	64.00
2	Acetamide, N-ethyl-	1881	000625-50-3	47.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	23.00
4	N,N-Dimethylacetamide	1886	000127-19-5	9.00
5	Oxazolidin-2-one	1845	000497-25-6	9.00



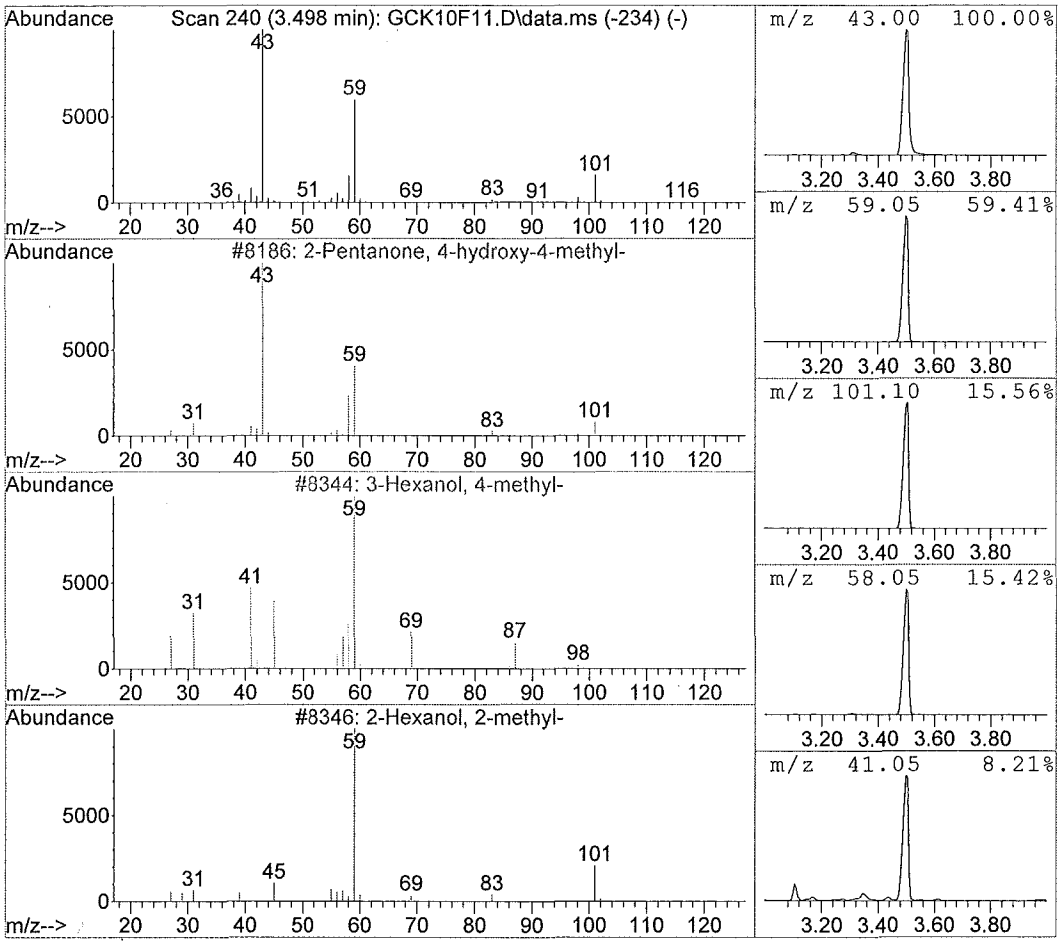
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	137.17 ug/ml	20058191	1,4-Dichlorobenzene-d4	2924481

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	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



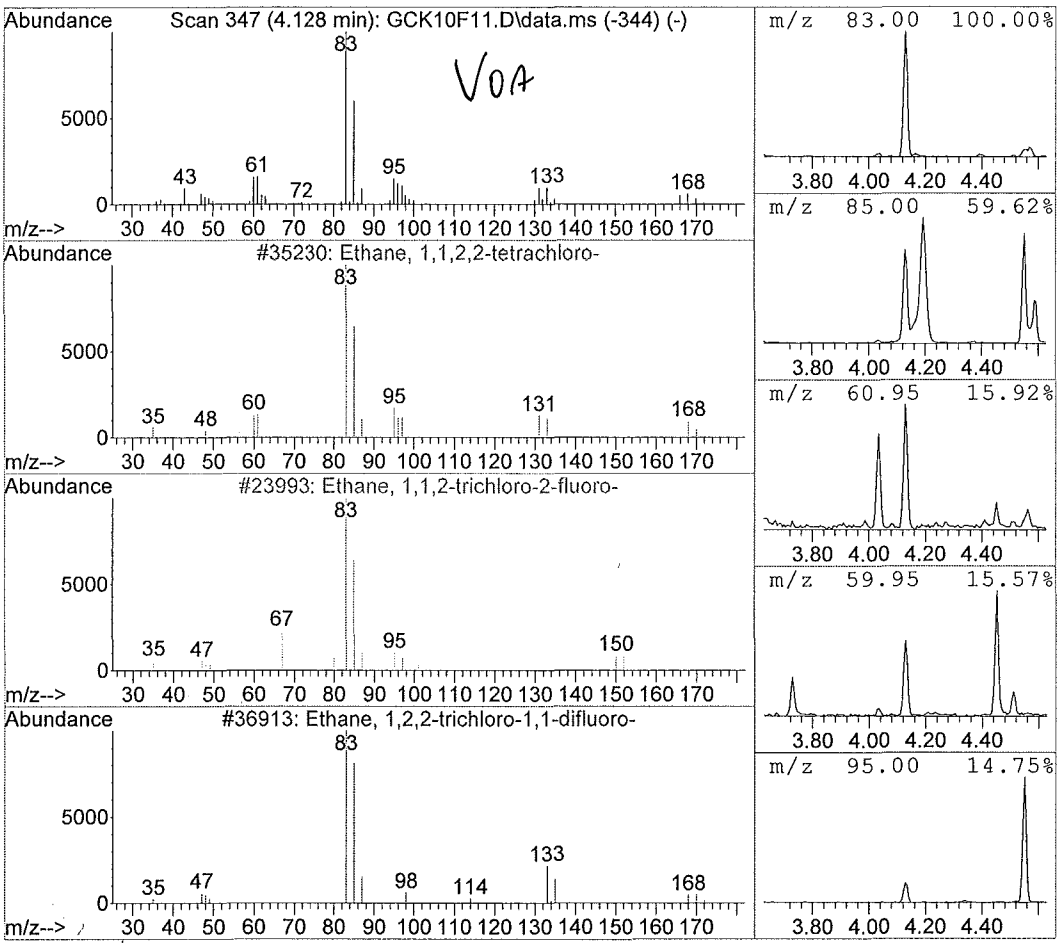
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	2.32 ug/ml	338698	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	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	52.00
4	Methane, oxybis[dichloro-	47352	020524-86-1	50.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00



Library Search Compound Report

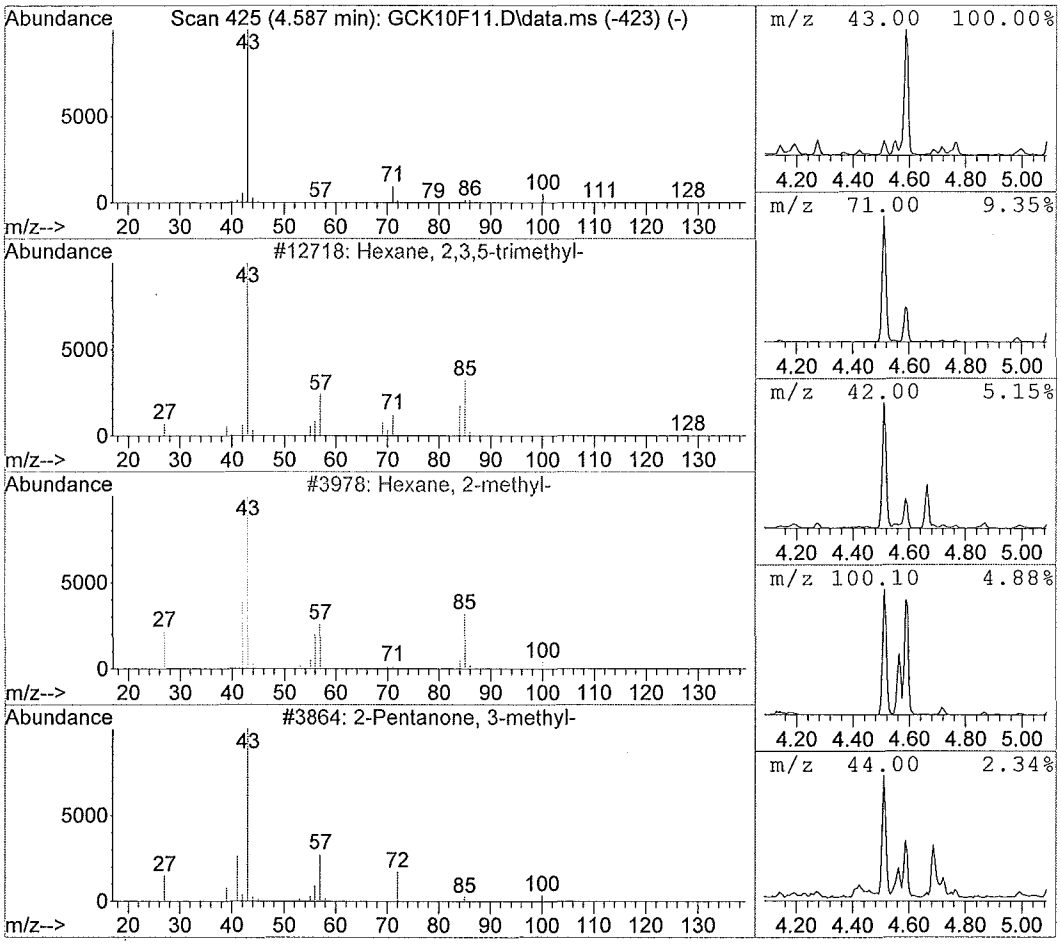
Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	9.01 ug/ml	1318173	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Hexane, 2-methyl-	3978	000591-76-4	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	3-Hexanone	3776	000589-38-8	5.00
5	Heptane	3970	000142-82-5	5.00

BA



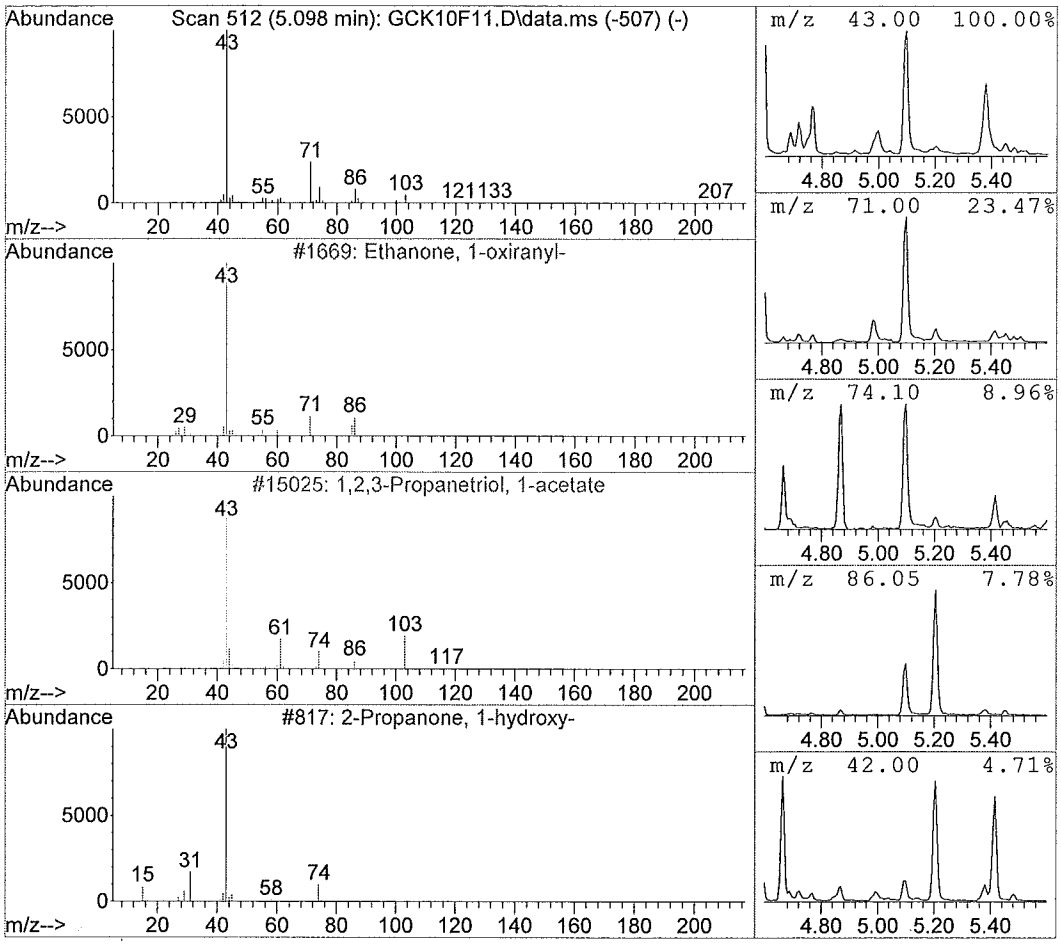
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.86 ug/ml	564159	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	35.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
3	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
4	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	9.00
5	Pentanal, 2-methyl-	3836	000123-15-9	9.00



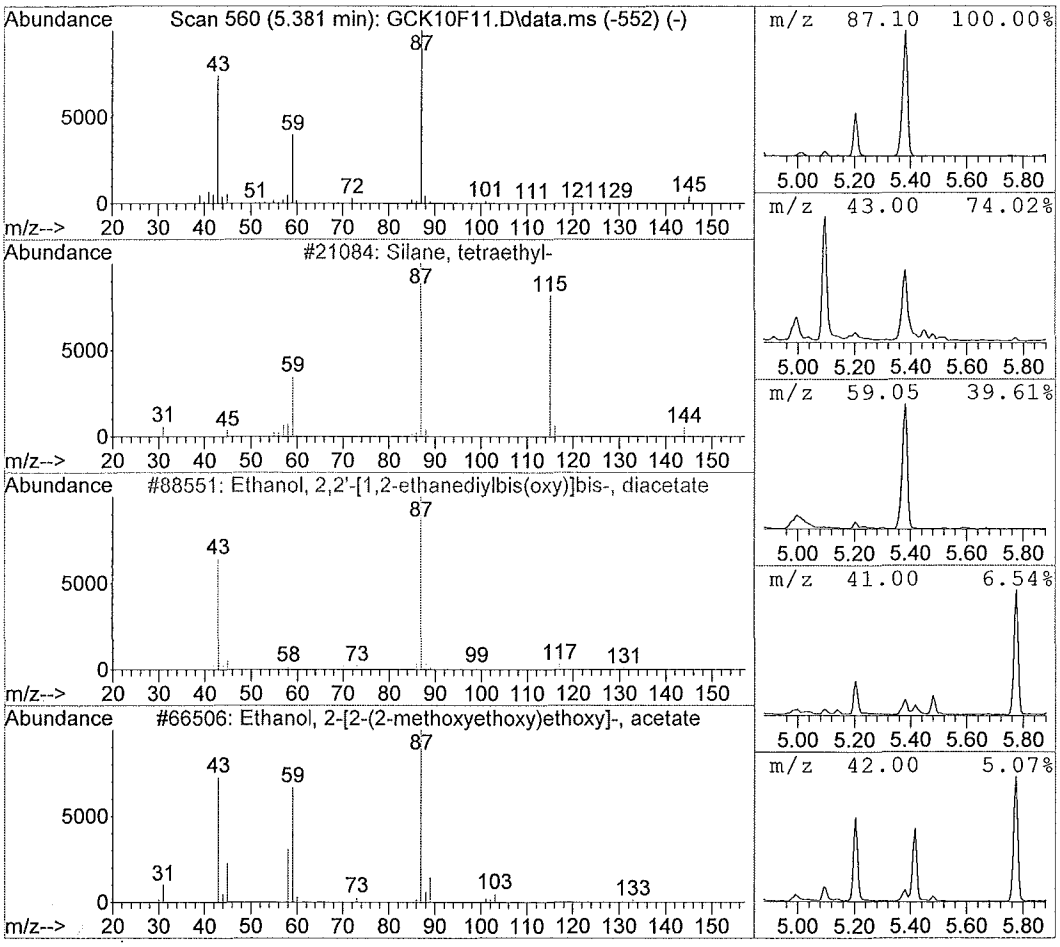
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.38	4.95 ug/ml	723365	1,4-Dichlorobenzene-d4	2924481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, tetraethyl-	21084	000631-36-7	45.00
2	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	40.00
3	Ethanol, 2-[2-(2-methoxyethoxy)etho	66506	003610-27-3	40.00
4	Hydrazine, 1,1-diethyl-2-(1-methylp	21077	067398-40-7	39.00
5	1,3-Dioxolane, 2-butyl-4-methyl-	20938	074094-60-3	39.00



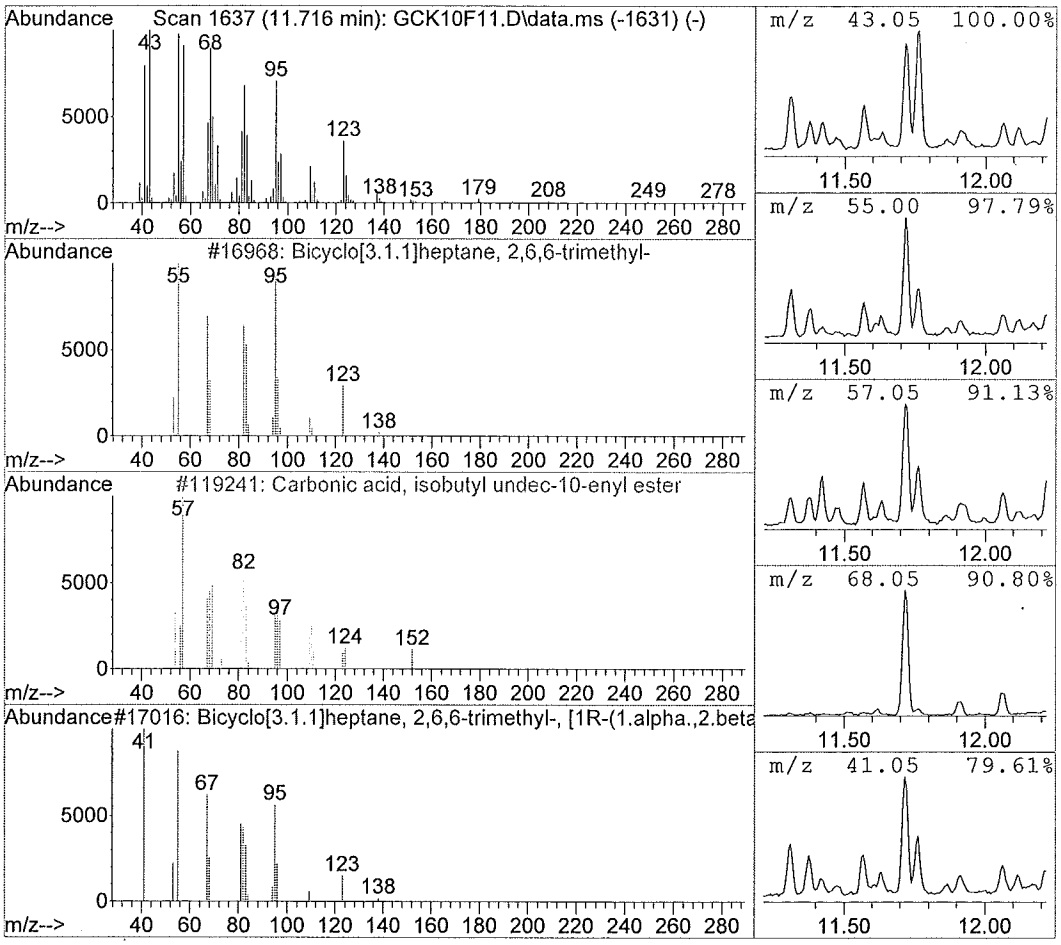
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.72	4.27 ug/ml	834481	Phenanthrene-d10	3908099

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16968	000473-55-2	60.00
2	Carbonic acid, isobutyl undec-10-en	119241	1000314-60-8	53.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	53.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	49.00
5	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17019	004863-59-6	49.00



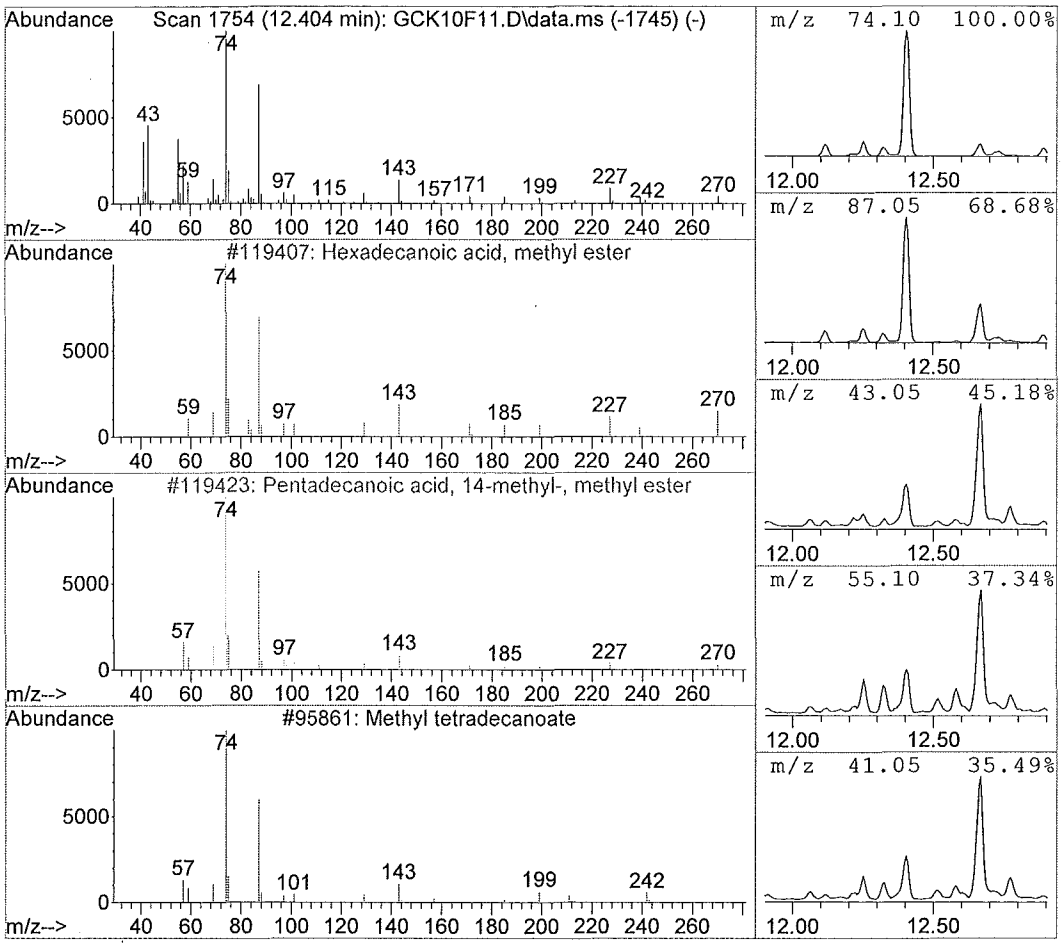
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.42 ug/ml	1254746	Phenanthrene-d10	3908099

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	98.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Methyl tetradecanoate	95861	000124-10-7	87.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	87.00
5	Dodecanoic acid, methyl ester	72681	000111-82-0	86.00



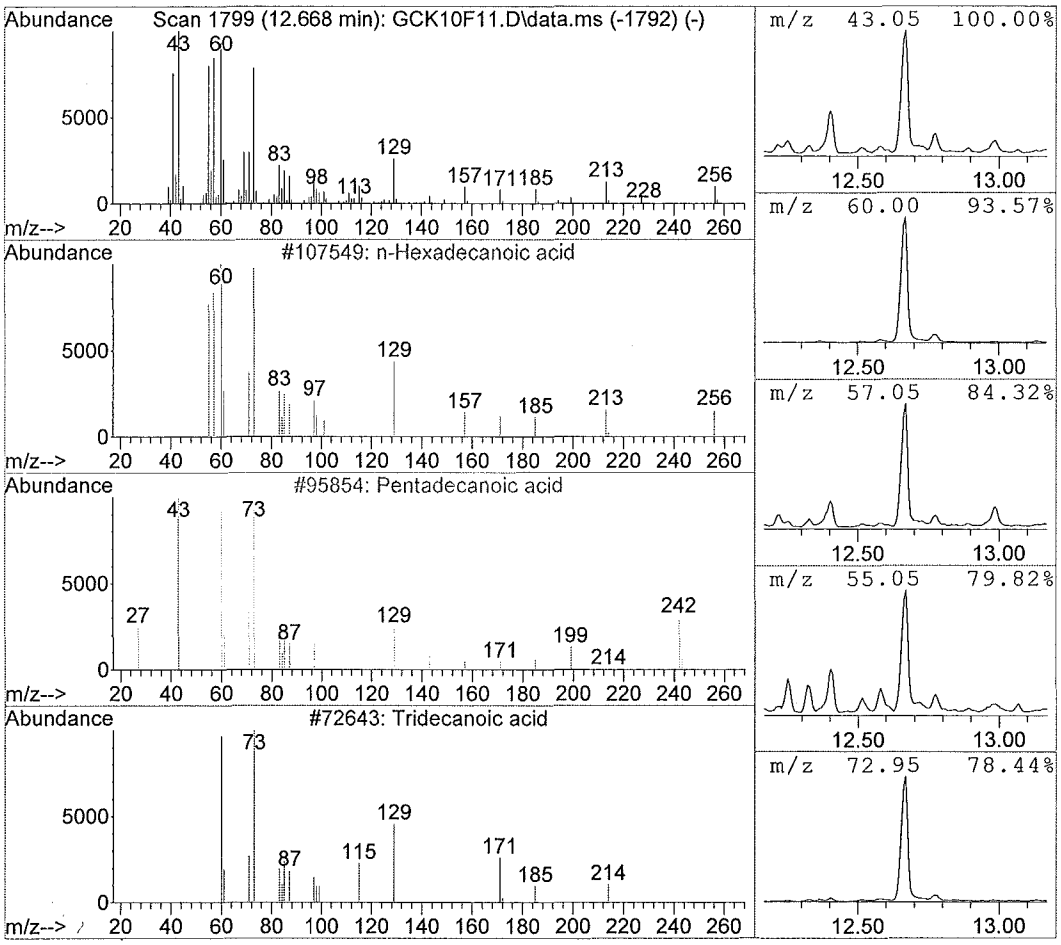
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	16.50 ug/ml	3223963	Phenanthrene-d10	3908099

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	83.00
3	Tridecanoic acid	72643	000638-53-9	81.00
4	Undecanoic acid	50051	000112-37-8	64.00
5	Tetradecanoic acid	84453	000544-63-8	64.00



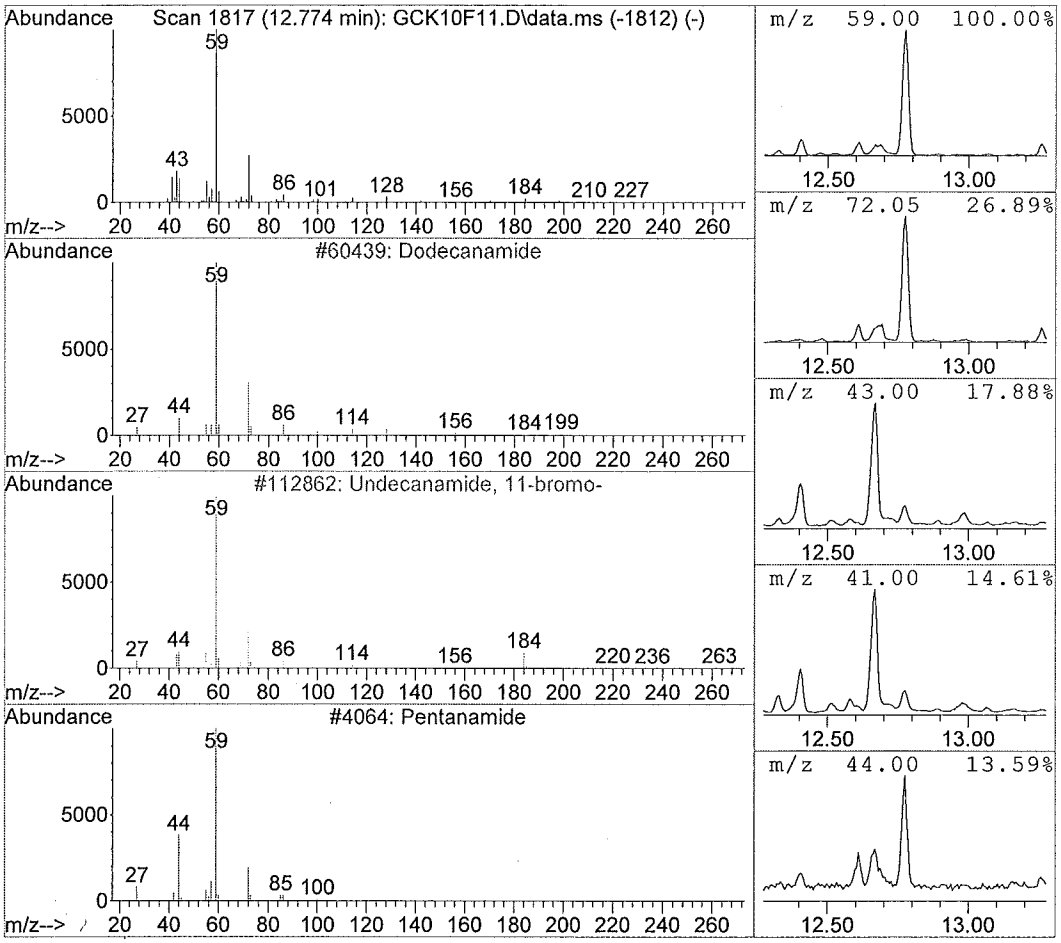
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.06 ug/ml	597563	Phenanthrene-d10	3908099

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Pentanamide	4064	000626-97-1	80.00
4	Hexadecanamide	106565	000629-54-9	80.00
5	Decanamide-	38977	002319-29-1	74.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D
Acq On : 07/02/2015 15:47
Sample : 1513978011 F9L28
Misc : . SOIL SOM
MS Integration Params: rteint.p

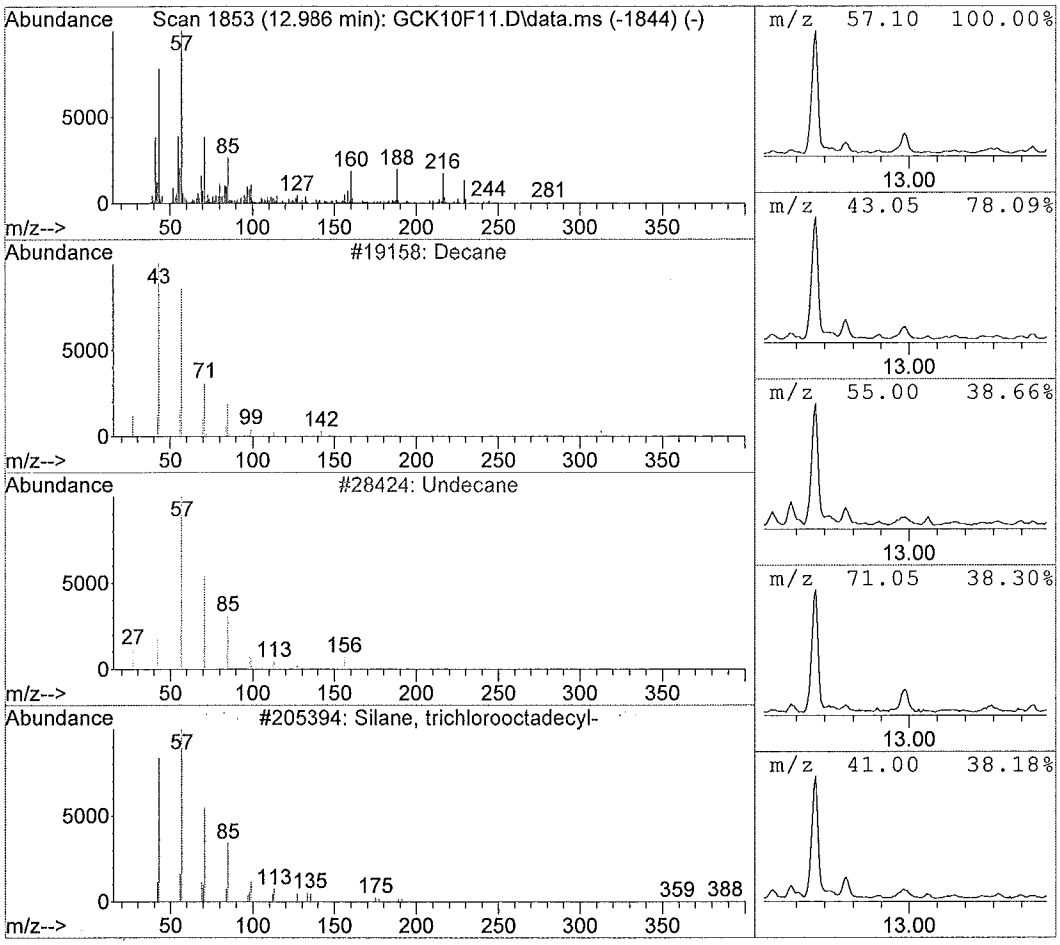
Vial: 10
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.35 ug/ml	458433	Phenanthrene-d10	3908099

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane	19158	000124-18-5	55.00
2	Undecane	28424	001120-21-4	55.00
3	Silane, trichlorooctadecyl-	205394	000112-04-9	46.00
4	Tridecane	48834	000629-50-5	46.00
5	Pentadecane	71396	000629-62-9	43.00

SCA



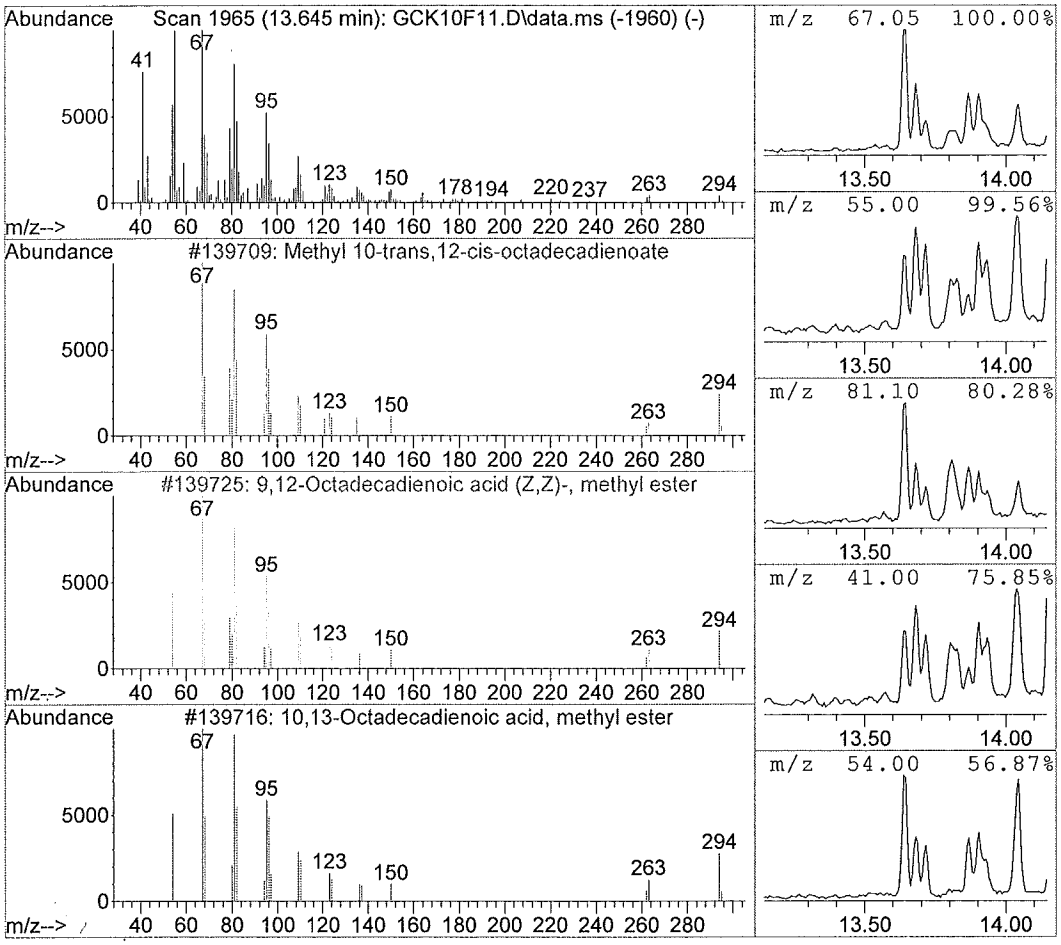
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.65 ug/ml	698199	Chrysene-d12	3828183

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	139725	000112-63-0	99.00
3	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00
4	9,12-Octadecadienoic acid, methyl e	139733	002566-97-4	99.00
5	8,11-Octadecadienoic acid, methyl e	139707	056599-58-7	99.00



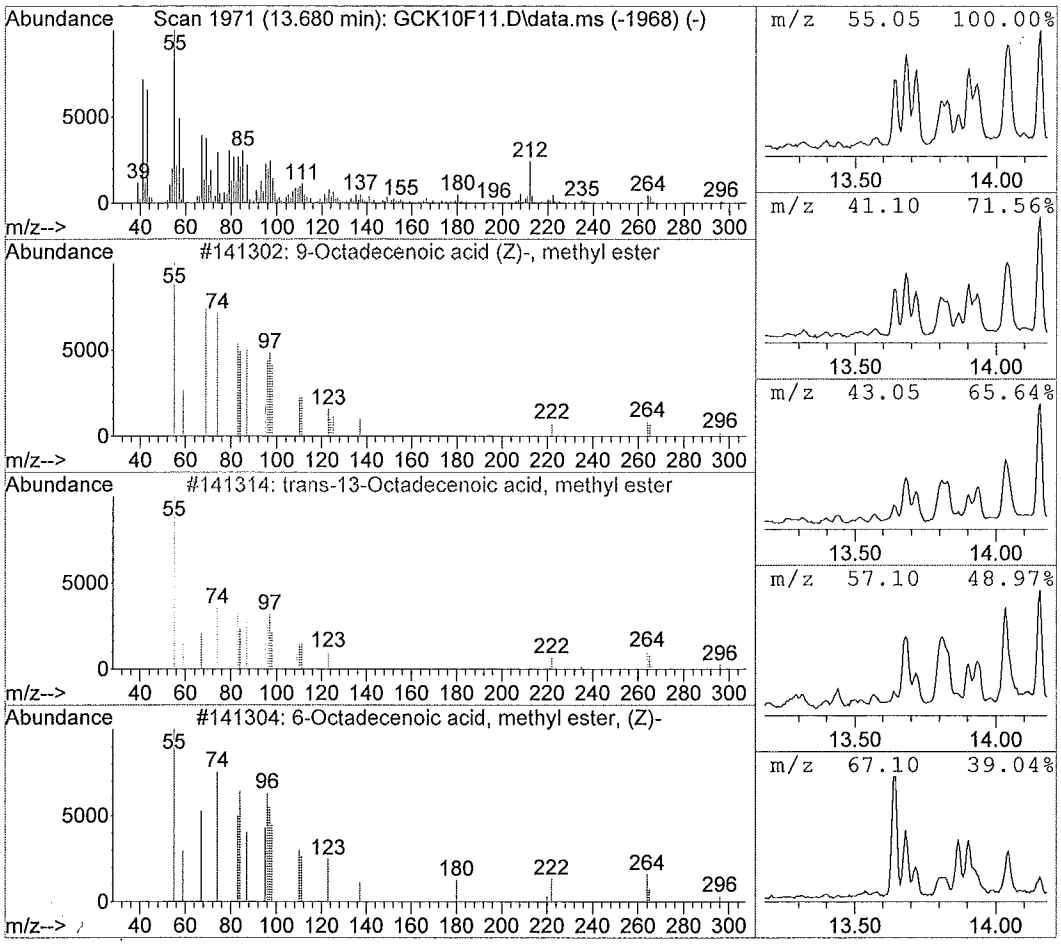
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.97 ug/ml	760429	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	96.00
2	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	95.00
3	6-Octadecenoic acid, methyl ester,	141304	002777-58-4	93.00
4	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	87.00
5	11-Octadecenoic acid, methyl ester	141281	052380-33-3	86.00



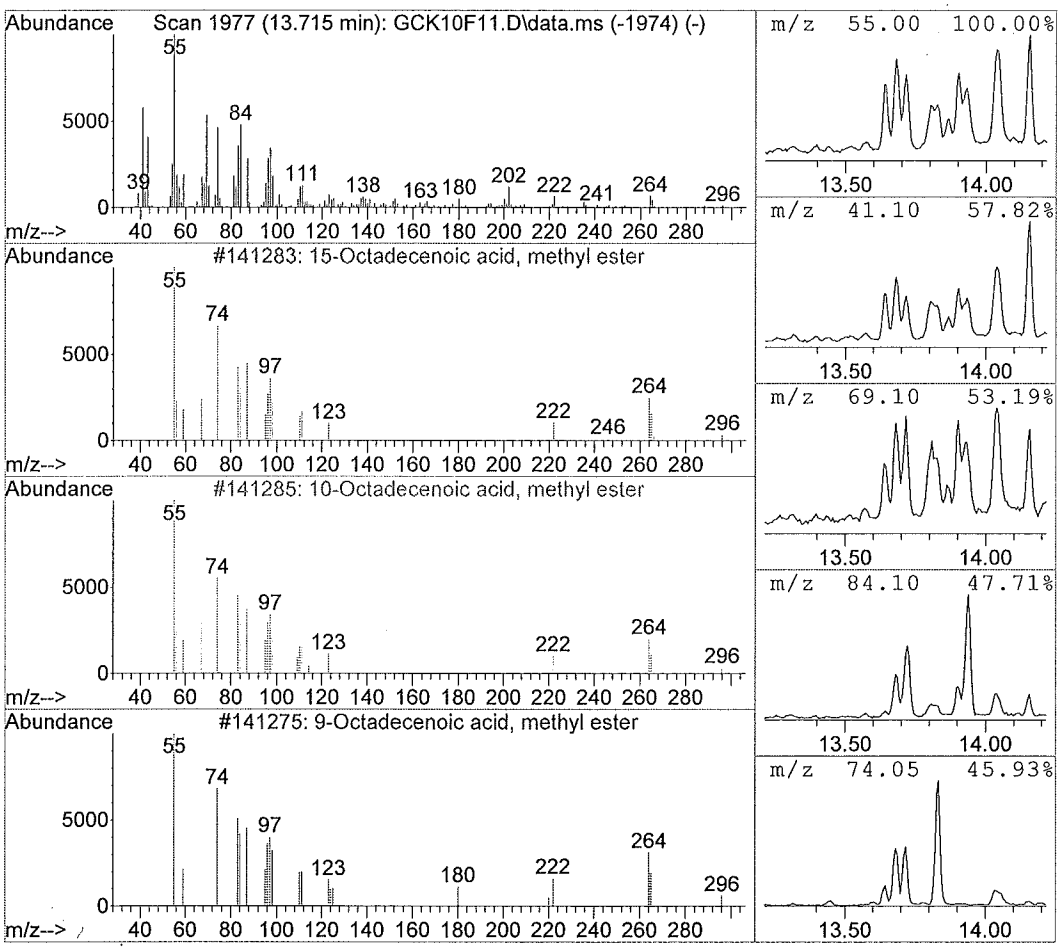
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	3.56 ug/ml	682121	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	15-Octadecenoic acid, methyl ester	141283	004764-72-1	97.00
2	10-Octadecenoic acid, methyl ester	141285	013481-95-3	93.00
3	9-Octadecenoic acid, methyl ester	141275	002462-84-2	93.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	92.00
5	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	91.00



Library Search Compound Report

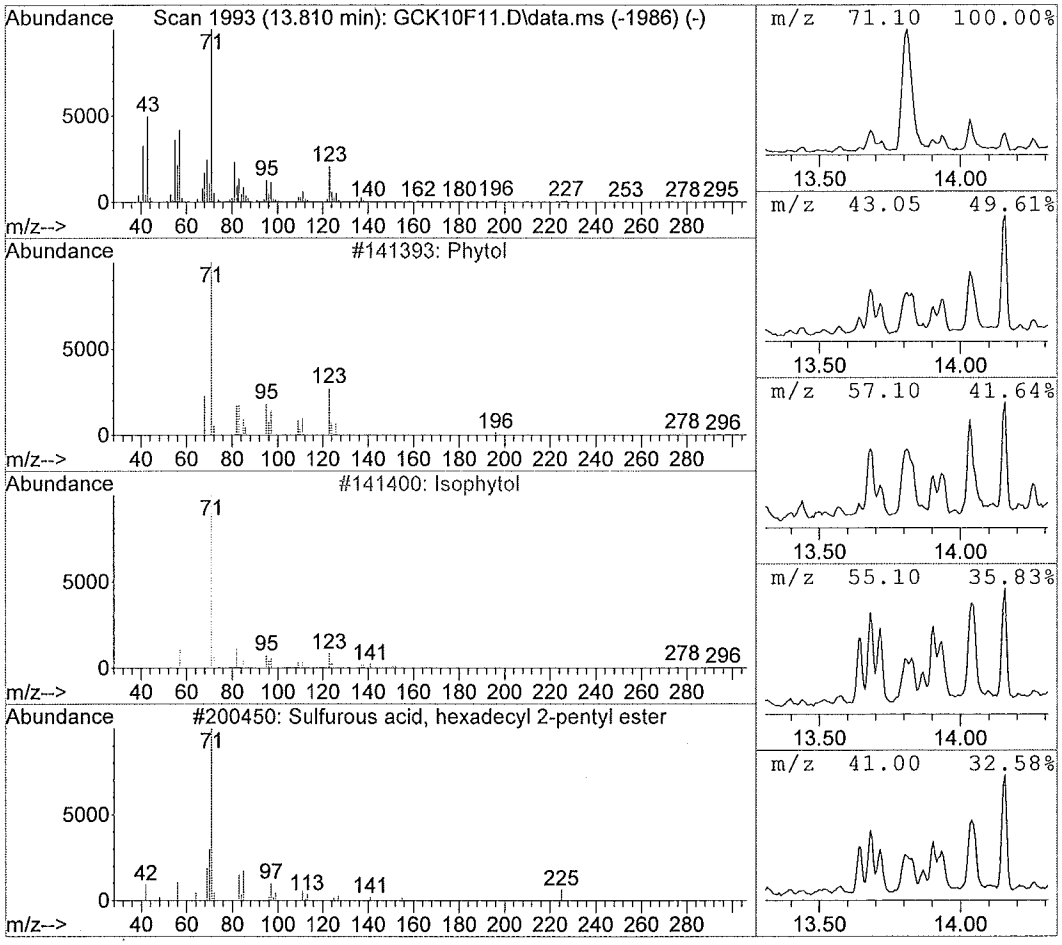
Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D
Acq On : 07/02/2015 15:47
Sample : 1513978011 F9L28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 10
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.81	4.29 ug/ml	821007	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phytol	141393	000150-86-7	60.00
2	Isophytol	141400	000505-32-8	53.00
3	Sulfurous acid, hexadecyl 2-pentyl	200450	1000309-16-5	50.00
4	Butyric acid, 3-tridecyl ester	119394	1000280-56-8	50.00
5	1-Hexadecen-3-ol, 3,5,11,15-tetrame	141407	1000262-55-5	47.00



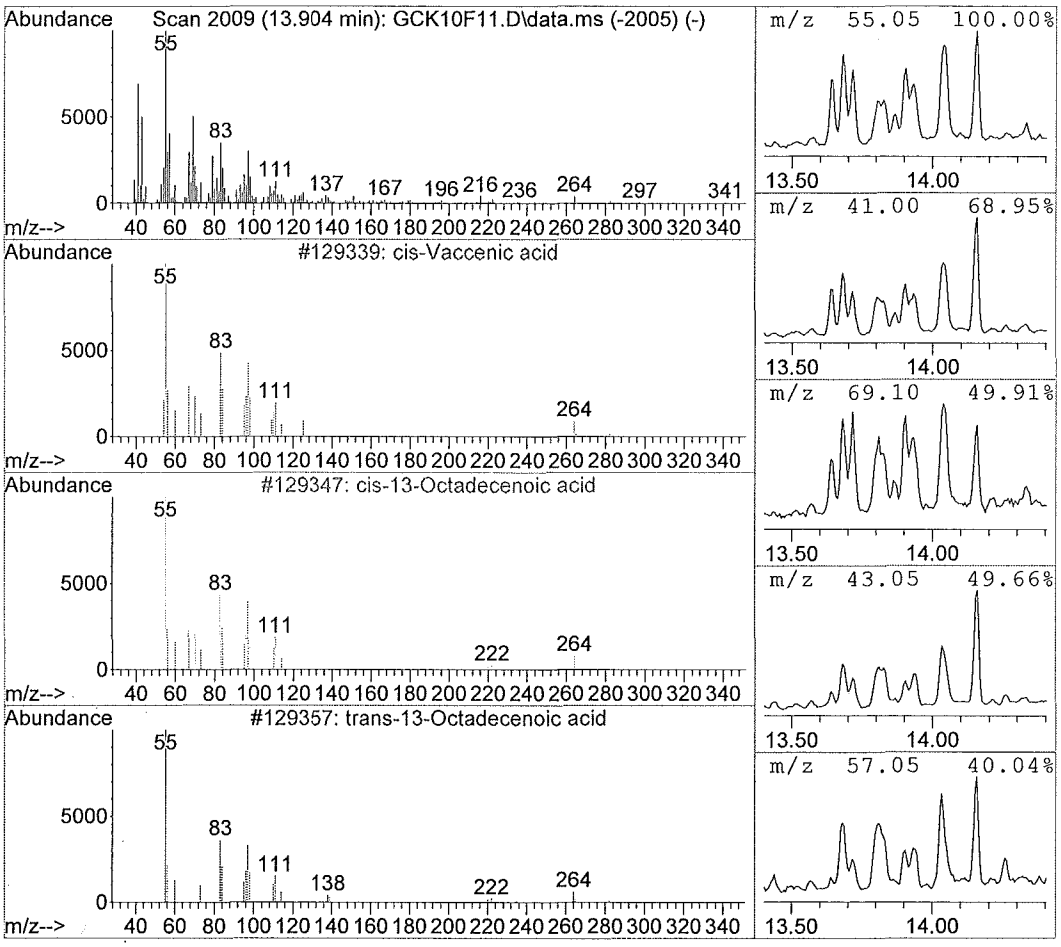
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.90	3.46 ug/ml	662810	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-Vaccenic acid	129339	000506-17-2	93.00
2	cis-13-Octadecenoic acid	129347	013126-39-1	93.00
3	trans-13-Octadecenoic acid	129357	000693-71-0	93.00
4	Oleic Acid	129337	000112-80-1	90.00
5	9-Octadecenoic acid, (E)-	129353	000112-79-8	90.00



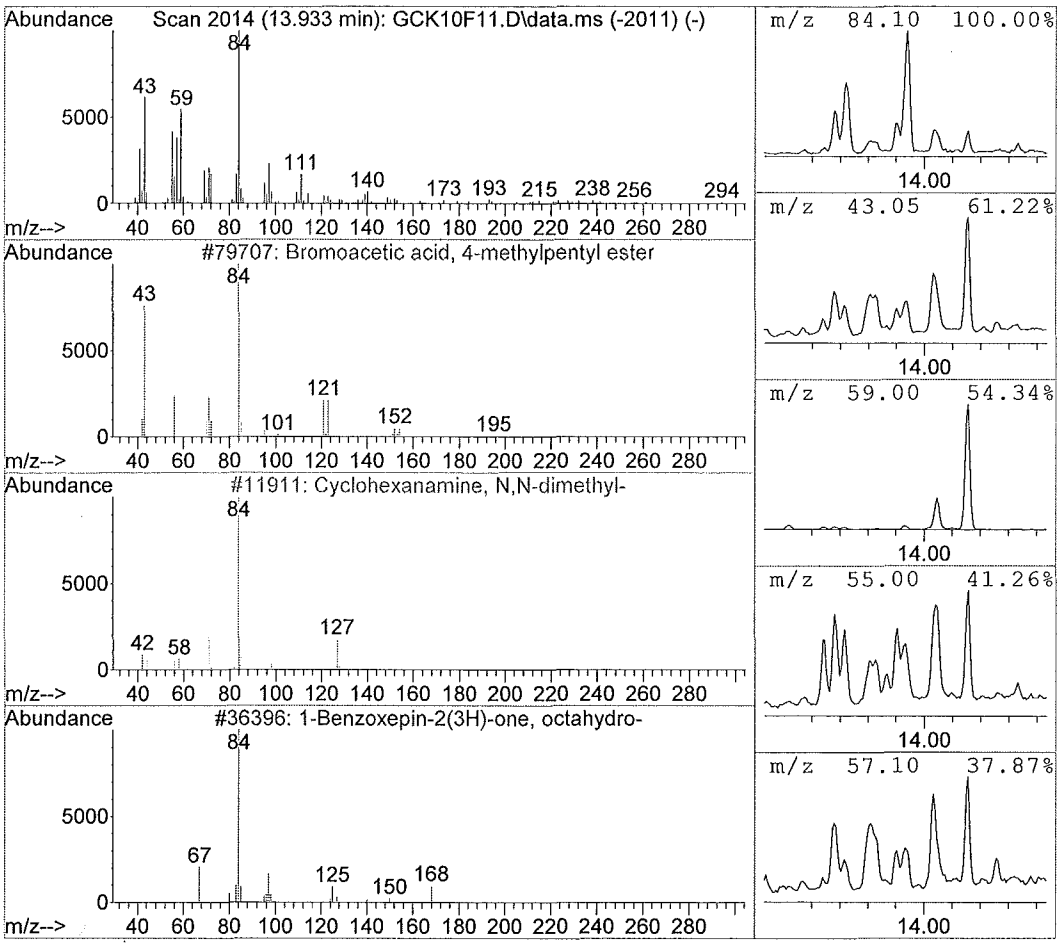
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.93	3.54 ug/ml	676815	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bromoacetic acid, 4-methylpentyl es	79707	1000282-36-4	43.00
2	Cyclohexanamine, N,N-dimethyl-	11911	000098-94-2	38.00
3	1-Benzoxepin-2(3H)-one, octahydro-	36396	004441-65-0	38.00
4	2-Pentylcyclopentanone	26700	1000191-05-3	35.00
5	Pyrrolidine, N-(4-methyl-4-pentenyl	26209	1000161-51-7	35.00



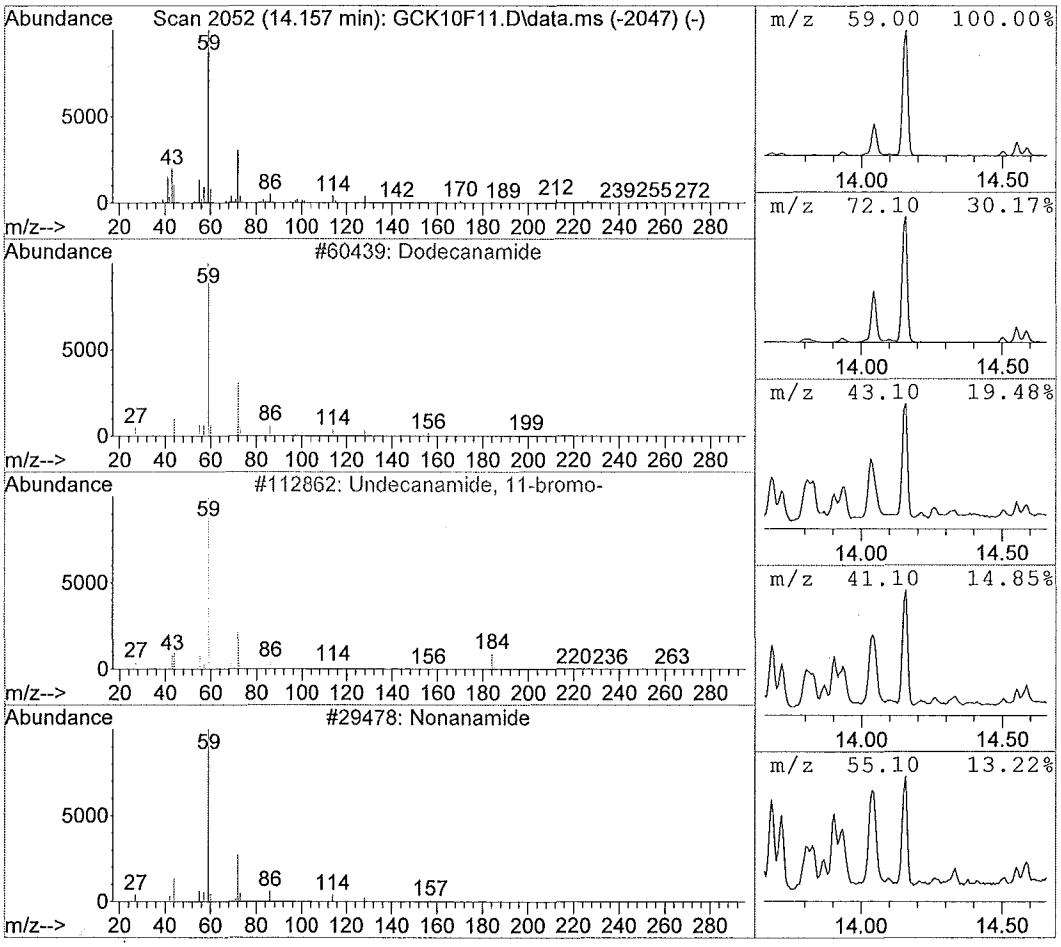
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	9.67 ug/ml	1850151	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
3	Nonanamide	29478	001120-07-6	78.00
4	Decanamide-	38977	002319-29-1	64.00
5	Pentanamide	4062	000626-97-1	59.00



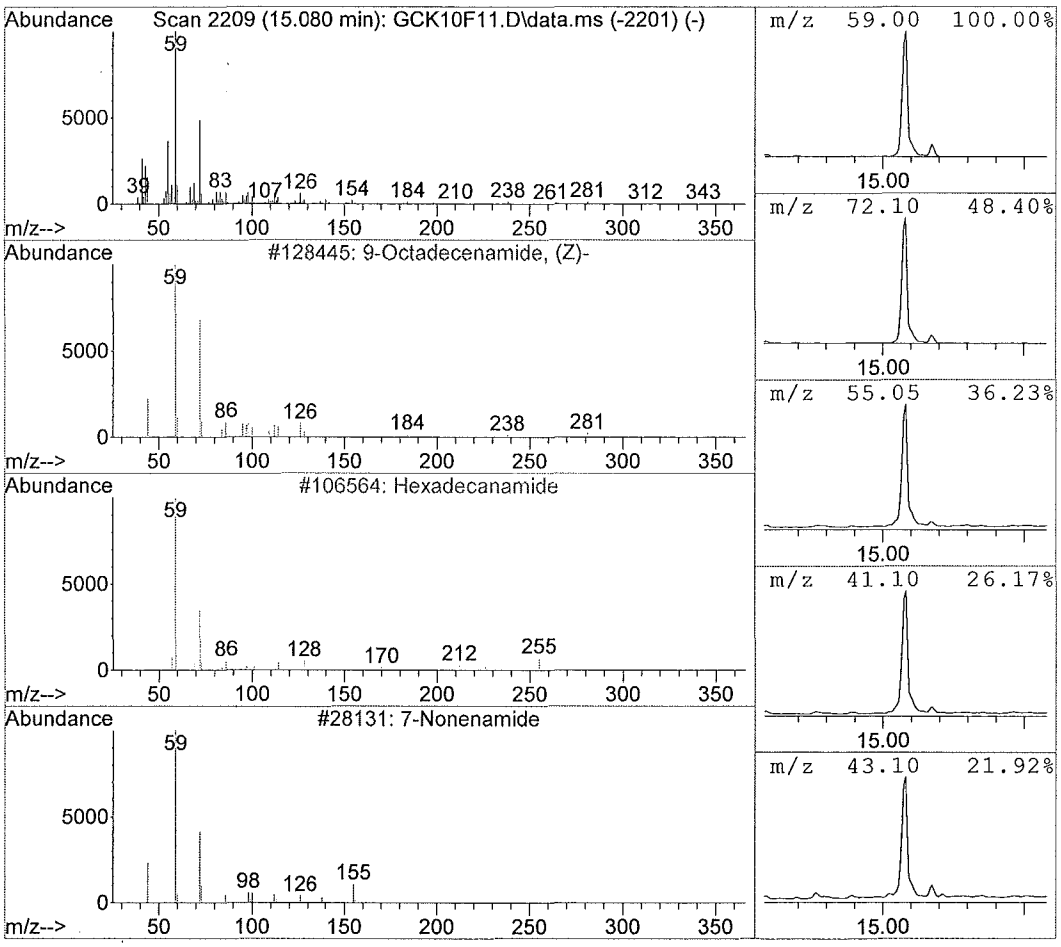
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	67.70 ug/ml	12958495	Chrysene-d12	3828183

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	7-Nonenamide	28131	090949-53-4	72.00
4	Pentanamide	4064	000626-97-1	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00



Library Search Compound Report

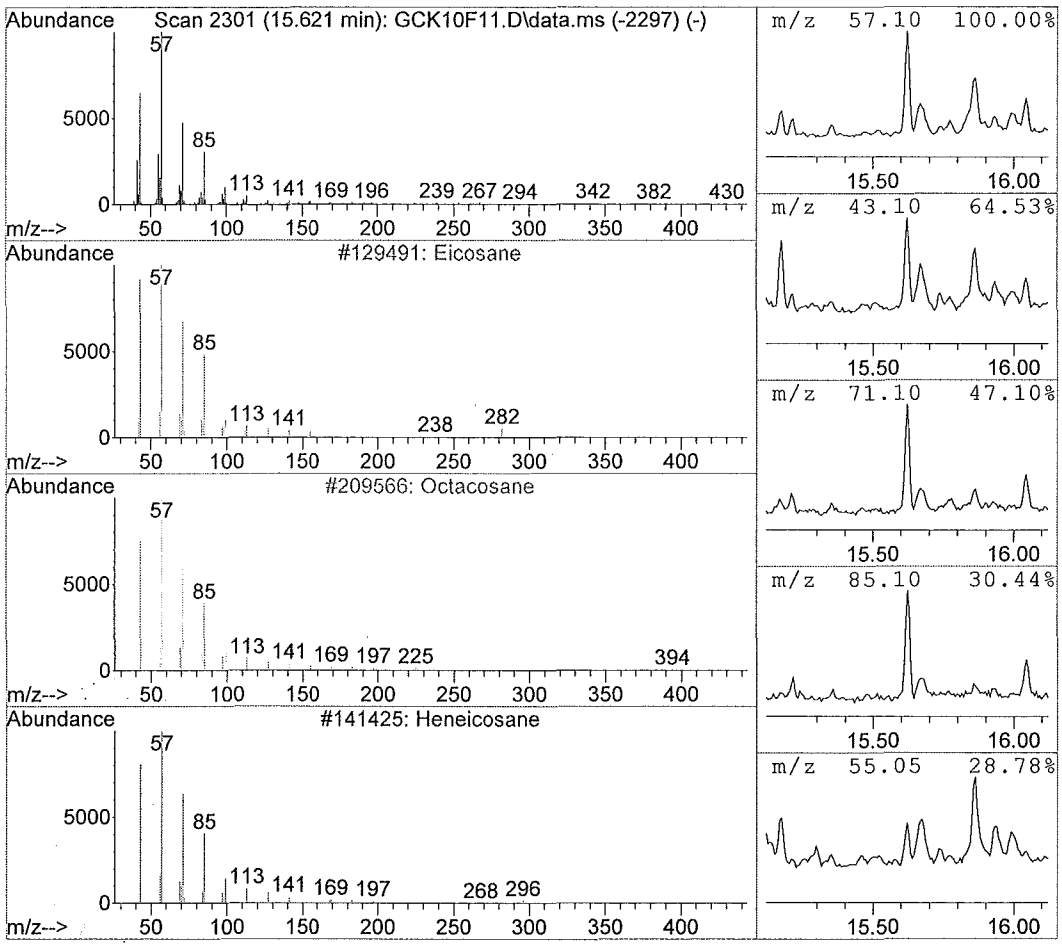
Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.62	2.11 ug/ml	403581	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129491	000112-95-8	96.00
2	Octacosane	209566	000630-02-4	90.00
3	Heneicosane	141425	000629-94-7	86.00
4	Eicosane, 7-hexyl-	194499	055333-99-8	86.00
5	Docosane, 7-butyl-	194497	055282-15-0	86.00

SCA



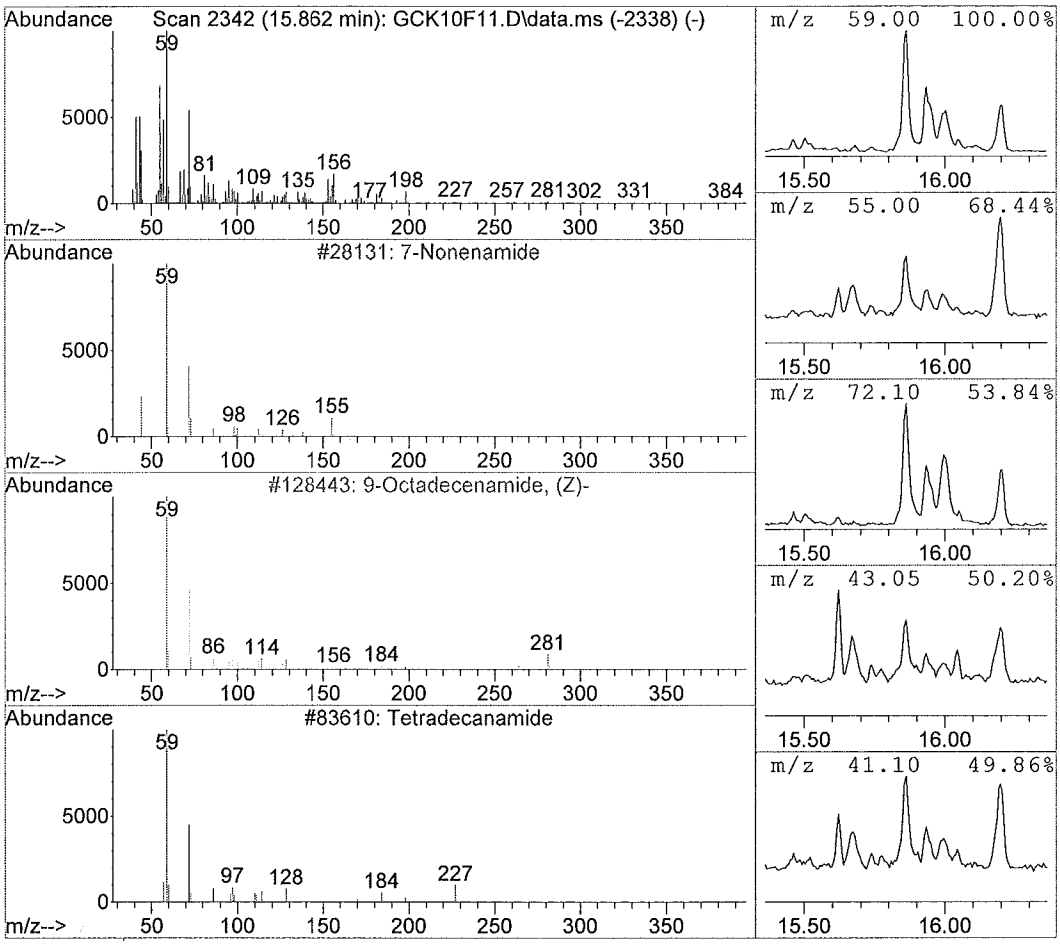
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	4.30 ug/ml	822634	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	94.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	81.00
3	Tetradecanamide	83610	000638-58-4	53.00
4	3-Cyclohexylpropionamide	28138	004361-29-9	38.00
5	Butanamide	1866	000541-35-5	38.00



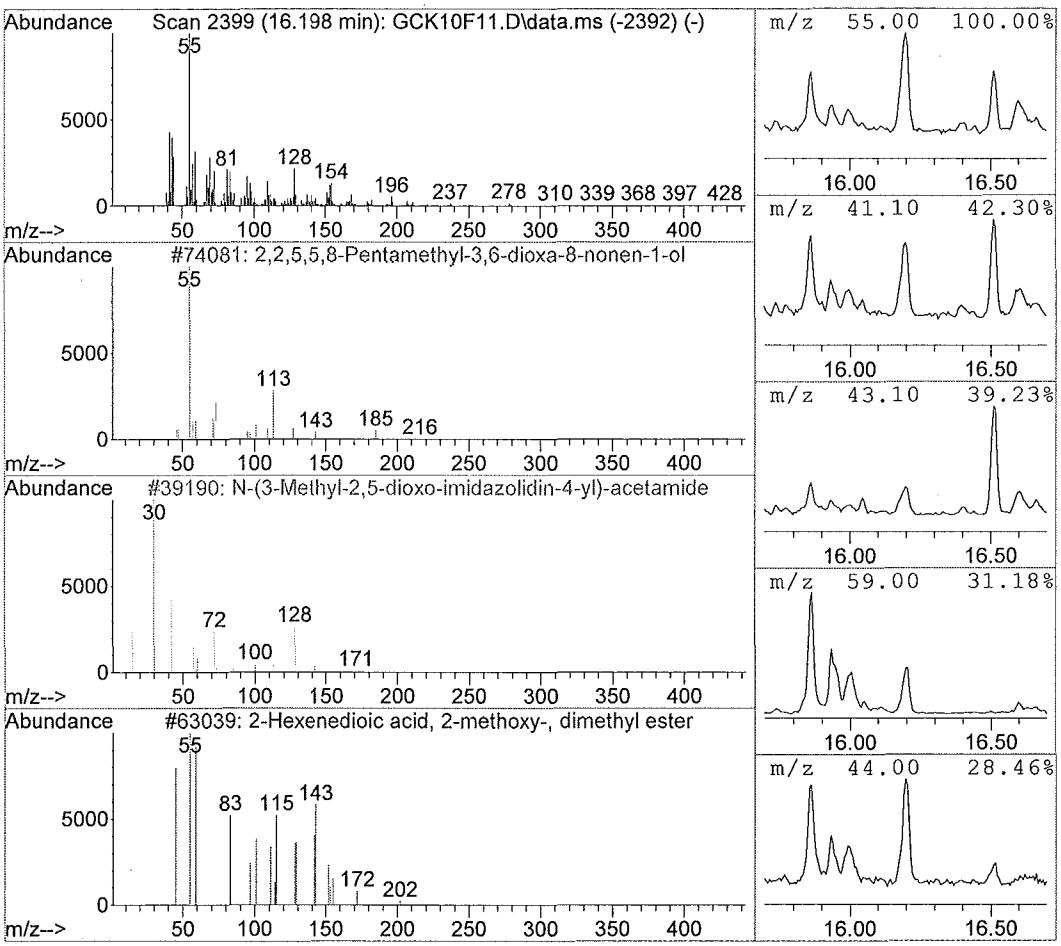
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.65 ug/ml	1273529	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,2,5,5,8-Pentamethyl-3,6-dioxa-8-n	74081	069161-46-2	32.00
2	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	25.00
3	2-Hexenedioic acid, 2-methoxy-, dim	63039	056114-71-7	14.00
4	4-Pentenoic acid, methyl ester	7255	000818-57-5	14.00
5	Cyclohexanecarboxamide	11822	001122-56-1	14.00



Library Search Compound Report

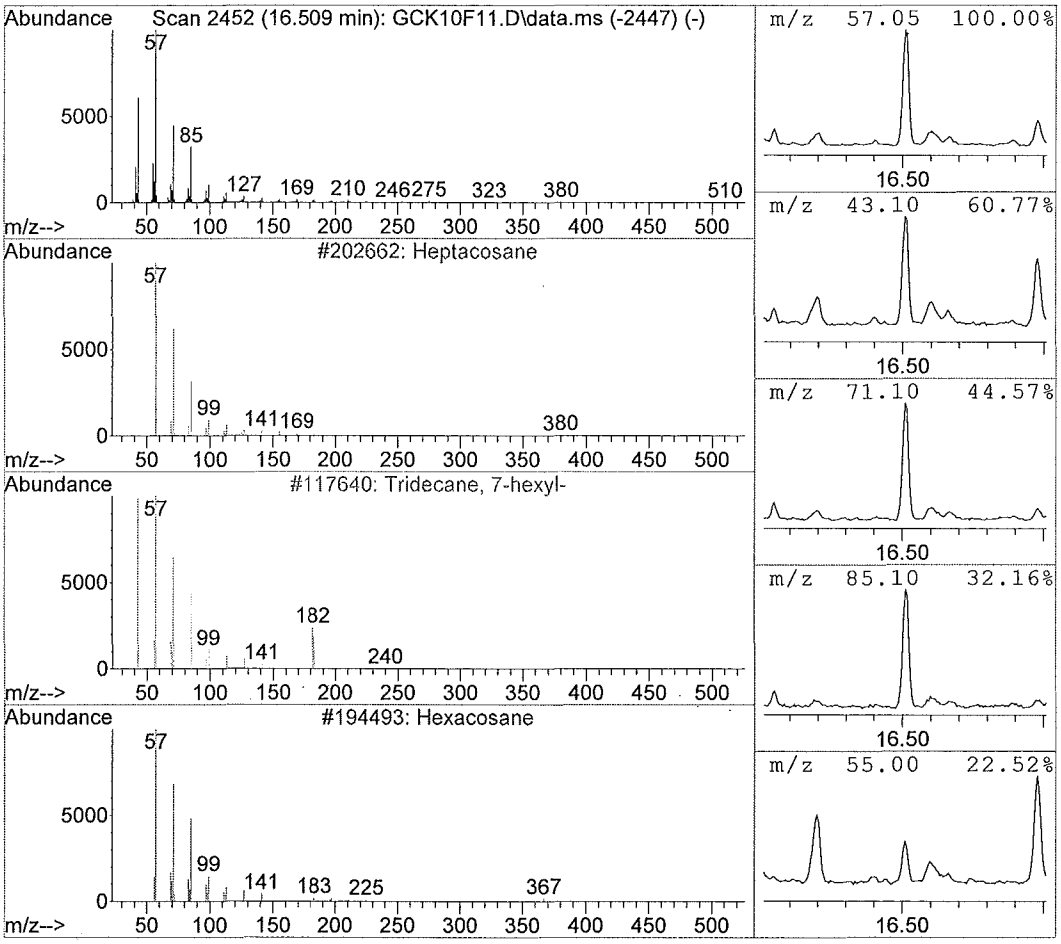
Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	7.01 ug/ml	1341358	Chrysene-d12	3828183

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	99.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
3	Hexacosane	194493	000630-01-3	87.00
4	Heneicosane	141425	000629-94-7	87.00
5	Octacosane	209566	000630-02-4	87.00

SCA



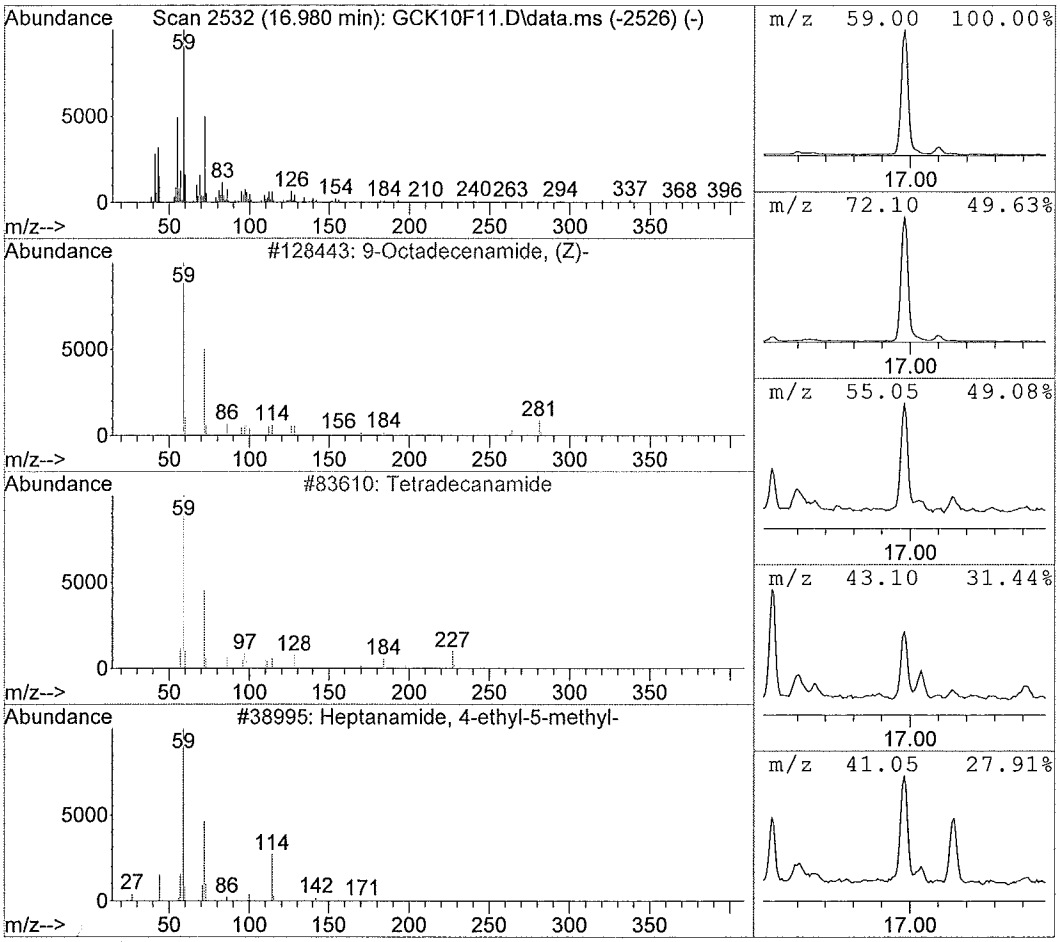
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	15.42 ug/ml	2289441	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
2	Tetradecanamide	83610	000638-58-4	72.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Octanamide	20317	000629-01-6	50.00



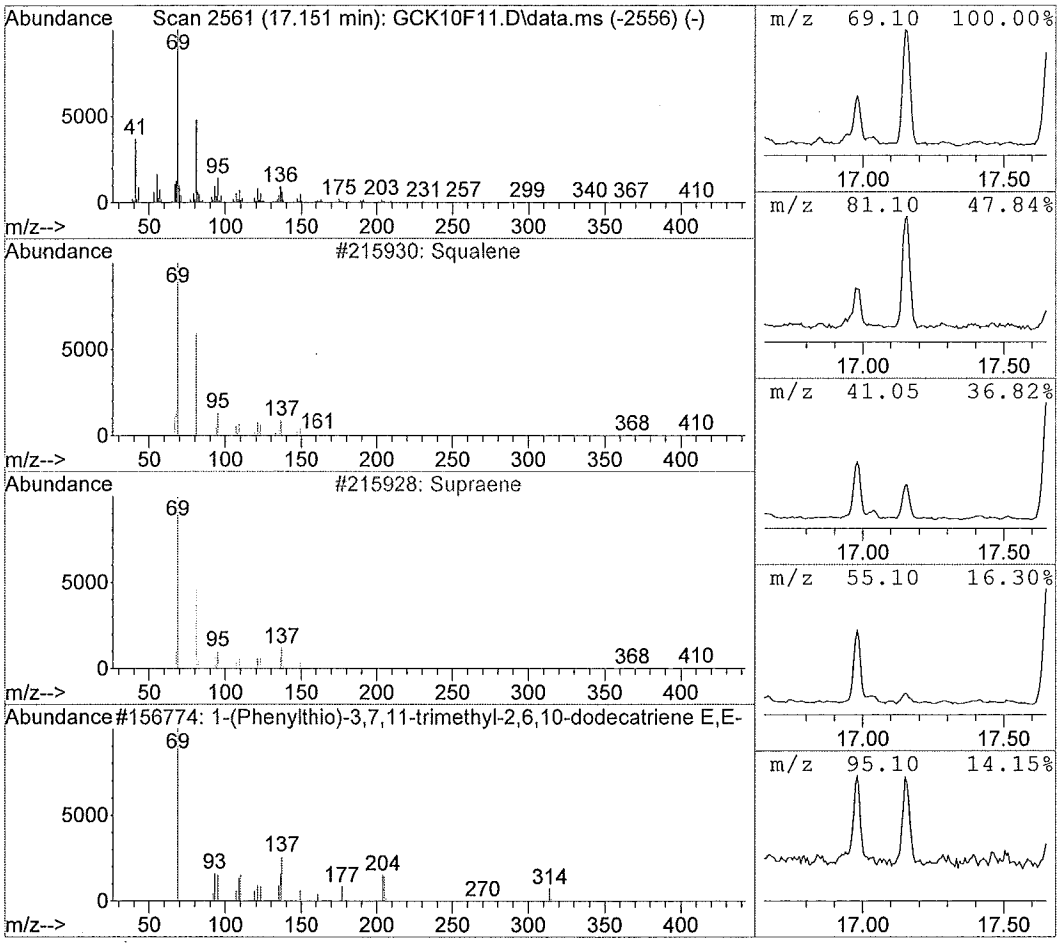
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.15	6.14 ug/ml	911835	Perylene-d12	2968614

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-(Phenylthio)-3,7,11-trimethyl-2,6	156774	028413-57-2	78.00
4	1,5-Heptadiene, 3,4-dimethyl-	10686	1000061-77-9	50.00
5	(.+/-.)-Lavandulol, chlorodifluoroa	115124	1000376-22-9	50.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	54.17 ug/ml	8040875	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
2	Heptacosane	202662	000593-49-7	91.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
4	Hentriacontane	223851	000630-04-6	91.00
5	1-Iodo-2-methylundecane	140553	073105-67-6	90.00

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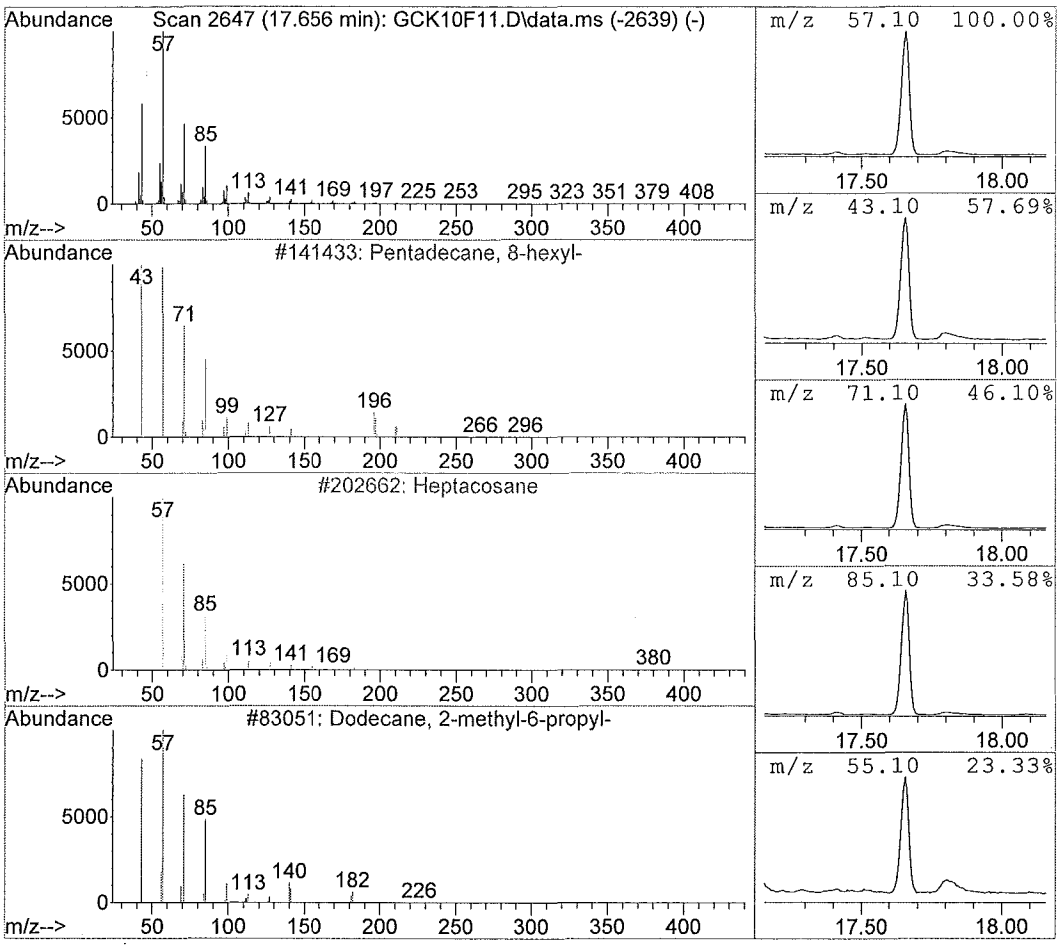


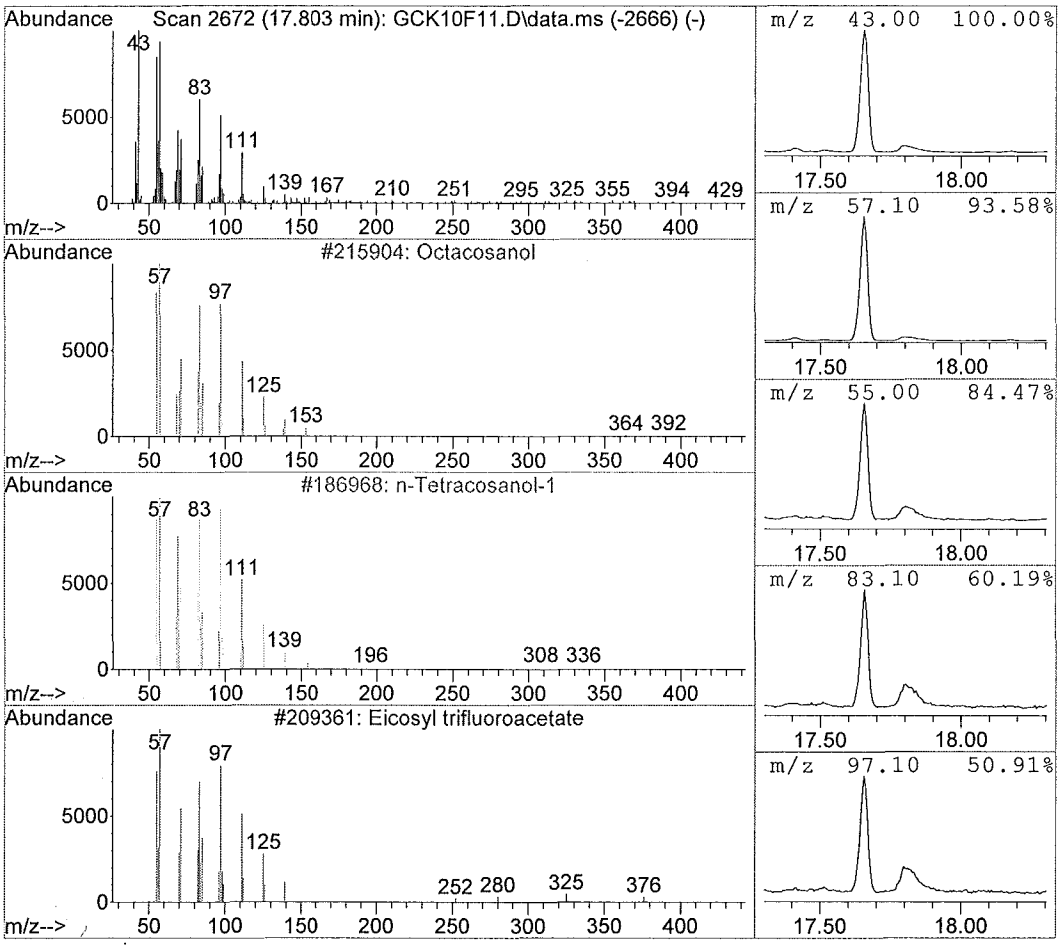
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.80	5.79 ug/ml	859733	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosanol	215904	000557-61-9	91.00
2	n-Tetracosanol-1	186968	000506-51-4	91.00
3	Eicosyl trifluoroacetate	209361	1000351-75-2	91.00
4	1-Heptacosanol	210517	002004-39-9	91.00
5	Eicosyl heptafluorobutyrate	234498	1000351-83-5	87.00



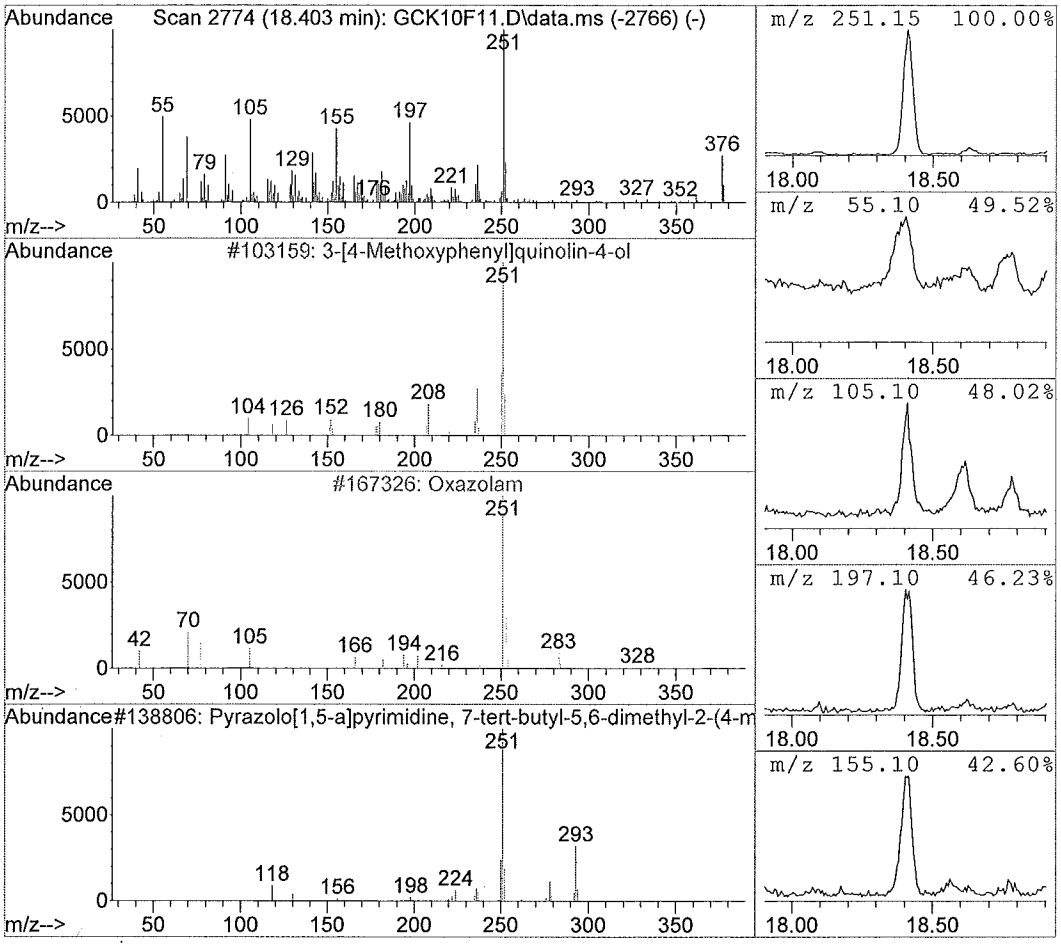
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.40	10.76 ug/ml	1597361	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-[4-Methoxyphenyl]quinolin-4-ol	103159	1000254-66-9	43.00
2	Oxazolam	167326	024143-17-7	25.00
3	Pyrazolo[1,5-a]pyrimidine, 7-tert-b	138806	1000276-58-3	25.00
4	Oxazole, 2-(3-methoxyphenyl)-5-phen	103166	038705-20-3	25.00
5	2-(4-Cyanophenyl)-5-dimethylaminome	103038	150405-58-6	25.00



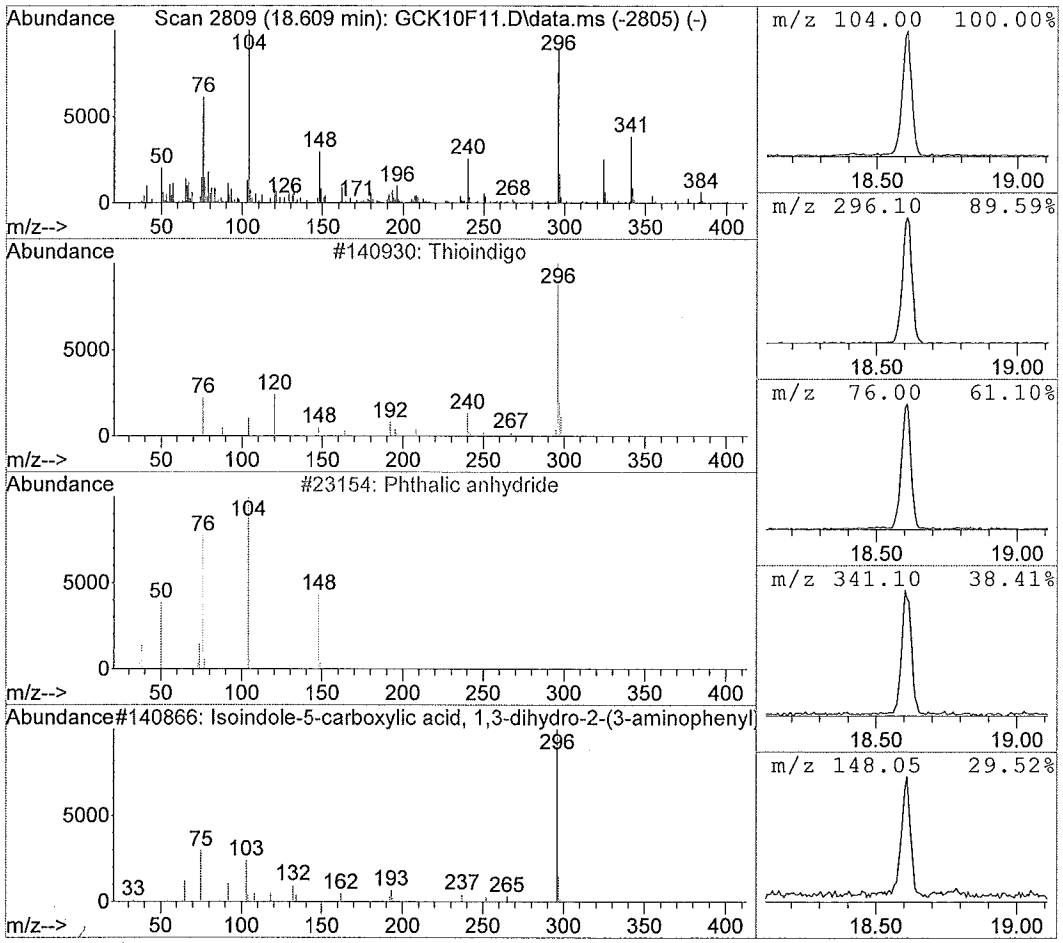
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	6.54 ug/ml	970962	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thioindigo	140930	000522-75-8	32.00
2	Phthalic anhydride	23154	000085-44-9	27.00
3	Isoindole-5-carboxylic acid, 1,3-di	140866	333340-81-1	14.00
4	2-(2-Quinolyl)(1,2,4)triazolo(1,5-a	141220	1000241-15-8	14.00
5	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	12.00



Library Search Compound Report

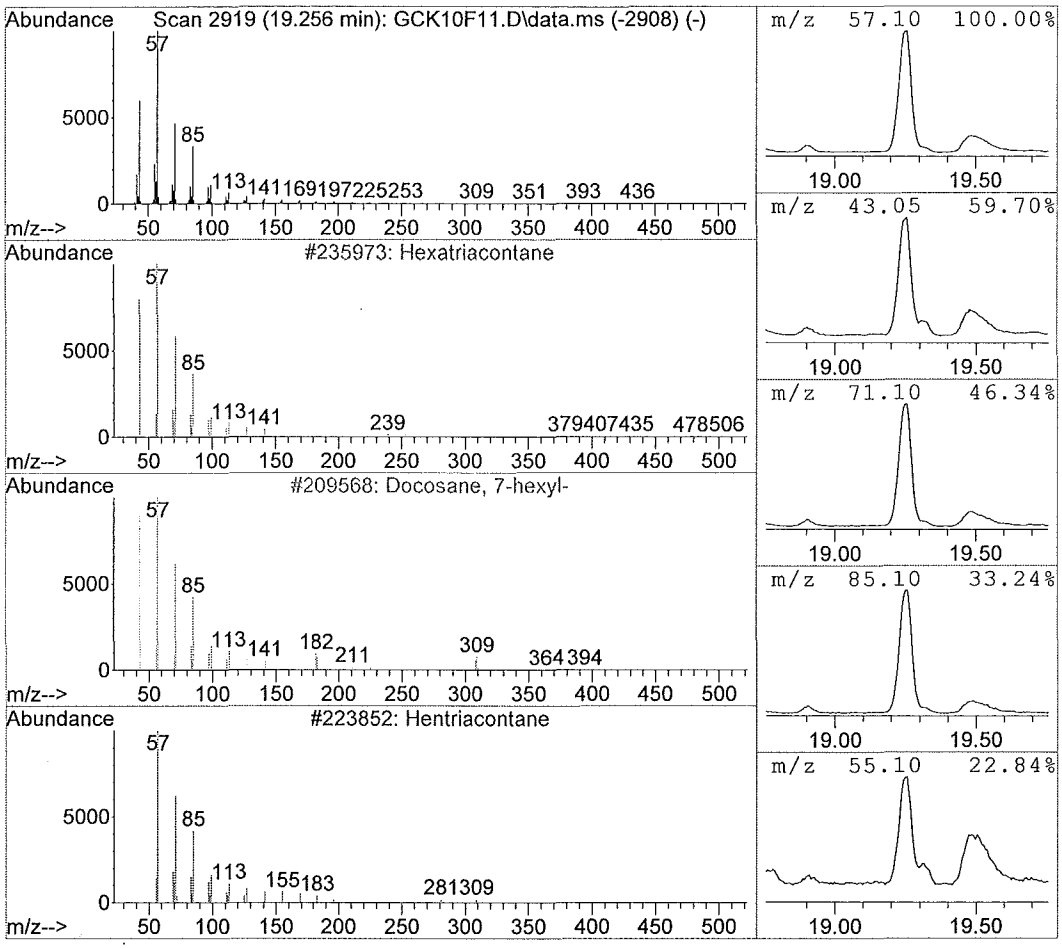
Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.26	38.99 ug/ml	5787574	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	235973	000630-06-8	91.00
2	Docosane, 7-hexyl-	209568	055373-86-9	90.00
3	Hentriacontane	223852	000630-04-6	90.00
4	Hexacosane	194494	000630-01-3	90.00
5	Heptacosane	202662	000593-49-7	87.00

SCA



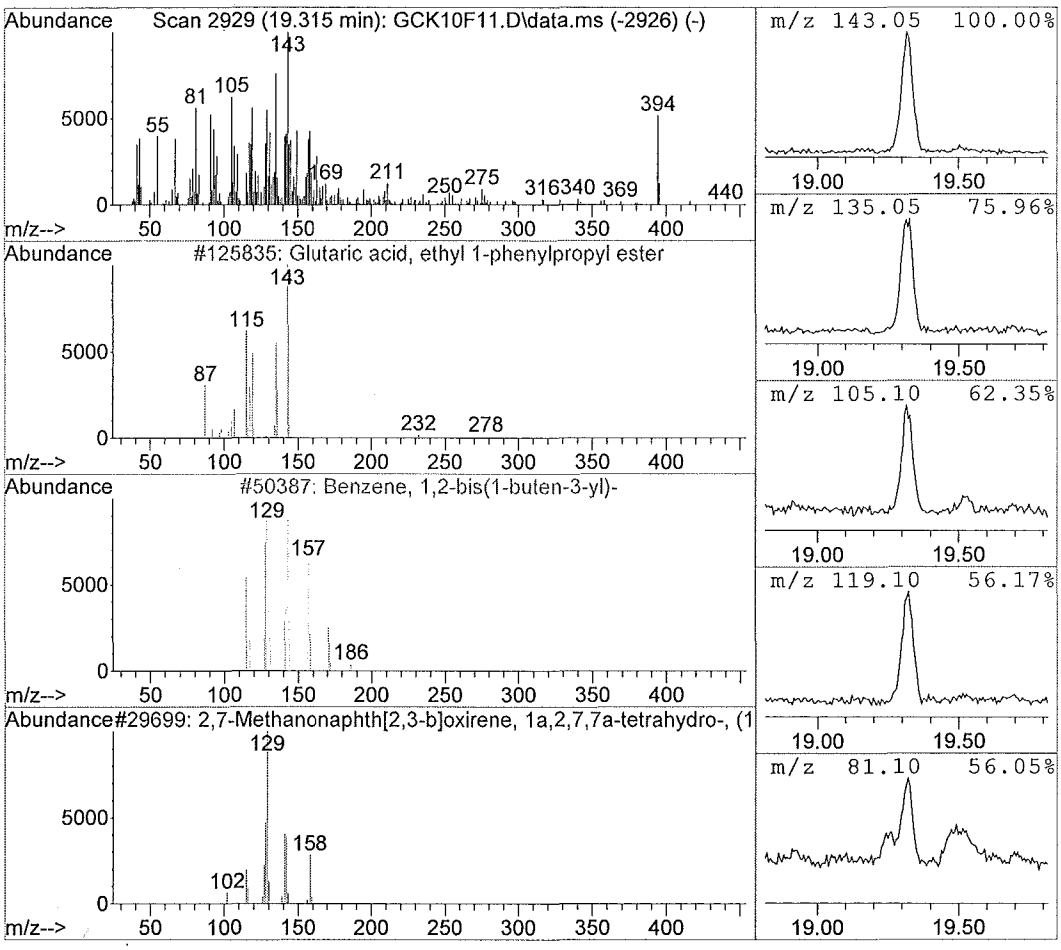
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.32	7.76 ug/ml	1151093	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Glutaric acid, ethyl 1-phenylpropyl	125835	1000358-94-7	47.00
2	Benzene, 1,2-bis(1-buten-3-yl)-	50387	1000162-73-9	27.00
3	2,7-Methanonaphth[2,3-b]oxirene, 1a	29699	013137-34-3	22.00
4	1H-Indene, 1,1,3-trimethyl-	29716	002177-45-9	18.00
5	1,2,3-Trimethylindene	29703	004773-83-5	14.00



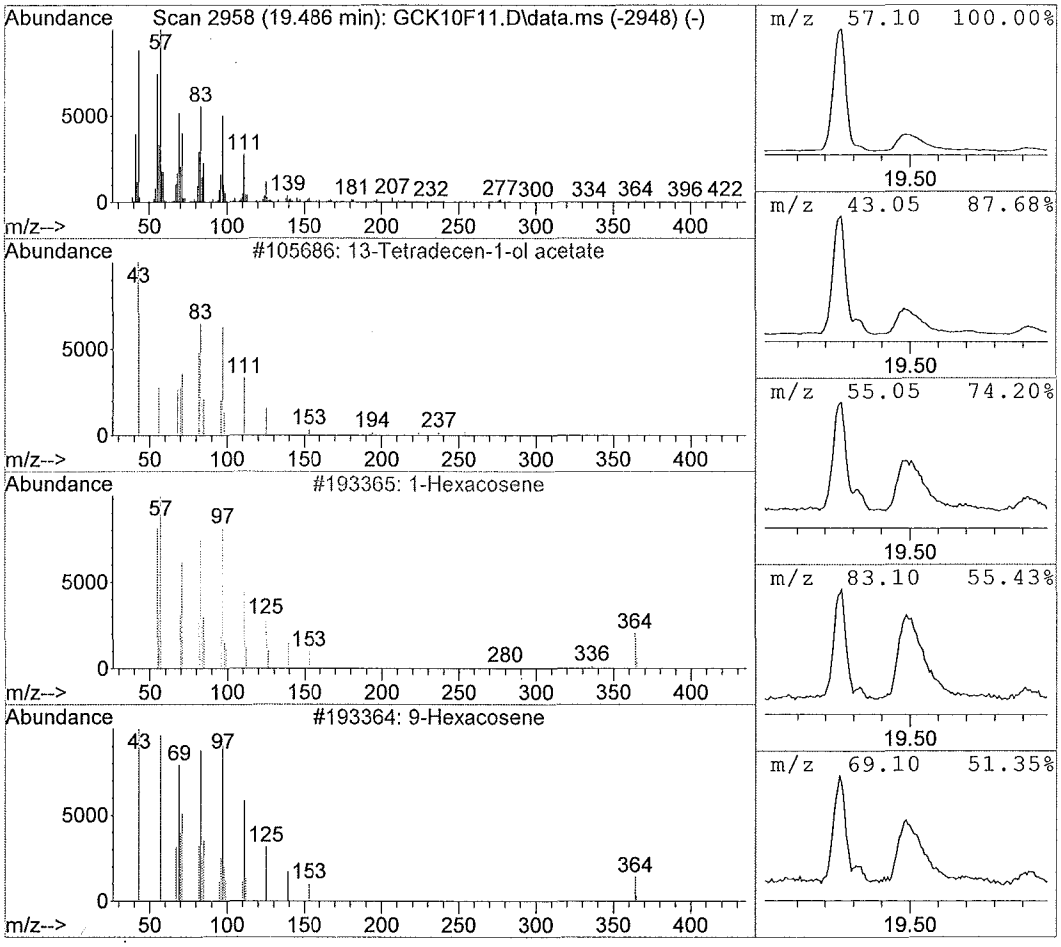
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	21.84 ug/ml	3241931	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Tetradecen-1-ol acetate	105686	056221-91-1	97.00
2	1-Hexacosene	193365	018835-33-1	95.00
3	9-Hexacosene	193364	071502-22-2	93.00
4	Octacosanol	215904	000557-61-9	91.00
5	1-Hexacosanol	203697	000506-52-5	91.00



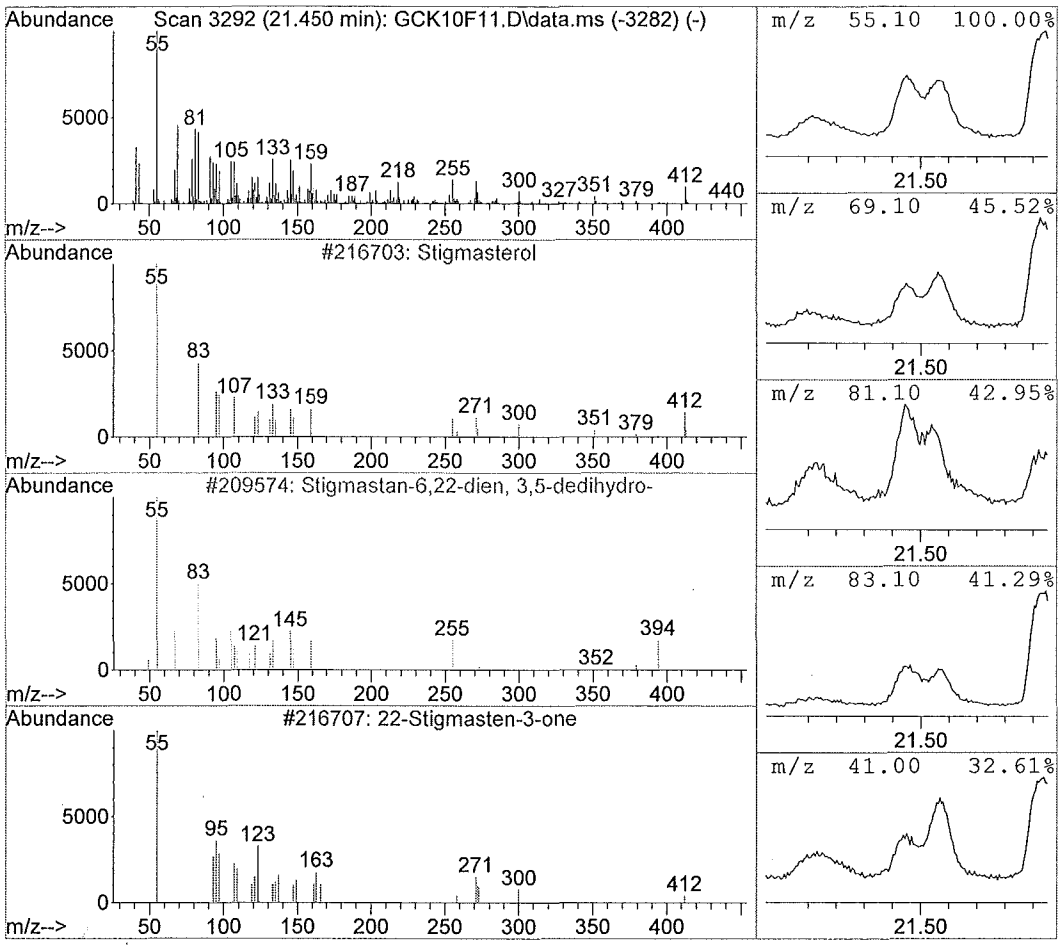
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.45	12.78 ug/ml	1896806	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmasterol	216703	000083-48-7	98.00
2	Stigmastan-6,22-dien, 3,5-dedihydro	209574	107304-12-1	45.00
3	22-Stigmasten-3-one	216707	004736-95-2	44.00
4	Cholesta-6,22,24-triene, 4,4-dimeth	209575	1000128-66-9	43.00
5	Cholesta-22,24-dien-5-ol, 4,4-dimet	216714	1000128-66-1	42.00



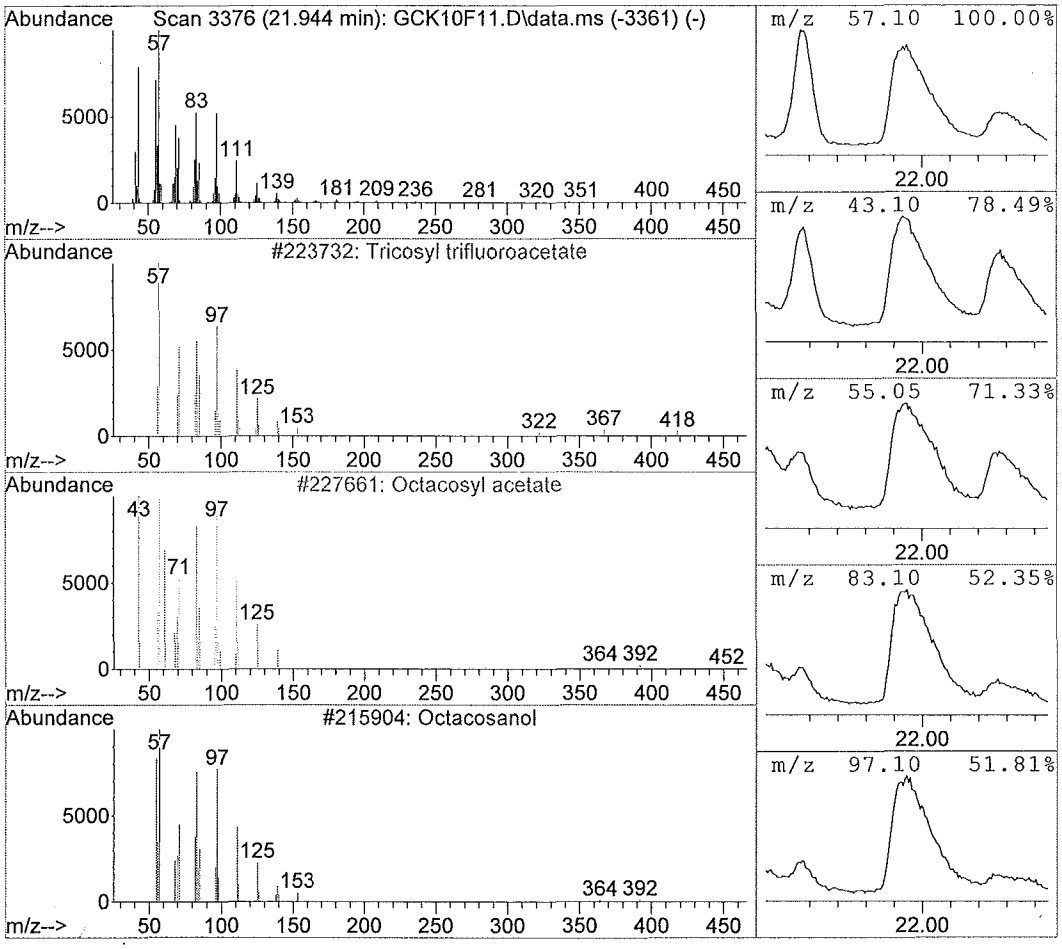
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.94	60.12 ug/ml	8923514	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricosyl trifluoroacetate	223732	1000351-75-1	91.00
2	Octacosyl acetate	227661	018206-97-8	91.00
3	Octacosanol	215904	000557-61-9	91.00
4	Heptacosyl acetate	224391	1000351-78-2	91.00
5	Triacontyl acetate	232691	041755-58-2	91.00



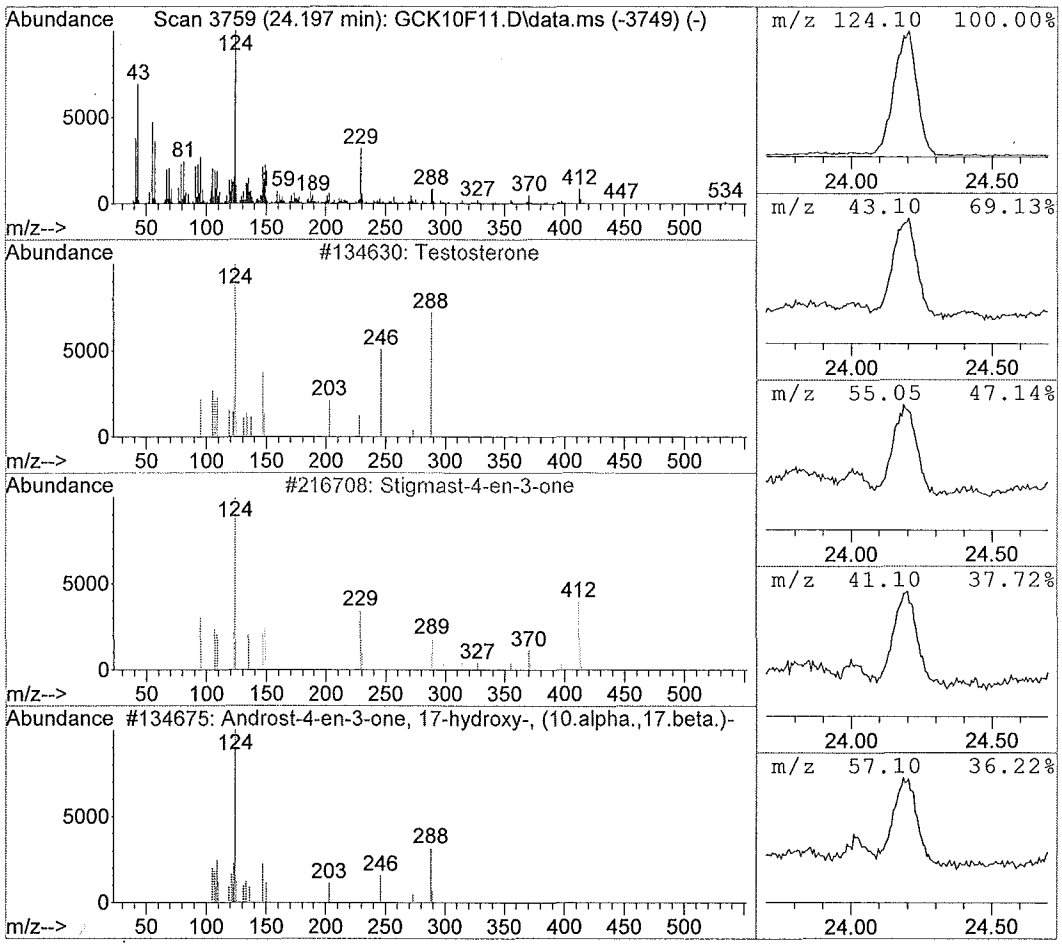
Library Search Compound Report

Data File : R:\G\2015\JUL15\02JUL15\GCK10F11.D Vial: 10
Acq On : 07/02/2015 15:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\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	19.76 ug/ml	2933475	Perylene-d12	2968614

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Testosterone	134630	000058-22-0	95.00
2	Stigmast-4-en-3-one	216708	001058-61-3	93.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	90.00
4	Pregn-4-ene-3,20-dione, (9.beta.,10	156750	002755-10-4	53.00
5	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	42.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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

EPA SAMPLE NO.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

GPC Cleanup: (Y/N) Y pH: 6.1 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-	2.49	110	JNB
02		Unknown 3-Pyrrolidinol	2.54	190	J
03		Unknown Guanidine	3.72	5100	J
04		Unknown 1H-Pyrrole-2,5-dione	4.49	110	J
05	301-02-0	9-Octadecenamide, (Z)-	14.31	95.	JNB
06	629-54-9	Hexadecanamide	14.42	220	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.32	1600	JNB
08	629-54-9	Hexadecanamide	15.41	86.	JN
09		Unknown 9-Octadecenamide, (Z)-	16.13	97.	JB
10		Unknown Cyclohexanecarboxamide	16.50	170	J
11	301-02-0	9-Octadecenamide, (Z)-	17.34	610	JN
12		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	22.11	4900	J
13		Unknown 1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4	22.46	620	J
14		Unknown 2,4,4-Trimethyl-3-(3-methylbuta-1,3-dien	22.80	390	J
15	1615-91-4	A'-Neogammacer-22(29)-ene	23.32	160	JN
16		Unknown (-)-Isolongifolol, methyl ether	23.89	250	J
17		Unknown 3-Bromo-4-hydroxy-5-methoxyphenylacetoni	24.89	1100	J
18		Unknown 5.beta.-Coprostan-16,22-epoxy-3.alpha.,2	25.09	410	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

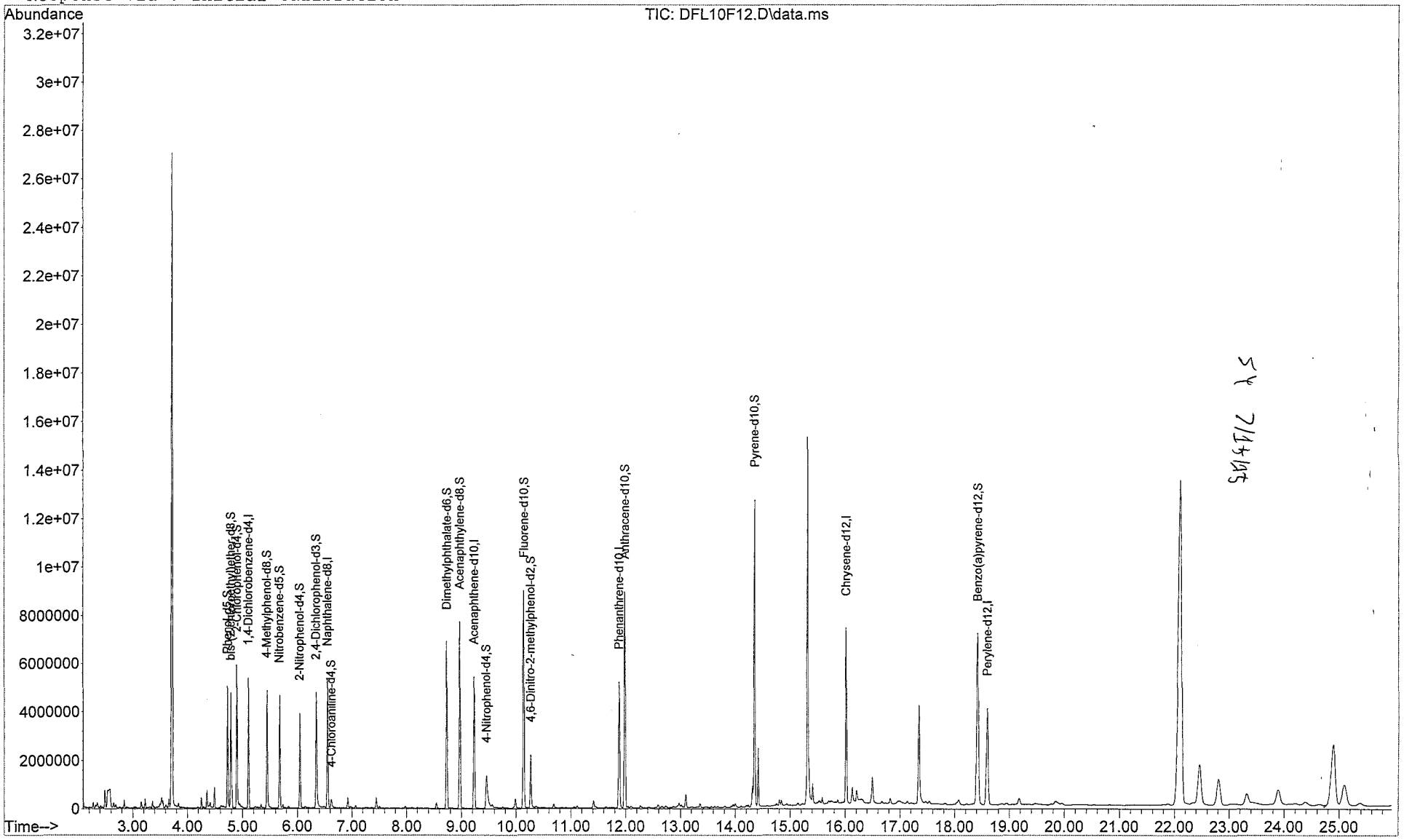
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 11:15:19 2015 Results File: DSOM01D5.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)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:19 2015 Results File: DSOM01D5.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	5.11	152	935236	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3097393	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1844963	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3119740	20.00 ug/ml
73) Chrysene-d12	16.02	240	3659459	20.00 ug/ml
81) Perylene-d12	18.60	264	3527810	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	1852812	31.832ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1161723	27.277ug/mL
7) 2-Chlorophenol-d4	4.90	132	1785338	30.772ug/ml
13) 4-Methylphenol-d8	5.45	113	1200953	27.526ug/mL
17) Nitrobenzene-d5	5.67	128	782679	30.851ug/ml
21) 2-Nitrophenol-d4	6.05	143	923031	30.681ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1493925	30.729ug/mL
28) 4-Chloroaniline-d4	6.62	131	180963	4.955ug/mL
42) Dimethylphthalate-d6	8.73	166	4252476	37.384ug/mL
45) Acenaphthylene-d8	8.97	160	5134802	34.282ug/mL
50) 4-Nitrophenol-d4	9.46	143	655262	34.683ug/mL
57) Fluorene-d10	10.14	176	3644041	36.253ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	587271	29.809ug/mL
69) Anthracene-d10	11.98	188	6097459	38.150ug/mL
75) Pyrene-d10	14.35	212	6193626	40.190ug/mL
86) Benzo(a)pyrene-d12	18.42	264	6299336	39.018ug/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)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 11:15:19 2015 Results File: DSOM01D5.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)

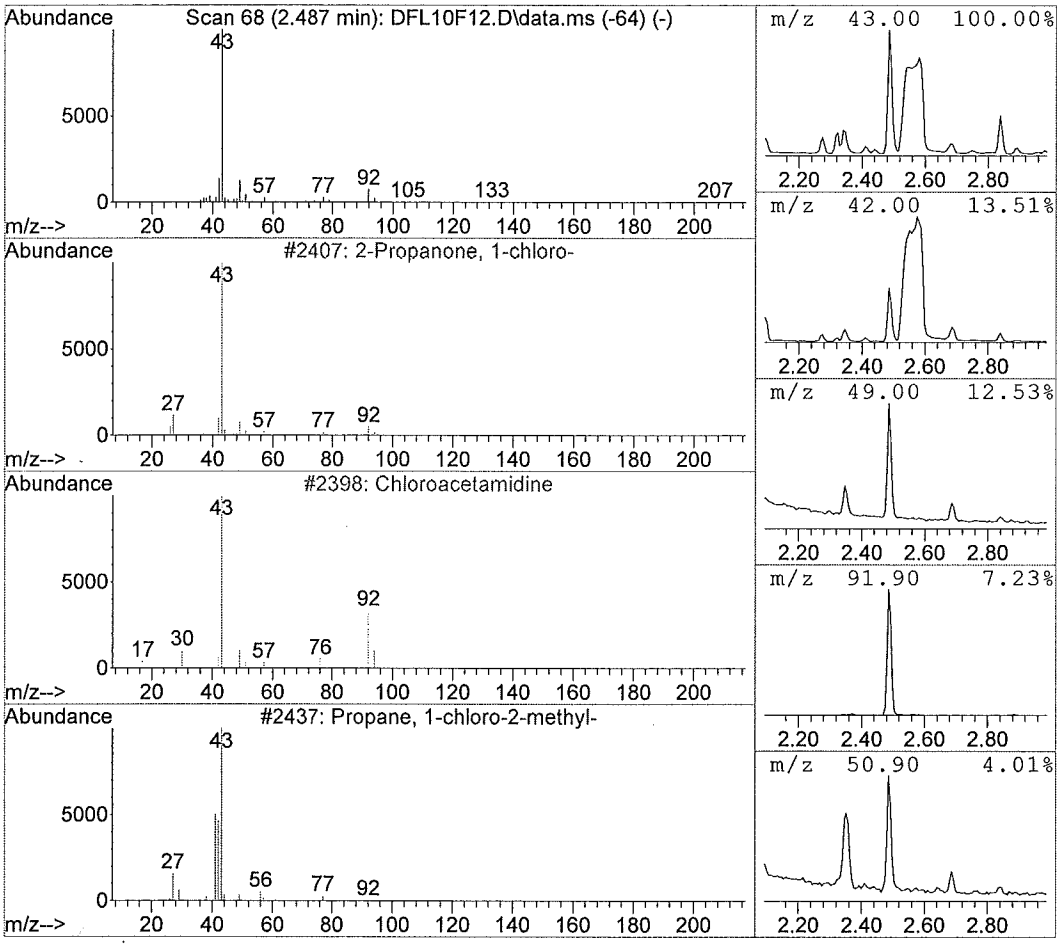
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.74 ug/ml	757690	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	90.00
2	Chloroacetamidine	2398	020846-52-0	45.00
3	Propane, 1-chloro-2-methyl-	2437	000513-36-0	9.00
4	Acetyl chloride	990	000075-36-5	9.00
5	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00



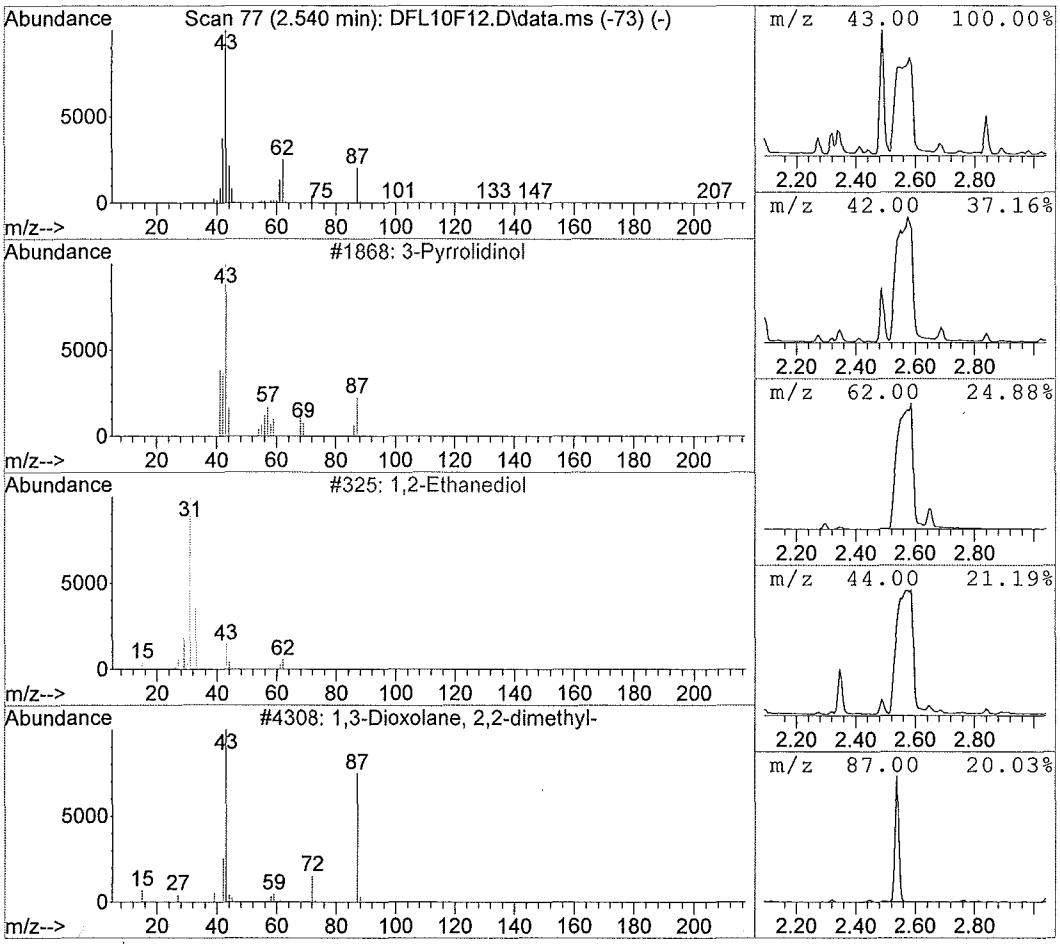
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.54	4.86 ug/ml	1343728	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	1868	040499-83-0	16.00
2	1,2-Ethanediol	325	000107-21-1	9.00
3	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	9.00
4	Acetamide, N-ethyl-	1881	000625-50-3	7.00
5	2,3-Epoxybutane	676	003266-23-7	7.00



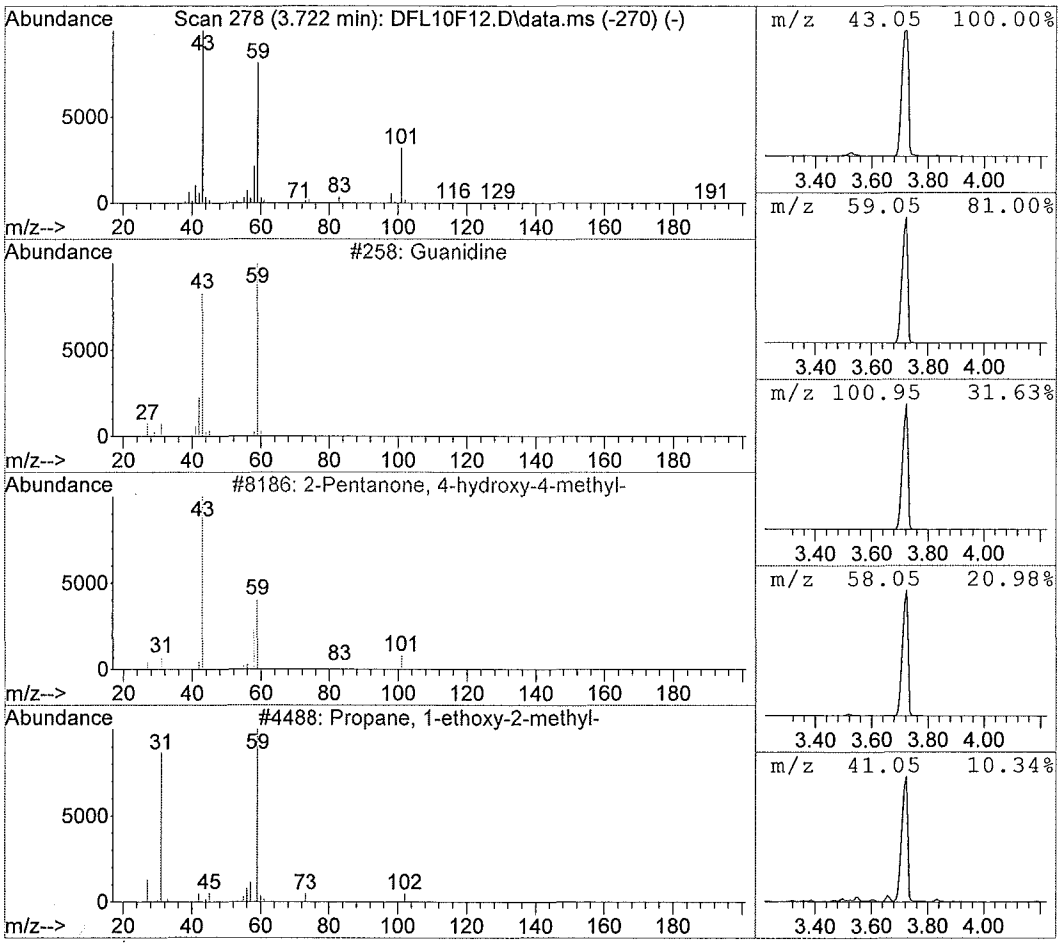
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.72	131.73 ug/ml	36455036	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	37.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00



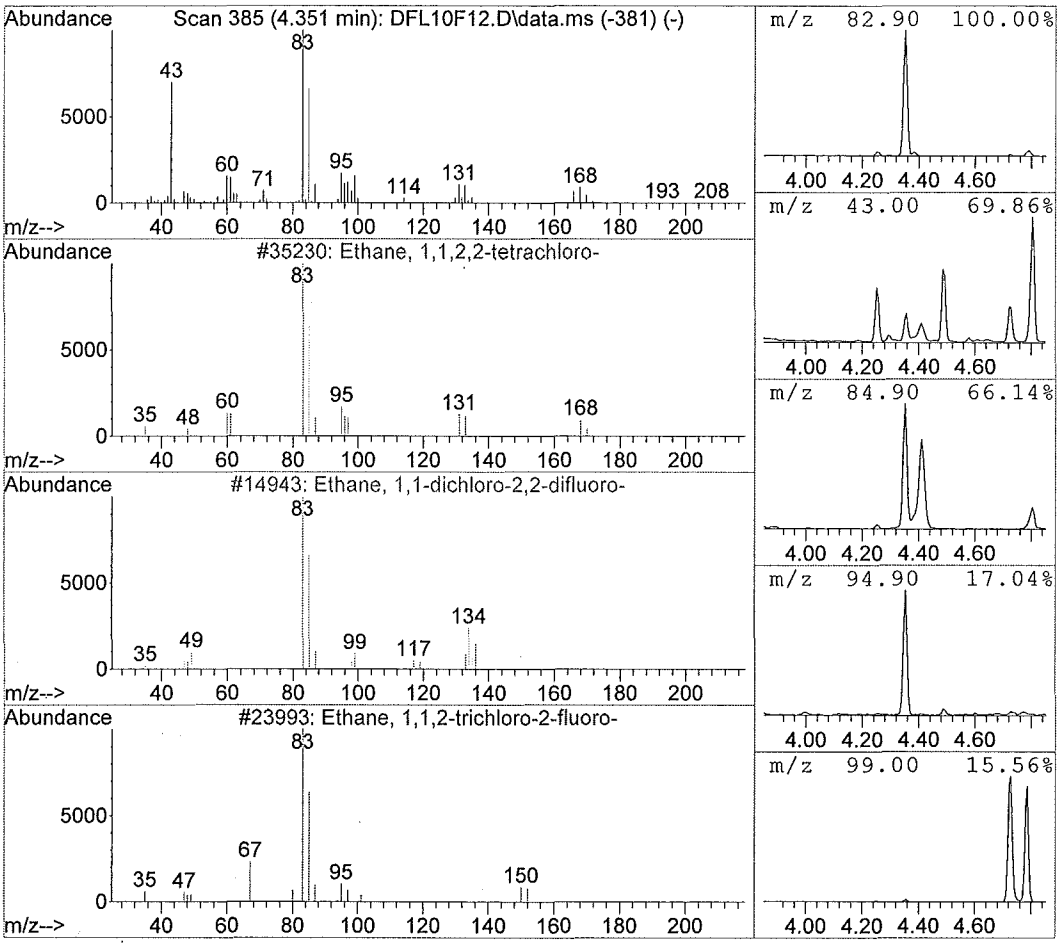
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.54 ug/ml	702777	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	59.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	53.00
4	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	52.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00



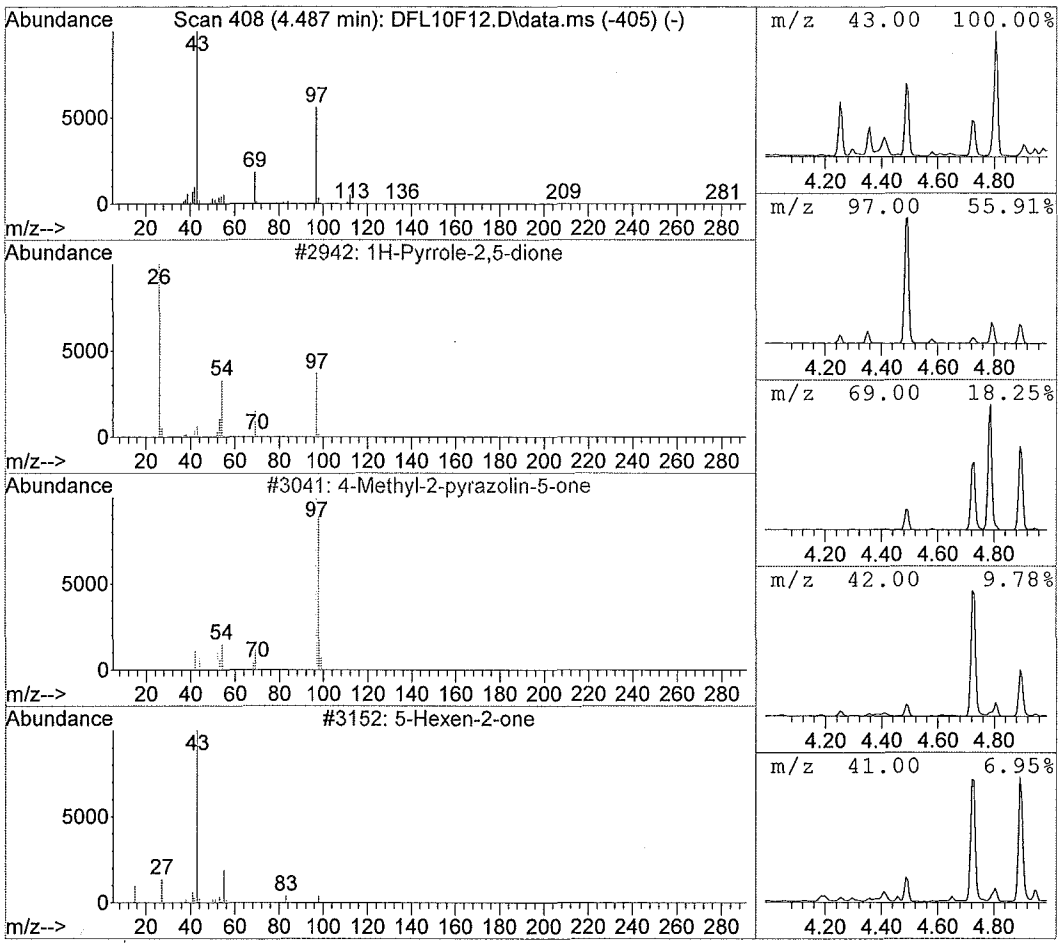
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.49	2.97 ug/ml	821528	1,4-Dichlorobenzene-d4	5534936

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
3	5-Hexen-2-one	3152	000109-49-9	10.00
4	2,4-Dimethyl-1,5-diazabicyclo[3.1.0	6335	1000283-20-9	9.00
5	2-Cyclohexen-1-ol, 3-methyl-	6572	021378-21-2	9.00



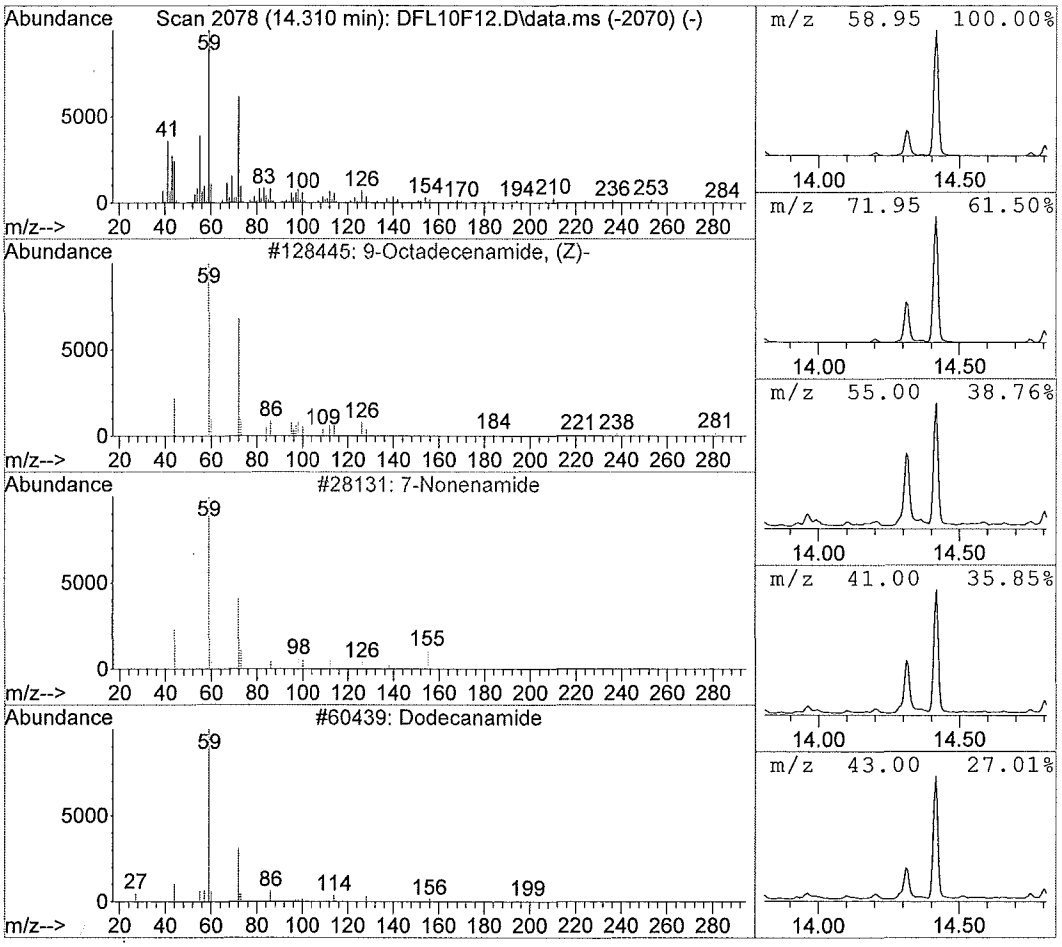
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.31	2.46 ug/ml	1178282	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	56.00
5	Hexadecanamide	106565	000629-54-9	50.00



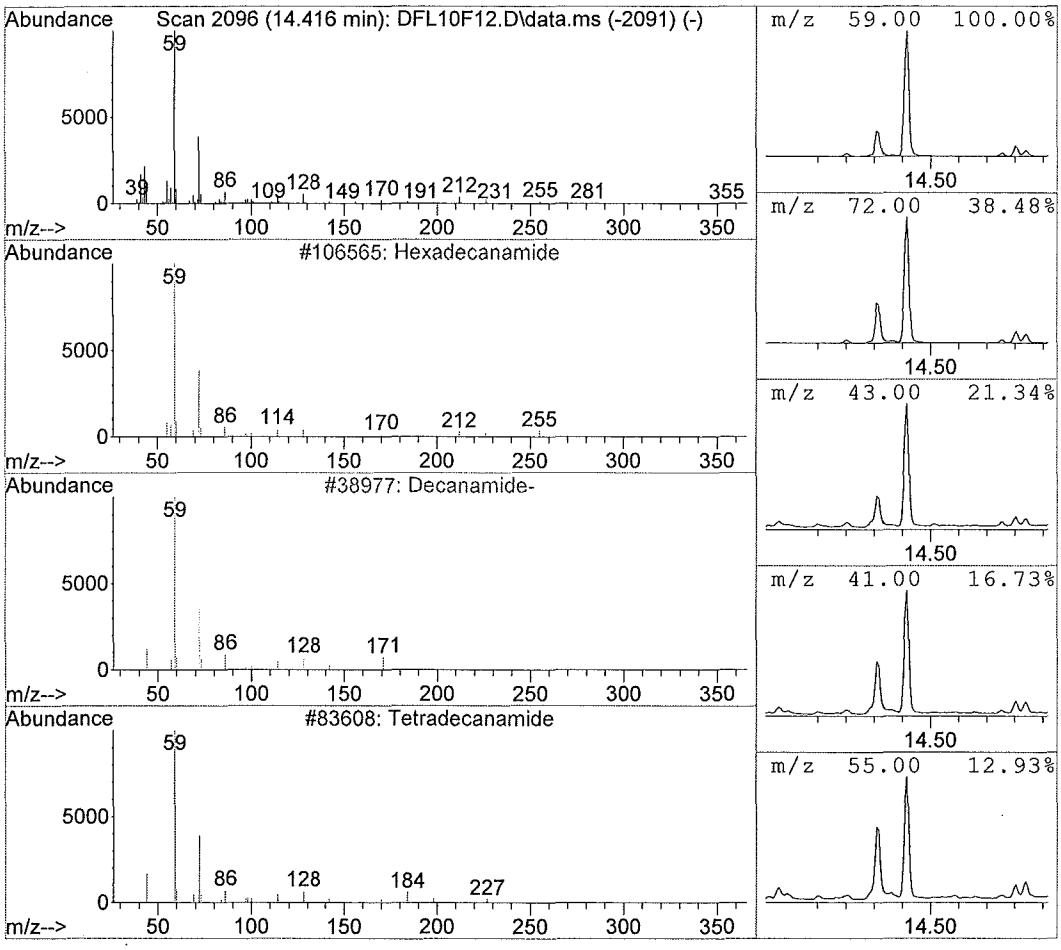
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.68 ug/ml	2724714	Chrysene-d12	9588168

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



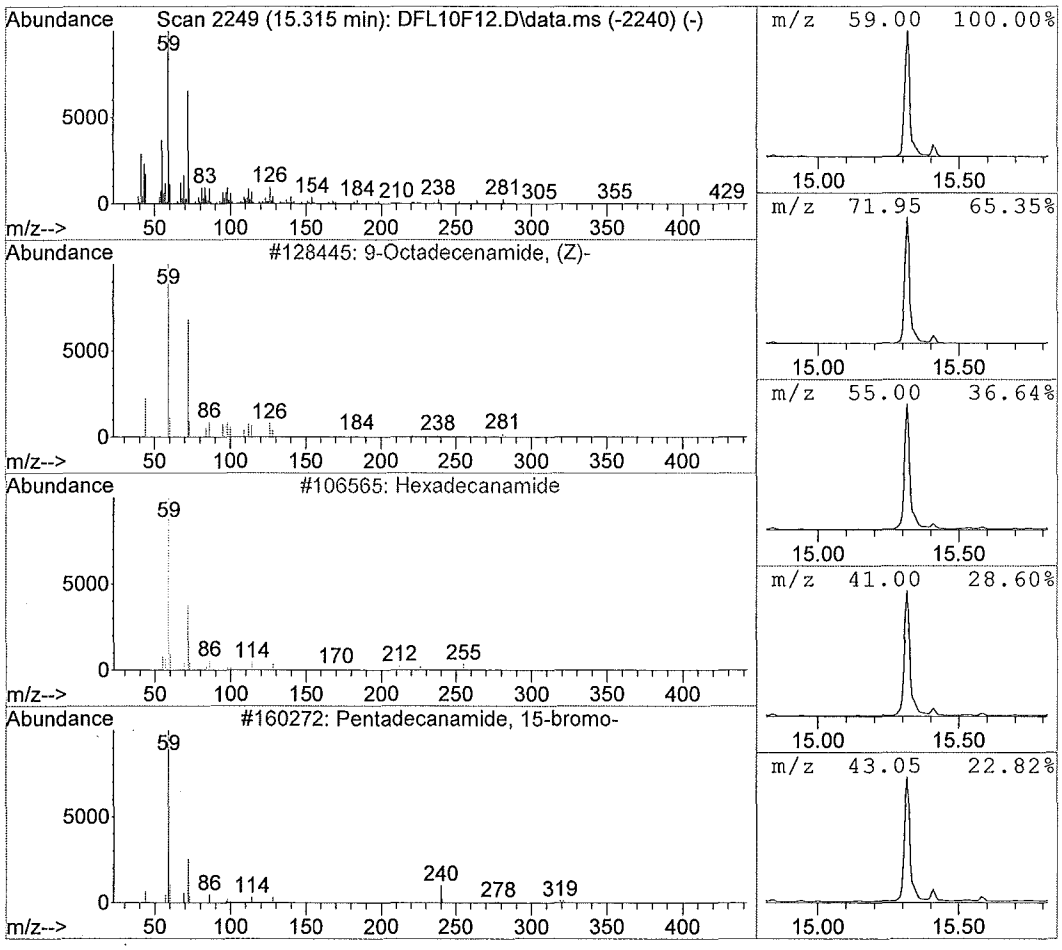
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	42.44 ug/ml	20348169	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106565	000629-54-9	64.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
4	Octanamide	20317	000629-01-6	53.00
5	Tetradecanamide	83609	000638-58-4	50.00



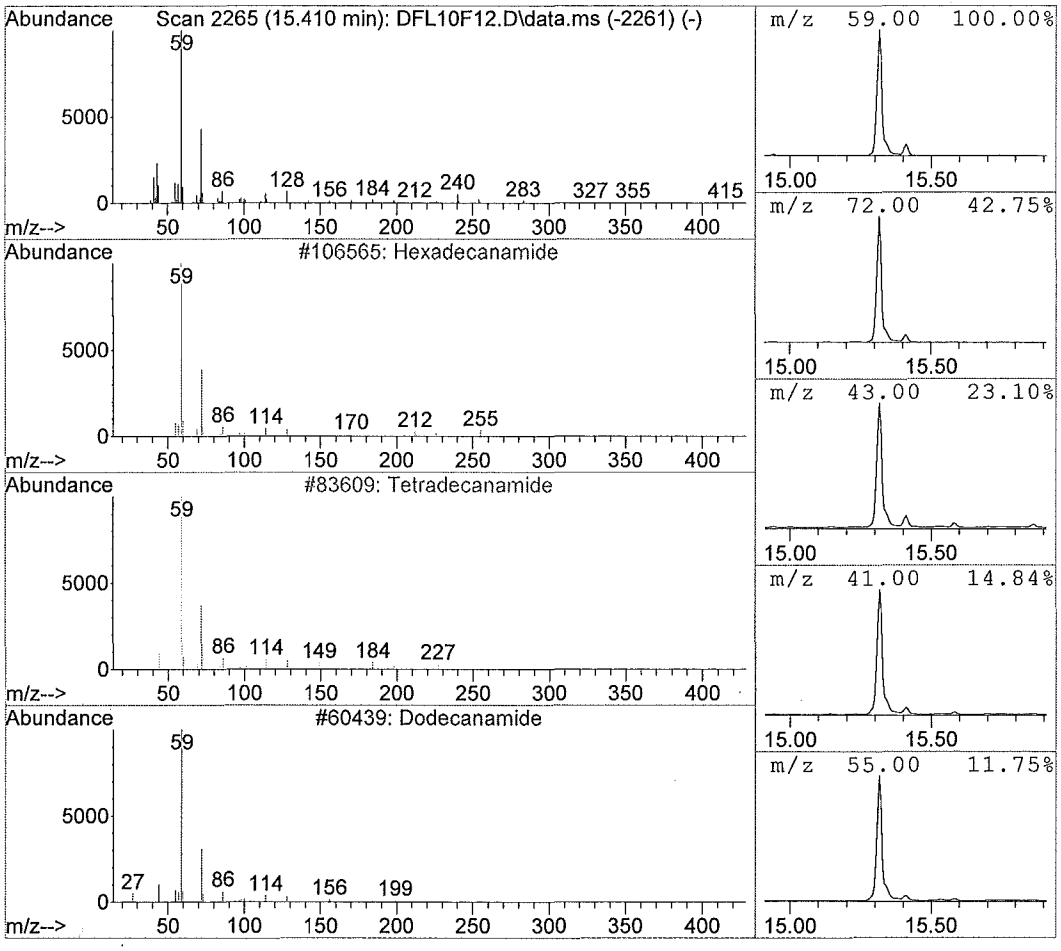
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.24 ug/ml	1073852	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	87.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	9-Octadecenamide, (Z)-	128443	000301-02-0	74.00



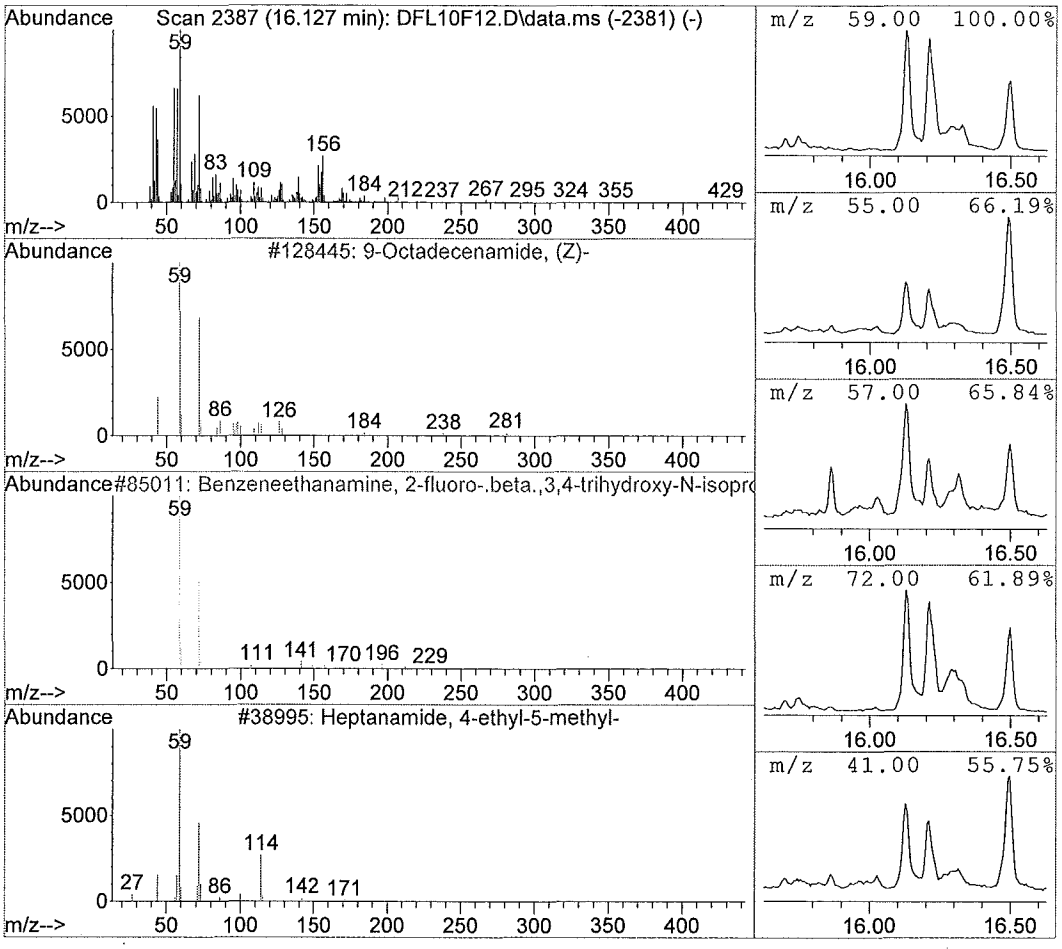
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.53 ug/ml	1213814	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	47.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	43.00
4	Tetradecanamide	83610	000638-58-4	43.00
5	Dodecanamide	60439	001120-16-7	38.00



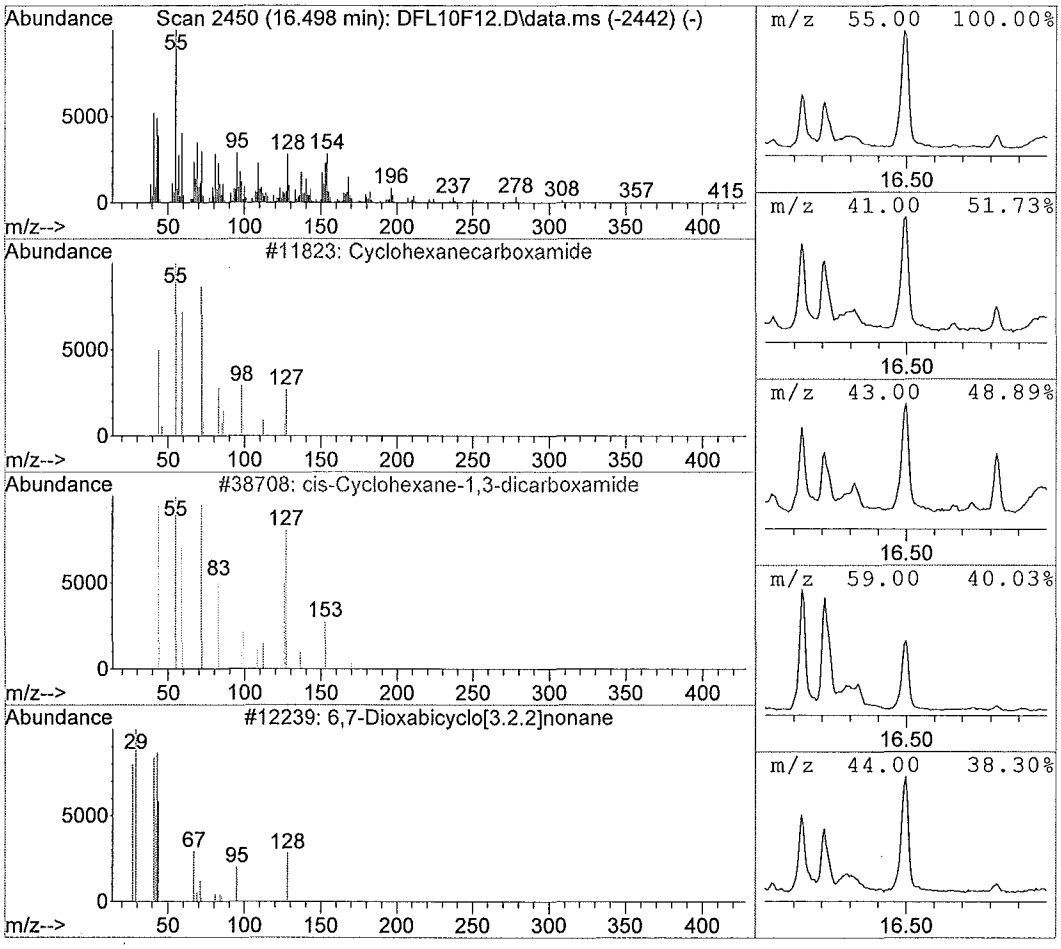
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	4.31 ug/ml	2067484	Chrysene-d12	9588168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	12.00
3	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	10.00
4	3,5-Methano-2H-cyclopenta[b]furan-2	59297	1000141-74-2	10.00
5	Cyclohexylamine, N-(2-chloropropyli	52648	037898-42-3	9.00



: 00571

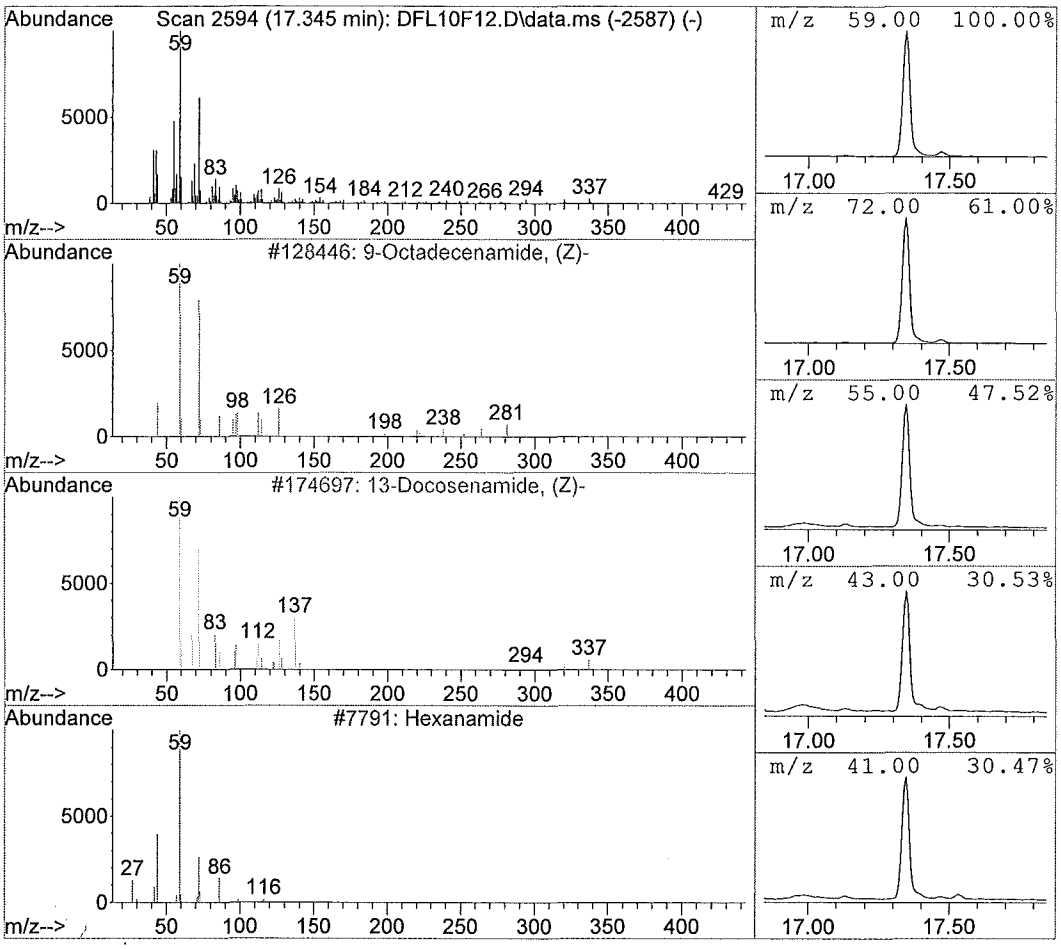
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.34	15.88 ug/ml	7265830	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	95.00
2	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
3	Hexanamide	7791	000628-02-4	47.00
4	2-Octanol, 2-methyl-6-methylene-	28320	018479-59-9	43.00
5	2-Methyl-tridecane-2,12-diol	86147	1000187-03-5	43.00



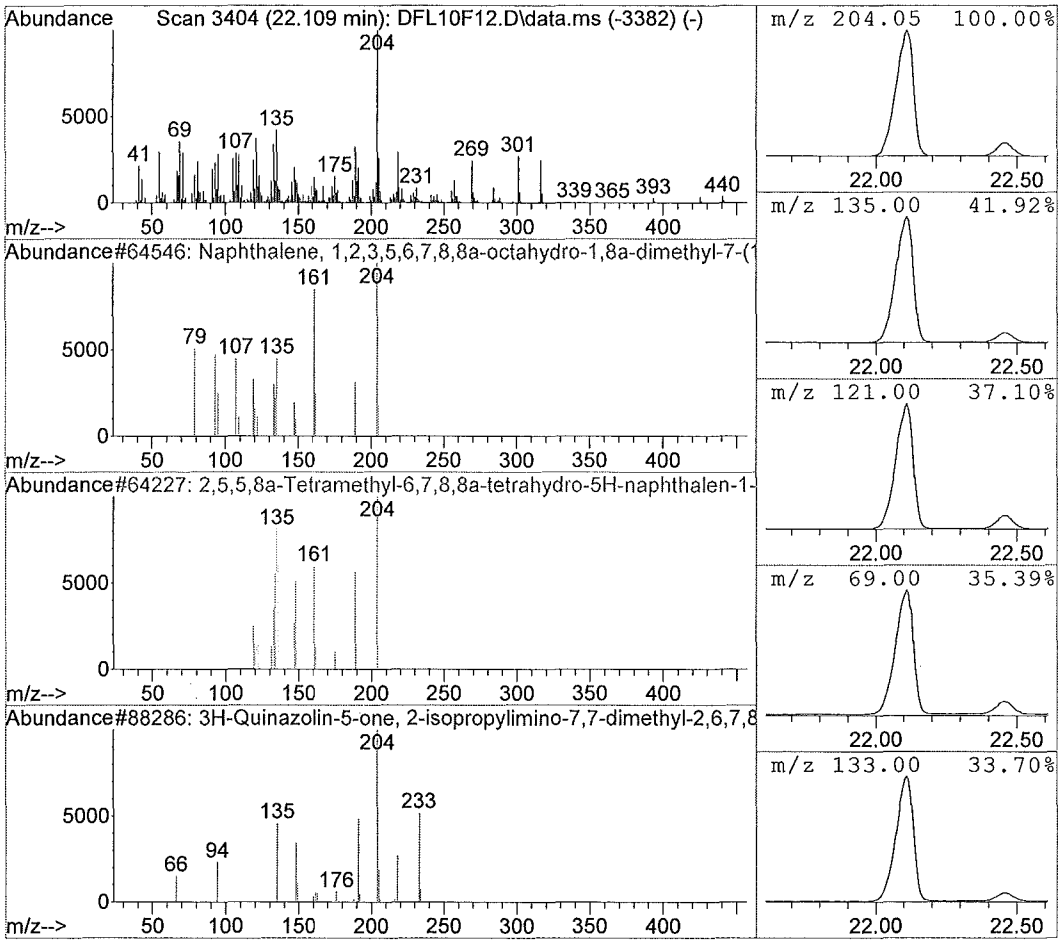
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.11	127.57 ug/ml	58363627	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	49.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	43.00
4	1H-3a-Aza-as-indacene, 8b-methyl-2-	76615	1000316-47-6	30.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	27.00



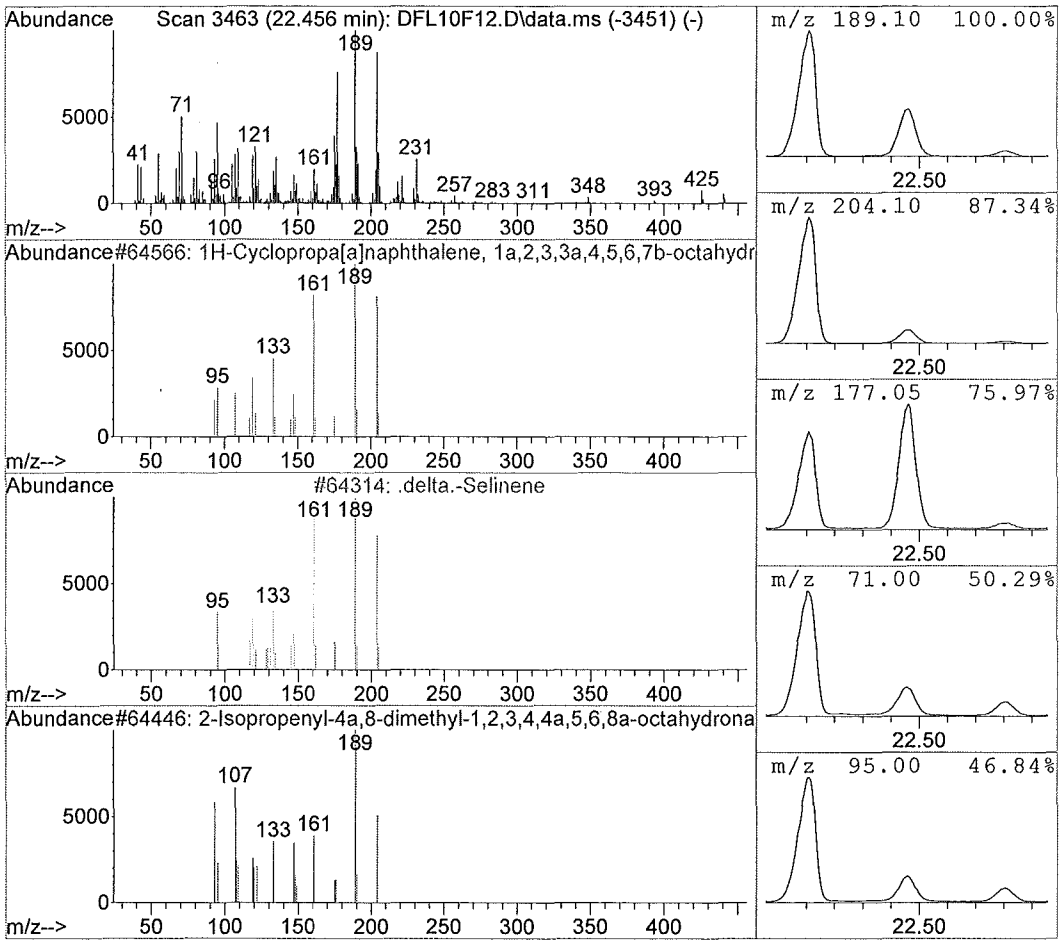
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.46	16.20 ug/ml	7409993	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	55.00
2	.delta.-Selinene	64314	028624-23-9	49.00
3	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64446	1000193-57-0	45.00
4	3,4-Dihydrocoumarin, 4,4,7,8-tetram	64130	040614-36-6	35.00
5	trans-.beta.-Ionone	54600	000079-77-6	35.00



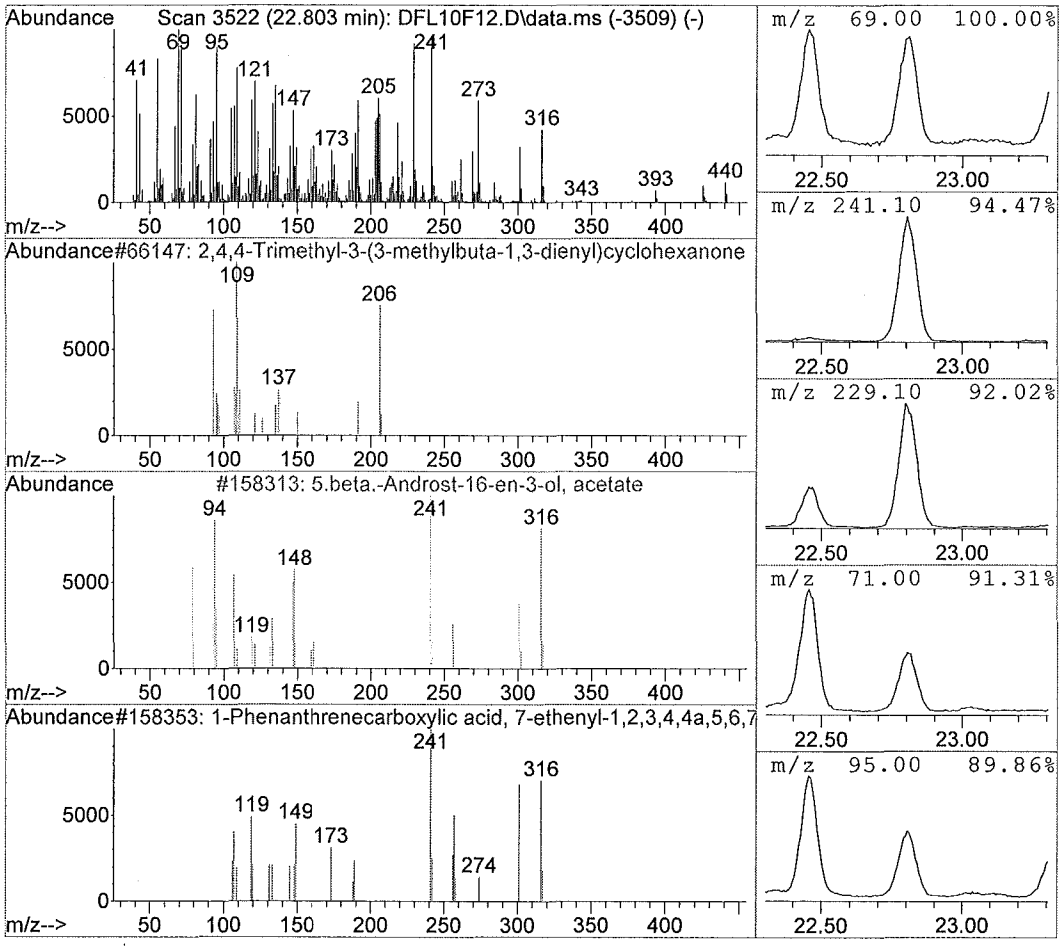
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.80	10.13 ug/ml	4635710	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,4,4-Trimethyl-3-(3-methylbuta-1,3	66147	097452-05-6	46.00
2	5.beta.-Androst-16-en-3-ol, acetate	158313	1000196-50-8	38.00
3	1-Phenanthrenecarboxylic acid, 7-et	158353	003582-26-1	35.00
4	Longipinane, (E)-	66197	1000156-14-5	35.00
5	Kaur-16-en-18-oic acid, methyl este	158326	005524-25-4	30.00



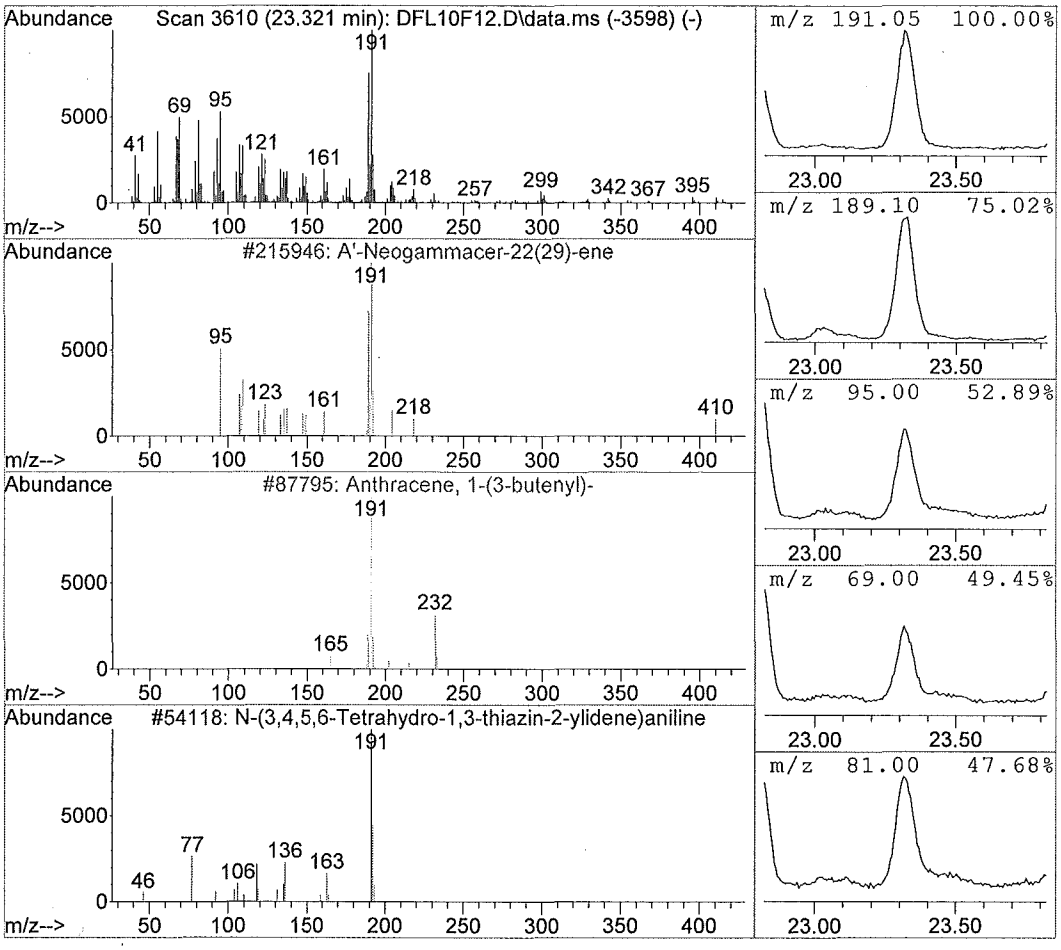
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.32	4.27 ug/ml	1955303	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	A'-Neogammacer-22(29)-ene	215946	001615-91-4	94.00
2	Anthracene, 1-(3-butenyl)-	87795	1000156-51-8	25.00
3	N-(3,4,5,6-Tetrahydro-1,3-thiazin-2	54118	003420-40-4	25.00
4	Amiphenazole	54042	000490-55-1	18.00
5	9-Methyltetracyclo[7.3.1.0(2.7).1(7	64405	1000215-30-5	18.00



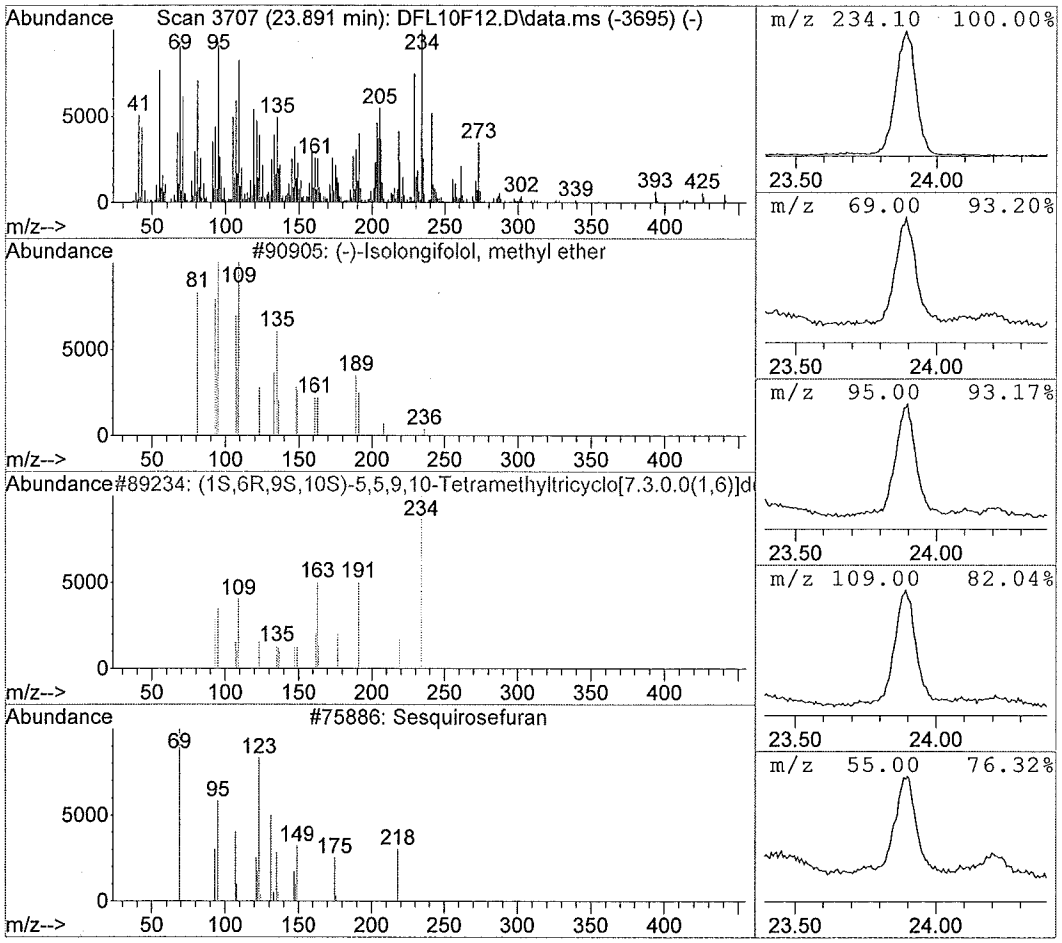
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.89	6.44 ug/ml	2946746	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(-)-Isolongifolol, methyl ether	90905	1000333-80-8	48.00
2	(1S,6R,9S,10S)-5,5,9,10-Tetramethyl	89234	1000298-98-1	38.00
3	Sesquirosefuran	75886	039007-93-7	25.00
4	2-Cyclohexene-1-carboxaldehyde, 2,6	77619	056772-07-7	25.00
5	Furan-2-carboxamide, N-ethyl-N-(3-m	85213	1000308-20-3	18.00



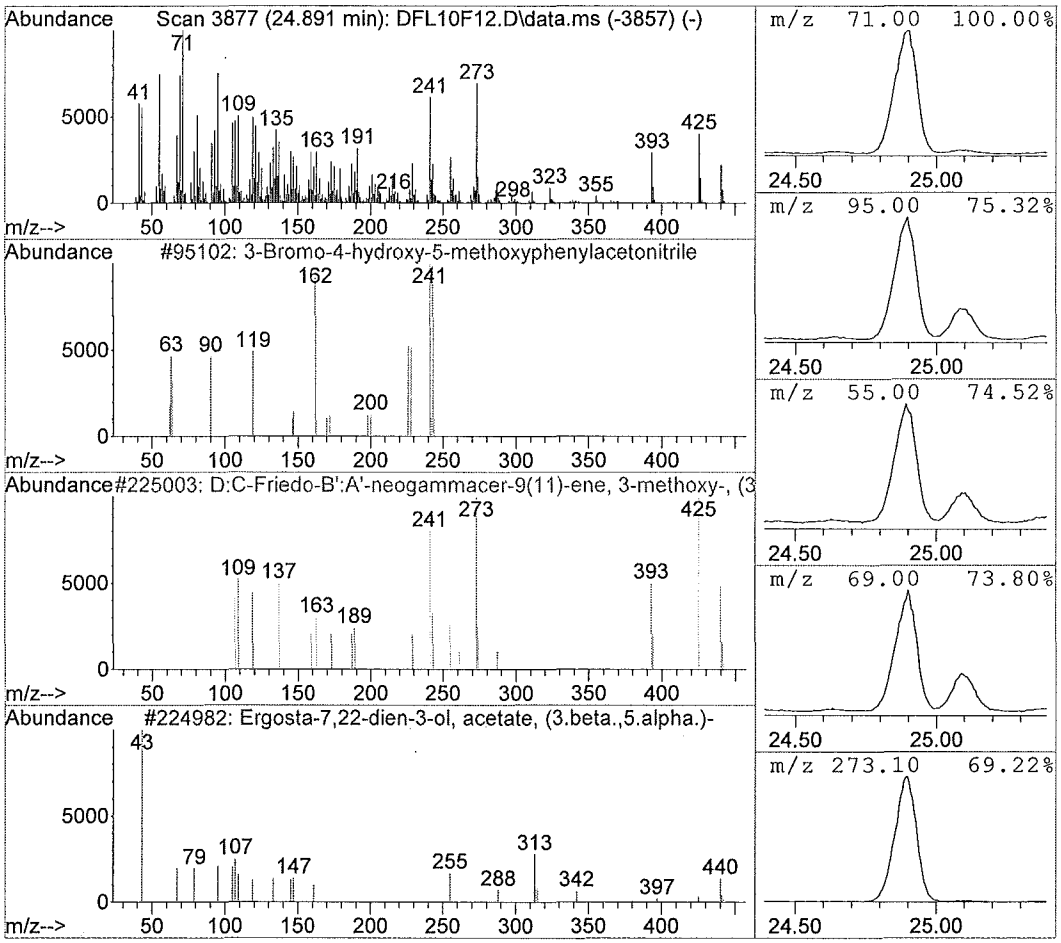
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.89	29.15 ug/ml	13336404	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Bromo-4-hydroxy-5-methoxyphenylac	95102	081038-44-0	53.00
2	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	46.00
3	Ergosta-7,22-dien-3-ol, acetate, (3	224982	001449-60-1	44.00
4	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	38.00
5	Lanosterol	221175	000079-63-0	38.00



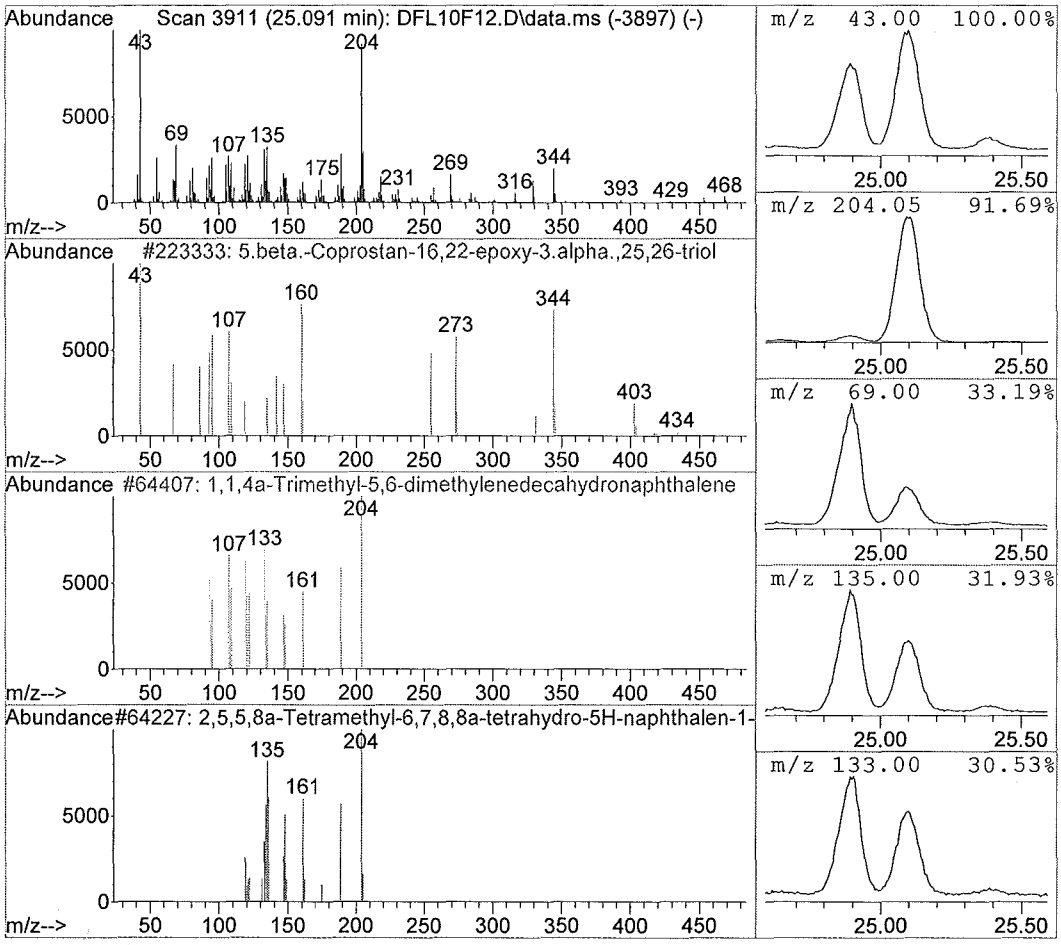
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL10F12.D Vial: 10
Acq On : 05/27/2015 13:53 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
25.09	10.77 ug/ml	4926223	Perylene-d12	9149792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5.beta.-Coprostan-16,22-epoxy-3.alp	223333	006911-23-5	53.00
2	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	50.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	46.00
5	9,11-Epoxytestosterone acetate	179972	1000128-13-7	44.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCL03F13

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCL03F13

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	57.	J
129-00-0	Pyrene	65.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	44.	J
218-01-9	Chrysene	77.	J
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	86.	J
207-08-9	Benzo(k)fluoranthene	25.	J
50-32-8	Benzo(a)pyrene	42.	J
193-39-5	Indeno(1,2,3-cd)pyrene	27.	J
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	23.	J
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCL03F13

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.19	160	JN
02	78-95-5	2-Propanone, 1-chloro-	2.26	160	JN
03		Unknown 1,2-Ethanediol	2.36	370	J
04		Unknown Methacrylamide	2.80	150	J
05		Unknown 4-Chloro-2-butanone	3.31	130	J
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6300	J
07		Unknown 1H-Pyrrole-2,5-dione	4.27	280	J
08		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	180	J
09		Unknown 2-Piperidinone	4.99	120	J
10		Unknown Pyrazinamide	6.63	81.	J
11		Unknown (2-Acetyl-5-methyl-cyclopentyl)-acetic a	7.17	170	J
12		Unknown Pentane, 3-bromo-	9.66	160	J
13	112-39-0	Hexadecanoic acid, methyl ester	12.40	92.	JN
14	53939-27-8	9-Tetradecenal, (Z)-	12.58	84.	JN
15	57-10-3	n-Hexadecanoic acid	12.66	420	JN
16	638-58-4	Tetradecanamide	12.77	130	JN
17		Unknown Nonanamide	14.16	310	J
18	301-02-0	9-Octadecenamide, (Z)-	15.09	2300	JN
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	180	J

[2] EPA-designated Registry Number.

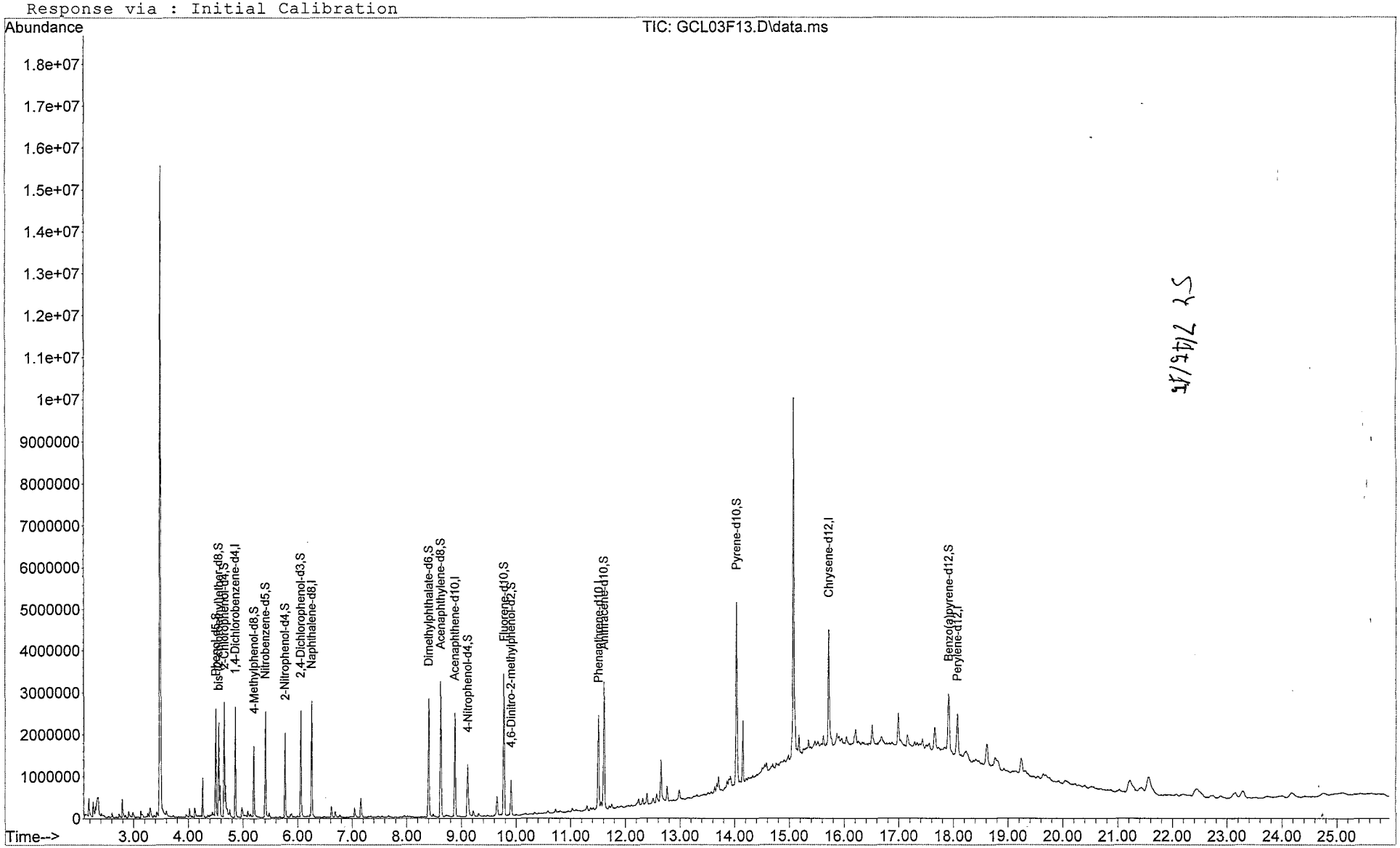
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D
Acq On : 07/06/2015 10:13
Sample : 1513978013 F9L30
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL

Quant Time: Jul 14 15:28:14 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



SY 7/14/15

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 14 15:28:14 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	4.86	152	367832	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1362826	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	799937	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1285709	20.00 ug/ml
73) Chrysene-d12	15.72	240	1156261	20.00 ug/ml
81) Perylene-d12	18.07	264	697412	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	839699	26.233ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	553786	22.200ug/mL
7) 2-Chlorophenol-d4	4.66	132	661158	24.463ug/ml
13) 4-Methylphenol-d8	5.20	113	374717	17.502ug/mL
17) Nitrobenzene-d5	5.42	128	308111	25.736ug/ml
21) 2-Nitrophenol-d4	5.77	143	337112	26.640ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	527005	26.745ug/mL
28) 4-Chloroaniline-d4	6.36	131	5040	0.234ug/mL
42) Dimethylphthalate-d6	8.41	166	1489592	29.696ug/mL
45) Acenaphthylene-d8	8.63	160	1895835	27.811ug/mL
50) 4-Nitrophenol-d4	9.12	143	282726	27.629ug/mL
57) Fluorene-d10	9.79	176	1275145	29.767ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	143945	15.774ug/mL
69) Anthracene-d10	11.62	188	1829451	26.832ug/mL
75) Pyrene-d10	14.04	212	1845735	31.987ug/mL
86) Benzo(a)pyrene-d12	17.92	264	901735	26.983ug/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:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 14 15:28:14 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

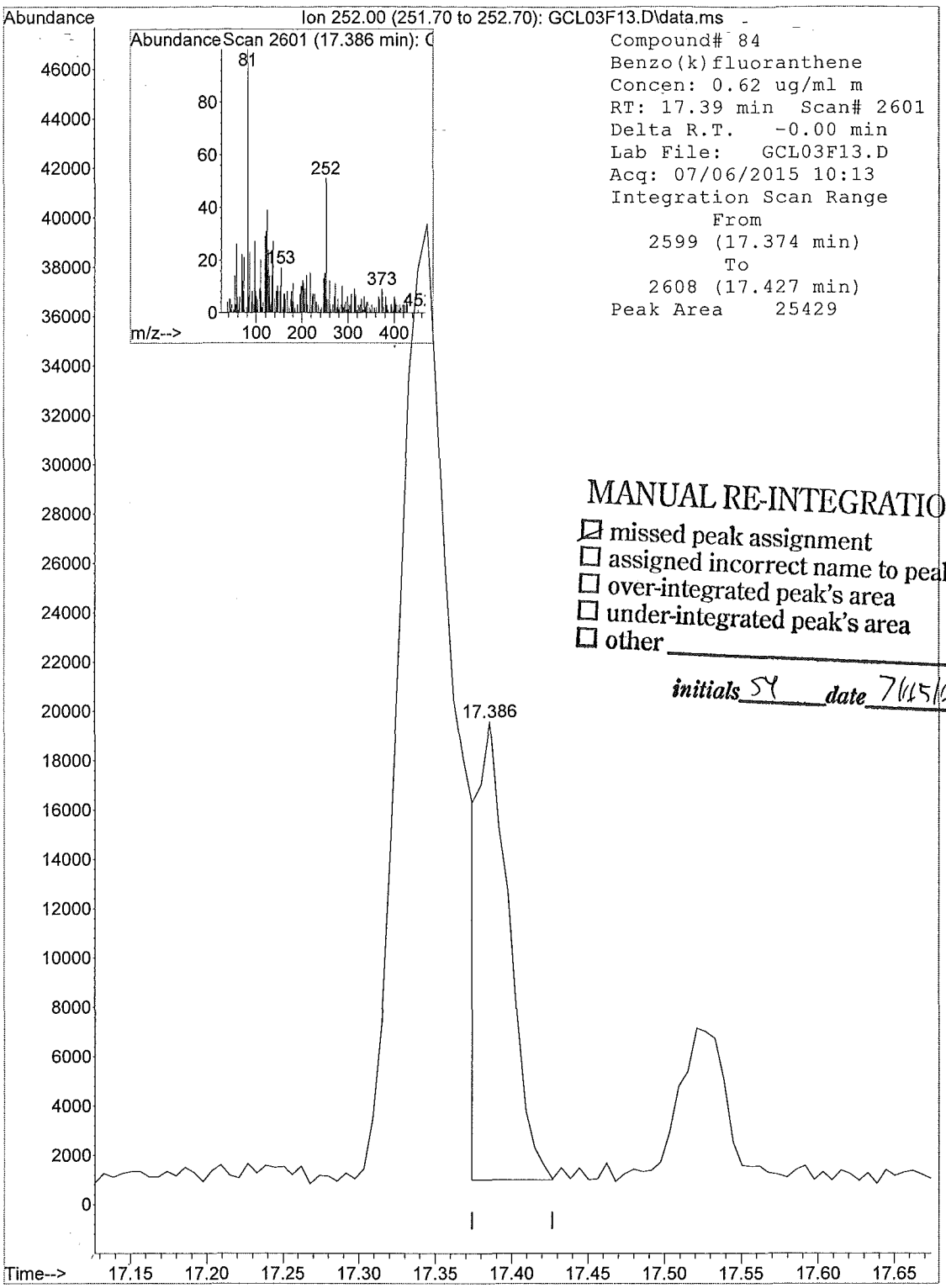
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
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	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	13.71	202	107149	1.418ug/ml	98
74)	Pyrene	14.06	202	119201	1.620ug/ml	63
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	76414	1.089ug/ml	93
79)	Chrysene	15.75	228	120408	1.901ug/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	93288	2.136ug/ml	95
84)	Benzo(k)fluoranthene	17.39	252	25429	0.616ug/ml m	94
85)	Benzo(a)pyrene	17.96	252	42491	1.034ug/ml m	95
87)	Indeno(1,2,3-c,d)pyrene	20.72	276	24696	0.679ug/ml	59
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.54	276	20264	0.566ug/ml	83

7/15/15

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

: 00585

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

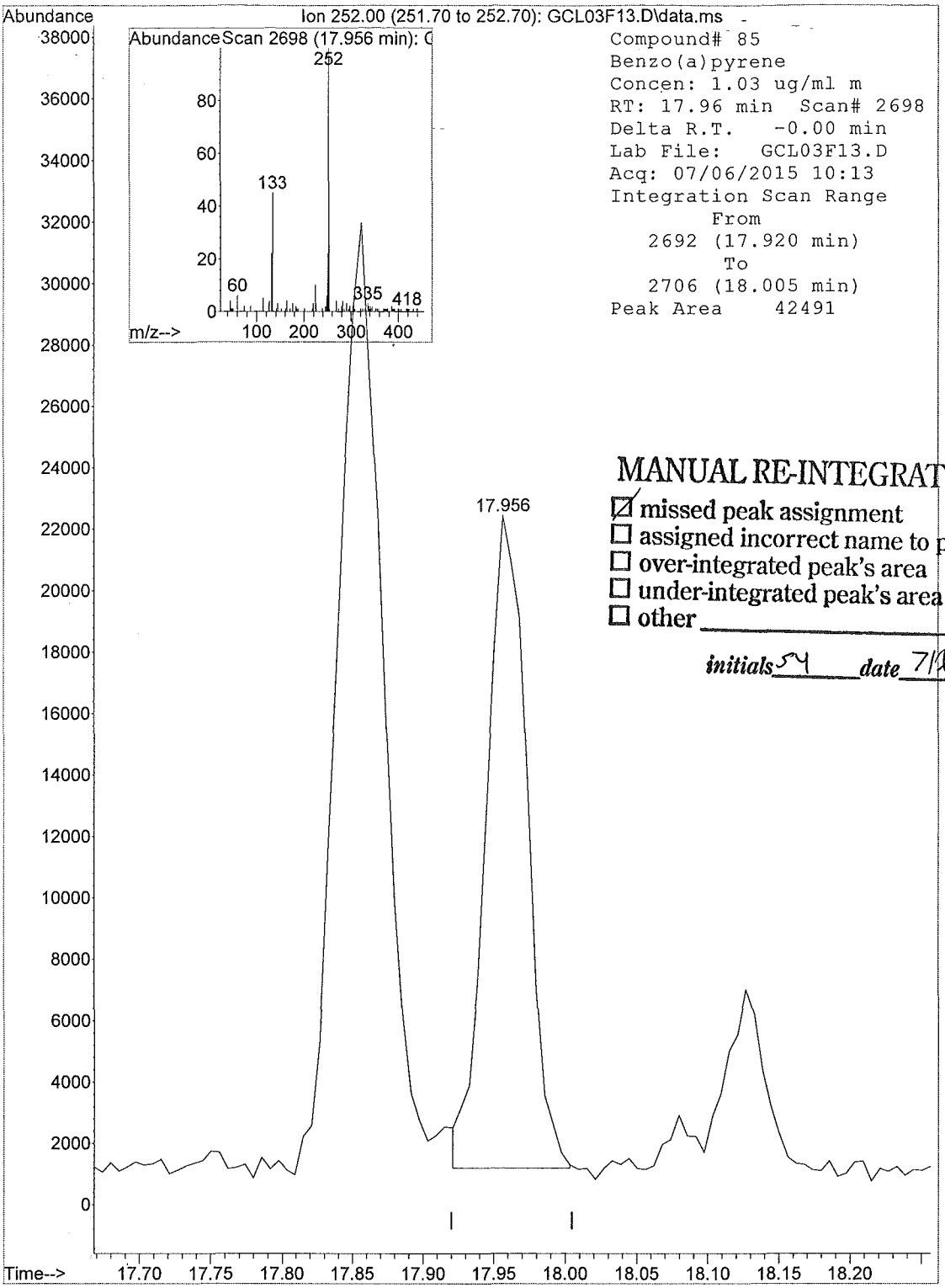


MANUAL RE-INTEGRATION

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

initials SY *date* 7/15/15

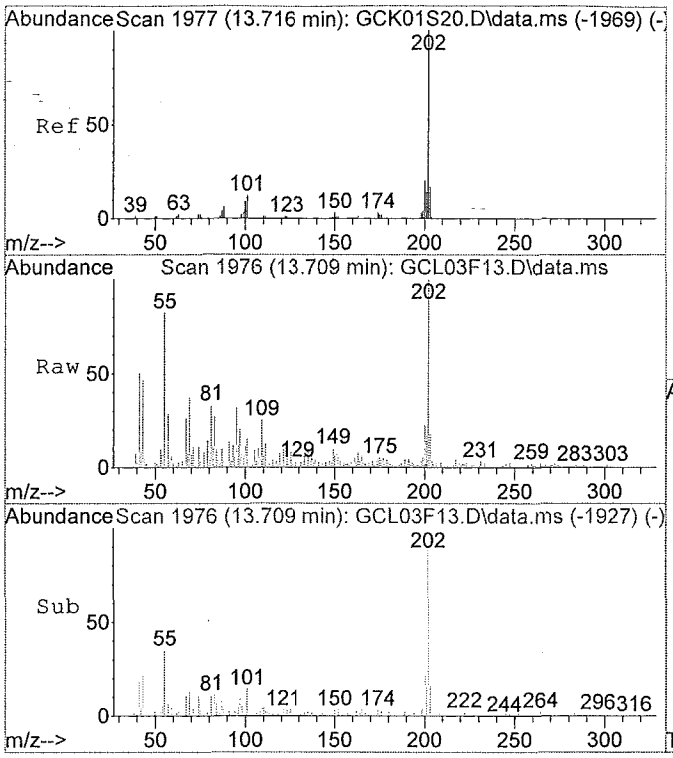
M A N U A L I N T E G R A T I O N FOR Benzo(a)pyrene



MANUAL RE-INTEGRATION

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

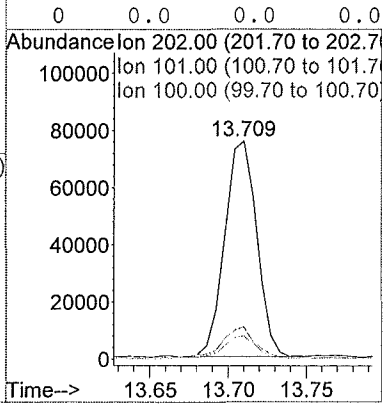
initials SY *date* 7/15/15

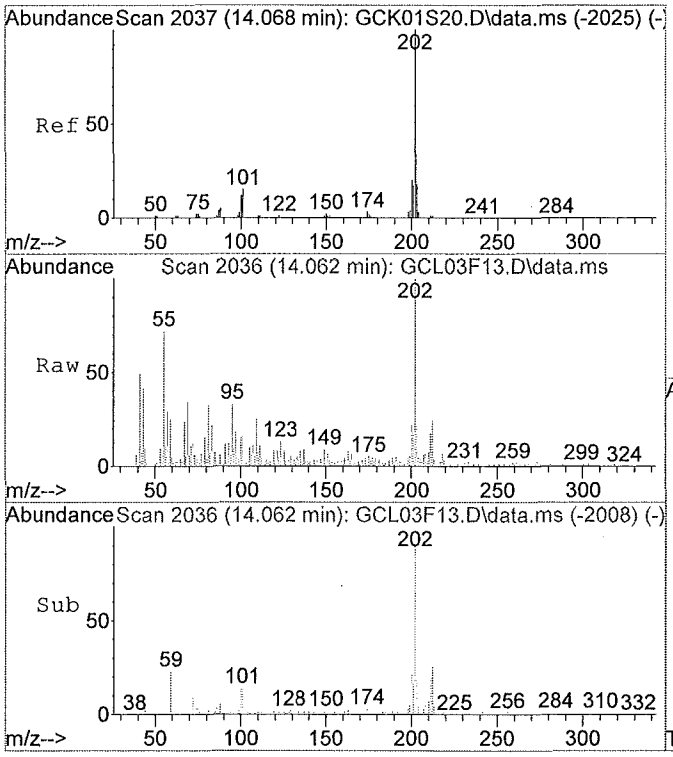


#72
Fluoranthene
Concen: 1.42 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.00 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:202 Resp: 107149

Ion	Ratio	Lower	Upper
202	100		
101	14.5	10.5	19.5
100	11.5	7.4	13.8
0	0.0	0.0	0.0

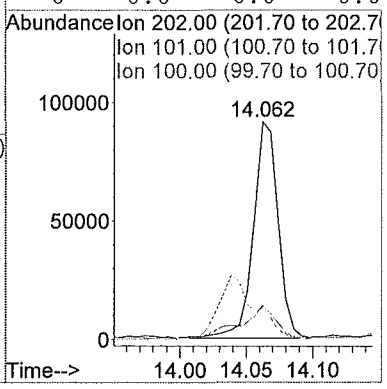


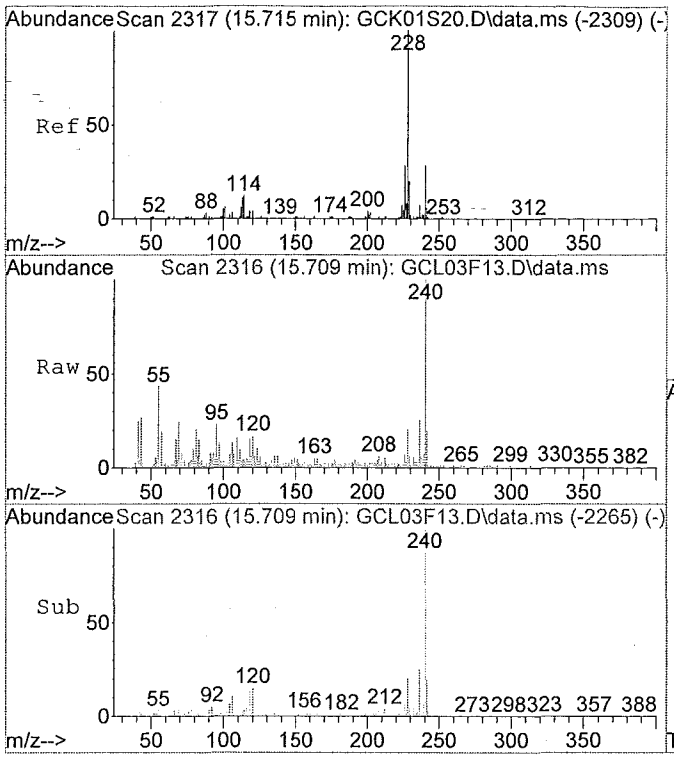


#74
Pyrene
Concen: 1.62 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:202 Resp: 119201

Ion	Ratio	Lower	Upper
202	100		
101	22.5	12.2	22.7
100	42.1	10.1	18.7#
0	0.0	0.0	0.0

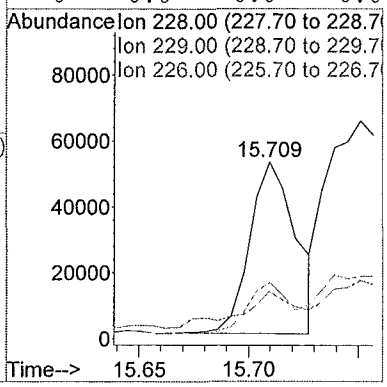


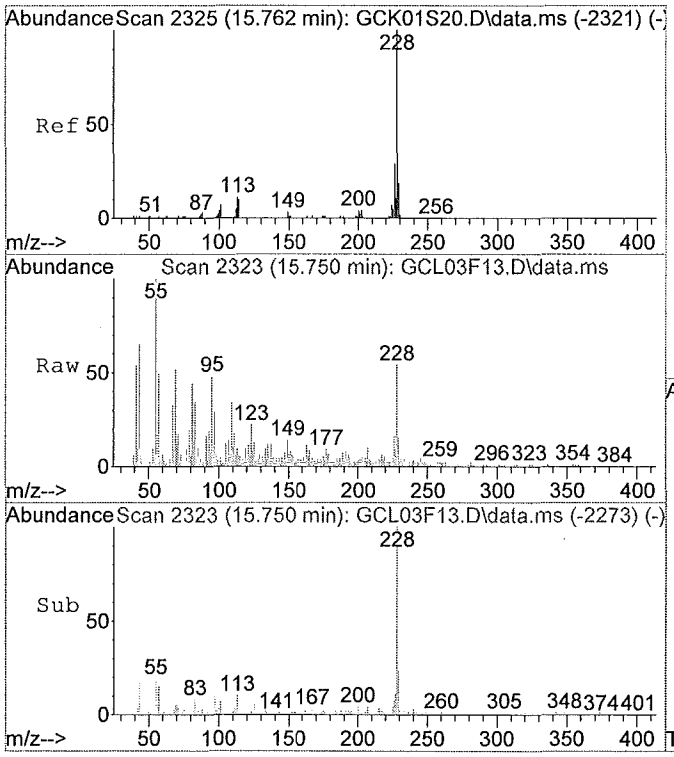


#78
Benzo(a)anthracene
Concen: 1.09 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.00 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:228 Resp: 76414

Ion	Ratio	Lower	Upper
228	100		
229	26.0	13.7	25.5#
226	27.1	18.2	33.8
0	0.0	0.0	0.0

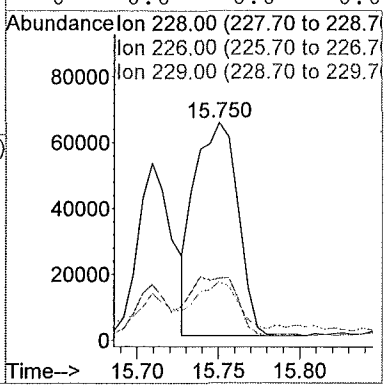


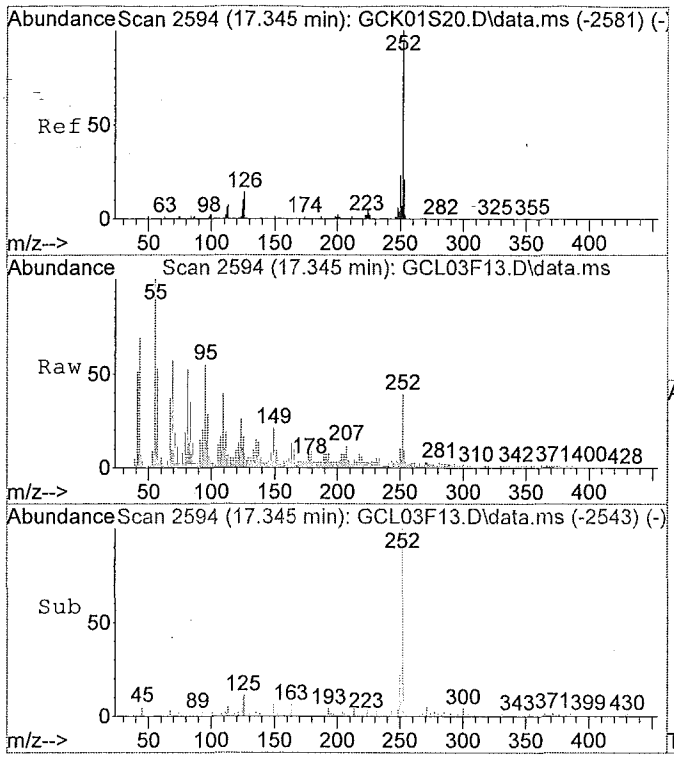


#79
Chrysene
Concen: 1.90 ug/ml
RT: 15.75 min Scan# 2323
Delta R.T. -0.01 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:228 Resp: 120408

Ion	Ratio	Lower	Upper
228	100		
226	31.4	20.1	37.3
229	21.6	13.7	25.5
0	0.0	0.0	0.0

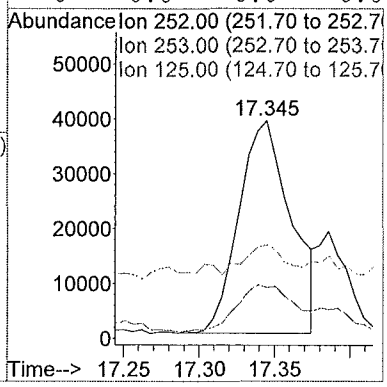


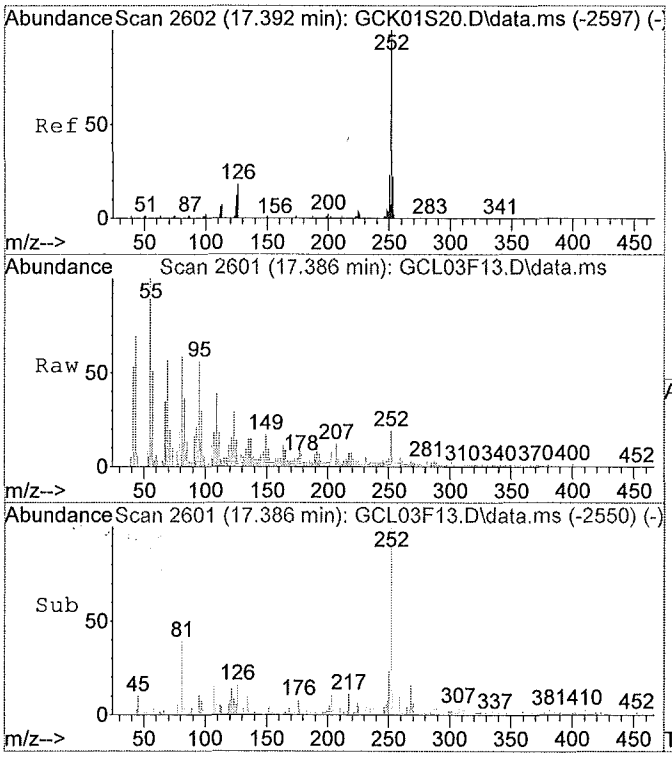


#83
Benzo(b)fluoranthene
Concen: 2.14 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. 0.01 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:252 Resp: 93288

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.1	28.1
125	13.7	10.6	19.8
0	0.0	0.0	0.0

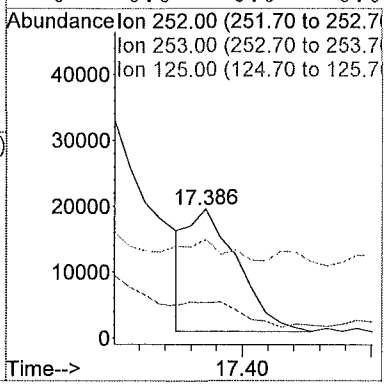


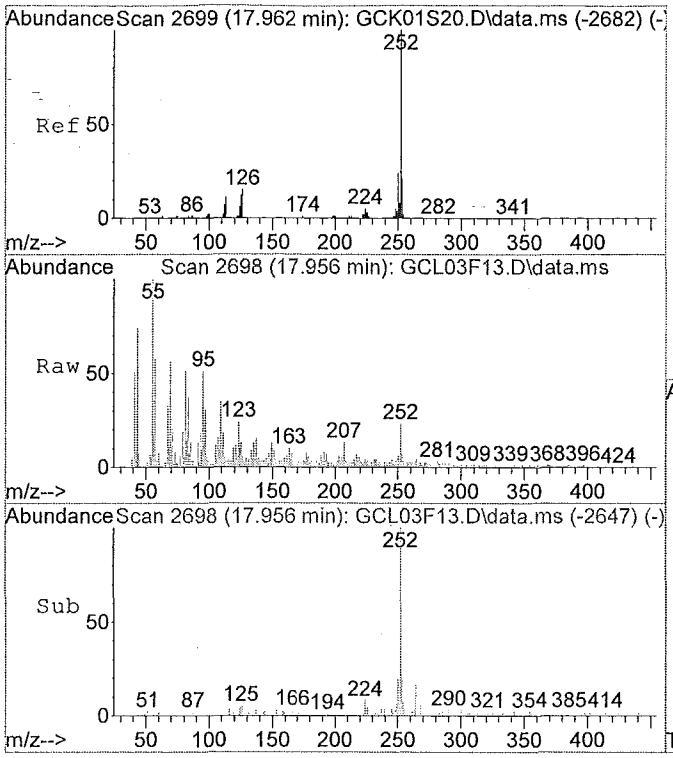


#84
Benzo(k)fluoranthene
Concen: 0.62 ug/ml m
RT: 17.39 min Scan# 2601
Delta R.T. -0.00 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:252 Resp: 25429

Ion	Ratio	Lower	Upper
252	100		
253	88.9	15.1	28.1#
125	44.8	10.7	19.9#
0	0.0	0.0	0.0

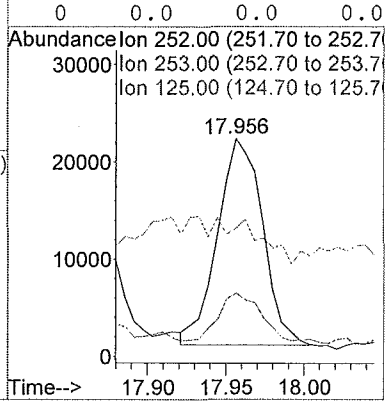


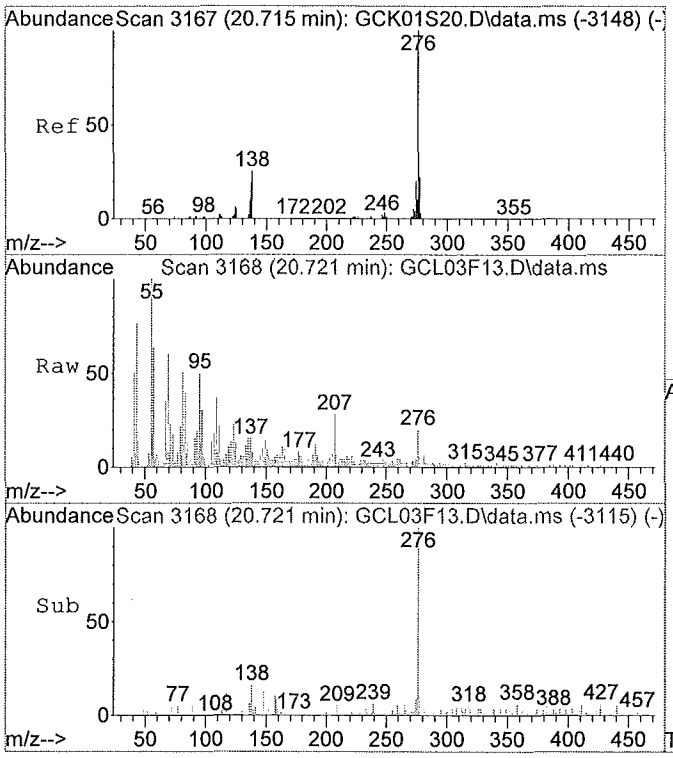


#85
Benzo(a)pyrene
Concen: 1.03 ug/ml m
RT: 17.96 min Scan# 2698
Delta R.T. -0.00 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:252 Resp: 42491

Ion	Ratio	Lower	Upper
252	100		
253	39.1	15.2	28.2#
125	31.7	11.8	21.8#
0	0.0	0.0	0.0

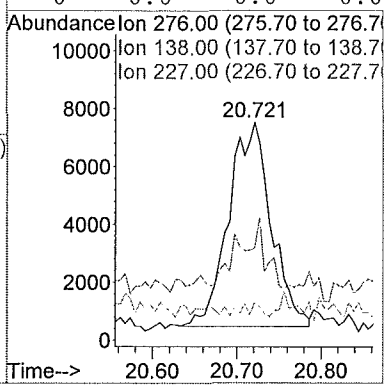


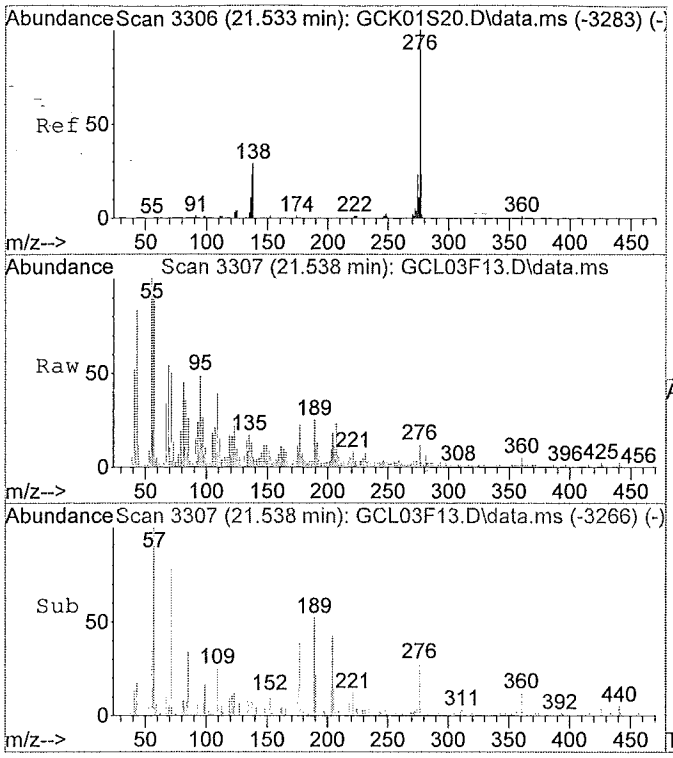


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.68 ug/ml
RT: 20.72 min Scan# 3168
Delta R.T. 0.01 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:276 Resp: 24696

Ion	Ratio	Lower	Upper
276	100		
138	8.8	22.3	41.5#
227	0.0	0.1	0.1#
0	0.0	0.0	0.0

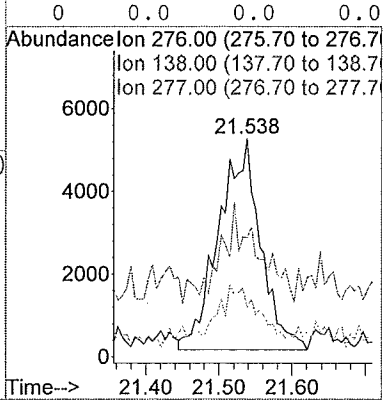




#89
Benzo(g,h,i)perylene
Concen: 0.57 ug/ml
RT: 21.54 min Scan# 3307
Delta R.T. 0.01 min
Lab File: GCL03F13.D
Acq: 07/06/2015 10:13

Tgt Ion:276 Resp: 20264

Ion	Ratio	Lower	Upper
276	100		
138	20.0	24.1	44.7#
277	20.9	16.7	30.9
0	0.0	0.0	0.0



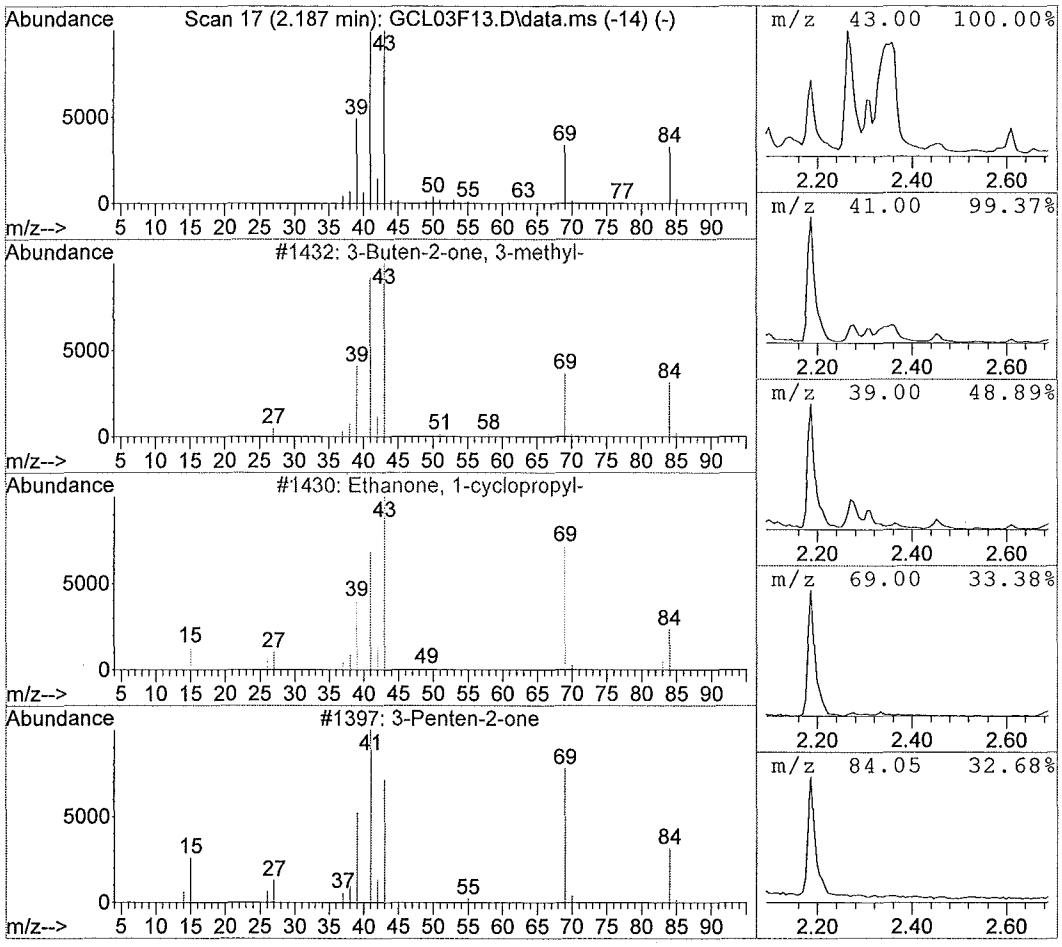
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.19	3.90 ug/ml	505766	1,4-Dichlorobenzene-d4	2594536

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	80.00
3	3-Penten-2-one	1397	000625-33-2	45.00
4	Methacrolein	518	000078-85-3	38.00
5	Dicyclopropyl carbinol	6505	014300-33-5	33.00



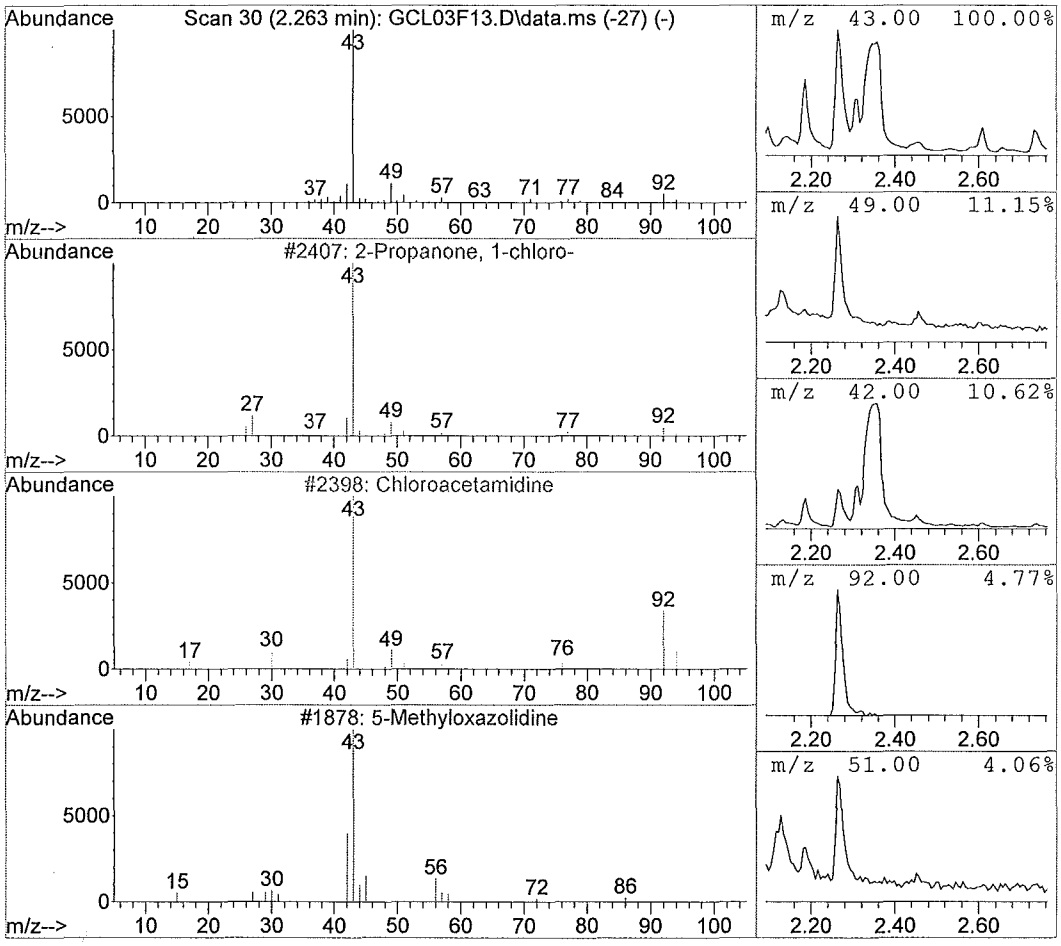
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	3.87 ug/ml	501689	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	91.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	5-Methyloxazolidine	1878	058328-22-6	4.00
4	(Aminomethyl)cyclopropane	621	002516-47-4	4.00
5	2-Butanone	653	000078-93-3	4.00



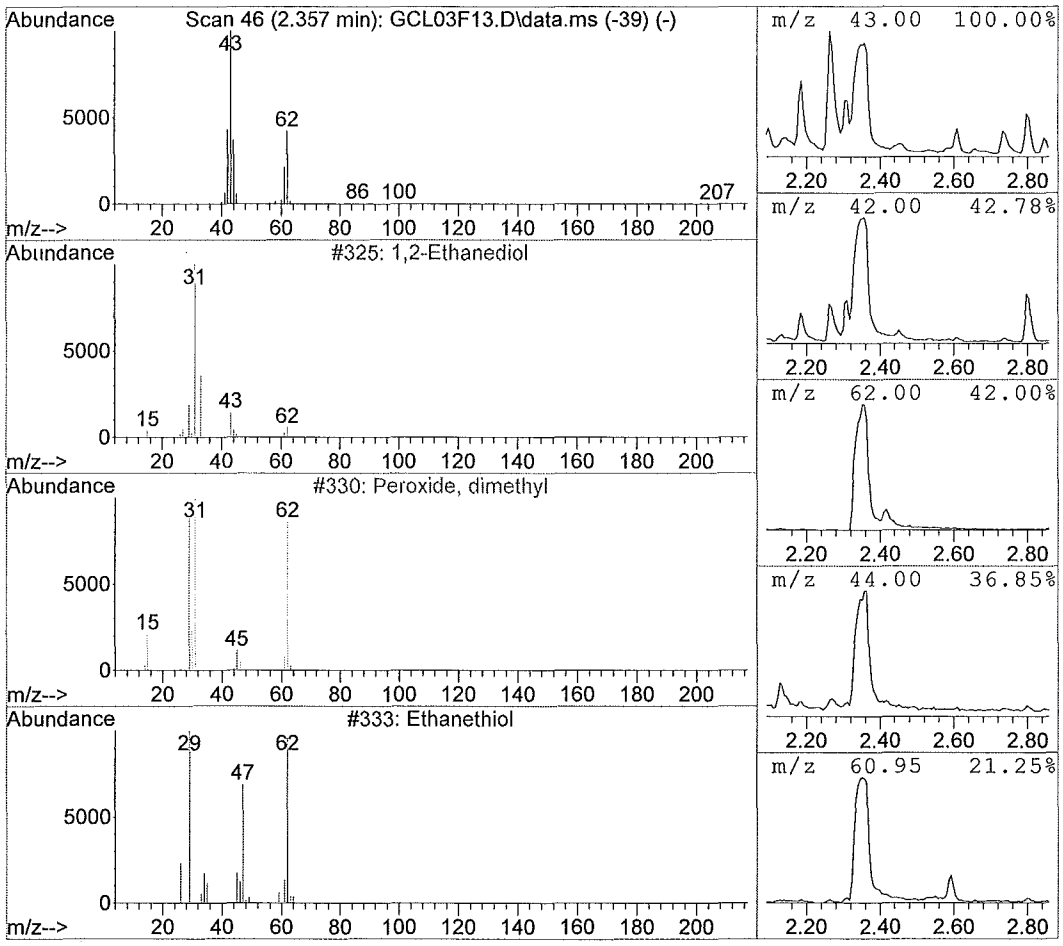
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.36	9.26 ug/ml	1200891	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Peroxide, dimethyl	330	000690-02-8	7.00
3	Ethanethiol	333	000075-08-1	5.00
4	Ethene, chloro-	323	000075-01-4	5.00
5	Glyceraldehyde	2255	000056-82-6	4.00



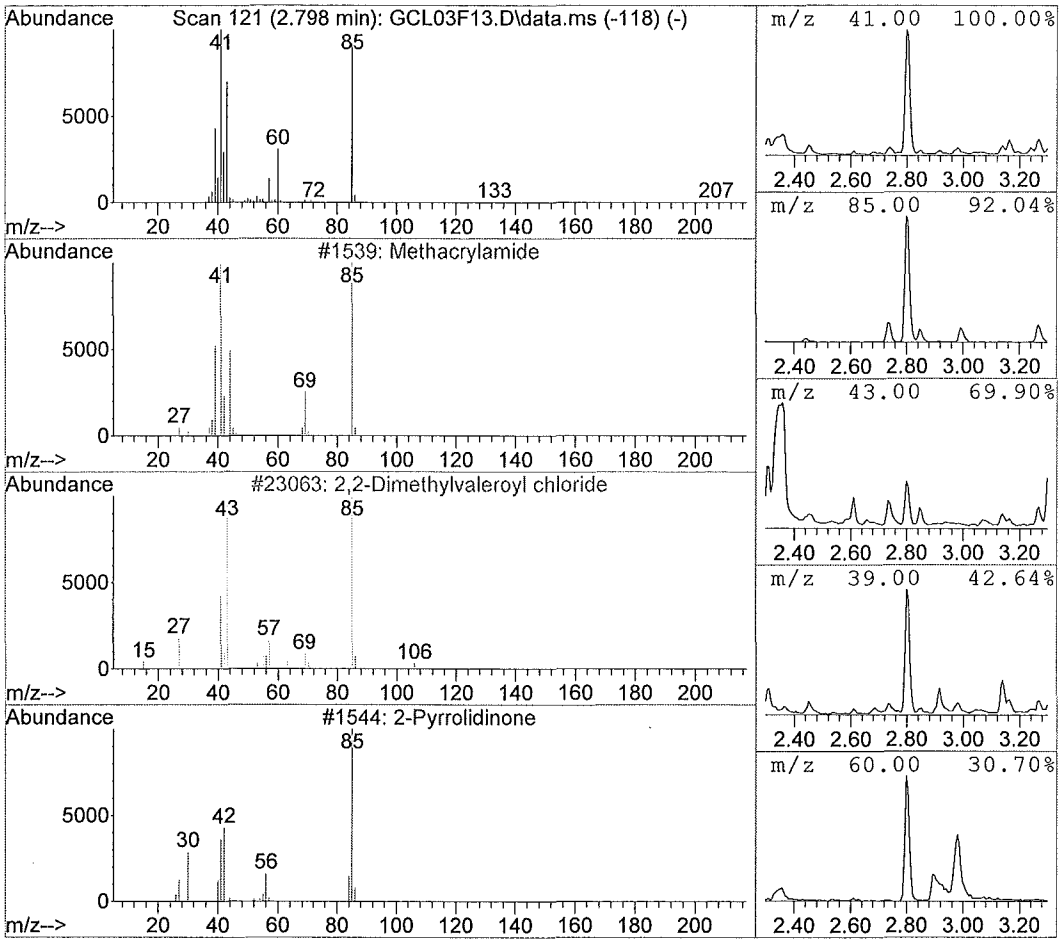
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	3.76 ug/ml	487655	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	42.00
2	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00
3	2-Pyrrolidinone	1544	000616-45-5	23.00
4	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	23.00
5	Thiazole	1535	000288-47-1	17.00



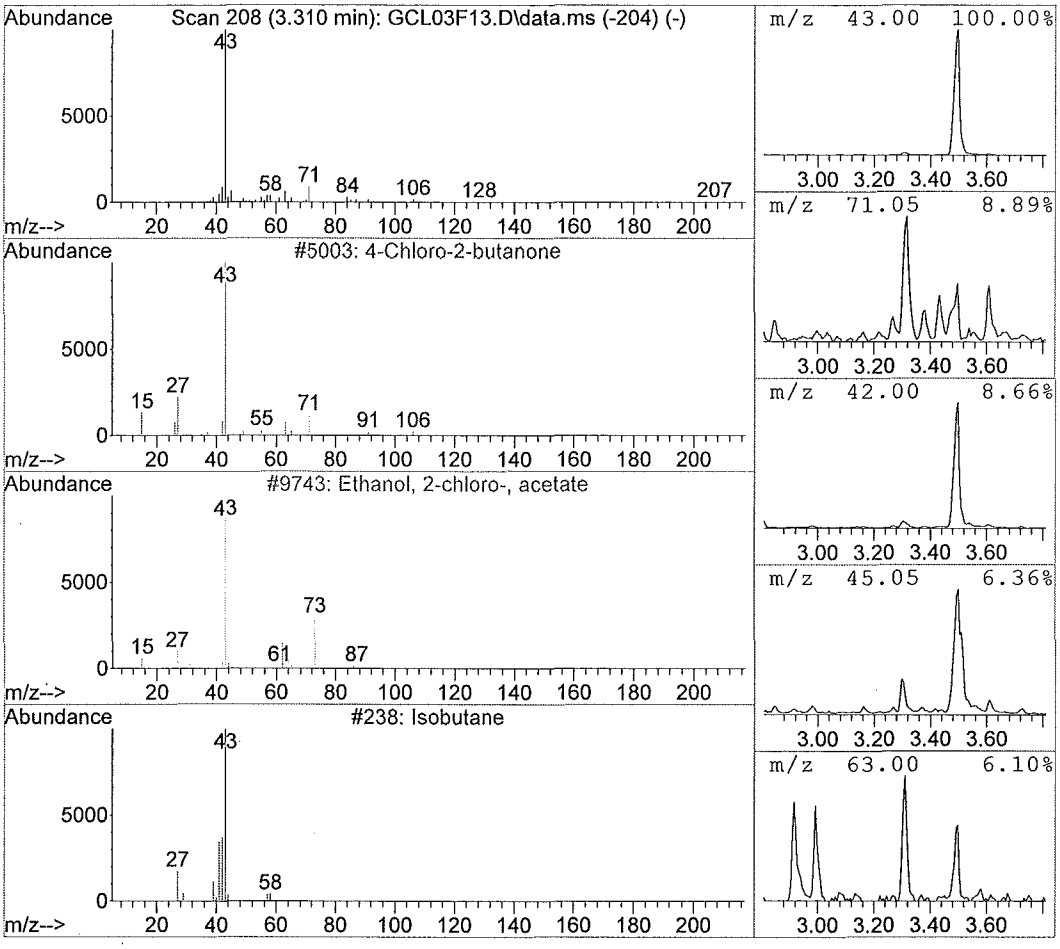
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.31	3.11 ug/ml	403854	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	53.00
2	Ethanol, 2-chloro-, acetate	9743	000542-58-5	33.00
3	Isobutane	238	000075-28-5	23.00
4	2,3-Butanedione	1661	000431-03-8	17.00
5	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	9.00



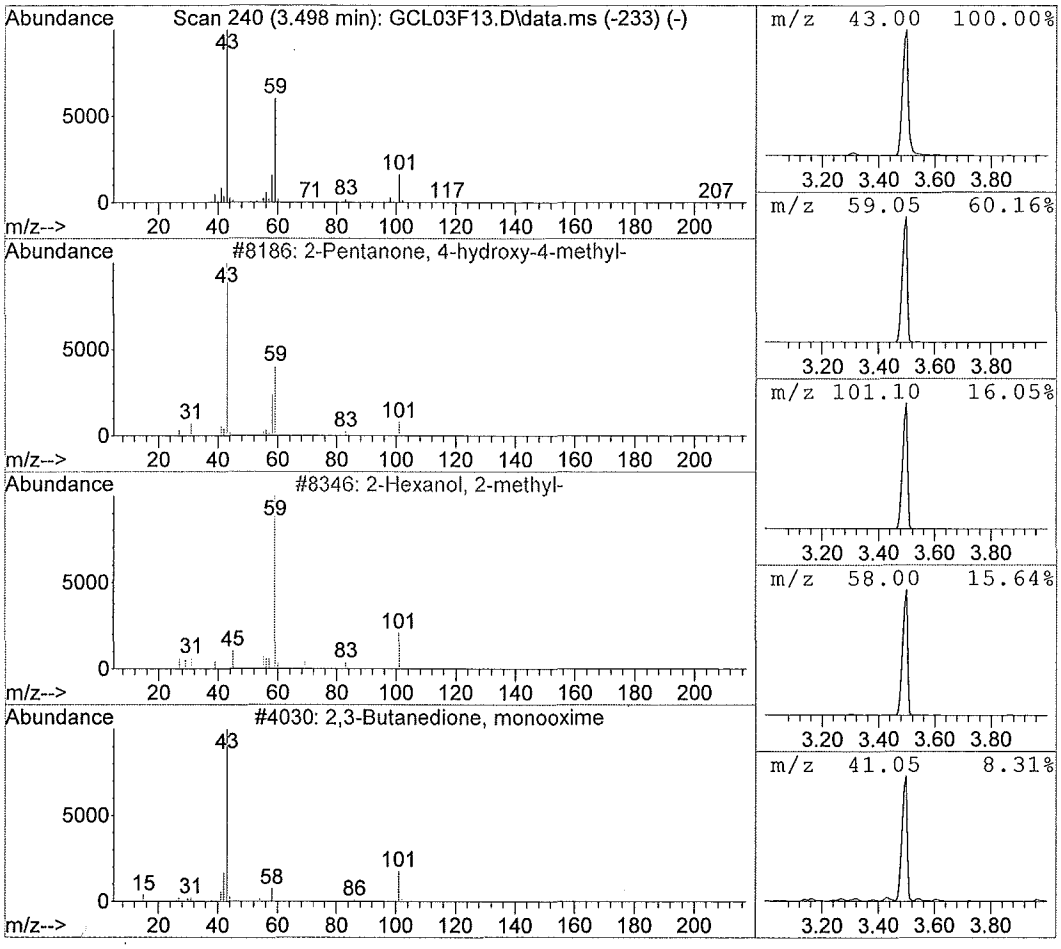
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	156.92 ug/ml	20356966	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Butyl aldoxime, 3-methyl-, syn-	4119	005780-40-5	9.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	9.00



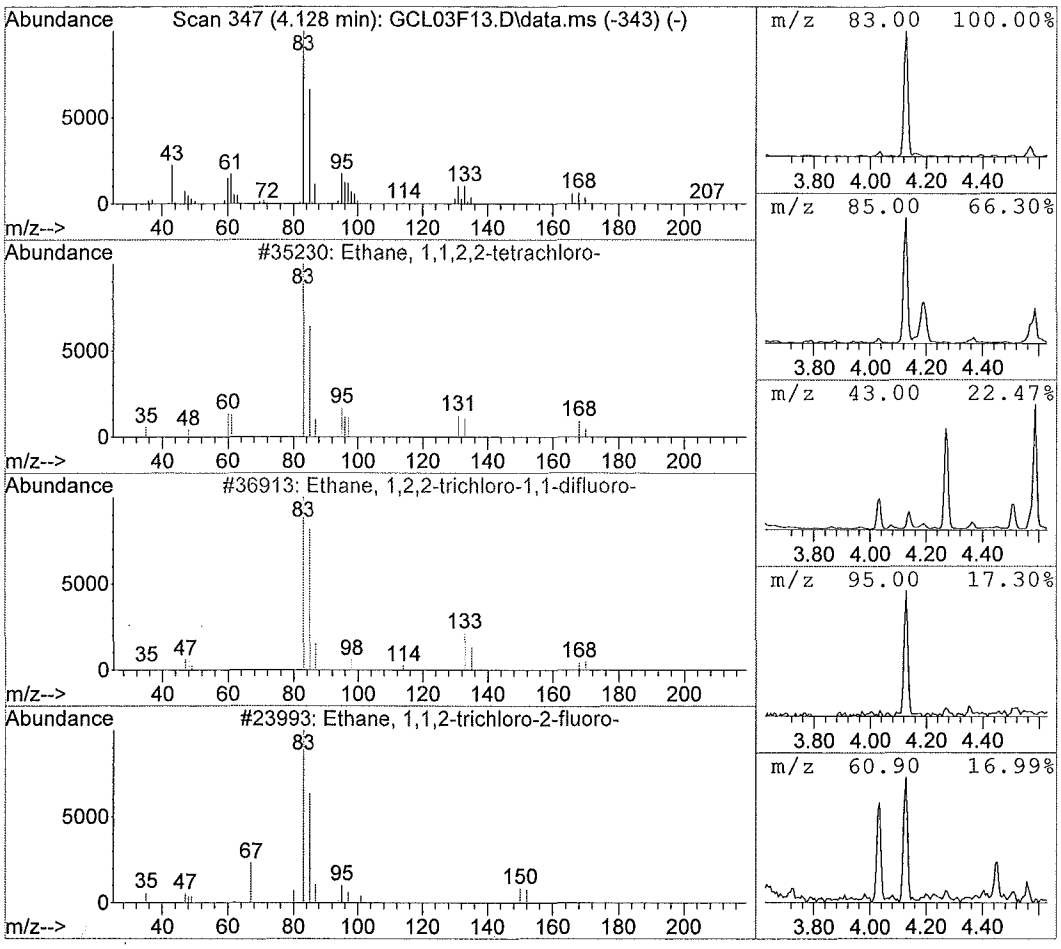
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.31 ug/ml	299357	1,4-Dichlorobenzene-d4	2594536

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	70.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00
5	Methane, oxybis[dichloro-	47352	020524-86-1	42.00



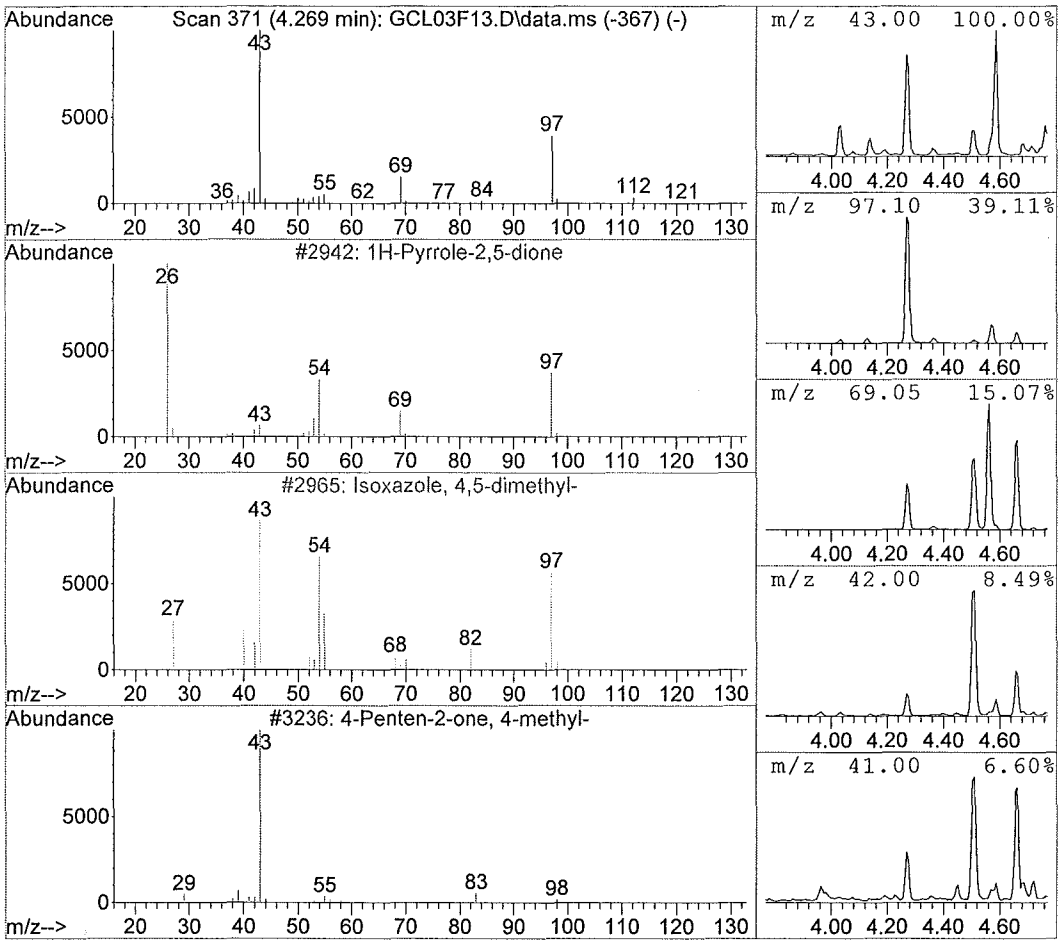
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	7.04 ug/ml	912754	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
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	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	5-Hexen-2-one	3158	000109-49-9	9.00



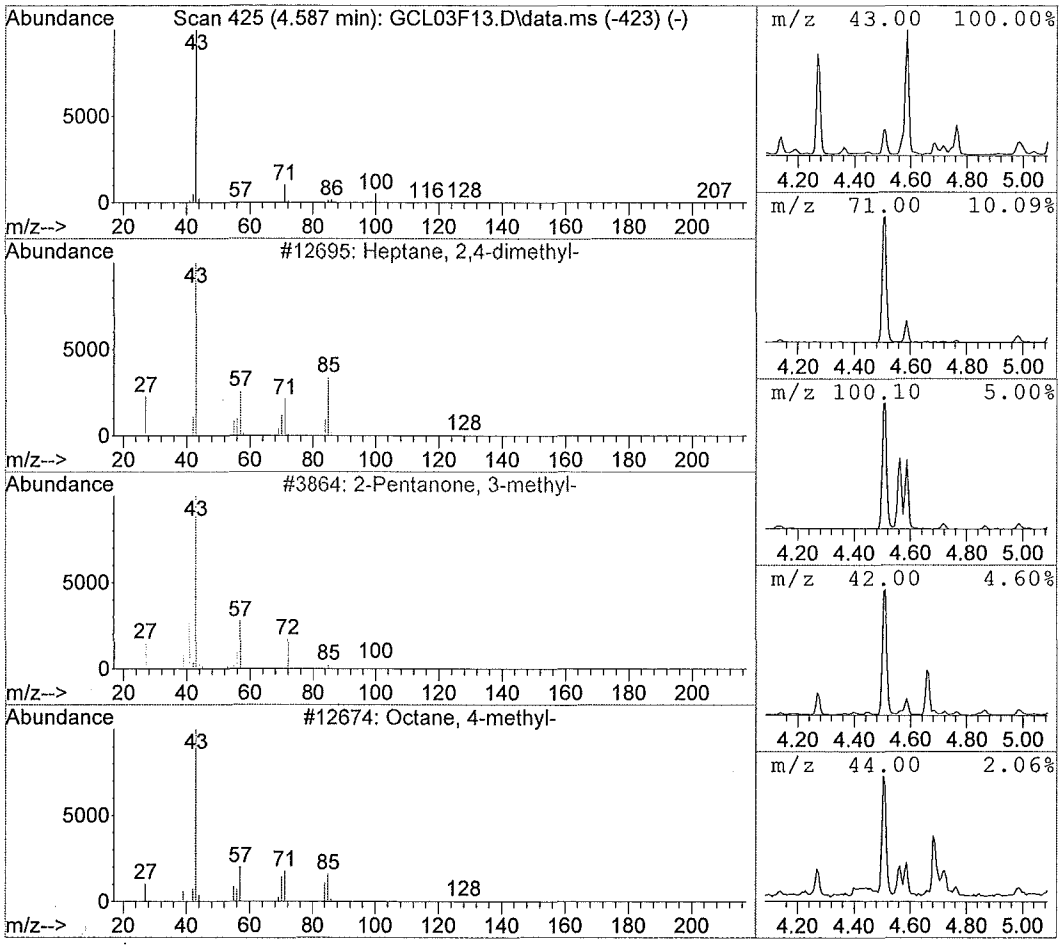
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	4.50 ug/ml	583888	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12695	002213-23-2	7.00
2	2-Pentanone, 3-methyl- BA	3864	000565-61-7	5.00
3	Octane, 4-methyl-	12674	002216-34-4	5.00
4	Heptane	3972	000142-82-5	5.00
5	Heptane, 2,3-dimethyl-	12694	003074-71-3	5.00



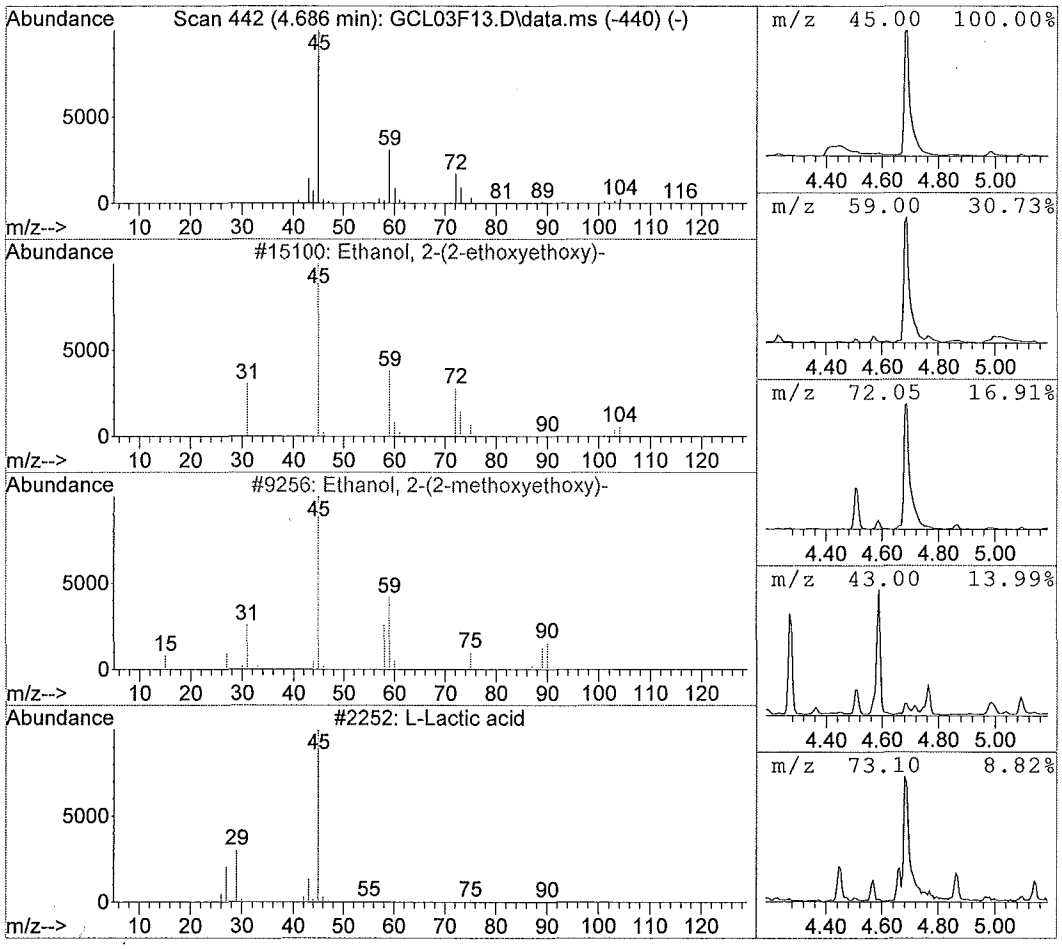
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	4.33 ug/ml	562158	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	47.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	L-Lactic acid	2252	000079-33-4	9.00
4	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00
5	Methoxyacetic acid, butyl ester	21952	017640-22-1	9.00



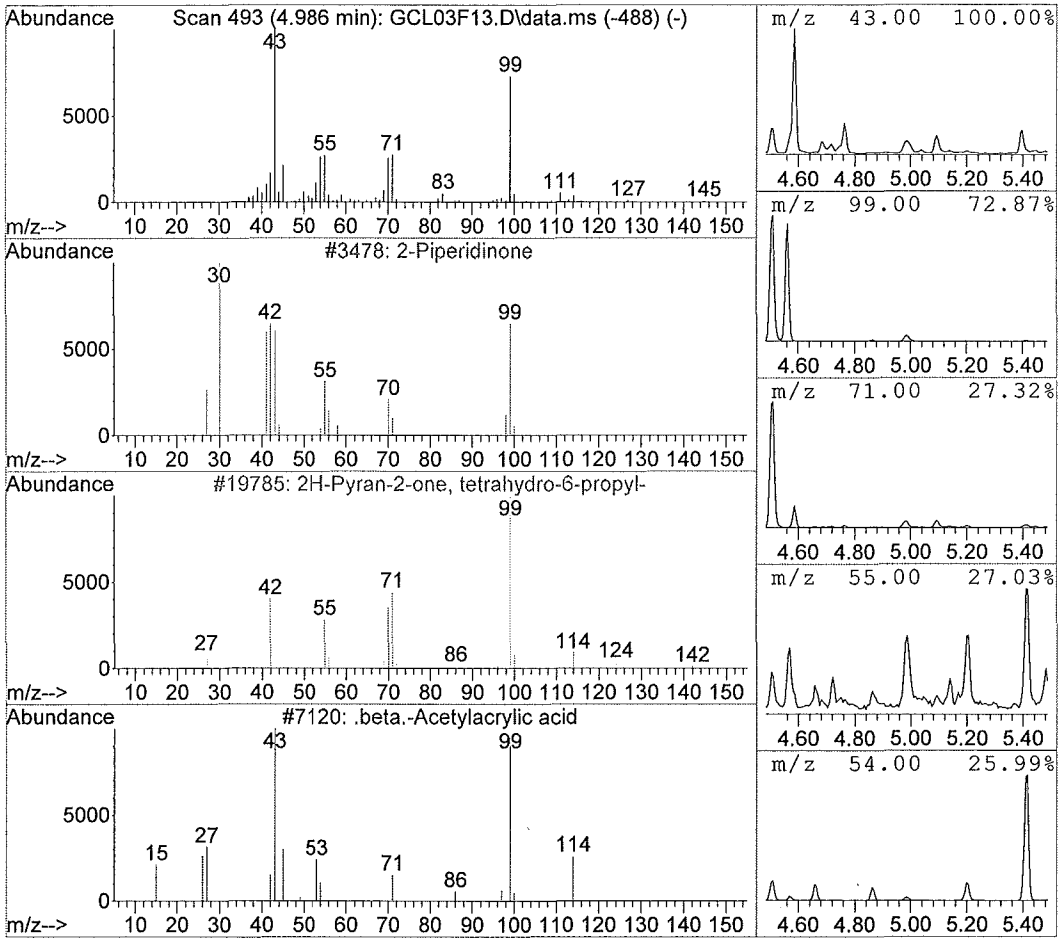
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.99	2.96 ug/ml	384464	1,4-Dichlorobenzene-d4	2594536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Piperidinone	3478	000675-20-7	38.00
2	2H-Pyran-2-one, tetrahydro-6-propyl	19785	000698-76-0	38.00
3	.beta.-Acetylacrylic acid	7120	004743-82-2	38.00
4	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	38.00
5	.delta.-Nonalactone	28964	003301-94-8	37.00



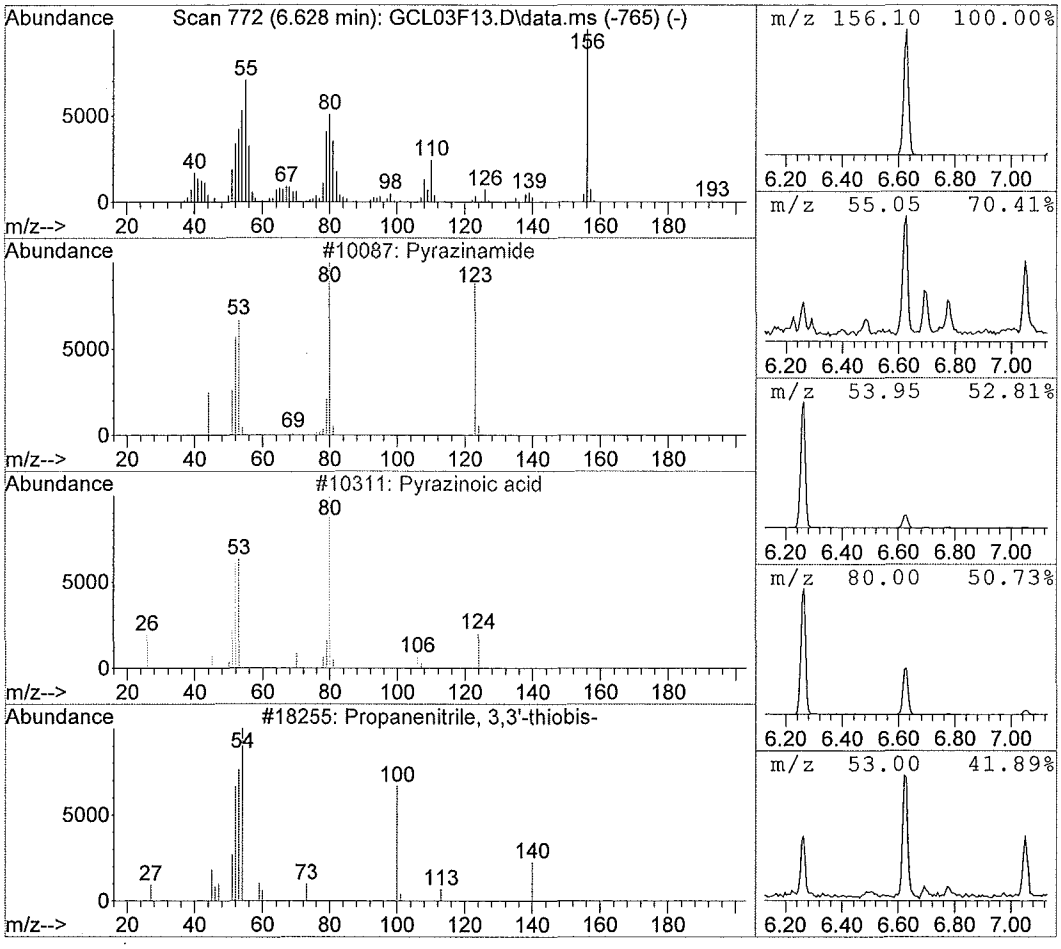
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.01 ug/ml	311592	Naphthalene-d8	3099617

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrazinamide	10087	000098-96-4	47.00
2	Pyrazinoic acid	10311	000098-97-5	43.00
3	Propanenitrile, 3,3'-thiobis-	18255	000111-97-7	25.00
4	6,7-Dihydro-[1,2-e]-5H-pyrrolotetra	5673	005817-87-8	25.00
5	2,3-Pyrazinedicarboxylic acid	37029	000089-01-0	23.00



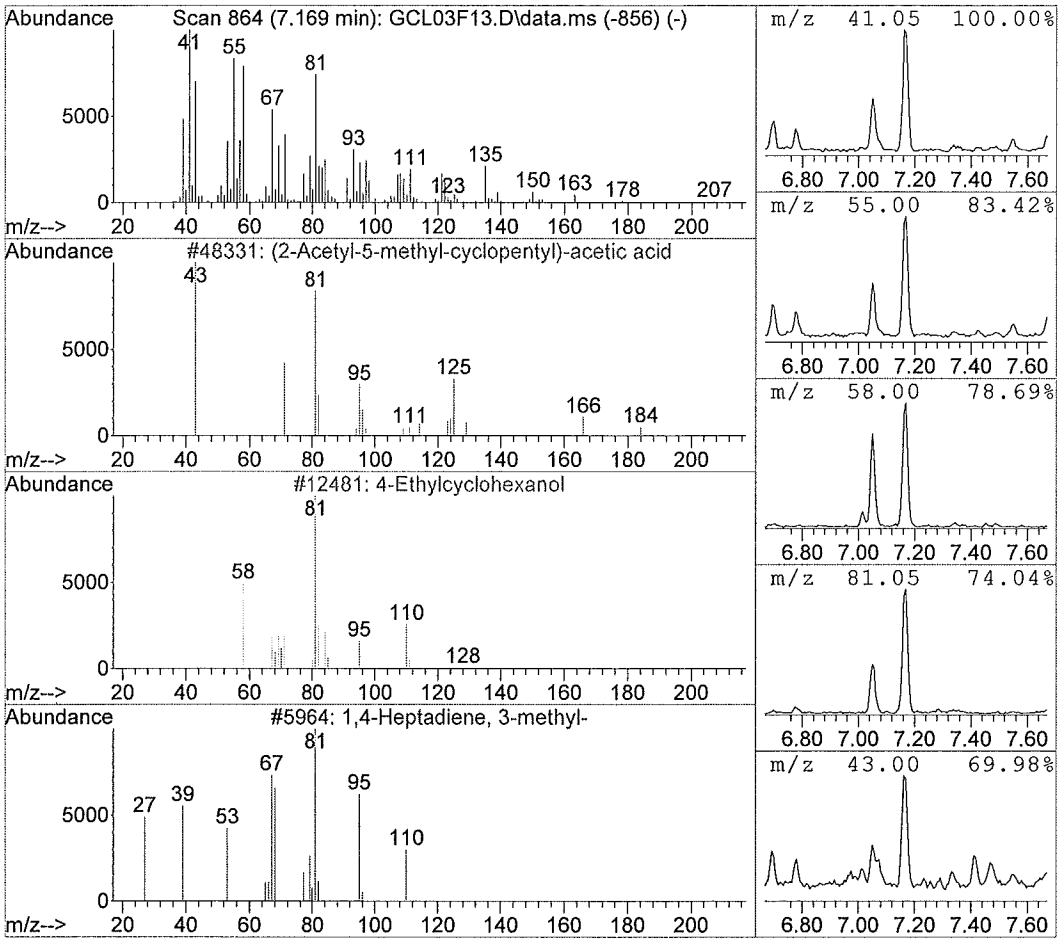
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	4.08 ug/ml	633019	Naphthalene-d8	3099617

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(2-Acetyl-5-methyl-cyclopentyl)-ace	48331	1000187-30-8	27.00
2	4-Ethylcyclohexanol	12481	004534-74-1	27.00
3	1,4-Heptadiene, 3-methyl-	5964	001603-01-6	27.00
4	2-Butanone, 1-(2-furanyl)-3-methyl-	26027	020907-04-4	22.00
5	Cis-4-methyl-exo-tricyclo[5.2.1.0(2	23979	1000215-29-2	22.00



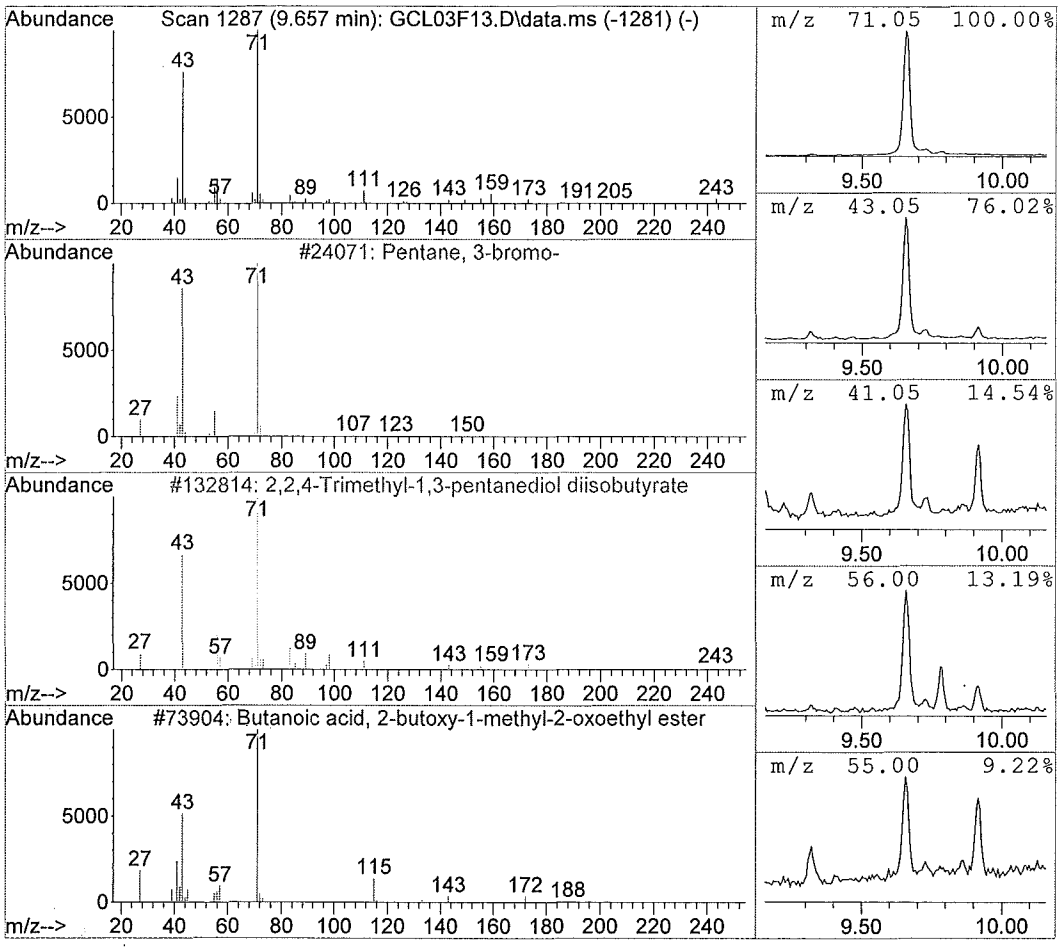
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	4.07 ug/ml	690907	Acenaphthene-d10	3396765

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 3-bromo-	24071	001809-10-5	59.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	56.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	56.00
4	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	50.00
5	4-Heptanone	7439	000123-19-3	45.00



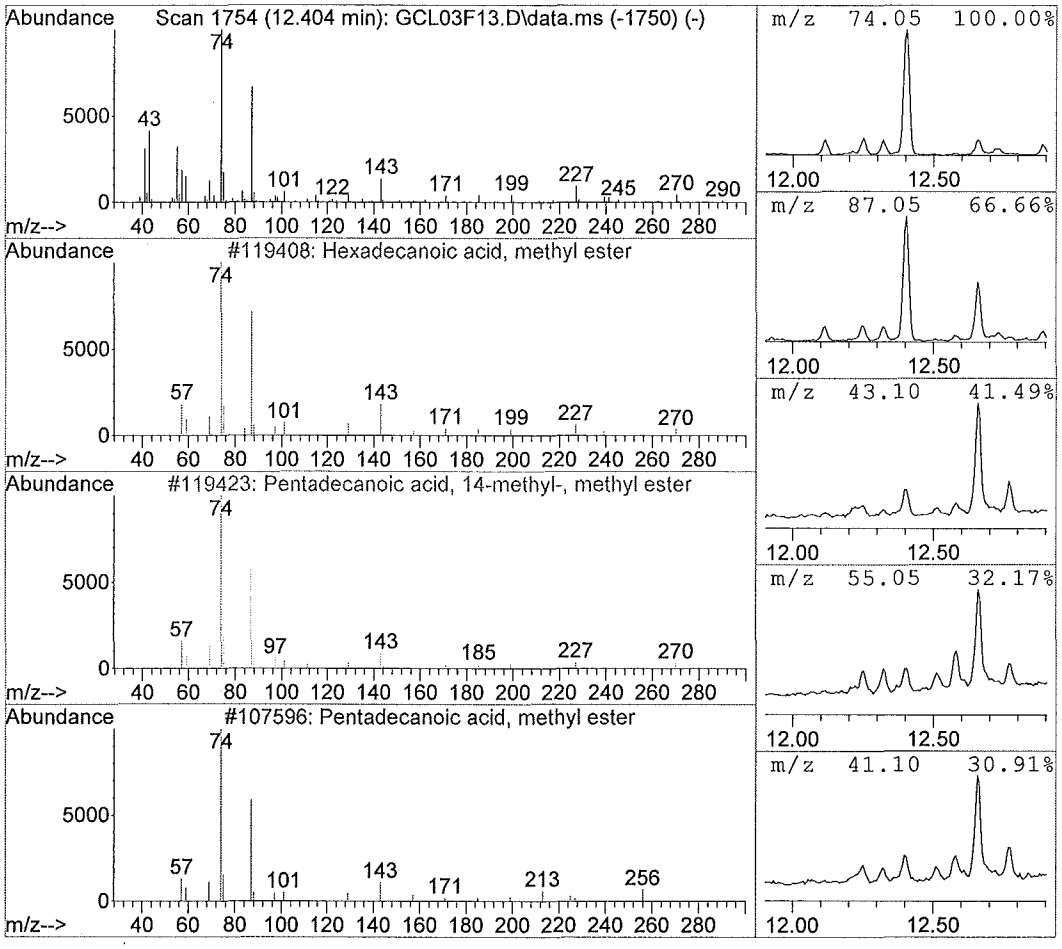
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	2.28 ug/ml	373140	Phenanthrene-d10	3269015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	94.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	93.00
3	Pentadecanoic acid, methyl ester	107596	007132-64-1	86.00
4	Dodecanoic acid, 10-methyl-, methyl	84513	005129-65-7	83.00
5	Tridecanoic acid, methyl ester	84487	001731-88-0	80.00



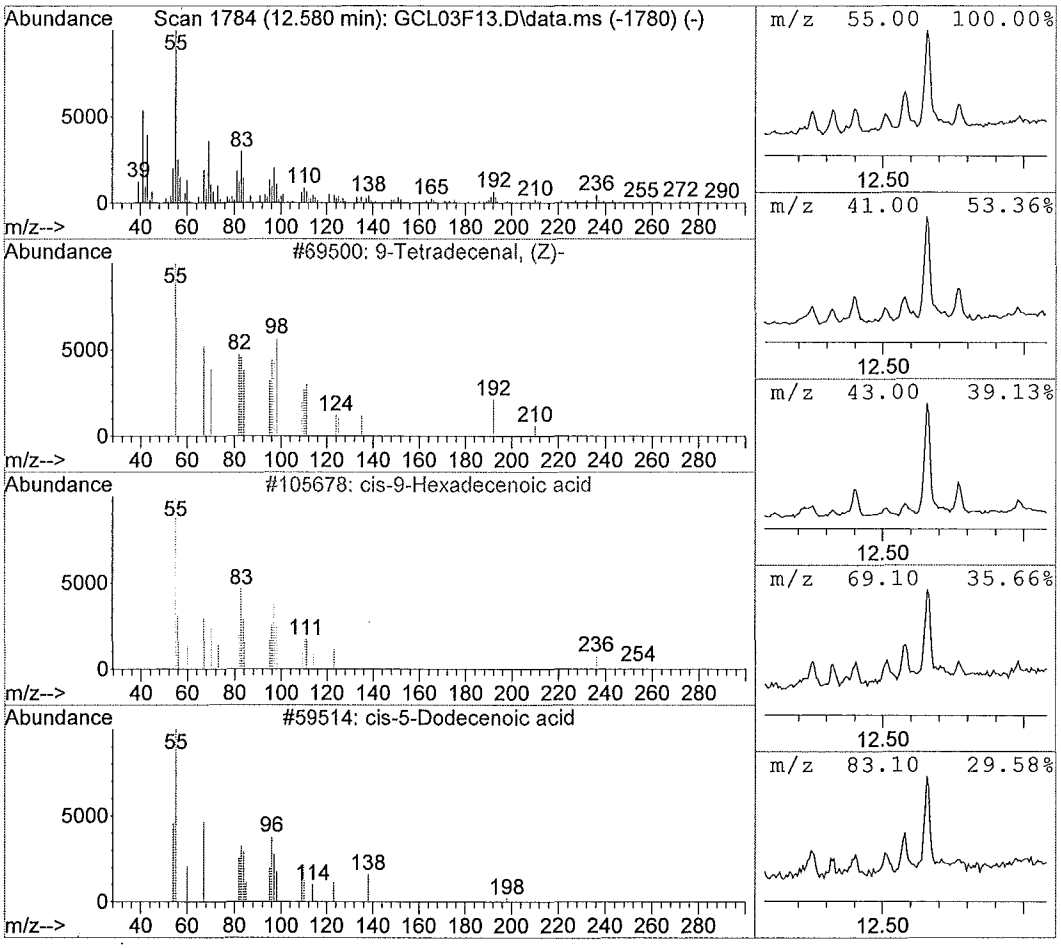
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.58	2.07 ug/ml	337844	Phenanthrene-d10	3269015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Tetradecenal, (Z)-	69500	053939-27-8	89.00
2	cis-9-Hexadecenoic acid	105678	1000333-19-5	80.00
3	cis-5-Dodecenoic acid	59514	002430-94-6	64.00
4	Z-7-Tetradecenoic acid	82767	1000130-98-4	50.00
5	Z-8-Methyl-9-tetradecenoic acid	94146	1000130-84-5	50.00



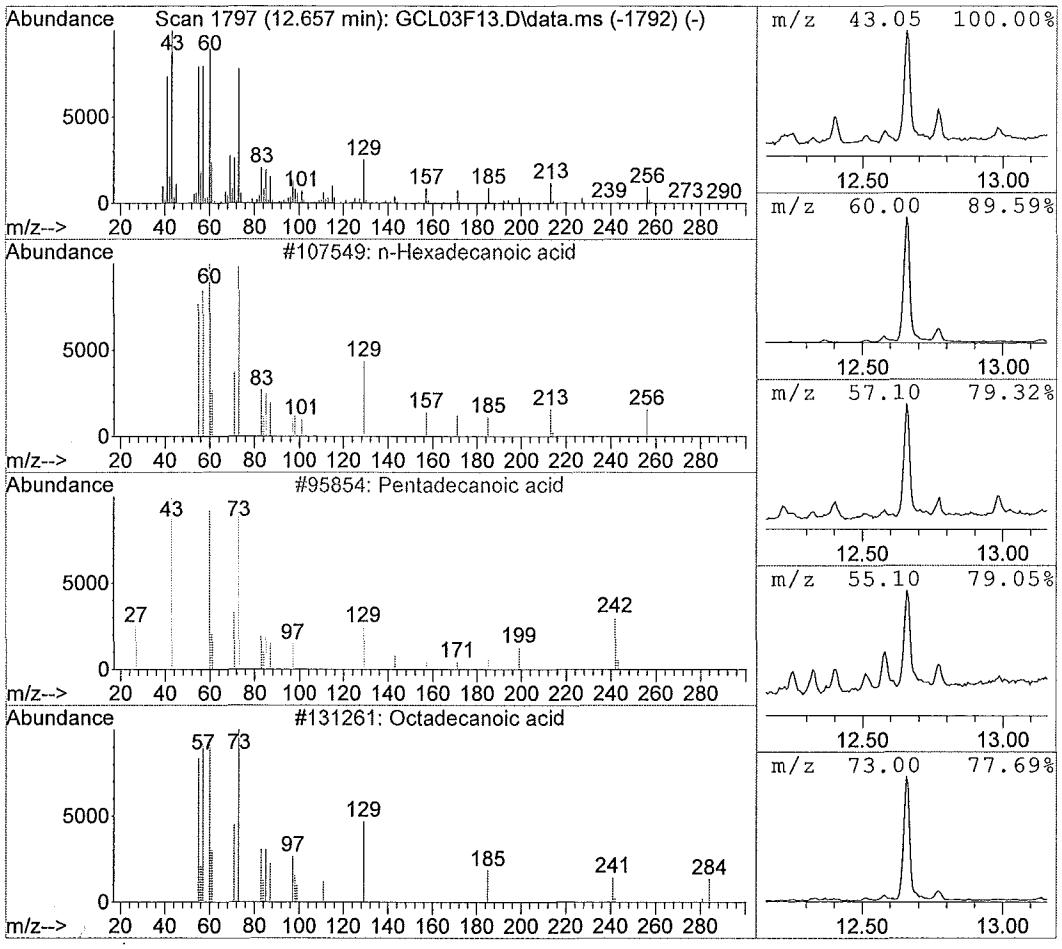
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	10.50 ug/ml	1716676	Phenanthrene-d10	3269015

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	Octadecanoic acid	131261	000057-11-4	83.00
4	Tridecanoic acid	72646	000638-53-9	64.00
5	Undecanoic acid	50052	000112-37-8	64.00



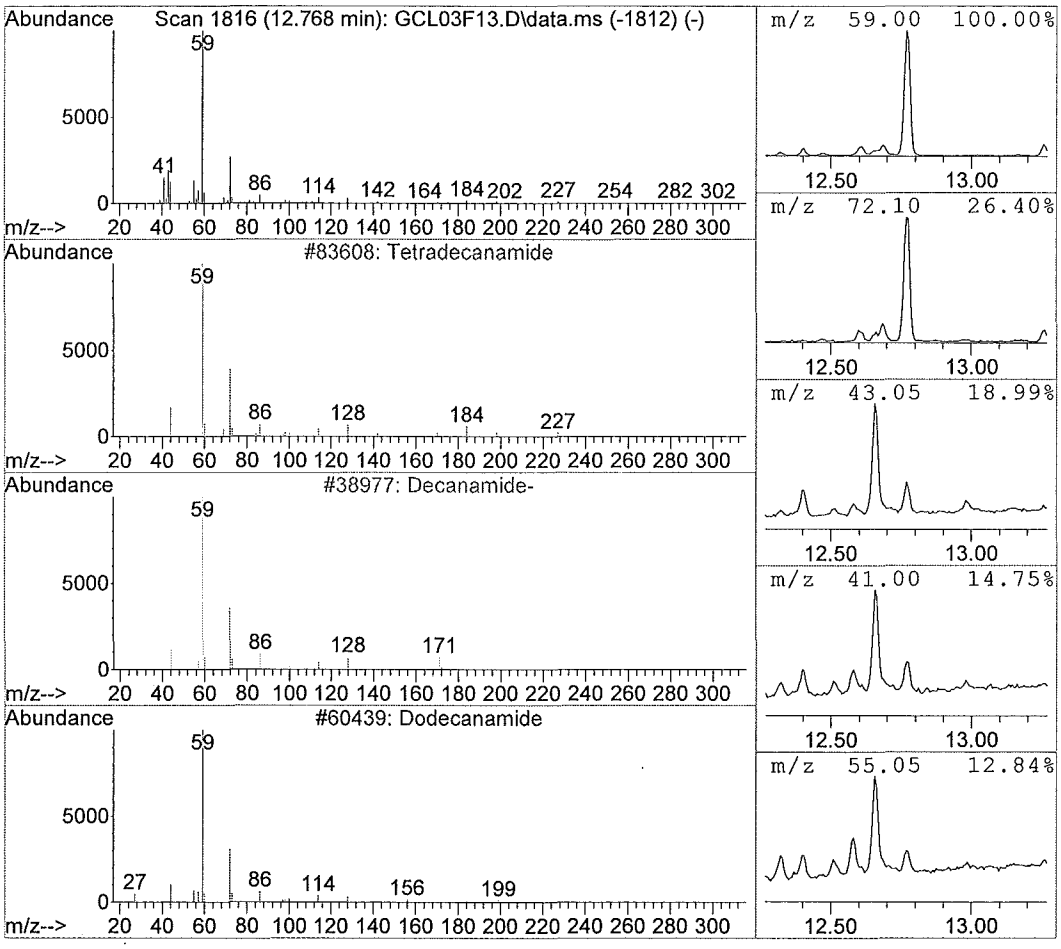
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	3.15 ug/ml	515331	Phenanthrene-d10	3269015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	91.00
2	Decanamide-	38977	002319-29-1	83.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	72.00



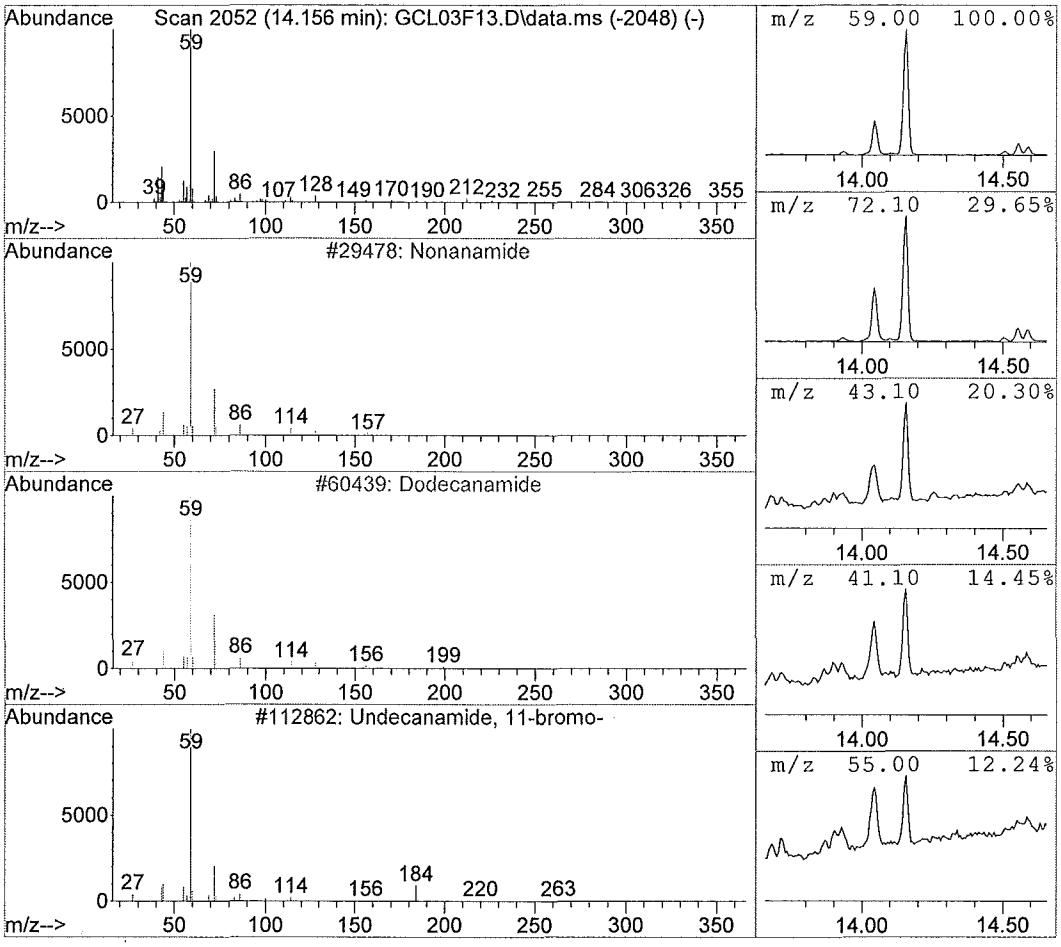
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	7.69 ug/ml	1673527	Chrysene-d12	4350586

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanamide	29478	001120-07-6	83.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Decanamide-	38977	002319-29-1	74.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00



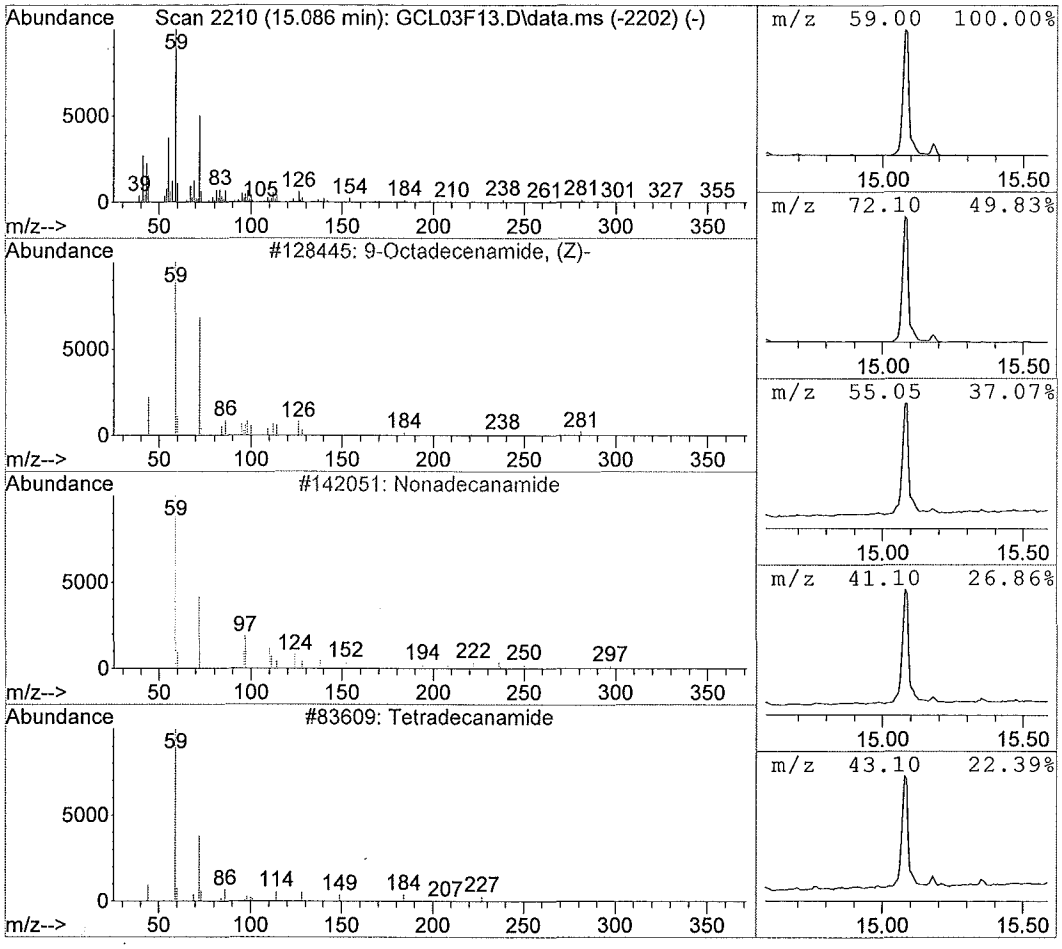
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15\GCL03F13.D Vial: 2
Acq On : 07/06/2015 10:13 Operator: TJM
Sample : 1513978013 F9L30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\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	56.02 ug/ml	12185728	Chrysene-d12	4350586

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	Tetradecanamide	83609	000638-58-4	56.00
4	Decanamide-	38977	002319-29-1	56.00
5	Hexadecanamide	106565	000629-54-9	56.00



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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.752	0.799	0.821	0.842	0.793	0.801	4.2
Phenol	1.291	1.236	1.382	1.254	1.279	1.288	4.4
Bis(2-chloroethyl)ether	1.044	1.057	1.184	1.076	1.307	1.134	9.9
2-Chlorophenol	1.187	1.134	1.218	1.166	1.184	1.178	2.6
2-Methylphenol	0.991	0.965	1.069	0.956	1.015	0.999	4.5
2,2'-Oxybis(1-chloropropane)	1.694	1.608	1.726	1.589	1.574	1.638	4.1
Acetophenone	1.341	1.420	1.515	1.406	1.440	1.424	4.4
4-Methylphenol	1.035	0.984	1.120	1.013	1.061	1.043	5.0
N-Nitroso-di-n-propylamine	0.705	0.675	0.734	0.688	0.696	0.700	3.2
Hexachloroethane	0.522	0.529	0.580	0.568	0.581	0.556	5.1
Nitrobenzene	0.299	0.303	0.348	0.319	0.339	0.322	6.8
Isophorone	0.522	0.522	0.590	0.546	0.595	0.555	6.5
2-Nitrophenol	0.201	0.188	0.202	0.188	0.199	0.196	3.7
2,4-Dimethylphenol	0.322	0.293	0.326	0.310	0.325	0.315	4.5
Bis(2-chloroethoxy)methane	0.360	0.338	0.376	0.353	0.369	0.359	4.0
2,4-Dichlorophenol	0.312	0.294	0.331	0.315	0.317	0.314	4.2
Naphthalene	0.904	0.937	0.993	0.987	0.965	0.957	3.8
4-Chloroaniline	0.319	0.322	0.302	0.256	0.248	0.290	12.0
Hexachlorobutadiene	0.225	0.228	0.251	0.246	0.250	0.240	5.2
Caprolactam	0.073	0.080	0.092	0.086	0.091	0.084	9.3
4-Chloro-3-methylphenol	0.261	0.241	0.270	0.259	0.281	0.262	5.6
2-Methylnaphthalene	0.643	0.644	0.666	0.641	0.644	0.648	1.6
Hexachlorocyclopentadiene	0.268	0.328	0.453	0.413	0.448	0.382	21.2
2,4,6-Trichlorophenol	0.378	0.365	0.411	0.387	0.419	0.392	5.7
2,4,5-Trichlorophenol	0.396	0.388	0.427	0.398	0.459	0.414	7.1
1,1'-Biphenyl	1.156	1.242	1.391	1.236	1.312	1.267	7.0
2-Chloronaphthalene	0.988	1.013	1.130	1.054	1.116	1.060	5.9
2-Nitroaniline		0.267	0.276	0.268	0.281	0.273	2.5
Dimethylphthalate	1.177	1.173	1.243	1.170	1.202	1.193	2.6
2,6-Dinitrotoluene	0.233	0.243	0.273	0.260	0.288	0.260	8.6
Acenaphthylene	1.555	1.637	1.783	1.681	1.649	1.661	5.0
3-Nitroaniline		0.239	0.197	0.160	0.130	0.182	25.9
Acenaphthene	0.966	1.019	1.084	1.046	1.033	1.030	4.2
2,4-Dinitrophenol		0.119	0.167	0.160	0.192	0.159	19.0
4-Nitrophenol		0.101	0.129	0.119	0.136	0.121	12.6
Dibenzofuran	1.508	1.533	1.565	1.509	1.485	1.520	2.0

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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.312	0.329	0.372	0.355	0.387	0.351	8.7
Diethylphthalate	1.207	1.163	1.294	1.166	1.200	1.206	4.4
Fluorene	1.144	1.197	1.291	1.249	1.138	1.204	5.5
4-Chlorophenyl-phenylether	0.658	0.659	0.694	0.644	0.596	0.650	5.4
4-Nitroaniline		0.256	0.223	0.218	0.209	0.227	9.0
4,6-Dinitro-2-methylphenol		0.122	0.146	0.138	0.157	0.141	10.3
N-Nitrosodiphenylamine[1]	0.489	0.479	0.512	0.465	0.486	0.486	3.6
1,2,4,5-Tetrachlorobenzene	0.618	0.637	0.670	0.623	0.627	0.635	3.3
4-Bromophenyl-phenylether	0.236	0.230	0.244	0.230	0.238	0.236	2.4
Hexachlorobenzene	0.235	0.238	0.257	0.243	0.271	0.249	6.0
Atrazine	0.184	0.197	0.216	0.196	0.206	0.200	6.0
Pentachlorophenol		0.094	0.139	0.132	0.155	0.130	19.7
Phenanthrene	0.950	0.993	1.061	1.000	0.998	1.000	4.0
Anthracene	0.972	1.024	1.093	1.029	1.027	1.029	4.2
Carbazole	0.837	0.861	0.879	0.830	0.767	0.835	5.1
Di-n-butylphthalate	1.170	1.127	1.232	1.132	1.152	1.163	3.6
Fluoranthene	1.093	1.144	1.228	1.149	1.122	1.147	4.4
Pyrene	1.006	1.054	1.133	1.030	0.976	1.040	5.7
Butylbenzylphthalate	0.430	0.426	0.472	0.437	0.464	0.446	4.6
3,3'-Dichlorobenzidine	0.343	0.360	0.365	0.351	0.292	0.342	8.5
Benzo(a)anthracene	1.023	1.052	1.125	1.036	1.019	1.051	4.1
Chrysene	0.921	0.968	1.013	0.931	0.909	0.948	4.5
Bis(2-ethylhexyl)phthalate	0.679	0.671	0.720	0.682	0.693	0.689	2.7
Di-n-octylphthalate	1.142	1.139	1.275	1.194	1.151	1.180	4.9
Benzo(b)fluoranthene	1.002	1.024	1.162	1.076	1.074	1.067	5.8
Benzo(k)fluoranthene	0.964	1.060	1.086	1.095	1.012	1.043	5.3
Benzo(a)pyrene	0.961	1.016	1.088	1.058	1.055	1.036	4.7
Indeno(1,2,3-cd)pyrene	0.890	0.941	1.034	1.004	1.079	0.990	7.6
Dibenzo(a,h)anthracene	0.907	0.977	1.057	1.044	1.115	1.020	7.8
Benzo(g,h,i)perylene	0.910	0.965	1.048	1.014	1.066	1.001	6.3
2,3,4,6-Tetrachlorophenol	0.315	0.315	0.355	0.342	0.370	0.339	7.1

[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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 05/21/2015 05/21/2015

Calibration Time(s): 14:38 16:56

LAB FILE ID: RRF 5.0 = DFG03S05 RRF 10 = DFG04S10

RRF 20 = DFG02S20 RRF 40 = DFG05S40 RRF 80 = DFG06S80

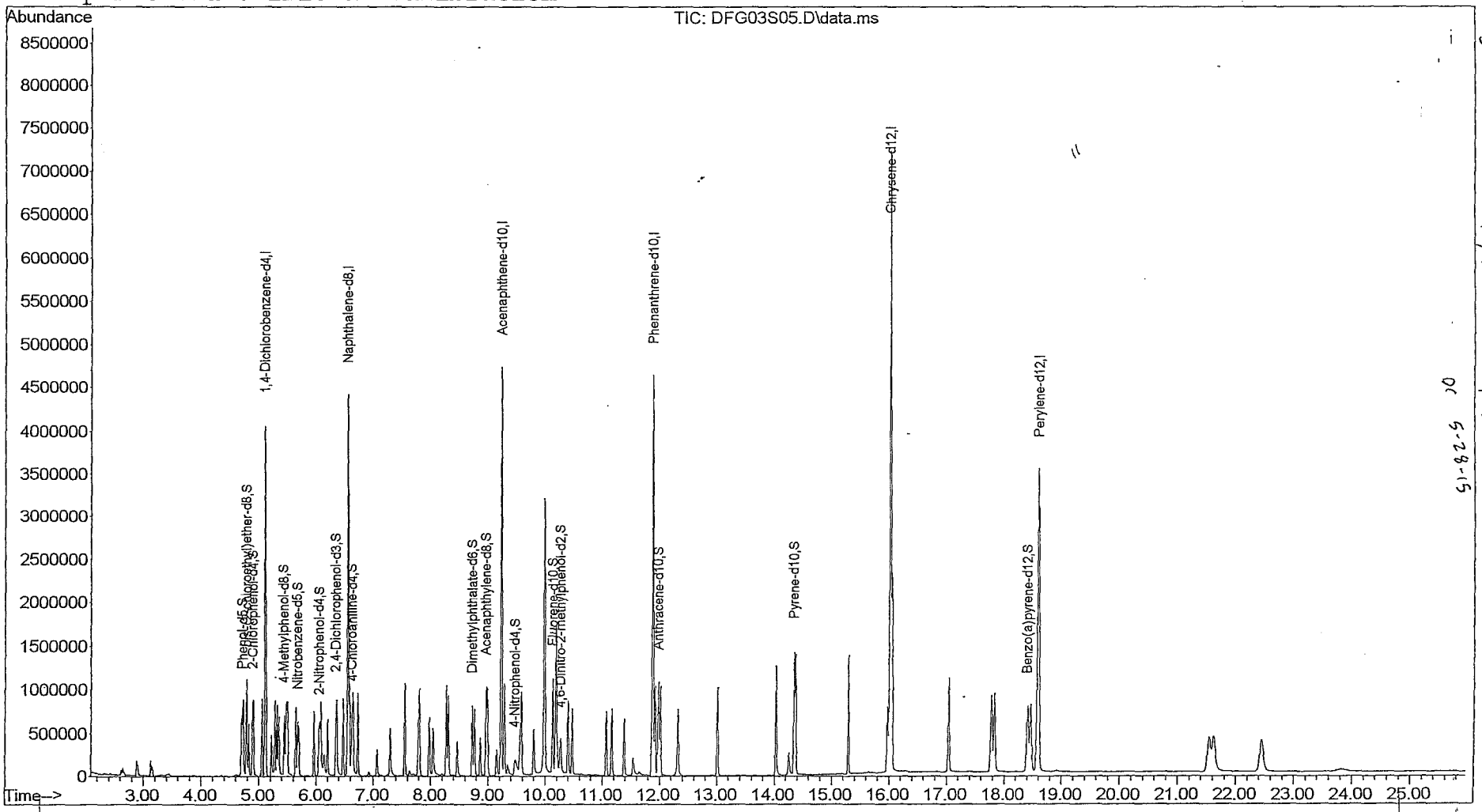
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.239	1.221	1.279	1.263	1.222	1.245	2.1
Bis(2-chloroethyl)ether-d8	0.919	0.896	0.934	0.906	0.900	0.911	1.7
2-Chlorophenol-d4	1.234	1.206	1.258	1.271	1.234	1.241	2.0
4-Methylphenol-d8	0.915	0.893	0.956	0.960	0.942	0.933	3.1
Nitrobenzene-d5	0.159	0.154	0.163	0.169	0.173	0.164	4.7
2-Nitrophenol-d4	0.202	0.195	0.188	0.191	0.196	0.194	2.8
2,4-Dichlorophenol-d3	0.312	0.303	0.319	0.319	0.316	0.314	2.1
4-Chloroaniline-d4	0.287	0.265	0.220	0.209	0.198	0.236	16.2
Dimethylphthalate-d6	1.219	1.194	1.224	1.262	1.266	1.233	2.5
Acenaphthylene-d8	1.604	1.569	1.667	1.633	1.646	1.624	2.4
4-Nitrophenol-d4		0.180	0.211	0.205	0.223	0.205	8.8
Fluorene-d10	1.080	1.053	1.101	1.098	1.117	1.090	2.2
4,6-Dinitro-2-methylphenol-d2		0.108	0.128	0.128	0.142	0.126	11.2
Anthracene-d10	1.038	0.994	1.041	1.014	1.036	1.025	2.0
Pyrene-d10	0.849	0.826	0.863	0.830	0.844	0.842	1.7
Benzo(a)pyrene-d12	0.901	0.881	0.922	0.926	0.947	0.915	2.7

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Original with SDG: F9K50 Case: 45316
5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	758573	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2572476	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1621114	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2821882	20.00 ug/ml
73) Chrysene-d12	16.02	240	3306592	20.00 ug/ml
81) Perylene-d12	18.60	264	3150553	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	234979	4.977ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	174296	5.045ug/mL
7) 2-Chlorophenol-d4	4.89	132	234066	4.974ug/ml
13) 4-Methylphenol-d8	5.44	113	173446	4.901ug/mL
17) Nitrobenzene-d5	5.67	128	102467	4.863ug/ml
21) 2-Nitrophenol-d4	6.05	143	129734	5.192ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	200824	4.974ug/mL
28) 4-Chloroaniline-d4	6.62	131	184293	6.075ug/mL
42) Dimethylphthalate-d6	8.73	166	494153	4.944ug/mL
45) Acenaphthylene-d8	8.97	160	650178	4.940ug/mL
50) 4-Nitrophenol-d4	9.47	143	67963	4.094ug/mL
57) Fluorene-d10	10.13	176	437716	4.956ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	72375	4.061ug/mL
69) Anthracene-d10	11.98	188	732241	5.065ug/mL
75) Pyrene-d10	14.34	212	701680	5.039ug/mL
86) Benzo(a)pyrene-d12	18.41	264	709752	4.923ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	142677	4.694ug/ml	95
4) Phenol	4.73	94	244828	5.010ug/ml	87
5) Bis(2-chloroethyl)ether	4.83	93	197923	4.603ug/ml	99
8) 2-Chlorophenol	4.90	128	225082	5.039ug/ml	100
9) 2-Methylphenol	5.32	108	187998	4.961ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	321348	5.172ug/ml	100
11) Acetophenone	5.50	105	254395	4.709ug/ml	92
12) 4-methylphenol	5.47	108	196349	4.965ug/ml	98
14) N-Nitroso-di-n-propylamine	5.48	70	133646	5.037ug/ml	82
15) Hexachloroethane	5.64	117	99044	4.695ug/ml	79
18) Nitrobenzene	5.69	77	192331	4.649ug/ml	98
19) Isophorone	5.96	82	335430	4.700ug/ml	94
20) 2-Nitrophenol	6.06	139	129228	5.139ug/ml	94
22) 2,4-Dimethylphenol	6.08	107	206781	5.100ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	231332	5.008ug/ml	98
24) 2,4-Dichlorophenol	6.36	162	200964	4.977ug/ml	94
26) Naphthalene	6.58	128	581655	4.724ug/ml	100

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

00617

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.63	127	205117	5.508ug/ml	99
29)	Hexachlorobutadiene	6.73	225	144884	4.690ug/ml	99
30)	Caprolactam	7.07	113	47166	4.352ug/ml	94
31)	4-Chloro-3-methylphenol	7.30	107	168088	4.979ug/ml	93
32)	2-Methylnaphthalene	7.55	142	413699	4.967ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.80	216	250500	4.868ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	108596	3.508ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	153005	4.816ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	160329	4.783ug/ml	100
38)	1,1'-Biphenyl	8.27	154	468388	4.560ug/ml	96
39)	2-Chloronaphthalene	8.31	162	400383	4.660ug/ml	90
40)	2-Nitroaniline	8.46	65	103531	4.679ug/ml	99
41)	Dimethylphthalate	8.77	163	476883	4.932ug/ml	98
43)	2,6-Dinitrotoluene	8.87	165	94538	4.491ug/ml	93
44)	Acenaphthylene	8.99	152	630179	4.681ug/ml	99
46)	3-Nitroaniline	9.15	138	95742	6.506ug/ml	91
47)	Acenaphthene	9.29	153	391572	4.692ug/ml	92
48)	2,4-Dinitrophenol	9.35	184	40614	3.145ug/ml	100
49)	4-Nitrophenol	9.48	109	38133	3.874ug/ml	87
51)	Dibenzofuran	9.59	168	611158	4.960ug/ml	94
52)	2,4-Dinitrotoluene	9.56	165	126403	4.444ug/ml	74
53)	2,3,4,6-Tetrachlorophenol	9.80	232	127564	4.638ug/mL	93
54)	Diethylphthalate	10.00	149	489221	5.005ug/ml	100
55)	4-Chlorophenyl-phenylether	10.19	204	266677	5.060ug/ml	88
56)	Fluorene	10.19	166	463791	4.752ug/ml	99
58)	4-Nitroaniline	10.22	138	96926	5.277ug/ml	82
60)	4,6-Dinitro-2-methylphenol	10.28	198	81587	4.107ug/ml	90
62)	N-Nitrosodiphenylamine	10.40	169	344799	5.026ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	166485	5.006ug/ml	86
64)	Hexachlorobenzene	11.17	284	165679	4.722ug/ml	81
65)	Atrazine	11.39	200	129622	4.599ug/ml	97
66)	Pentachlorophenol	11.55	266	59007	3.222ug/ml	94
67)	Phenanthrene	11.92	178	670228	4.748ug/ml	99
68)	Anthracene	12.02	178	685531	4.722ug/ml	98
70)	Carbazole	12.32	167	590489	5.014ug/mL	97
71)	Di-n-butylphthalate	13.02	149	825422	5.032ug/ml	99
72)	Fluoranthene	14.03	202	770747	4.762ug/ml	88
74)	Pyrene	14.37	202	831677	4.838ug/ml	86
76)	Butylbenzylphthalate	15.29	149	355510	4.822ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	283661	5.012ug/ml	94
78)	Benzo(a)anthracene	16.00	228	845758	4.868ug/ml	98
79)	Chrysene	16.06	228	761442	4.857ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	561377	4.928ug/ml	100

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

Quantitation Report

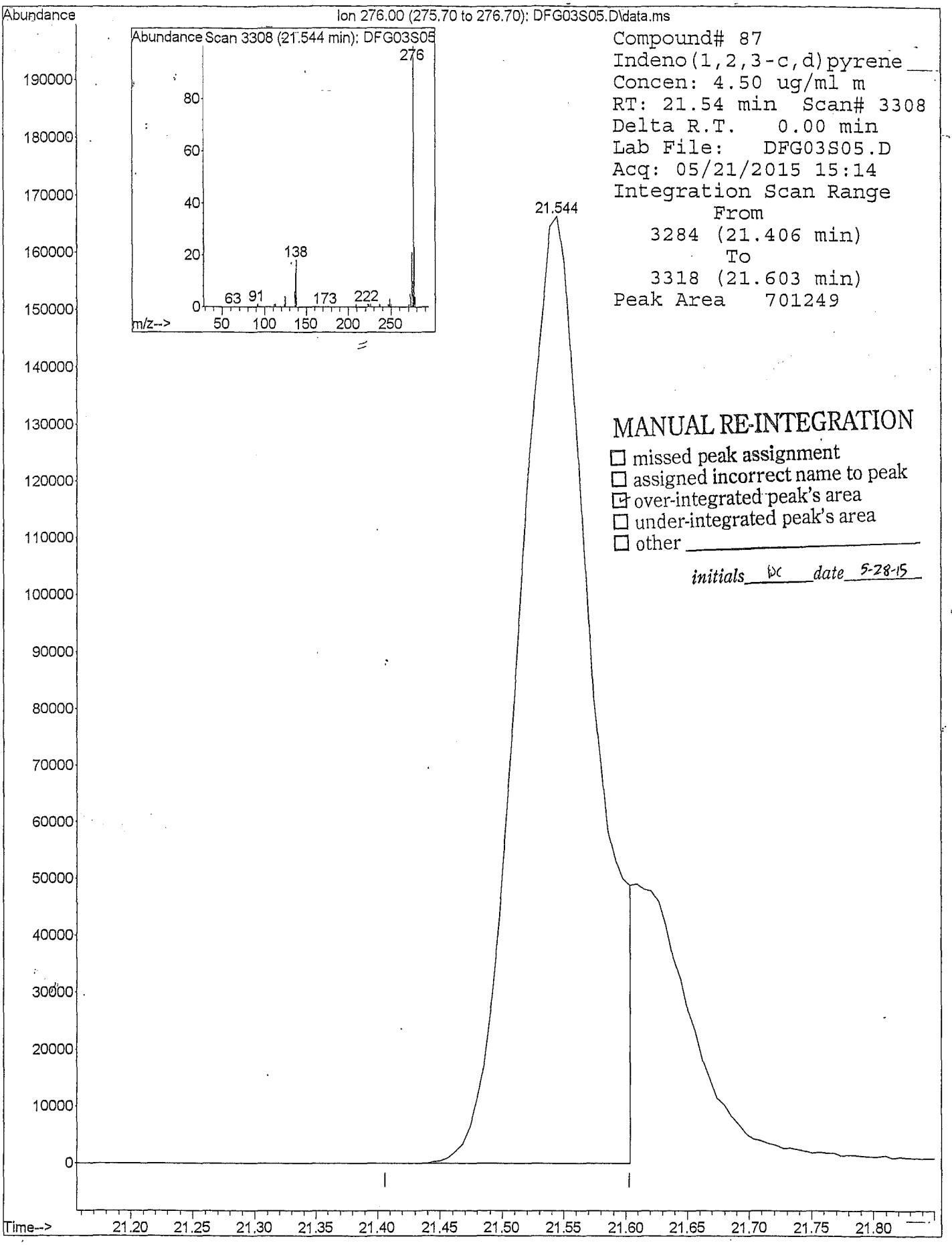
Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
82) Di-n-octylphthalate	17.04	149	899814	4.839ug/ml		99
83) Benzo(b)fluoranthene	17.78	252	789346	4.694ug/ml		92
84) Benzo(k)fluoranthene	17.83	252	759077	4.619ug/ml		93
85) Benzo(a)pyrene	18.46	252	756783	4.639ug/ml		92
87) Indeno(1,2,3-c,d)pyrene	21.54	276	701249	4.498ug/ml	m	67
88) Dibenzo(a,h)anthracene	21.62	278	714733	4.448ug/ml	DC 5-28-15	89
89) Benzo(g,h,i)perylene	22.45	276	717029	4.549ug/ml		85

(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



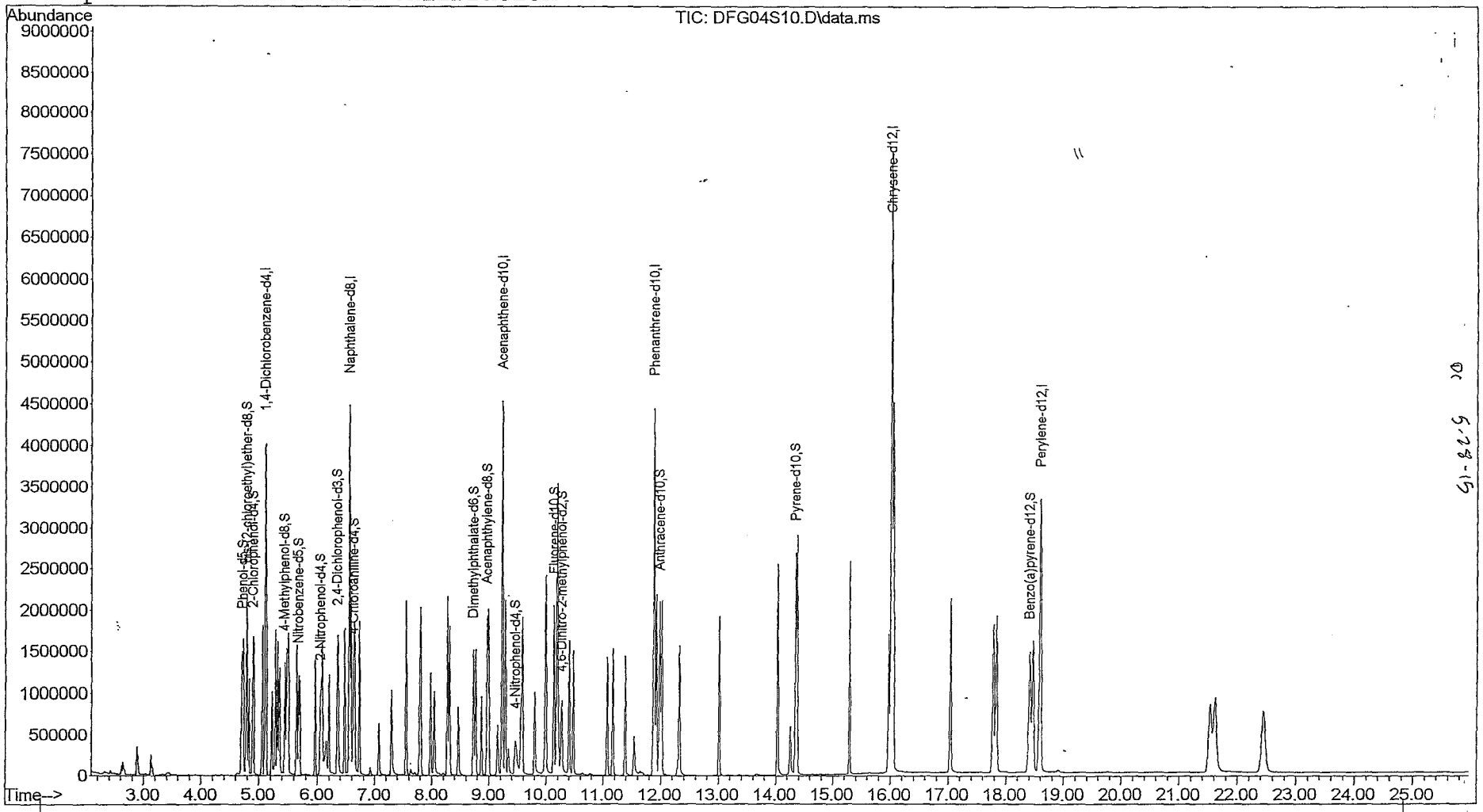
DSOM01D5.M 5975-D DSOM01D5.M SSTD005DG 28102 . X6-19-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	738162	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2525010	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1550636	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2750825	20.00 ug/ml
73) Chrysene-d12	16.02	240	3201443	20.00 ug/ml
81) Perylene-d12	18.59	264	3000024	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	450506	9.806ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	330621	9.835ug/mL
7) 2-Chlorophenol-d4	4.89	132	445266	9.724ug/ml
13) 4-Methylphenol-d8	5.44	113	329468	9.567ug/mL
17) Nitrobenzene-d5	5.67	128	194251	9.393ug/ml
21) 2-Nitrophenol-d4	6.05	143	246025	10.031ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	382694	9.656ug/mL
28) 4-Chloroaniline-d4	6.62	131	334937	11.249ug/mL
42) Dimethylphthalate-d6	8.73	166	925637	9.682ug/mL
45) Acenaphthylene-d8	8.97	160	1216242	9.661ug/mL
50) 4-Nitrophenol-d4	9.46	143	139773	8.802ug/mL
57) Fluorene-d10	10.13	176	816226	9.662ug/mL
61) 4,6-Dinitro-2-methylphenol	10.26	200	147903	8.514ug/mL
69) Anthracene-d10	11.98	188	1367281	9.702ug/mL
75) Pyrene-d10	14.34	212	1322068	9.806ug/mL
86) Benzo(a)pyrene-d12	18.41	264	1321112	9.623ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	294880	9.969ug/ml 96
4) Phenol	4.73	94	456042	9.590ug/ml 87
5) Bis(2-chloroethyl)ether	4.83	93	390103	9.323ug/ml 96
8) 2-Chlorophenol	4.90	128	418593	9.630ug/ml 99
9) 2-Methylphenol	5.32	108	356031	9.654ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	593362	9.813ug/ml 100
11) Acetophenone	5.50	105	523949	9.966ug/ml 95
12) 4-methylphenol	5.47	108	363049	9.435ug/ml 99
14) N-Nitroso-di-n-propylamine	5.49	70	249126	9.648ug/ml 82
15) Hexachloroethane	5.64	117	195355	9.517ug/ml 77
18) Nitrobenzene	5.70	77	382344	9.416ug/ml 98
19) Isophorone	5.96	82	658792	9.405ug/ml 94
20) 2-Nitrophenol	6.06	139	236790	9.593ug/ml 94
22) 2,4-Dimethylphenol	6.08	107	369587	9.287ug/ml 91
23) Bis(2-chloroethoxy)methane	6.20	93	427283	9.424ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	371392	9.371ug/ml 95
26) Naphthalene	6.58	128	1183463	9.793ug/ml 99

(m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.63	127	406350	11.116ug/ml	99
29)	Hexachlorobutadiene	6.73	225	288029	9.500ug/ml	99
30)	Caprolactam	7.08	113	100418	9.441ug/ml	98
31)	4-Chloro-3-methylphenol	7.30	107	304516	9.189ug/ml	93
32)	2-Methylnaphthalene	7.55	142	812538	9.938ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.80	216	494239	10.040ug/mL	95
35)	Hexachlorocyclopentadiene	7.79	237	254659	8.599ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	283168	9.318ug/ml	98
37)	2,4,5-Trichlorophenol	8.05	196	300662	9.377ug/ml	99
38)	1,1'-Biphenyl	8.27	154	962846	9.800ug/ml	96
39)	2-Chloronaphthalene	8.31	162	785060	9.552ug/ml	89
40)	2-Nitroaniline	8.46	65	207298	9.794ug/ml	97
41)	Dimethylphthalate	8.77	163	909312	9.831ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	188573	9.366ug/ml	93
44)	Acenaphthylene	8.99	152	1269274	9.857ug/ml	99
46)	3-Nitroaniline	9.15	138	185286	13.162ug/ml	90
47)	Acenaphthene	9.29	153	790354	9.900ug/ml	92
48)	2,4-Dinitrophenol	9.34	184	92158	7.461ug/ml	100
49)	4-Nitrophenol	9.47	109	78336	8.319ug/ml	94
51)	Dibenzofuran	9.59	168	1188836	10.087ug/ml	95
52)	2,4-Dinitrotoluene	9.56	165	255422	9.389ug/ml	77
53)	2,3,4,6-Tetrachlorophenol	9.80	232	244349	9.288ug/mL	92
54)	Diethylphthalate	10.00	149	901660	9.644ug/ml	100
55)	4-Chlorophenyl-phenylether	10.19	204	510901	10.134ug/ml	88
56)	Fluorene	10.19	166	927937	9.940ug/ml	98
58)	4-Nitroaniline	10.22	138	198427	11.295ug/ml	79
60)	4,6-Dinitro-2-methylphenol	10.28	198	168450	8.698ug/ml	88
62)	N-Nitrosodiphenylamine	10.40	169	658929	9.853ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	317004	9.778ug/ml	86
64)	Hexachlorobenzene	11.17	284	326757	9.553ug/ml	81
65)	Atrazine	11.39	200	271272	9.874ug/ml	98
66)	Pentachlorophenol	11.54	266	129776	7.269ug/ml	99
67)	Phenanthrene	11.92	178	1365128	9.920ug/ml	99
68)	Anthracene	12.02	178	1408947	9.955ug/ml	99
70)	Carbazole	12.32	167	1184066	10.314ug/mL	97
71)	Di-n-butylphthalate	13.02	149	1550138	9.695ug/ml	99
72)	Fluoranthene	14.03	202	1573970	9.975ug/ml	87
74)	Pyrene	14.37	202	1687332	10.137ug/ml	86
76)	Butylbenzylphthalate	15.29	149	682605	9.563ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	575615	10.505ug/ml	95
78)	Benzo(a)anthracene	16.00	228	1683678	10.009ug/ml	98
79)	Chrysene	16.05	228	1550242	10.212ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	1074408	9.742ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG04S10.D Vial: 3
Acq On : 05/21/2015 15:48 Operator: DJC
Sample : SSTD010DG 28103 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:20 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	1708363	9.649ug/ml	98
83) Benzo(b)fluoranthene	17.78	252	1536097	9.593ug/ml	93
84) Benzo(k)fluoranthene	17.83	252	1590334	10.162ug/ml	93
85) Benzo(a)pyrene	18.47	252	1524007	9.811ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.53	276	1411762	9.509ug/ml	74
88) Dibenzo(a,h)anthracene	21.62	278	1465626	9.579ug/ml	89
89) Benzo(g,h,i)perylene	22.44	276	1447901	9.646ug/ml	85

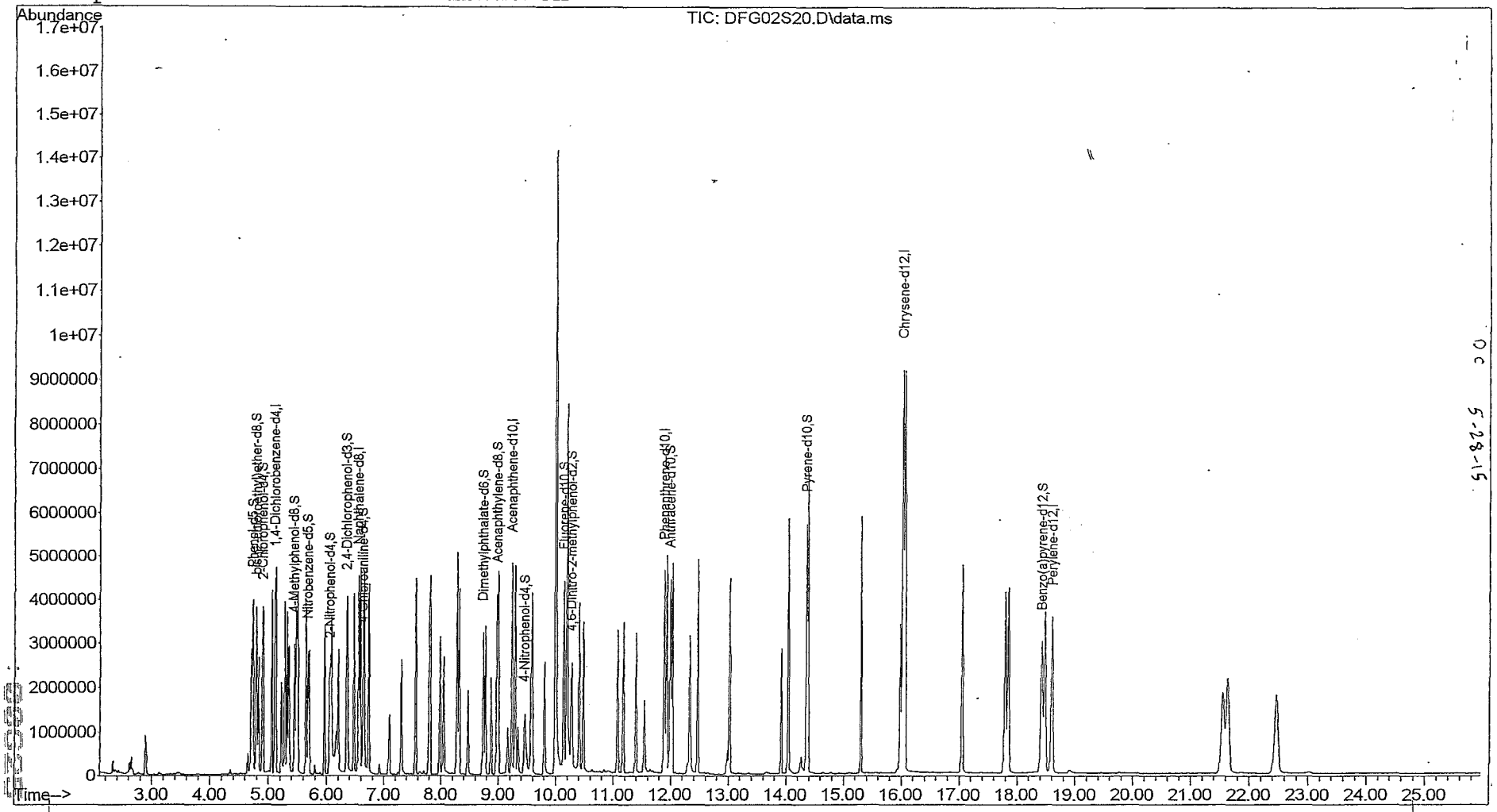
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



5-28-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	781412	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2629741	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1633186	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2882940	20.00 ug/ml
73) Chrysene-d12	16.02	240	3323908	20.00 ug/ml
81) Perylene-d12	18.60	264	3091076	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	999362	20.549ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	729649	20.504ug/mL
7) 2-Chlorophenol-d4	4.89	132	983364	20.286ug/ml
13) 4-Methylphenol-d8	5.44	113	746853	20.487ug/mL
17) Nitrobenzene-d5	5.67	128	429946	19.961ug/ml
21) 2-Nitrophenol-d4	6.05	143	494008	19.341ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	839936	20.349ug/mL
28) 4-Chloroaniline-d4	6.63	131	578754	18.663ug/mL
42) Dimethylphthalate-d6	8.73	166	1998566	19.848ug/mL
45) Acenaphthylene-d8	8.97	160	2722135	20.531ug/mL
50) 4-Nitrophenol-d4	9.45	143	345165	20.639ug/mL
57) Fluorene-d10	10.13	176	1798224	20.210ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	368308	20.230ug/mL
69) Anthracene-d10	11.98	188	3000986	20.318ug/mL
75) Pyrene-d10	14.35	212	2866880	20.481ug/mL
86) Benzo(a)pyrene-d12	18.42	264	2850649	20.152ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	641734	20.494ug/ml	91
4) Phenol	4.73	94	1080276	21.459ug/ml	91
5) Bis(2-chloroethyl)ether	4.83	93	925407	20.892ug/ml	93
8) 2-Chlorophenol	4.90	128	951491	20.678ug/ml	99
9) 2-Methylphenol	5.32	108	835019	21.390ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1349054	21.076ug/ml	100
11) Acetophenone	5.50	105	1184118	21.276ug/ml	90
12) 4-methylphenol	5.47	108	875045	21.482ug/ml	98
14) N-Nitroso-di-n-propylamine	5.49	70	573887	20.995ug/ml	82
15) Hexachloroethane	5.64	117	453551	20.873ug/ml	76
18) Nitrobenzene	5.70	77	915798	21.654ug/ml	96
19) Isophorone	5.96	82	1551844	21.272ug/ml	95
20) 2-Nitrophenol	6.06	139	531385	20.669ug/ml	91
22) 2,4-Dimethylphenol	6.08	107	857907	20.699ug/ml	92
23) Bis(2-chloroethoxy)methane	6.20	93	987485	20.911ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	870623	21.093ug/ml	96
26) Naphthalene	6.58	128	2610773	20.744ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.64	127	794752	20.875ug/ml	96
29)	Hexachlorobutadiene	6.73	225	658920	20.867ug/ml	99
30)	Caprolactam	7.10	113	241887	21.835ug/ml	96
31)	4-Chloro-3-methylphenol	7.30	107	710977	20.600ug/ml	93
32)	2-Methylnaphthalene	7.55	142	1752169	20.577ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.80	216	1093546	21.092ug/mL	97
35)	Hexachlorocyclopentadiene	7.79	237	739731	23.716ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	671107	20.968ug/ml	99
37)	2,4,5-Trichlorophenol	8.04	196	697541	20.655ug/ml	99
38)	1,1'-Biphenyl	8.27	154	2271206	21.947ug/ml	97
39)	2-Chloronaphthalene	8.31	162	1844942	21.314ug/ml	89
40)	2-Nitroaniline	8.47	65	450368	20.202ug/ml	97
41)	Dimethylphthalate	8.77	163	2030821	20.846ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	446485	21.055ug/ml	93
44)	Acenaphthylene	9.00	152	2911489	21.467ug/ml	99
46)	3-Nitroaniline	9.16	138	321988	21.717ug/ml	94
47)	Acenaphthene	9.29	153	1769568	21.045ug/ml	93
48)	2,4-Dinitrophenol	9.34	184	272471	20.944ug/ml	100
49)	4-Nitrophenol	9.46	109	210440	21.219ug/ml	98
51)	Dibenzofuran	9.59	168	2556646	20.596ug/ml	94
52)	2,4-Dinitrotoluene	9.56	165	606928	21.183ug/ml	81
53)	2,3,4,6-Tetrachlorophenol	9.80	232	579733	20.922ug/mL	91
54)	Diethylphthalate	10.00	149	2112582	21.454ug/ml	100
55)	4-Chlorophenyl-phenylether	10.20	204	1132964	21.336ug/ml	89
56)	Fluorene	10.19	166	2109062	21.451ug/ml	99
58)	4-Nitroaniline	10.22	138	364529	19.701ug/ml	75
60)	4,6-Dinitro-2-methylphenol	10.28	198	419588	20.672ug/ml	91
62)	N-Nitrosodiphenylamine	10.40	169	1477036	21.075ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	702835	20.686ug/ml	86
64)	Hexachlorobenzene	11.17	284	740599	20.660ug/ml	82
65)	Atrazine	11.39	200	621666	21.591ug/ml	99
66)	Pentachlorophenol	11.54	266	399947	21.374ug/ml	97
67)	Phenanthrene	11.92	178	3059449	21.214ug/ml	99
68)	Anthracene	12.02	178	3151733	21.247ug/ml	99
70)	Carbazole	12.32	167	2534276	21.063ug/mL	97
71)	Di-n-butylphthalate	13.02	149	3550475	21.187ug/ml	99
72)	Fluoranthene	14.03	202	3538921	21.401ug/ml	88
74)	Pyrene	14.37	202	3764890	21.786ug/ml	87
76)	Butylbenzylphthalate	15.29	149	1569968	21.185ug/ml	94
77)	3,3'-Dichlorobenzidine	15.97	252	1213938	21.338ug/ml	95
78)	Benzo(a)anthracene	16.01	228	3739232	21.409ug/ml	97
79)	Chrysene	16.06	228	3366283	21.359ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	2391774	20.888ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG02S20.D Vial: 1
Acq On : 05/21/2015 14:38 Operator: DJC
Sample : SSTD020DG 28104 DFTPPDG Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:18 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	3940901	21.602ug/ml	99
83) Benzo(b)fluoranthene	17.79	252	3590854	21.765ug/ml	92
84) Benzo(k)fluoranthene	17.84	252	3357774	20.824ug/ml	92
85) Benzo(a)pyrene	18.47	252	3361975	21.005ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.54	276	3196533	20.896ug/ml	75
88) Dibenzo(a,h)anthracene	21.63	278	3265734	20.716ug/ml	89
89) Benzo(g,h,i)perylene	22.46	276	3239476	20.946ug/ml	85

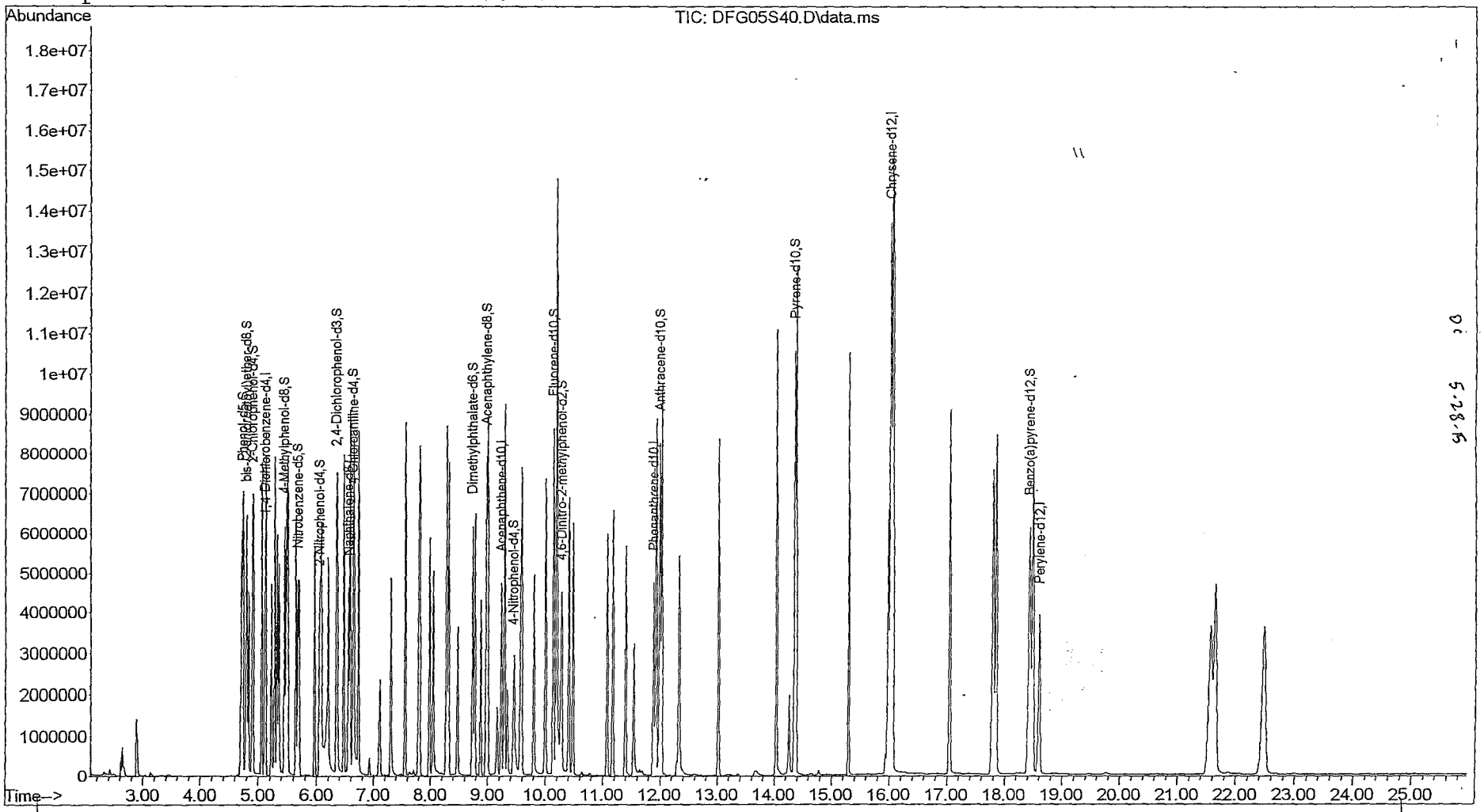
(m) = manual integration
[illegible] not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	759599	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2564806	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1618424	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2915125	20.00 ug/ml
73) Chrysene-d12	16.02	240	3425847	20.00 ug/ml
81) Perylene-d12	18.60	264	3260808	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1918857	40.589ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1376090	39.781ug/mL
7) 2-Chlorophenol-d4	4.89	132	1930639	40.971ug/ml
13) 4-Methylphenol-d8	5.45	113	1458045	41.145ug/mL
17) Nitrobenzene-d5	5.68	128	866506	41.248ug/ml
21) 2-Nitrophenol-d4	6.05	143	977489	39.238ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1634717	40.607ug/mL
28) 4-Chloroaniline-d4	6.63	131	1071925	35.442ug/mL
42) Dimethylphthalate-d6	8.73	166	4085820	40.946ug/mL
45) Acenaphthylene-d8	8.97	160	5284171	40.218ug/mL
50) 4-Nitrophenol-d4	9.45	143	662556	39.978ug/mL
57) Fluorene-d10	10.14	176	3552581	40.291ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	746001	40.523ug/mL
69) Anthracene-d10	11.99	188	5910674	39.577ug/mL
75) Pyrene-d10	14.35	212	5688122	39.427ug/mL
86) Benzo(a)pyrene-d12	18.43	264	6037385	40.458ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	1279304	42.027ug/ml	94
4) Phenol	4.73	94	1904718	38.923ug/ml	90
5) Bis(2-chloroethyl)ether	4.83	93	1635283	37.977ug/ml	97
8) 2-Chlorophenol	4.91	128	1772006	39.615ug/ml	100
9) 2-Methylphenol	5.32	108	1452627	38.279ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	2413412	38.787ug/ml	100
11) Acetophenone	5.50	105	2136740	39.495ug/ml	93
12) 4-methylphenol	5.47	108	1538439	38.853ug/ml	99
14) N-Nitroso-di-n-propylamine	5.49	70	1044593	39.313ug/ml	86
15) Hexachloroethane	5.64	117	862892	40.852ug/ml	77
18) Nitrobenzene	5.70	77	1635079	39.641ug/ml	98
19) Isophorone	5.97	82	2798600	39.334ug/ml	95
20) 2-Nitrophenol	6.07	139	963794	38.438ug/ml	90
22) 2,4-Dimethylphenol	6.09	107	1591893	39.381ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	1812176	39.347ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	1615159	40.123ug/ml	95
26) Naphthalene	6.59	128	5061297	41.233ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.65	127	1315267	35.422ug/ml	94
29) Hexachlorobutadiene	6.73	225	1263470	41.025ug/ml	99
30) Caprolactam	7.12	113	440438	40.764ug/ml	98
31) 4-Chloro-3-methylphenol	7.30	107	1327122	39.426ug/ml	93
32) 2-Methylnaphthalene	7.56	142	3288991	39.603ug/ml	95
34) 1,2,4,5-Tetrachlorobenzene	7.81	216	2015682	39.233ug/mL	97
35) Hexachlorocyclopentadiene	7.79	237	1336196	43.229ug/ml	98
36) 2,4,6-Trichlorophenol	7.98	196	1253991	39.537ug/ml	99
37) 2,4,5-Trichlorophenol	8.05	196	1289026	38.518ug/ml	99
38) 1,1'-Biphenyl	8.28	154	4000567	39.011ug/ml	96
39) 2-Chloronaphthalene	8.32	162	3410047	39.755ug/ml	93
40) 2-Nitroaniline	8.47	65	866339	39.215ug/ml	97
41) Dimethylphthalate	8.77	163	3785494	39.213ug/ml	99
43) 2,6-Dinitrotoluene	8.87	165	842323	40.085ug/ml	92
44) Acenaphthylene	9.00	152	5440156	40.478ug/ml	98
46) 3-Nitroaniline	9.16	138	517180	35.200ug/ml	95
47) Acenaphthene	9.29	153	3386774	40.646ug/ml	93
48) 2,4-Dinitrophenol	9.34	184	517481	40.140ug/ml	100
49) 4-Nitrophenol	9.46	109	386543	39.332ug/ml	97
51) Dibenzofuran	9.59	168	4884140	39.705ug/ml	95
52) 2,4-Dinitrotoluene	9.57	165	1148219	40.440ug/ml	83
53) 2,3,4,6-Tetrachlorophenol	9.80	232	1107654	40.339ug/mL	91
54) Diethylphthalate	10.00	149	3773800	38.674ug/ml	99
55) 4-Chlorophenyl-phenylether	10.20	204	2085525	39.633ug/ml	91
56) Fluorene	10.19	166	4044368	41.510ug/ml	100
58) 4-Nitroaniline	10.22	138	704940	38.447ug/ml	73
60) 4,6-Dinitro-2-methylphenol	10.29	198	805467	39.245ug/ml	89
62) N-Nitrosodiphenylamine	10.41	169	2710045	38.240ug/ml	97
63) 4-Bromophenyl-phenyl ether	11.07	248	1341100	39.035ug/ml	86
64) Hexachlorobenzene	11.17	284	1419434	39.159ug/ml	81
65) Atrazine	11.40	200	1143151	39.264ug/ml	98
66) Pentachlorophenol	11.54	266	766774	40.526ug/ml	97
67) Phenanthrene	11.93	178	5831671	39.990ug/ml	99
68) Anthracene	12.02	178	5999007	39.996ug/ml	98
70) Carbazole	12.33	167	4838867	39.772ug/mL	97
71) Di-n-butylphthalate	13.02	149	6602255	38.964ug/ml	99
72) Fluoranthene	14.03	202	6701600	40.079ug/ml	88
74) Pyrene	14.38	202	7055755	39.614ug/ml	86
76) Butylbenzylphthalate	15.29	149	2995426	39.217ug/ml	92
77) 3,3'-Dichlorobenzidine	15.97	252	2406584	41.043ug/ml	96
78) Benzo(a)anthracene	16.01	228	7097135	39.426ug/ml	97
79) Chrysene	16.06	228	6376404	39.254ug/ml	97
80) Bis-(2-ethylhexyl)phthalat	16.04	149	4672441	39.591ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG05S40.D Vial: 4
Acq On : 05/21/2015 16:22 Operator: DJC
Sample : SSTD040DG 28105 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:21 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	17.04	149	7787722	40.467ug/ml	98
83)	Benzo(b)fluoranthene	17.79	252	7015122	40.308ug/ml	93
84)	Benzo(k)fluoranthene	17.85	252	7138233	41.965ug/ml	92
85)	Benzo(a)pyrene	18.49	252	6902353	40.879ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	21.56	276	6548607	40.580ug/ml	75
88)	Dibenzo(a,h)anthracene	21.64	278	6810048	40.950ug/ml	89
89)	Benzo(g,h,i)perylene	22.48	276	6611973	40.526ug/ml	85

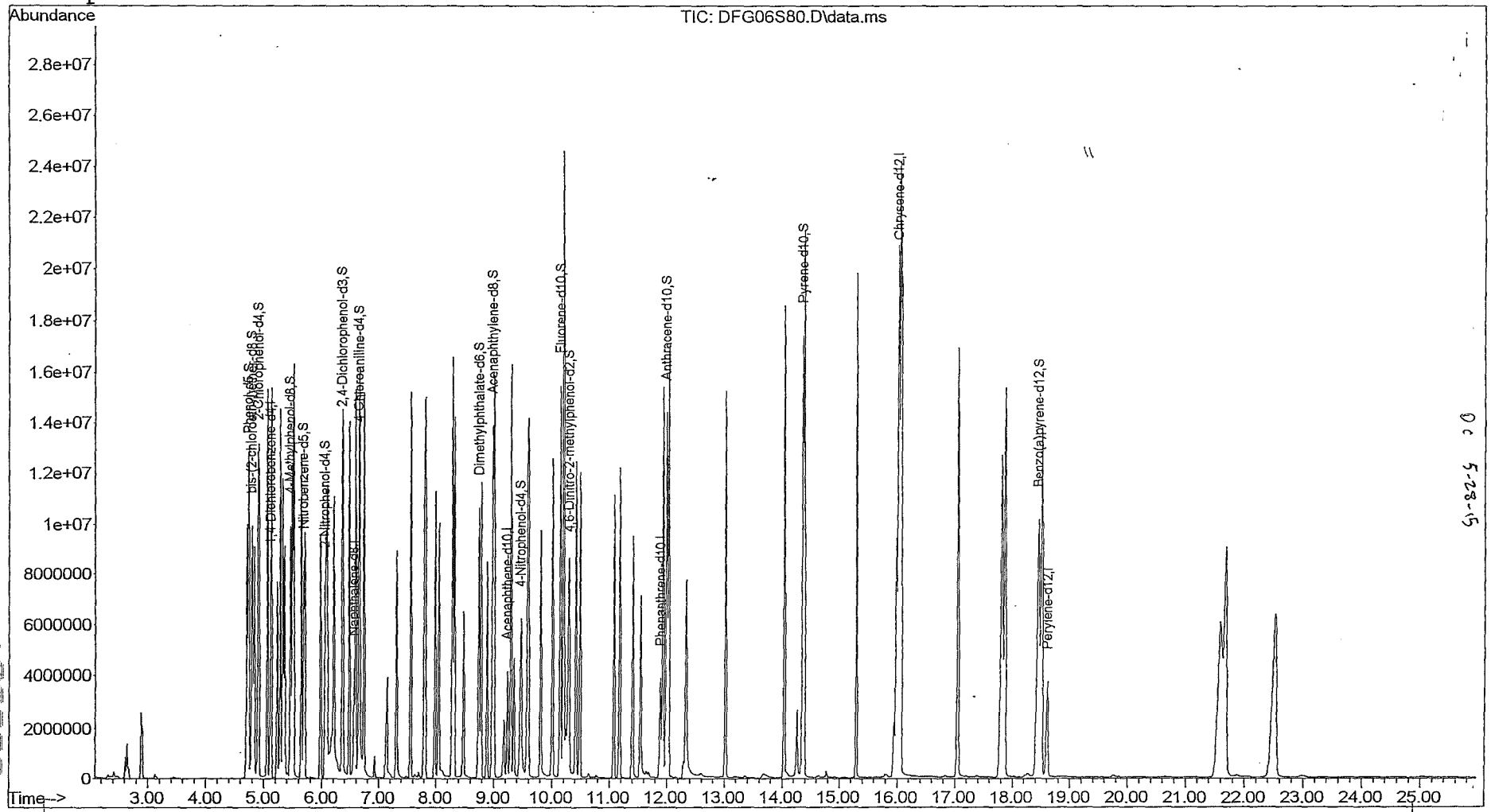
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	723480	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2373530	20.00 ug/ml
33) Acenaphthene-d10	9.24	164	1491125	20.00 ug/ml
59) Phenanthrene-d10	11.89	188	2616667	20.00 ug/ml
73) Chrysene-d12	16.03	240	3034311	20.00 ug/ml
81) Perylene-d12	18.60	264	3075968	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.73	99	3536404	78.540ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	2603263	79.013ug/mL
7) 2-Chlorophenol-d4	4.90	132	3570109	79.545ug/ml
13) 4-Methylphenol-d8	5.46	113	2727194	80.802ug/mL
17) Nitrobenzene-d5	5.69	128	1646716	84.706ug/ml
21) 2-Nitrophenol-d4	6.05	143	1863555	80.834ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	3001307	80.562ug/mL
28) 4-Chloroaniline-d4	6.64	131	1882733	67.267ug/mL
42) Dimethylphthalate-d6	8.75	166	7553265	82.158ug/mL
45) Acenaphthylene-d8	8.98	160	9818288	81.106ug/mL
50) 4-Nitrophenol-d4	9.46	143	1329523	87.070ug/mL
57) Fluorene-d10	10.15	176	6660676	81.989ug/mL
61) 4,6-Dinitro-2-methylphenol	10.29	200	1485902	89.921ug/mL
69) Anthracene-d10	11.99	188	10847878	80.920ug/mL
75) Pyrene-d10	14.36	212	10241427	80.148ug/mL
86) Benzo(a)pyrene-d12	18.44	264	11646615	82.736ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	2294016	79.125ug/ml 94
4) Phenol	4.74	94	3702710	79.442ug/ml 91
5) Bis(2-chloroethyl)ether	4.83	93	3783479	92.253ug/ml 87
8) 2-Chlorophenol	4.92	128	3425297	80.399ug/ml 99
9) 2-Methylphenol	5.32	108	2937557	81.274ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.36	45	4555532	76.870ug/ml 100
11) Acetophenone	5.51	105	4165892	80.845ug/ml 96
12) 4-methylphenol	5.48	108	3071343	81.438ug/ml 98
14) N-Nitroso-di-n-propylamine	5.50	70	2014991	79.620ug/ml 91
15) Hexachloroethane	5.65	117	1680699	83.541ug/ml 77
18) Nitrobenzene	5.70	77	3221351	84.392ug/ml 99
19) Isophorone	5.97	82	5649139	85.796ug/ml 96
20) 2-Nitrophenol	6.07	139	1890873	81.489ug/ml 91
22) 2,4-Dimethylphenol	6.09	107	3087754	82.542ug/ml 93
23) Bis(2-chloroethoxy)methane	6.21	93	3501361	82.149ug/ml 99
24) 2,4-Dichlorophenol	6.37	162	3009132	80.775ug/ml 97
26) Naphthalene	6.59	128	9157682	80.618ug/ml 100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.65	127	2357293	68.602ug/ml	98
29)	Hexachlorobutadiene	6.73	225	2378187	83.442ug/ml	100
30)	Caprolactam	7.15	113	859570	85.968ug/ml	97
31)	4-Chloro-3-methylphenol	7.31	107	2665881	85.579ug/ml	95
32)	2-Methylnaphthalene	7.56	142	6110991	79.514ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.82	216	3737620	78.959ug/mL	97
35)	Hexachlorocyclopentadiene	7.79	237	2670310	93.766ug/ml	98
36)	2,4,6-Trichlorophenol	7.99	196	2497072	85.451ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	2738092	88.803ug/ml	98
38)	1,1'-Biphenyl	8.28	154	7826250	82.833ug/ml	96
39)	2-Chloronaphthalene	8.32	162	6658766	84.256ug/ml	94
40)	2-Nitroaniline	8.48	65	1677452	82.413ug/ml	98
41)	Dimethylphthalate	8.79	163	7171920	80.634ug/ml	99
43)	2,6-Dinitrotoluene	8.89	165	1719586	88.818ug/ml	93
44)	Acenaphthylene	9.00	152	9834430	79.421ug/ml	98
46)	3-Nitroaniline	9.18	138	777507	57.436ug/ml	92
47)	Acenaphthene	9.30	153	6161811	80.263ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	1143327	96.257ug/ml	100
49)	4-Nitrophenol	9.47	109	814051	89.904ug/ml	96
51)	Dibenzofuran	9.60	168	8856778	78.147ug/ml	97
52)	2,4-Dinitrotoluene	9.58	165	2306401	88.165ug/ml	86
53)	2,3,4,6-Tetrachlorophenol	9.81	232	2204141	87.124ug/mL	92
54)	Diethylphthalate	10.02	149	7156170	79.598ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	3556880	73.366ug/ml	93
56)	Fluorene	10.20	166	6787717	75.615ug/ml	98
58)	4-Nitroaniline	10.24	138	1249097	73.940ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.30	198	1644104	89.243ug/ml	89
62)	N-Nitrosodiphenylamine	10.42	169	5087686	79.979ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.08	248	2493739	80.864ug/ml	87
64)	Hexachlorobenzene	11.18	284	2833068	87.073ug/ml	81
65)	Atrazine	11.41	200	2156780	82.529ug/ml	98
66)	Pentachlorophenol	11.55	266	1618609	95.304ug/ml	98
67)	Phenanthrene	11.93	178	10450303	79.835ug/ml	98
68)	Anthracene	12.03	178	10748862	79.837ug/ml	98
70)	Carbazole	12.33	167	8024162	73.476ug/mL	96
71)	Di-n-butylphthalate	13.02	149	12053449	79.248ug/ml	99
72)	Fluoranthene	14.04	202	11744125	78.247ug/ml	90
74)	Pyrene	14.39	202	11851285	75.124ug/ml	90
76)	Butylbenzylphthalate	15.30	149	5625775	83.159ug/ml	92
77)	3,3'-Dichlorobenzidine	15.98	252	3548355	68.325ug/ml	96
78)	Benzo(a)anthracene	16.02	228	12365078	77.554ug/ml	96
79)	Chrysene	16.07	228	11028084	76.651ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	8412841	80.482ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG06S80.D Vial: 5
Acq On : 05/21/2015 16:56 Operator: DJC
Sample : SSTD080DG 28106 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:17:22 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	14166541	78.037ug/ml	96
83) Benzo(b)fluoranthene	17.80	252	13211157	80.470ug/ml	92
84) Benzo(k)fluoranthene	17.86	252	12448185	77.579ug/ml	91
85) Benzo(a)pyrene	18.50	252	12983175	81.514ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.59	276	13278210	87.226ug/ml	76
88) Dibenzo(a,h)anthracene	21.68	278	13716145	87.433ug/ml	89
89) Benzo(g,h,i)perylene	22.53	276	13115401	85.218ug/ml	85

(m) = manual integration

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.: F9KW7

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.: F9KW7

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.: F9KW7

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

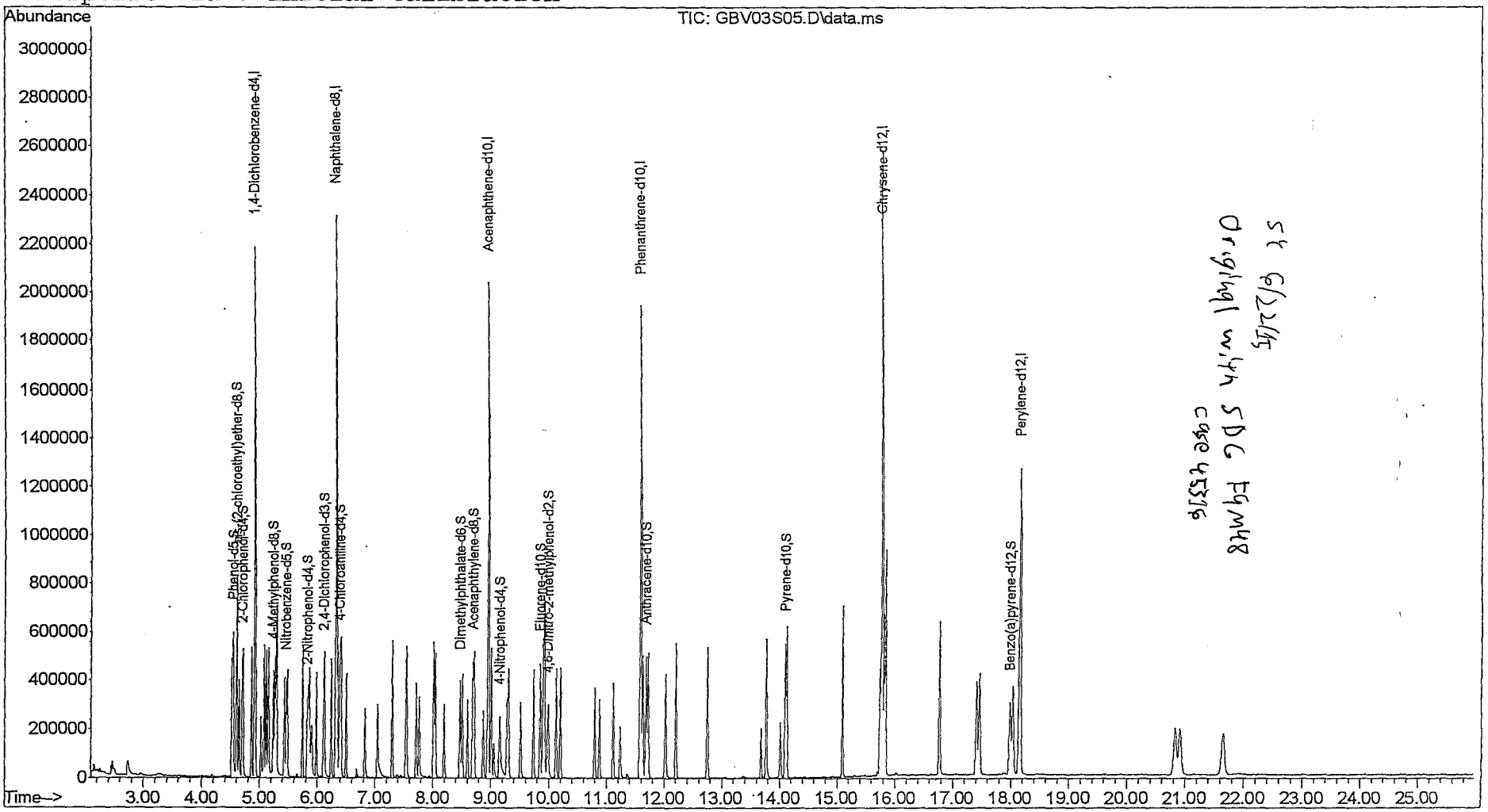
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.721	1.835	1.696	1.662	1.788	1.740	4.0
Bis(2-chloroethyl)ether-d8	1.369	1.397	1.304	1.283	1.429	1.356	4.6
2-Chlorophenol-d4	1.476	1.504	1.453	1.405	1.511	1.470	2.9
4-Methylphenol-d8	1.140	1.189	1.114	1.131	1.247	1.164	4.6
Nitrobenzene-d5	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



GBV03S05.D GSOM01D6.M Sat Jun 20 13:57:25 2015 Page 4

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)

Acq On : 06/20/2015 11:10
Sample : SSTD005GV 28435
Misc : . X07/19/15
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Inst : 5975-G
Injection volume : 1

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)

Acq On : 06/20/2015 11:10
Sample : SSTD005GV 28435
Misc : . X07/19/15
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015

Inst : 5975-G
Injection volume : 1

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

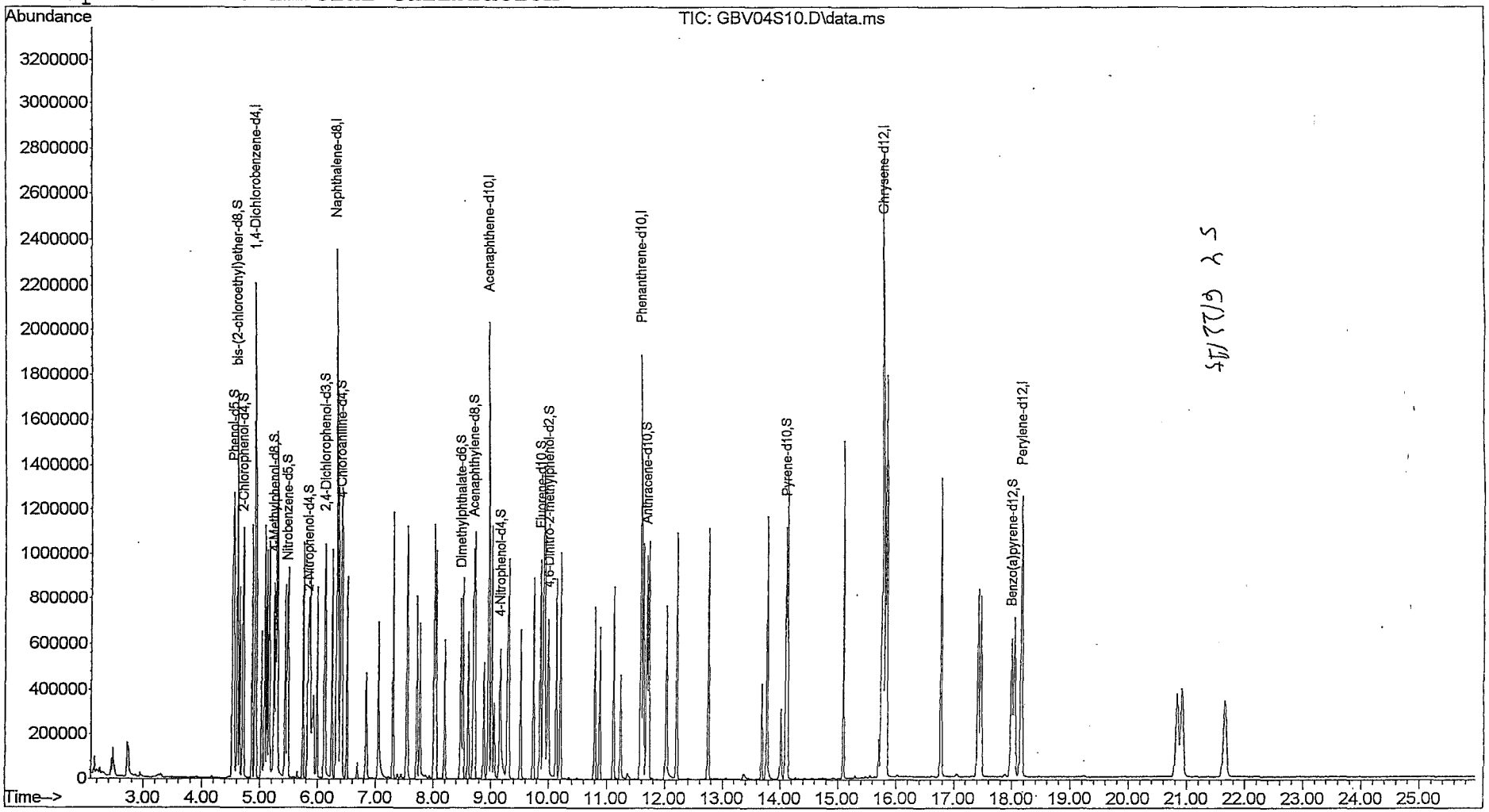
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



Acq On : 06/20/2015 11:45
Sample : SSTD010GV 28435 (2)
Misc : . X07/19/15
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015

Inst : 5975-G
Injection volume : 1

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)

Acq On : 06/20/2015 11:43 Operator: BSC
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)

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

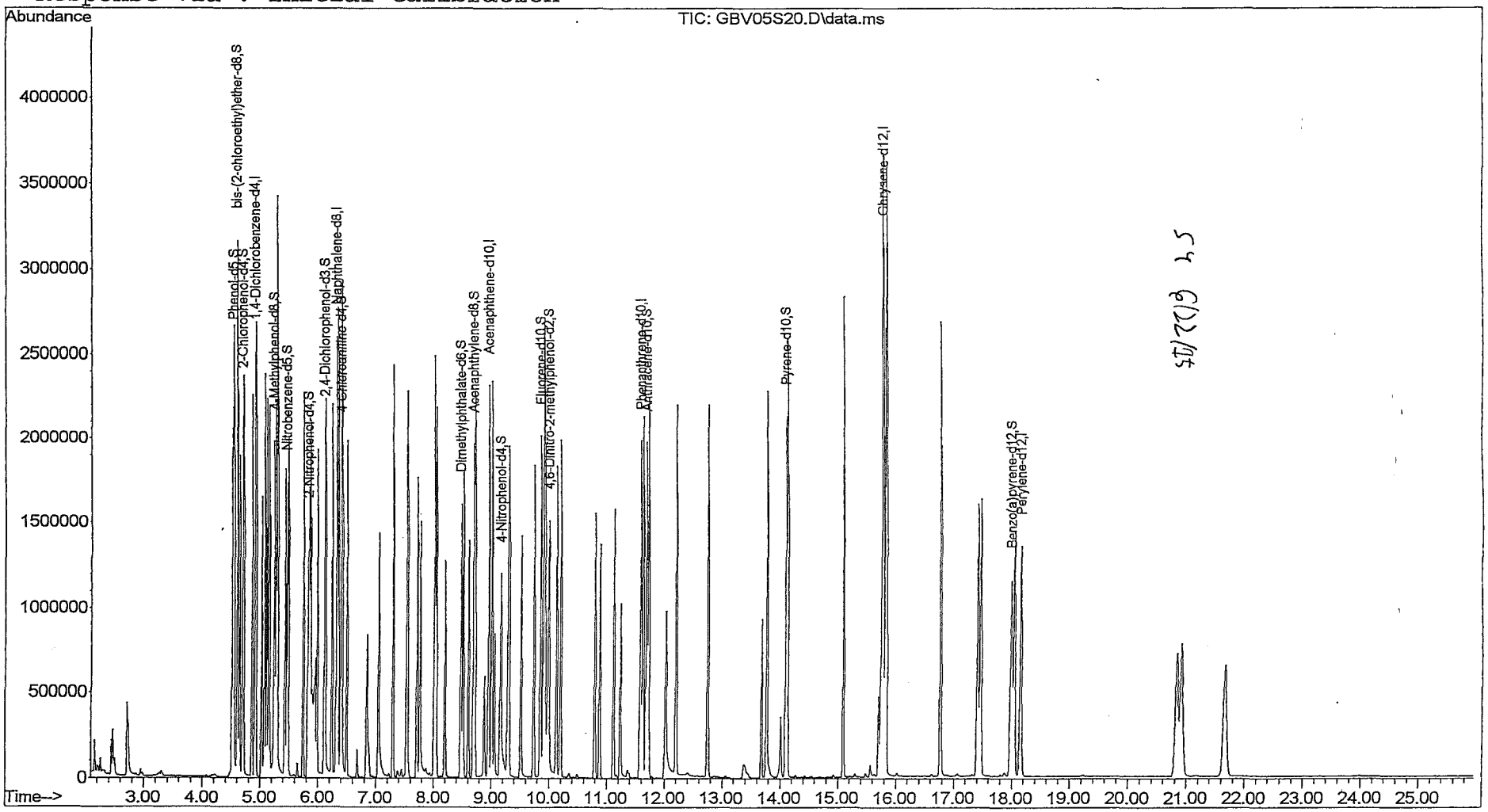
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



STD/TCLP 1,5

Acq On : 06/20/2015 12:16 Operator: DOC
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)

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)

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

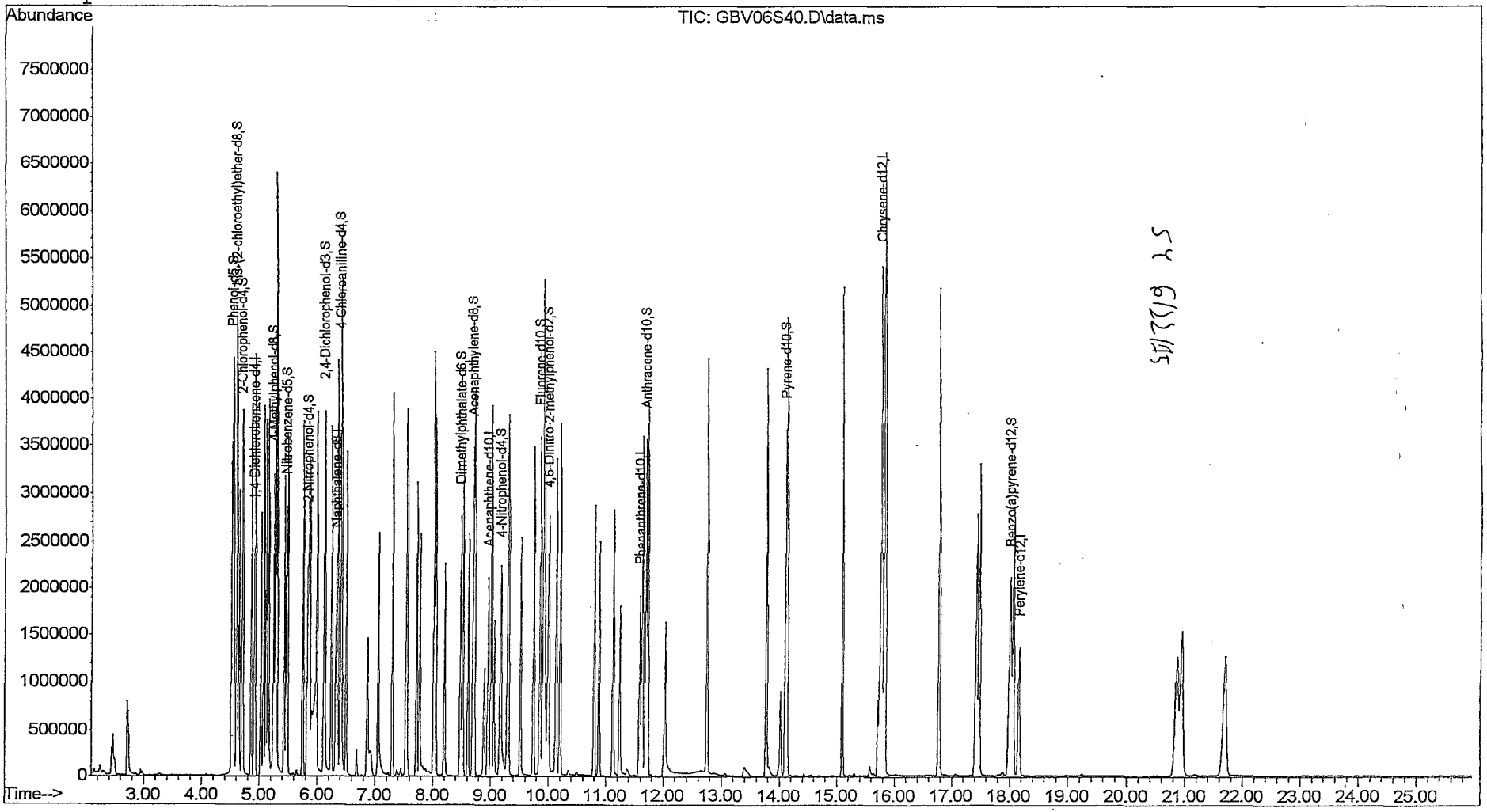
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



SV 6/22/15

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)

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 6/22/15	40
31)	4-Chloro-3-methylphenol	7.05	107	798754	39.818ug/ml	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

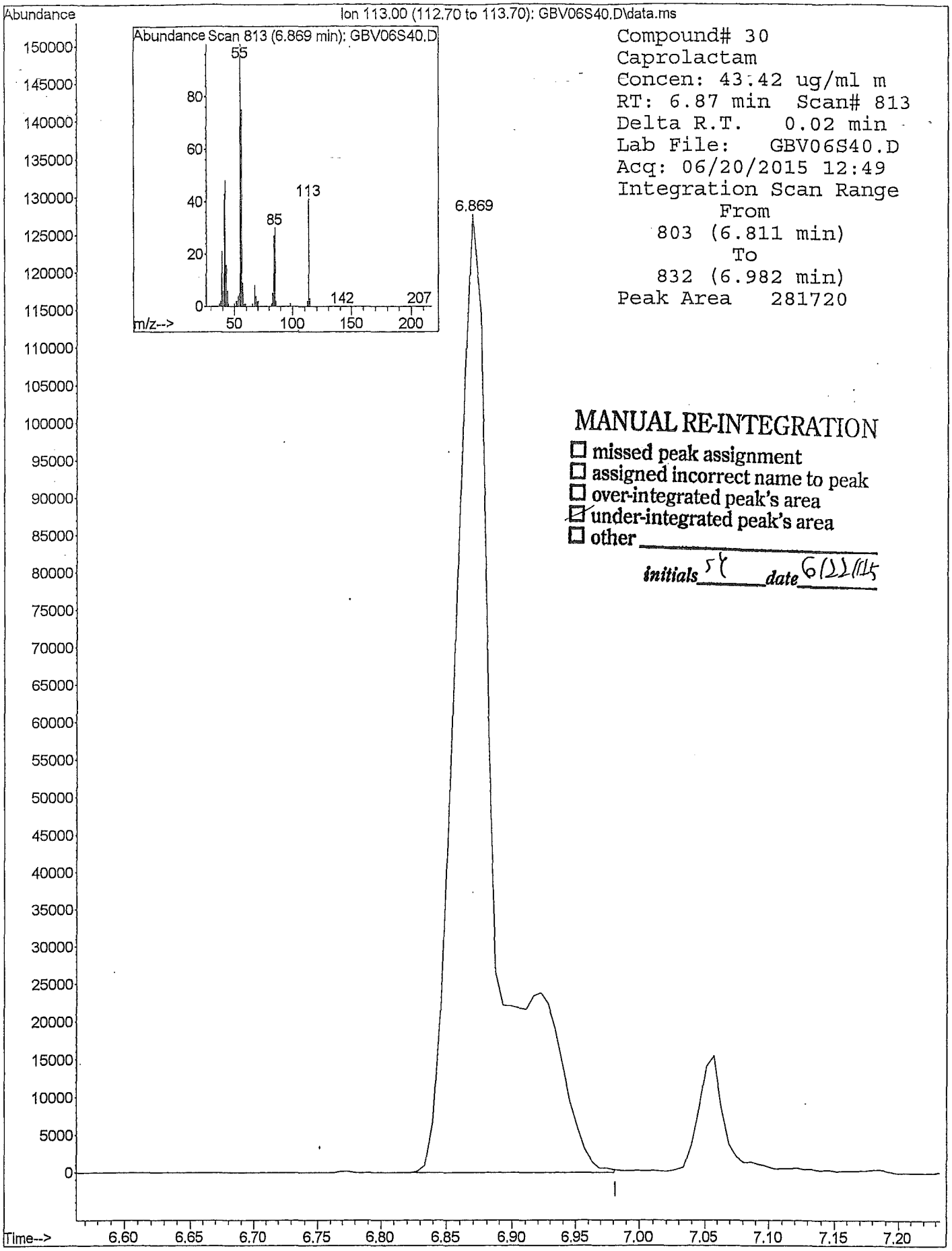
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Acq On : [illegible] Operator: [illegible]
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)



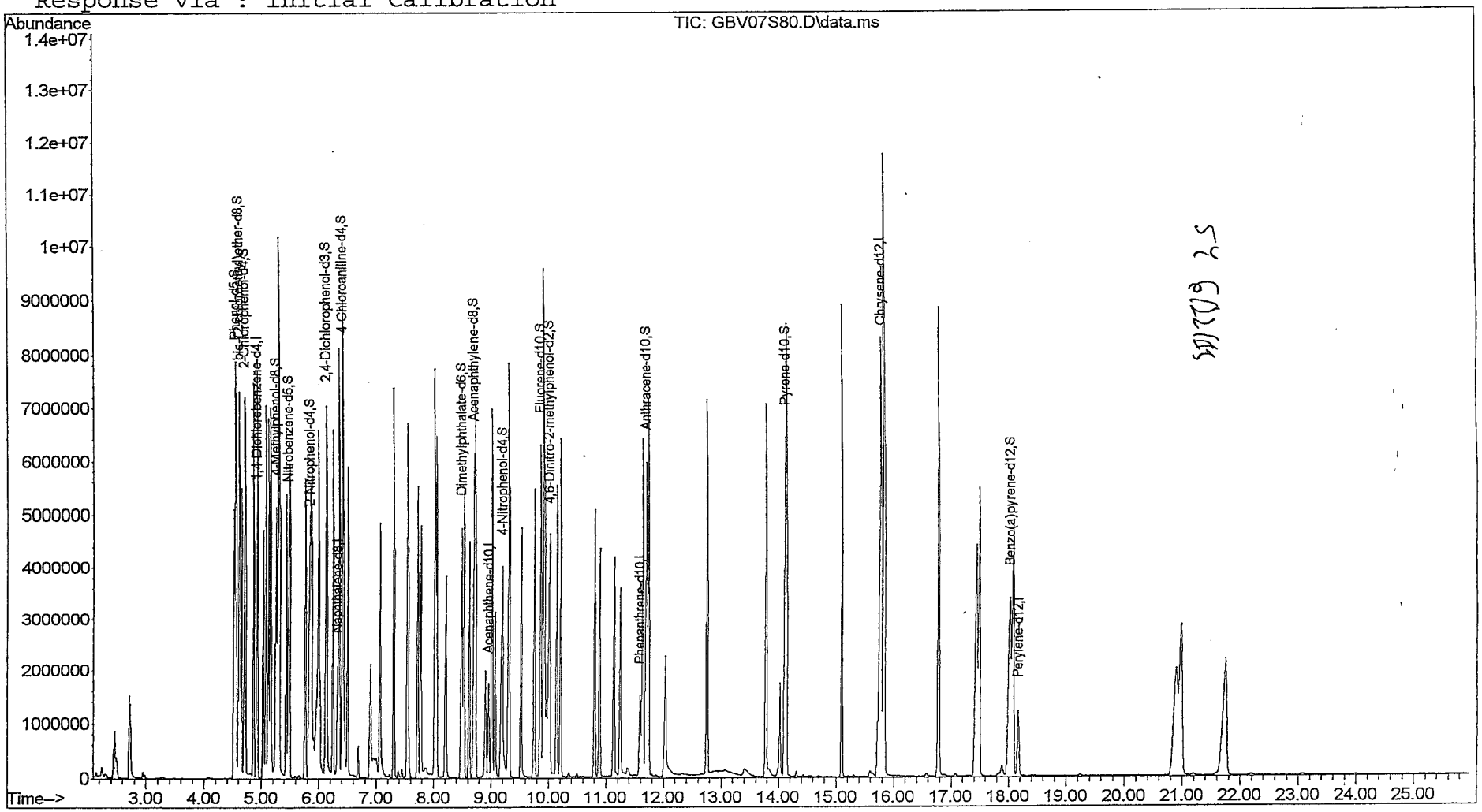
GSOM01D6.M 5975-G GSOM01D6.M SSTD040GV 28436 . X07/19/15

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



GBV07S80.D GSOM01D6.M Sat Jun 20 13:57:30 2015

Acq On : 06/20/2015 13:22
Sample : SSTD080GV 28437
Misc : . X07/19/15
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015

Inst : 5975-G
Injection volume : 1

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)

Acq On : 06/20/2015 13:22 Operator: DUC
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 SK 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

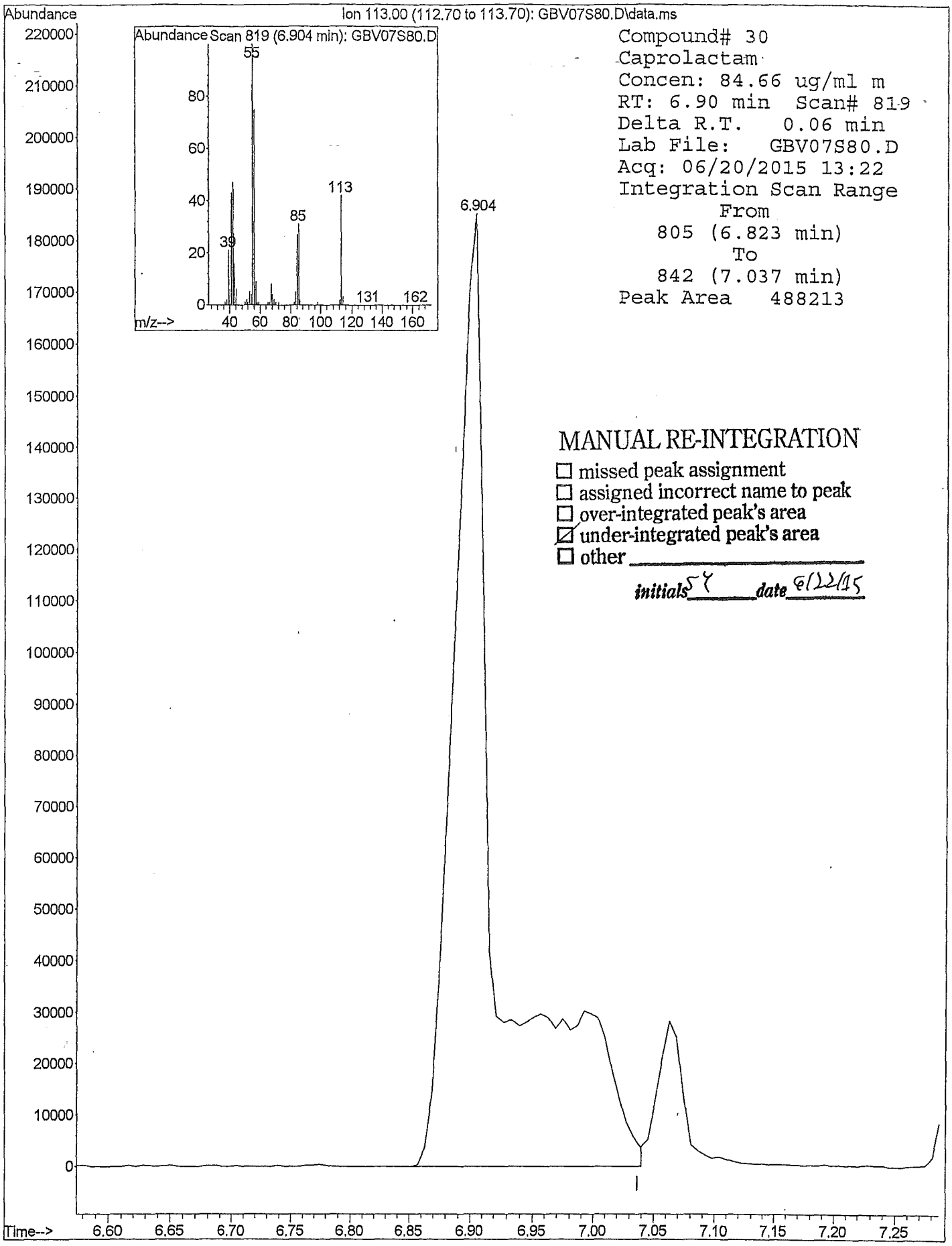
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)



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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 08:33

Lab File ID: DFL01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.682	0.010	-15.0	40.0
Phenol	1.288	1.342	0.800	4.2	25.0
Bis(2-chloroethyl)ether	1.134	1.163	0.700	2.6	25.0
2-Chlorophenol	1.178	1.217	0.800	3.3	25.0
2-Methylphenol	0.999	1.062	0.700	6.3	25.0
2,2'-Oxybis(1-chloropropane)	1.638	1.663	0.010	1.5	40.0
Acetophenone	1.424	1.489	0.010	4.5	40.0
4-Methylphenol	1.043	1.074	0.600	3.0	25.0
N-Nitroso-di-n-propylamine	0.700	0.692	0.500	-1.1	25.0
Hexachloroethane	0.556	0.581	0.300	4.4	25.0
Nitrobenzene	0.322	0.337	0.200	4.7	25.0
Isophorone	0.555	0.569	0.400	2.5	25.0
2-Nitrophenol	0.196	0.200	0.100	2.4	25.0
2,4-Dimethylphenol	0.315	0.314	0.200	-0.3	25.0
Bis(2-chloroethoxy)methane	0.359	0.363	0.300	1.0	25.0
2,4-Dichlorophenol	0.314	0.330	0.200	5.0	25.0
Naphthalene	0.957	1.002	0.700	4.7	25.0
4-Chloroaniline	0.290	0.307	0.010	5.9	40.0
Hexachlorobutadiene	0.240	0.255	0.010	6.2	40.0
Caprolactam	0.084	0.087	0.010	3.7	40.0
4-Chloro-3-methylphenol	0.262	0.260	0.200	-1.0	25.0
2-Methylnaphthalene	0.648	0.656	0.400	1.3	25.0
Hexachlorocyclopentadiene	0.382	0.434	0.010	13.6	40.0
2,4,6-Trichlorophenol	0.392	0.399	0.200	1.7	25.0
2,4,5-Trichlorophenol	0.414	0.425	0.200	2.8	25.0
1,1'-Biphenyl	1.267	1.369	0.010	8.0	40.0
2-Chloronaphthalene	1.060	1.111	0.800	4.8	25.0
2-Nitroaniline	0.273	0.275	0.010	0.6	40.0
Dimethylphthalate	1.193	1.218	0.010	2.1	40.0
2,6-Dinitrotoluene	0.260	0.269	0.200	3.7	25.0
Acenaphthylene	1.661	1.740	0.900	4.8	25.0
3-Nitroaniline	0.182	0.216	0.010	18.8	40.0
Acenaphthene	1.030	1.081	0.900	5.0	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 08:33

Lab File ID: DFL01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.162	0.010	1.6	40.0
4-Nitrophenol	0.121	0.120	0.010	-0.8	40.0
Dibenzofuran	1.520	1.542	0.800	1.4	25.0
2,4-Dinitrotoluene	0.351	0.365	0.200	4.0	25.0
Diethylphthalate	1.206	1.345	0.010	11.5	40.0
Fluorene	1.204	1.299	0.900	7.9	25.0
4-Chlorophenyl-phenylether	0.650	0.704	0.400	8.3	25.0
4-Nitroaniline	0.227	0.234	0.010	3.4	40.0
4,6-Dinitro-2-methylphenol	0.141	0.142	0.010	1.0	40.0
N-Nitrosodiphenylamine (1)	0.486	0.503	0.010	3.5	40.0
1,2,4,5-Tetrachlorobenzene	0.635	0.682	0.010	7.4	40.0
4-Bromophenyl-phenylether	0.236	0.243	0.100	3.3	25.0
Hexachlorobenzene	0.249	0.259	0.100	4.3	25.0
Atrazine	0.200	0.194	0.010	-2.8	40.0
Pentachlorophenol	0.130	0.129	0.050	-0.4	25.0
Phenanthrene	1.000	1.057	0.700	5.6	25.0
Anthracene	1.029	1.082	0.700	5.1	25.0
Carbazole	0.835	0.879	0.010	5.3	40.0
Di-n-butylphthalate	1.163	1.339	0.010	15.2	40.0
Fluoranthene	1.147	1.251	0.600	9.1	25.0
Pyrene	1.040	1.091	0.600	4.9	25.0
Butylbenzylphthalate	0.446	0.464	0.010	4.0	40.0
3,3'-Dichlorobenzidine	0.342	0.367	0.010	7.4	40.0
Benzo(a)anthracene	1.051	1.098	0.800	4.5	25.0
Chrysene	0.948	1.006	0.700	6.1	25.0
Bis(2-ethylhexyl)phthalate	0.689	0.761	0.010	10.4	40.0
Di-n-octylphthalate	1.180	1.284	0.010	8.8	40.0
Benzo(b)fluoranthene	1.067	1.116	0.700	4.5	25.0
Benzo(k)fluoranthene	1.043	1.124	0.700	7.7	25.0
Benzo(a)pyrene	1.036	1.081	0.700	4.4	25.0
Indeno(1,2,3-cd)pyrene	0.990	1.063	0.500	7.4	25.0
Dibenzo(a,h)anthracene	1.020	1.084	0.400	6.3	25.0
Benzo(g,h,i)perylene	1.001	1.059	0.500	5.9	25.0
2,3,4,6-Tetrachlorophenol	0.339	0.341	0.100	0.6	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 08:33

Lab File ID: DFL01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

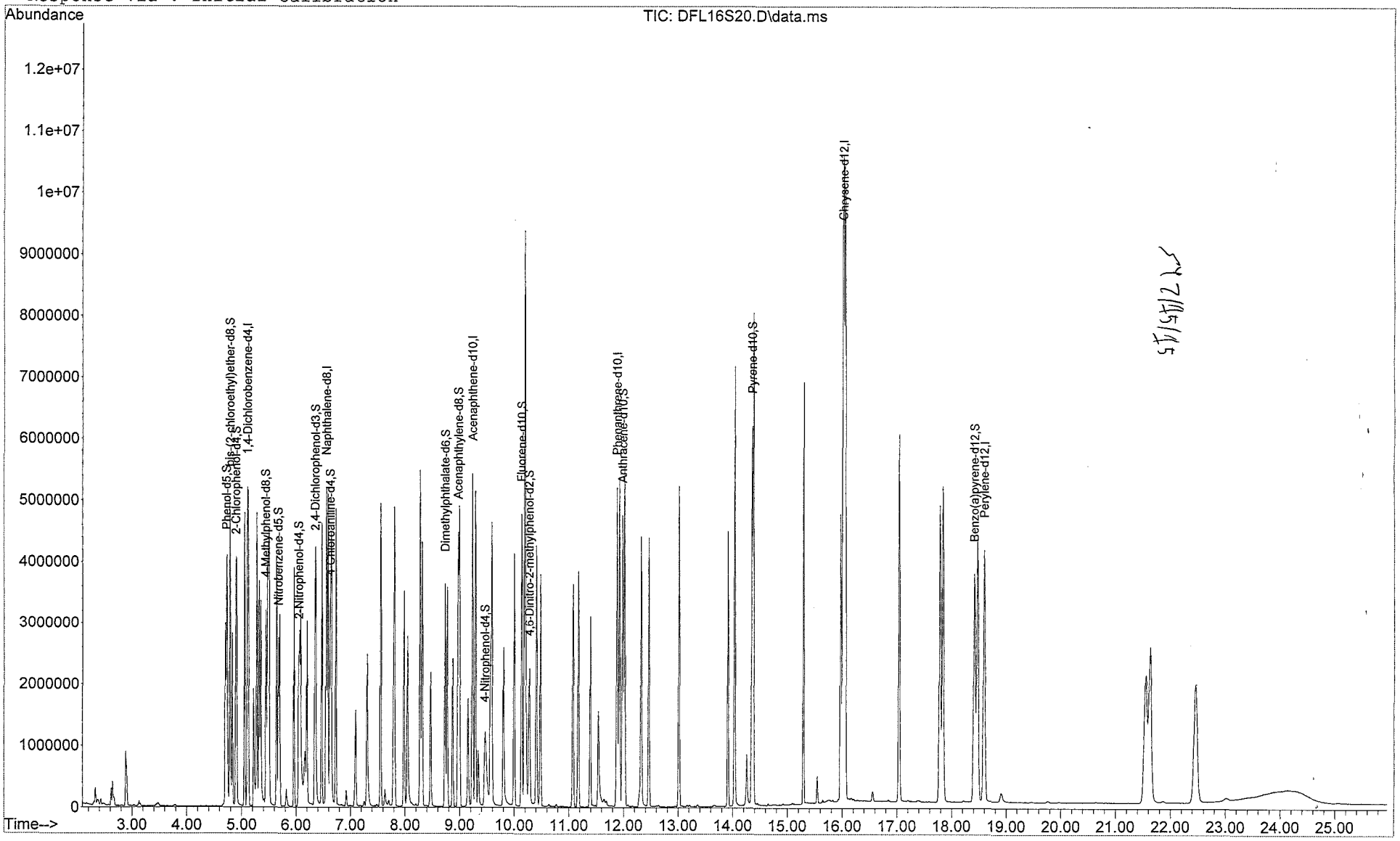
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.265	0.010	1.6	25.0
Bis(2-chloroethyl)ether-d8	0.911	0.903	0.010	-0.9	25.0
2-Chlorophenol-d4	1.241	1.253	0.010	1.0	25.0
4-Methylphenol-d8	0.933	0.914	0.010	-2.0	25.0
Nitrobenzene-d5	0.164	0.165	0.010	0.5	25.0
2-Nitrophenol-d4	0.194	0.187	0.010	-3.9	25.0
2,4-Dichlorophenol-d3	0.314	0.320	0.010	1.9	25.0
4-Chloroaniline-d4	0.236	0.225	0.010	-4.5	40.0
Dimethylphthalate-d6	1.233	1.222	0.010	-0.9	40.0
Acenaphthylene-d8	1.624	1.629	0.010	0.4	25.0
4-Nitrophenol-d4	0.205	0.194	0.010	-5.3	40.0
Fluorene-d10	1.090	1.091	0.010	0.1	25.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.124	0.010	-1.6	40.0
Anthracene-d10	1.025	1.021	0.010	-0.3	25.0
Pyrene-d10	0.842	0.831	0.010	-1.3	25.0
Benzo(a)pyrene-d12	0.915	0.920	0.010	0.5	25.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.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



DFL16S20.D GSOM01D6.M Wed Jul 15 13:39:02 2015

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.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	5.11	152	868168	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2892628	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1811761	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3193186	20.00 ug/ml
73) Chrysene-d12	16.02	240	3968436	20.00 ug/ml
81) Perylene-d12	18.60	264	3690216	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1099654	20.352ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	789194	19.961ug/mL
7) 2-Chlorophenol-d4	4.89	132	1085298	20.151ug/ml
13) 4-Methylphenol-d8	5.45	113	817997	20.197ug/mL
17) Nitrobenzene-d5	5.67	128	477219	20.143ug/ml
21) 2-Nitrophenol-d4	6.05	143	550264	19.585ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	933707	20.565ug/mL
28) 4-Chloroaniline-d4	6.62	131	835766	24.502ug/mL
42) Dimethylphthalate-d6	8.73	166	2239444	20.048ug/mL
45) Acenaphthylene-d8	8.97	160	2958233	20.112ug/mL
50) 4-Nitrophenol-d4	9.46	143	356622	19.222ug/mL
57) Fluorene-d10	10.13	176	1989158	20.152ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	361296	17.917ug/mL
69) Anthracene-d10	11.98	188	3285564	20.084ug/mL
75) Pyrene-d10	14.34	212	3281170	19.634ug/mL
86) Benzo(a)pyrene-d12	18.42	264	3357431	19.881ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	625769	17.987ug/ml 94
4) Phenol	4.73	94	1165785	20.844ug/ml 91
5) Bis(2-chloroethyl)ether	4.83	93	968710	19.684ug/ml 95
8) 2-Chlorophenol	4.91	128	1062915	20.791ug/ml 98
9) 2-Methylphenol	5.32	108	937835	21.623ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1424196	20.027ug/ml 100
11) Acetophenone	5.50	105	1309966	21.185ug/ml 93
12) 4-methylphenol	5.47	108	945283	20.887ug/ml 98
14) N-Nitroso-di-n-propylamine	5.49	70	614722	20.242ug/ml 84
15) Hexachloroethane	5.64	117	490583	20.321ug/ml 75
18) Nitrobenzene	5.70	77	972286	20.901ug/ml 98
19) Isophorone	5.96	82	1677384	20.904ug/ml 95
20) 2-Nitrophenol	6.06	139	577803	20.432ug/ml 91
22) 2,4-Dimethylphenol	6.09	107	924815	20.286ug/ml 91
23) Bis(2-chloroethoxy)methane	6.20	93	1063345	20.471ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	951590	20.960ug/ml 95
26) Naphthalene	6.59	128	2903407	20.973ug/ml 99
27) 4-Chloroaniline	6.63	127	1019920	24.355ug/ml 99
29) Hexachlorobutadiene	6.73	225	736887	21.215ug/ml 99
30) Caprolactam	7.10	113	260188	21.352ug/ml 97
31) 4-Chloro-3-methylphenol	7.30	107	770115	20.285ug/ml 92
32) 2-Methylnaphthalene	7.56	142	1938338	20.695ug/ml 96
34) 1,2,4,5-Tetrachlorobenzene	7.81	216	1221275	21.234ug/mL 96
35) Hexachlorocyclopentadiene	7.79	237	541960	15.663ug/ml 98
36) 2,4,6-Trichlorophenol	7.98	196	730027	20.561ug/ml 99
37) 2,4,5-Trichlorophenol	8.05	196	768069	20.502ug/ml 99
38) 1,1'-Biphenyl	8.27	154	2451215	21.352ug/ml 96
39) 2-Chloronaphthalene	8.32	162	1999458	20.822ug/ml 90
40) 2-Nitroaniline	8.47	65	506856	20.495ug/ml 97
41) Dimethylphthalate	8.77	163	2232503	20.658ug/ml 99
43) 2,6-Dinitrotoluene	8.87	165	493615	20.984ug/ml 92

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

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL16S20.D Vial: 1
Acq On : 05/27/2015 17:12 Operator: DJC
Sample : SSTD020L1 28104 DFTPPL1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 27 17:38:13 2015 Results File: DSOM01D5.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	9.00	152	3142173	20.885ug/ml	98
46)	3-Nitroaniline	9.16	138	472225	28.711ug/ml	93
47)	Acenaphthene	9.29	153	1959237	21.004ug/ml	93
48)	2,4-Dinitrophenol	9.34	184	237607	16.464ug/ml	100
49)	4-Nitrophenol	9.47	109	220091	20.005ug/ml	93
51)	Dibenzofuran	9.59	168	2796498	20.308ug/ml	95
52)	2,4-Dinitrotoluene	9.56	165	672831	21.168ug/ml	79
53)	2,3,4,6-Tetrachlorophenol	9.80	232	628167	20.436ug/mL	92
54)	Diethylphthalate	10.00	149	2199399	20.134ug/ml	100
55)	4-Chlorophenyl-phenylether	10.20	204	1285354	21.820ug/ml	89
56)	Fluorene	10.19	166	2382434	21.843ug/ml	99
58)	4-Nitroaniline	10.22	138	500006	24.360ug/ml	80
60)	4,6-Dinitro-2-methylphenol	10.28	198	415636	18.488ug/ml	90
62)	N-Nitrosodiphenylamine	10.40	169	1647905	21.228ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	785539	20.874ug/ml	86
64)	Hexachlorobenzene	11.17	284	829909	20.902ug/ml	81
65)	Atrazine	11.39	200	591657	18.552ug/ml	98
66)	Pentachlorophenol	11.54	266	387921	18.717ug/ml	99
67)	Phenanthrene	11.92	178	3402659	21.301ug/ml	99
68)	Anthracene	12.02	178	3484587	21.209ug/ml	99
70)	Carbazole	12.32	167	2970929	22.293ug/mL	97
71)	Di-n-butylphthalate	13.02	149	4017483	21.645ug/ml	99
72)	Fluoranthene	14.03	202	4058543	22.159ug/ml	88
74)	Pyrene	14.37	202	4312484	20.902ug/ml	86
76)	Butylbenzylphthalate	15.29	149	1834536	20.735ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	1541834	22.700ug/ml	95
78)	Benzo(a)anthracene	16.00	228	4382054	21.015ug/ml	97
79)	Chrysene	16.06	228	3979291	21.148ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	2925922	21.402ug/ml	99
82)	Di-n-octylphthalate	17.04	149	4773292	21.917ug/ml	98
83)	Benzo(b)fluoranthene	17.79	252	4098506	20.809ug/ml	93
84)	Benzo(k)fluoranthene	17.84	252	4143337	21.524ug/ml	93
85)	Benzo(a)pyrene	18.47	252	3974543	20.800ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	21.55	276	3711773	20.324ug/ml	74
88)	Dibenzo(a,h)anthracene	21.63	278	3800573	20.194ug/ml	89
89)	Benzo(g,h,i)perylene	22.47	276	3548826	19.221ug/ml	85

(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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 17:12

Lab File ID: DFL16S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.801	0.721	0.010	-10.1	50.0
Phenol	1.288	1.343	0.010	4.2	50.0
Bis(2-chloroethyl)ether	1.134	1.116	0.010	-1.6	50.0
2-Chlorophenol	1.178	1.224	0.010	4.0	50.0
2-Methylphenol	0.999	1.080	0.010	8.1	50.0
2,2'-Oxybis(1-chloropropane)	1.638	1.640	0.010	0.1	50.0
Acetophenone	1.424	1.509	0.010	5.9	50.0
4-Methylphenol	1.043	1.089	0.010	4.4	50.0
N-Nitroso-di-n-propylamine	0.700	0.708	0.010	1.2	50.0
Hexachloroethane	0.556	0.565	0.010	1.6	50.0
Nitrobenzene	0.322	0.336	0.010	4.5	50.0
Isophorone	0.555	0.580	0.010	4.5	50.0
2-Nitrophenol	0.196	0.200	0.010	2.2	50.0
2,4-Dimethylphenol	0.315	0.320	0.010	1.4	50.0
Bis(2-chloroethoxy)methane	0.359	0.368	0.010	2.4	50.0
2,4-Dichlorophenol	0.314	0.329	0.010	4.8	50.0
Naphthalene	0.957	1.004	0.010	4.9	50.0
4-Chloroaniline	0.290	0.353	0.010	21.8	50.0
Hexachlorobutadiene	0.240	0.255	0.010	6.1	50.0
Caprolactam	0.084	0.090	0.010	6.8	50.0
4-Chloro-3-methylphenol	0.262	0.266	0.010	1.4	50.0
2-Methylnaphthalene	0.648	0.670	0.010	3.5	50.0
Hexachlorocyclopentadiene	0.382	0.299	0.010	-21.7	50.0
2,4,6-Trichlorophenol	0.392	0.403	0.010	2.8	50.0
2,4,5-Trichlorophenol	0.414	0.424	0.010	2.5	50.0
1,1'-Biphenyl	1.267	1.353	0.010	6.8	50.0
2-Chloronaphthalene	1.060	1.104	0.010	4.1	50.0
2-Nitroaniline	0.273	0.280	0.010	2.5	50.0
Dimethylphthalate	1.193	1.232	0.010	3.3	50.0
2,6-Dinitrotoluene	0.260	0.272	0.010	4.9	50.0
Acenaphthylene	1.661	1.734	0.010	4.4	50.0
3-Nitroaniline	0.182	0.261	0.010	43.6	50.0
Acenaphthene	1.030	1.081	0.010	5.0	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 17:12

Lab File ID: DFL16S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.159	0.131	0.010	-17.7	50.0
4-Nitrophenol	0.121	0.121	0.010	0.0	50.0
Dibenzofuran	1.520	1.544	0.010	1.5	50.0
2,4-Dinitrotoluene	0.351	0.371	0.010	5.8	50.0
Diethylphthalate	1.206	1.214	0.010	0.7	50.0
Fluorene	1.204	1.315	0.010	9.2	50.0
4-Chlorophenyl-phenylether	0.650	0.709	0.010	9.1	50.0
4-Nitroaniline	0.227	0.276	0.010	21.8	50.0
4,6-Dinitro-2-methylphenol	0.141	0.130	0.010	-7.6	50.0
N-Nitrosodiphenylamine (1)	0.486	0.516	0.010	6.1	50.0
1,2,4,5-Tetrachlorobenzene	0.635	0.674	0.010	6.2	50.0
4-Bromophenyl-phenylether	0.236	0.246	0.010	4.4	50.0
Hexachlorobenzene	0.249	0.260	0.010	4.5	50.0
Atrazine	0.200	0.185	0.010	-7.2	50.0
Pentachlorophenol	0.130	0.121	0.010	-6.4	50.0
Phenanthrene	1.000	1.066	0.010	6.5	50.0
Anthracene	1.029	1.091	0.010	6.0	50.0
Carbazole	0.835	0.930	0.010	11.5	50.0
Di-n-butylphthalate	1.163	1.258	0.010	8.2	50.0
Fluoranthene	1.147	1.271	0.010	10.8	50.0
Pyrene	1.040	1.087	0.010	4.5	50.0
Butylbenzylphthalate	0.446	0.462	0.010	3.7	50.0
3,3'-Dichlorobenzidine	0.342	0.389	0.010	13.5	50.0
Benzo(a)anthracene	1.051	1.104	0.010	5.1	50.0
Chrysene	0.948	1.003	0.010	5.7	50.0
Bis(2-ethylhexyl)phthalate	0.689	0.737	0.010	7.0	50.0
Di-n-octylphthalate	1.180	1.293	0.010	9.6	50.0
Benzo(b)fluoranthene	1.067	1.111	0.010	4.0	50.0
Benzo(k)fluoranthene	1.043	1.123	0.010	7.6	50.0
Benzo(a)pyrene	1.036	1.077	0.010	4.0	50.0
Indeno(1,2,3-cd)pyrene	0.990	1.006	0.010	1.6	50.0
Dibenzo(a,h)anthracene	1.020	1.030	0.010	1.0	50.0
Benzo(g,h,i)perylene	1.001	0.962	0.010	-3.9	50.0
2,3,4,6-Tetrachlorophenol	0.339	0.347	0.010	2.2	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.: F9KW7

Instrument ID: 5975-D Calibration Date: 05/27/2015 Time: 17:12

Lab File ID: DFL16S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

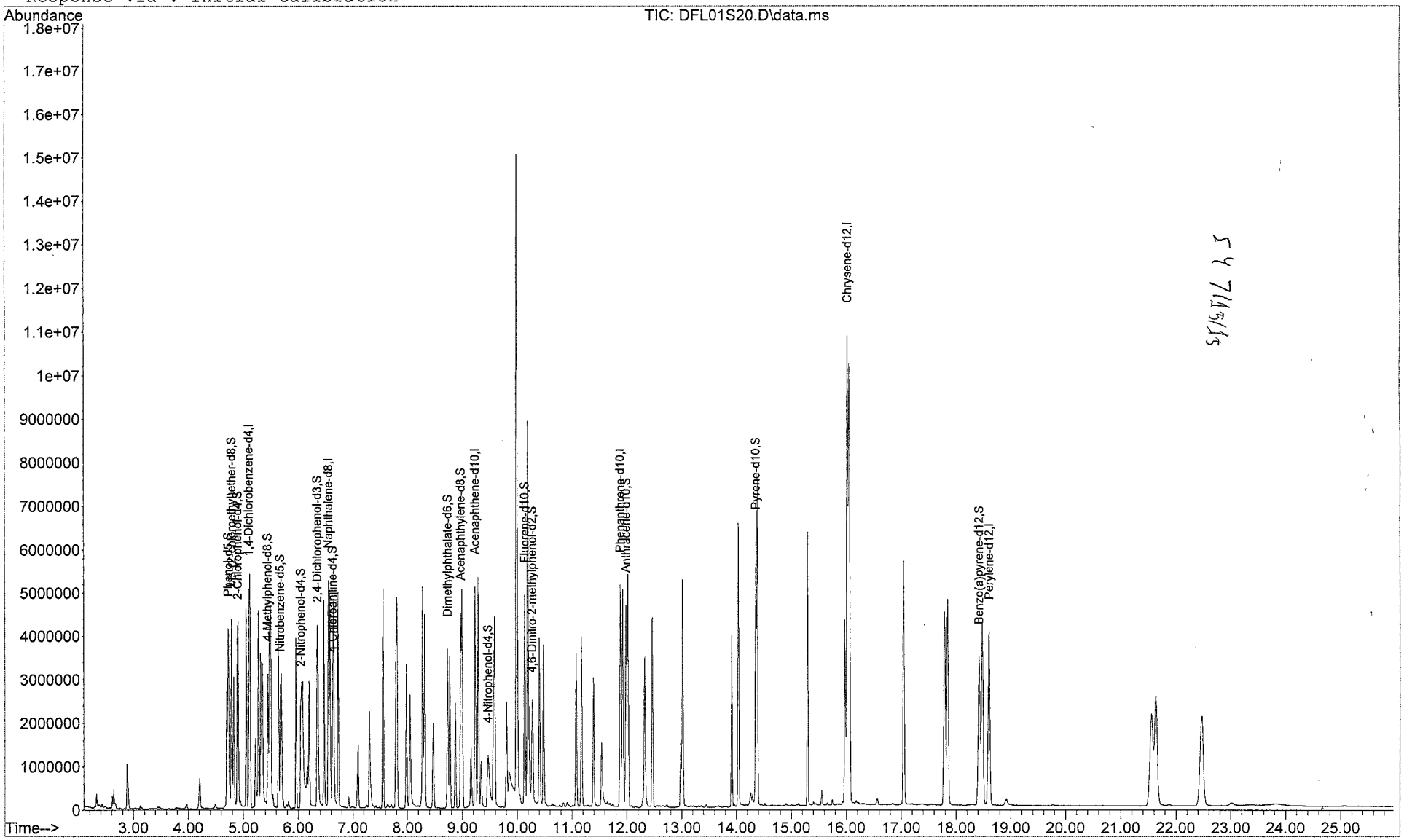
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.267	0.010	1.8	50.0
Bis(2-chloroethyl)ether-d8	0.911	0.909	0.010	-0.2	50.0
2-Chlorophenol-d4	1.241	1.250	0.010	0.8	50.0
4-Methylphenol-d8	0.933	0.942	0.010	1.0	50.0
Nitrobenzene-d5	0.164	0.165	0.010	0.7	50.0
2-Nitrophenol-d4	0.194	0.190	0.010	-2.1	50.0
2,4-Dichlorophenol-d3	0.314	0.323	0.010	2.8	50.0
4-Chloroaniline-d4	0.236	0.289	0.010	22.5	50.0
Dimethylphthalate-d6	1.233	1.236	0.010	0.2	50.0
Acenaphthylene-d8	1.624	1.633	0.010	0.6	50.0
4-Nitrophenol-d4	0.205	0.197	0.010	-3.9	50.0
Fluorene-d10	1.090	1.098	0.010	0.8	50.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.113	0.010	-10.4	50.0
Anthracene-d10	1.025	1.029	0.010	0.4	50.0
Pyrene-d10	0.842	0.827	0.010	-1.8	50.0
Benzo(a)pyrene-d12	0.915	0.910	0.010	-0.6	50.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.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)\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.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	5.10	152	877489	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2881851	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1770482	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3099613	20.00 ug/ml
73) Chrysene-d12	16.03	240	3769374	20.00 ug/ml
81) Perylene-d12	18.60	264	3504700	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1110097	20.327ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	792171	19.824ug/mL
7) 2-Chlorophenol-d4	4.89	132	1099441	20.197ug/ml
13) 4-Methylphenol-d8	5.45	113	802358	19.600ug/mL
17) Nitrobenzene-d5	5.67	128	474403	20.099ug/ml
21) 2-Nitrophenol-d4	6.05	143	537926	19.218ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	921782	20.378ug/mL
28) 4-Chloroaniline-d4	6.63	131	649375	19.109ug/mL
42) Dimethylphthalate-d6	8.73	166	2163514	19.820ug/mL
45) Acenaphthylene-d8	8.97	160	2884818	20.071ug/mL
50) 4-Nitrophenol-d4	9.46	143	343343	18.938ug/mL
57) Fluorene-d10	10.14	176	1931700	20.026ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	385171	19.677ug/mL
69) Anthracene-d10	11.99	188	3164920	19.930ug/mL
75) Pyrene-d10	14.35	212	3133191	19.738ug/mL
86) Benzo(a)pyrene-d12	18.42	264	3224124	20.102ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.70	77	598012	17.006ug/ml 93
4) Phenol	4.73	94	1177558	20.830ug/ml 90
5) Bis(2-chloroethyl)ether	4.83	93	1020363	20.513ug/ml 94
8) 2-Chlorophenol	4.91	128	1067633	20.661ug/ml 99
9) 2-Methylphenol	5.32	108	931654	21.252ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1458912	20.297ug/ml 100
11) Acetophenone	5.50	105	1306691	20.908ug/ml 93
12) 4-methylphenol	5.47	108	942686	20.609ug/ml 97
14) N-Nitroso-di-n-propylamine	5.49	70	606967	19.774ug/ml 84
15) Hexachloroethane	5.64	117	509606	20.885ug/ml 76
18) Nitrobenzene	5.70	77	970761	20.946ug/ml 98
19) Isophorone	5.96	82	1639593	20.509ug/ml 95
20) 2-Nitrophenol	6.06	139	577059	20.482ug/ml 92
22) 2,4-Dimethylphenol	6.09	107	905262	19.931ug/ml 90
23) Bis(2-chloroethoxy)methane	6.20	93	1045836	20.209ug/ml 99
24) 2,4-Dichlorophenol	6.36	162	949703	20.996ug/ml 96
26) Naphthalene	6.59	128	2888457	20.943ug/ml 99
27) 4-Chloroaniline	6.64	127	884015	21.189ug/ml 97
29) Hexachlorobutadiene	6.73	225	734664	21.230ug/ml 99
30) Caprolactam	7.10	113	251705	20.733ug/ml 97
31) 4-Chloro-3-methylphenol	7.30	107	749114	19.806ug/ml 93
32) 2-Methylnaphthalene	7.56	142	1890012	20.254ug/ml 95
34) 1,2,4,5-Tetrachlorobenzene	7.81	216	1207171	21.478ug/mL 96
35) Hexachlorocyclopentadiene	7.79	237	768314	22.722ug/ml 98
36) 2,4,6-Trichlorophenol	7.98	196	705786	20.341ug/ml 99
37) 2,4,5-Trichlorophenol	8.05	196	752946	20.567ug/ml 99
38) 1,1'-Biphenyl	8.28	154	2424197	21.609ug/ml 96
39) 2-Chloronaphthalene	8.32	162	1967400	20.966ug/ml 89
40) 2-Nitroaniline	8.47	65	486274	20.121ug/ml 97
41) Dimethylphthalate	8.77	163	2157031	20.425ug/ml 99
43) 2,6-Dinitrotoluene	8.87	165	476829	20.743ug/ml 93

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

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL01S20.D Vial: 1
Acq On : 05/27/2015 08:33 Operator: DJC
Sample : SSTD020DL 28104 DFTPPDL Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: May 27 08:59:49 2015 Results File: DSOM01D5.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	9.00	152	3080349	20.951ug/ml	98
46)	3-Nitroaniline	9.16	138	381914	23.761ug/ml	92
47)	Acenaphthene	9.29	153	1914572	21.004ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	286612	20.322ug/ml	100
49)	4-Nitrophenol	9.47	109	213265	19.837ug/ml	95
51)	Dibenzofuran	9.59	168	2730334	20.290ug/ml	95
52)	2,4-Dinitrotoluene	9.57	165	645868	20.794ug/ml	80
53)	2,3,4,6-Tetrachlorophenol	9.81	232	604160	20.113ug/mL	92
54)	Diethylphthalate	10.00	149	2381239	22.307ug/ml	100
55)	4-Chlorophenyl-phenylether	10.20	204	1246943	21.662ug/ml	89
56)	Fluorene	10.19	166	2299164	21.571ug/ml	97
58)	4-Nitroaniline	10.22	138	414778	20.679ug/ml	77
60)	4,6-Dinitro-2-methylphenol	10.29	198	440768	20.197ug/ml	90
62)	N-Nitrosodiphenylamine	10.41	169	1560164	20.704ug/ml	98
63)	4-Bromophenyl-phenyl ether	11.07	248	754496	20.654ug/ml	86
64)	Hexachlorobenzene	11.17	284	804134	20.864ug/ml	81
65)	Atrazine	11.39	200	601628	19.434ug/ml	98
66)	Pentachlorophenol	11.54	266	400608	19.913ug/ml	99
67)	Phenanthrene	11.93	178	3275142	21.122ug/ml	99
68)	Anthracene	12.02	178	3352794	21.023ug/ml	99
70)	Carbazole	12.33	167	2725136	21.066ug/mL	96
71)	Di-n-butylphthalate	13.02	149	4150786	23.038ug/ml	99
72)	Fluoranthene	14.04	202	3878565	21.815ug/ml	88
74)	Pyrene	14.38	202	4112563	20.985ug/ml	86
76)	Butylbenzylphthalate	15.30	149	1748418	20.805ug/ml	93
77)	3,3'-Dichlorobenzidine	15.97	252	1385237	21.472ug/ml	95
78)	Benzo(a)anthracene	16.01	228	4138880	20.897ug/ml	97
79)	Chrysene	16.06	228	3791412	21.213ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	2868088	22.087ug/ml	100
82)	Di-n-octylphthalate	17.04	149	4499334	21.753ug/ml	98
83)	Benzo(b)fluoranthene	17.79	252	3910490	20.905ug/ml	93
84)	Benzo(k)fluoranthene	17.84	252	3938361	21.542ug/ml	93
85)	Benzo(a)pyrene	18.48	252	3788254	20.875ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	21.56	276	3724520	21.474ug/ml	75
88)	Dibenzo(a,h)anthracene	21.64	278	3798963	21.254ug/ml	89
89)	Benzo(g,h,i)perylene	22.47	276	3712940	21.174ug/ml	85

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

: 00073

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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/02/2015 Time: 10:50

Lab File ID: GCK01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GK 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	1.127	0.010	-4.8	40.0
Phenol	1.871	1.773	0.800	-5.2	25.0
Bis(2-chloroethyl)ether	1.549	1.497	0.700	-3.4	25.0
2-Chlorophenol	1.382	1.384	0.800	0.2	25.0
2-Methylphenol	1.274	1.358	0.700	6.6	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.630	0.010	-4.5	40.0
Acetophenone	1.916	1.896	0.010	-1.0	40.0
4-Methylphenol	1.399	1.324	0.600	-5.4	25.0
N-Nitroso-di-n-propylamine	1.047	1.014	0.500	-3.1	25.0
Hexachloroethane	0.701	0.690	0.300	-1.7	25.0
Nitrobenzene	0.462	0.436	0.200	-5.6	25.0
Isophorone	0.795	0.740	0.400	-6.9	25.0
2-Nitrophenol	0.207	0.197	0.100	-4.4	25.0
2,4-Dimethylphenol	0.392	0.376	0.200	-4.0	25.0
Bis(2-chloroethoxy)methane	0.482	0.462	0.300	-4.1	25.0
2,4-Dichlorophenol	0.309	0.311	0.200	0.7	25.0
Naphthalene	1.011	1.009	0.700	-0.2	25.0
4-Chloroaniline	0.351	0.270	0.010	-23.1	40.0
Hexachlorobutadiene	0.212	0.209	0.010	-1.2	40.0
Caprolactam	0.113	0.113	0.010	0.0	40.0
4-Chloro-3-methylphenol	0.341	0.332	0.200	-2.8	25.0
2-Methylnaphthalene	0.640	0.640	0.400	0.0	25.0
Hexachlorocyclopentadiene	0.412	0.398	0.010	-3.4	40.0
2,4,6-Trichlorophenol	0.418	0.403	0.200	-3.6	25.0
2,4,5-Trichlorophenol	0.410	0.416	0.200	1.6	25.0
1,1'-Biphenyl	1.362	1.363	0.010	0.0	40.0
2-Chloronaphthalene	1.168	1.130	0.800	-3.3	25.0
2-Nitroaniline	0.478	0.467	0.010	-2.2	40.0
Dimethylphthalate	1.309	1.296	0.010	-1.0	40.0
2,6-Dinitrotoluene	0.297	0.288	0.200	-3.1	25.0
Acenaphthylene	1.810	1.835	0.900	1.4	25.0
3-Nitroaniline	0.217	0.161	0.010	-25.9	40.0
Acenaphthene	1.097	1.112	0.900	1.4	25.0

7F - FORM VII SV-2 -
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/02/2015 Time: 10:50

Lab File ID: GCK01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GK 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	0.195	0.010	-2.3	40.0
4-Nitrophenol	0.198	0.207	0.010	4.2	40.0
Dibenzofuran	1.444	1.425	0.800	-1.3	25.0
2,4-Dinitrotoluene	0.395	0.391	0.200	-0.9	25.0
Diethylphthalate	1.358	1.327	0.010	-2.3	40.0
Fluorene	1.203	1.228	0.900	2.0	25.0
4-Chlorophenyl-phenylether	0.607	0.598	0.400	-1.5	25.0
4-Nitroaniline	0.256	0.228	0.010	-11.1	40.0
4,6-Dinitro-2-methylphenol	0.165	0.155	0.010	-5.9	40.0
N-Nitrosodiphenylamine (1)	0.565	0.554	0.010	-2.0	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.520	0.010	-6.6	40.0
4-Bromophenyl-phenylether	0.214	0.203	0.100	-5.0	25.0
Hexachlorobenzene	0.227	0.213	0.100	-6.0	25.0
Atrazine	0.205	0.209	0.010	2.0	40.0
Pentachlorophenol	0.141	0.118	0.050	-16.3	25.0
Phenanthrene	1.067	1.076	0.700	0.9	25.0
Anthracene	1.089	1.104	0.700	1.4	25.0
Carbazole	0.746	0.816	0.010	9.4	40.0
Di-n-butylphthalate	1.476	1.545	0.010	4.6	40.0
Fluoranthene	1.175	1.187	0.600	1.0	25.0
Pyrene	1.273	1.268	0.600	-0.4	25.0
Butylbenzylphthalate	0.679	0.666	0.010	-2.0	40.0
3,3'-Dichlorobenzidine	0.297	0.341	0.010	15.0	40.0
Benzo(a)anthracene	1.213	1.199	0.800	-1.2	25.0
Chrysene	1.096	1.086	0.700	-0.9	25.0
Bis(2-ethylhexyl)phthalate	0.989	0.987	0.010	-0.2	40.0
Di-n-octylphthalate	1.988	1.982	0.010	-0.3	40.0
Benzo(b)fluoranthene	1.253	1.227	0.700	-2.1	25.0
Benzo(k)fluoranthene	1.183	1.207	0.700	2.1	25.0
Benzo(a)pyrene	1.179	1.183	0.700	0.4	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.099	0.500	5.4	25.0
Dibenzo(a,h)anthracene	1.043	1.073	0.400	2.8	25.0
Benzo(g,h,i)perylene	1.026	1.077	0.500	5.0	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.329	0.100	-0.9	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3 -
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/02/2015 Time: 10:50

Lab File ID: GCK01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GK 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	1.667	0.010	-4.2	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.241	0.010	-8.5	25.0
2-Chlorophenol-d4	1.470	1.425	0.010	-3.0	25.0
4-Methylphenol-d8	1.164	1.189	0.010	2.1	25.0
Nitrobenzene-d5	0.176	0.164	0.010	-6.5	25.0
2-Nitrophenol-d4	0.186	0.179	0.010	-3.4	25.0
2,4-Dichlorophenol-d3	0.289	0.284	0.010	-1.8	25.0
4-Chloroaniline-d4	0.316	0.208	0.010	-34.2	40.0
Dimethylphthalate-d6	1.254	1.216	0.010	-3.1	40.0
Acenaphthylene-d8	1.704	1.646	0.010	-3.4	25.0
4-Nitrophenol-d4	0.256	0.245	0.010	-4.2	40.0
Fluorene-d10	1.071	1.028	0.010	-4.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.137	0.010	-3.7	40.0
Anthracene-d10	1.061	1.021	0.010	-3.7	25.0
Pyrene-d10	0.998	0.935	0.010	-6.4	25.0
Benzo(a)pyrene-d12	0.958	0.913	0.010	-4.8	25.0

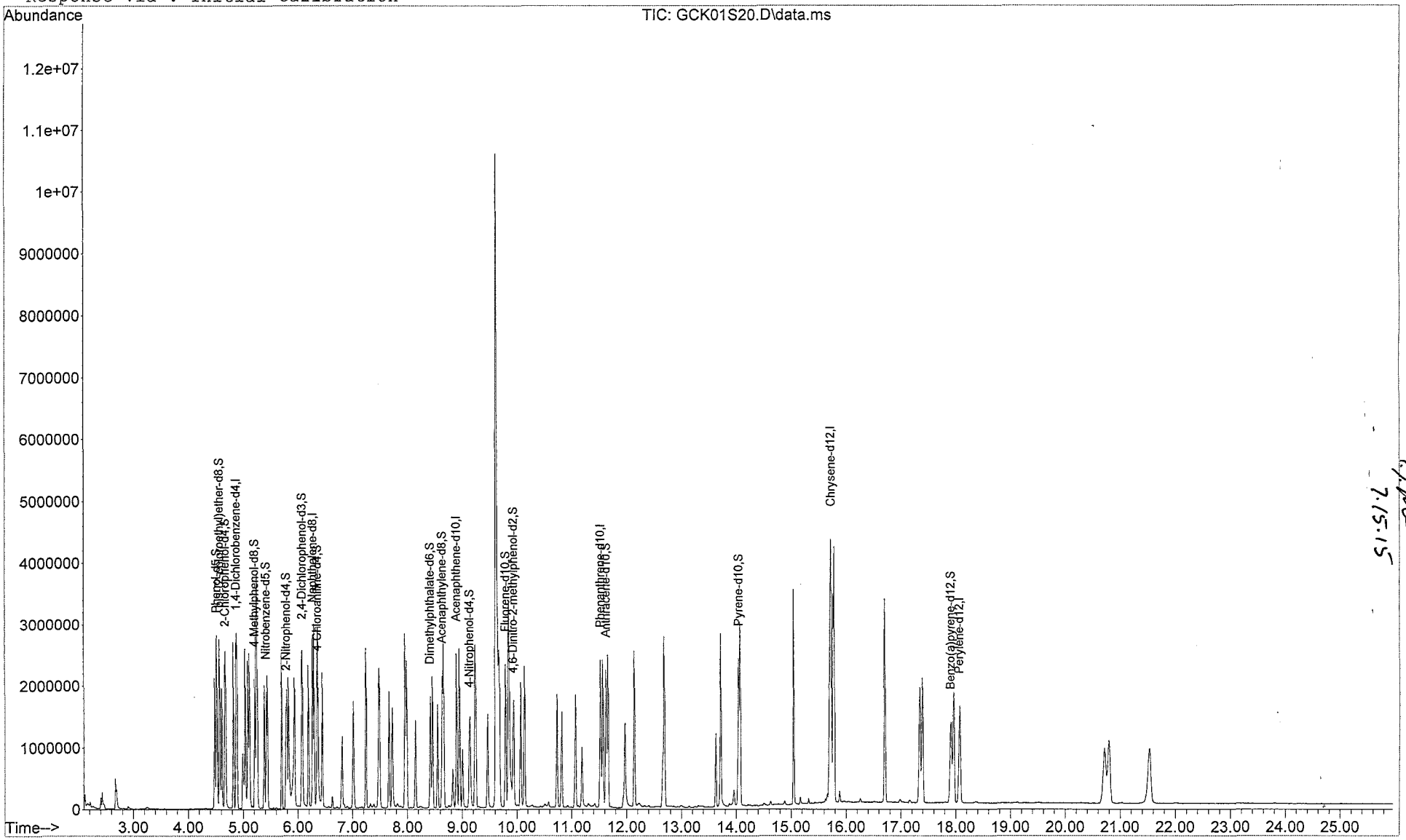
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK01S20.D
Acq On : 07/02/2015 10:50
Sample : SSTD020GK 28543 DFTPPGK
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 14 14:50:39 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



7.15.15

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK01S20.D Vial: 1
Acq On : 07/02/2015 10:50 Operator: DJC
Sample : SSTD020GK 28543 DFTPPGK Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:50:39 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	376264	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1421134	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	804450	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1313369	20.00 ug/ml
73) Chrysene-d12	15.73	240	1289108	20.00 ug/ml
81) Perylene-d12	18.07	264	1126880	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.50	99	627093	19.152ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	466817	18.294ug/mL
7) 2-Chlorophenol-d4	4.66	132	536202	19.395ug/ml
13) 4-Methylphenol-d8	5.20	113	447348	20.426ug/mL
17) Nitrobenzene-d5	5.42	128	233358	18.692ug/ml
21) 2-Nitrophenol-d4	5.78	143	254932	19.319ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	403401	19.632ug/mL
28) 4-Chloroaniline-d4	6.35	131	295223	13.163ug/mL
42) Dimethylphthalate-d6	8.42	166	978067	19.389ug/mL
45) Acenaphthylene-d8	8.63	160	1323807	19.311ug/mL
50) 4-Nitrophenol-d4	9.13	143	197180	19.161ug/mL
57) Fluorene-d10	9.79	176	826729	19.191ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	179551	19.261ug/mL
69) Anthracene-d10	11.62	188	1340873	19.252ug/mL
75) Pyrene-d10	14.04	212	1204731	18.727ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1028369	19.045ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.47	77	423940	19.041ug/ml	87
4) Phenol	4.52	94	667173	18.958ug/ml	76
5) Bis(2-chloroethyl)ether	4.60	93	563190	19.322ug/ml	89
8) 2-Chlorophenol	4.67	128	520878	20.031ug/ml	85
9) 2-Methylphenol	5.08	108	510876	21.323ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1365713	19.096ug/ml	100
11) Acetophenone	5.25	105	713237	19.792ug/ml	44
12) 4-methylphenol	5.23	108	497993	18.923ug/ml	99
14) N-Nitroso-di-n-propylamine	5.25	70	381516	19.378ug/ml	69
15) Hexachloroethane	5.38	117	259494	19.669ug/ml	99
18) Nitrobenzene	5.44	77	619303	18.876ug/ml	86
19) Isophorone	5.70	82	1052105	18.621ug/ml	88
20) 2-Nitrophenol	5.79	139	280518	19.116ug/ml	79
22) 2,4-Dimethylphenol	5.82	107	534827	19.191ug/ml	84
23) Bis(2-chloroethoxy)methane	5.93	93	656639	19.186ug/ml	100
24) 2,4-Dichlorophenol	6.08	162	442194	20.146ug/ml	97
26) Naphthalene	6.29	128	1433719	19.956ug/ml	100
27) 4-Chloroaniline	6.36	127	383254	15.372ug/ml	87
29) Hexachlorobutadiene	6.45	225	297001	19.753ug/ml	99
30) Caprolactam	6.81	113	160061	19.994ug/ml	43
31) 4-Chloro-3-methylphenol	7.01	107	471498	19.444ug/ml	91
32) 2-Methylnaphthalene	7.25	142	909312	20.001ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	418408	18.674ug/mL	98
35) Hexachlorocyclopentadiene	7.47	237	319877	19.320ug/ml	98
36) 2,4,6-Trichlorophenol	7.66	196	324548	19.283ug/ml	99
37) 2,4,5-Trichlorophenol	7.73	196	334944	20.315ug/ml	98
38) 1,1'-Biphenyl	7.96	154	1096160	20.007ug/ml	97
39) 2-Chloronaphthalene	7.99	162	908789	19.347ug/ml	96
40) 2-Nitroaniline	8.15	65	376033	19.559ug/ml	76
41) Dimethylphthalate	8.46	163	1042500	19.795ug/ml	99
43) 2,6-Dinitrotoluene	8.55	165	231748	19.381ug/ml	87

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

: 00578

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK01S20.D Vial: 1
Acq On : 07/02/2015 10:50 Operator: DJC
Sample : SSTD020GK 28543 DFTPPGK Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 14 14:50:39 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	8.66	152	1476520	20.282ug/ml	99
46)	3-Nitroaniline	8.83	138	129423	14.818ug/ml	84
47)	Acenaphthene	8.95	153	894640	20.278ug/ml	94
48)	2,4-Dinitrophenol	9.00	184	157193	19.547ug/ml	100
49)	4-Nitrophenol	9.14	109	166124	20.847ug/ml	79
51)	Dibenzofuran	9.25	168	1146508	19.736ug/ml	94
52)	2,4-Dinitrotoluene	9.23	165	314645	19.814ug/ml	40
53)	2,3,4,6-Tetrachlorophenol	9.46	232	265028	19.829ug/mL	98
54)	Diethylphthalate	9.68	149	1067773	19.547ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	481113	19.706ug/ml	99
56)	Fluorene	9.85	166	987619	20.407ug/ml	99
58)	4-Nitroaniline	9.89	138	183387	17.777ug/ml	91
60)	4,6-Dinitro-2-methylphenol	9.95	198	204103	18.814ug/ml	86
62)	N-Nitrosodiphenylamine	10.07	169	727608	19.595ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.73	248	266884	19.009ug/ml	98
64)	Hexachlorobenzene	10.82	284	280371	18.798ug/ml	93
65)	Atrazine	11.07	200	274870	20.397ug/ml	97
66)	Pentachlorophenol	11.19	266	154807	16.748ug/ml	96
67)	Phenanthrene	11.56	178	1413491	20.178ug/ml	99
68)	Anthracene	11.66	178	1450194	20.286ug/ml	99
70)	Carbazole	11.97	167	1071915	21.888ug/mL	99
71)	Di-n-butylphthalate	12.69	149	2028579	20.928ug/ml	99
72)	Fluoranthene	13.72	202	1559435	20.203ug/ml	95
74)	Pyrene	14.07	202	1634086	19.914ug/ml	95
76)	Butylbenzylphthalate	15.04	149	858204	19.605ug/ml	91
77)	3,3'-Dichlorobenzidine	15.69	252	440061	23.000ug/ml	98
78)	Benzo(a)anthracene	15.72	228	1546034	19.769ug/ml	98
79)	Chrysene	15.76	228	1399337	19.815ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.79	149	1271958	19.952ug/ml	98
82)	Di-n-octylphthalate	16.70	149	2233906	19.947ug/ml	96
83)	Benzo(b)fluoranthene	17.34	252	1382524	19.588ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	1360686	20.411ug/ml	96
85)	Benzo(a)pyrene	17.96	252	1333591	20.078ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.72	276	1238122	21.083ug/ml	89
88)	Dibenzo(a,h)anthracene	20.79	278	1208816	20.569ug/ml	95
89)	Benzo(g,h,i)perylene	21.53	276	1213737	20.992ug/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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/02/2015 Time: 16:20

Lab File ID: GCK11S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020K1 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	0.977	0.010	-17.4	50.0
Phenol	1.871	1.837	0.010	-1.8	50.0
Bis(2-chloroethyl)ether	1.549	1.648	0.010	6.4	50.0
2-Chlorophenol	1.382	1.374	0.010	-0.6	50.0
2-Methylphenol	1.274	1.354	0.010	6.3	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.742	0.010	-1.6	50.0
Acetophenone	1.916	1.933	0.010	0.9	50.0
4-Methylphenol	1.399	1.337	0.010	-4.4	50.0
N-Nitroso-di-n-propylamine	1.047	1.033	0.010	-1.3	50.0
Hexachloroethane	0.701	0.442	0.010	-37.0	50.0
Nitrobenzene	0.462	0.440	0.010	-4.7	50.0
Isophorone	0.795	0.776	0.010	-2.4	50.0
2-Nitrophenol	0.207	0.202	0.010	-2.1	50.0
2,4-Dimethylphenol	0.392	0.397	0.010	1.3	50.0
Bis(2-chloroethoxy)methane	0.482	0.470	0.010	-2.4	50.0
2,4-Dichlorophenol	0.309	0.310	0.010	0.4	50.0
Naphthalene	1.011	1.019	0.010	0.8	50.0
4-Chloroaniline	0.351	0.342	0.010	-2.4	50.0
Hexachlorobutadiene	0.212	0.211	0.010	-0.1	50.0
Caprolactam	0.113	0.108	0.010	-4.1	50.0
4-Chloro-3-methylphenol	0.341	0.344	0.010	0.8	50.0
2-Methylnaphthalene	0.640	0.641	0.010	0.2	50.0
Hexachlorocyclopentadiene	0.412	0.071	0.010	-82.7	50.0
2,4,6-Trichlorophenol	0.418	0.401	0.010	-4.1	50.0
2,4,5-Trichlorophenol	0.410	0.411	0.010	0.3	50.0
1,1'-Biphenyl	1.362	1.344	0.010	-1.3	50.0
2-Chloronaphthalene	1.168	1.107	0.010	-5.2	50.0
2-Nitroaniline	0.478	0.462	0.010	-3.4	50.0
Dimethylphthalate	1.309	1.285	0.010	-1.9	50.0
2,6-Dinitrotoluene	0.297	0.287	0.010	-3.6	50.0
Acenaphthylene	1.810	1.808	0.010	-0.1	50.0
3-Nitroaniline	0.217	0.287	0.010	32.0	50.0
Acenaphthene	1.097	1.106	0.010	0.8	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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/02/2015 Time: 16:20

Lab File ID: GCK11S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020K1 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	0.123	0.010	-38.6	50.0
4-Nitrophenol	0.198	0.209	0.010	5.7	50.0
Dibenzofuran	1.444	1.444	0.010	0.0	50.0
2,4-Dinitrotoluene	0.395	0.384	0.010	-2.8	50.0
Diethylphthalate	1.358	1.351	0.010	-0.5	50.0
Fluorene	1.203	1.235	0.010	2.6	50.0
4-Chlorophenyl-phenylether	0.607	0.582	0.010	-4.1	50.0
4-Nitroaniline	0.256	0.263	0.010	2.6	50.0
4,6-Dinitro-2-methylphenol	0.165	0.114	0.010	-31.2	50.0
N-Nitrosodiphenylamine (1)	0.565	0.535	0.010	-5.4	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.503	0.010	-9.7	50.0
4-Bromophenyl-phenylether	0.214	0.205	0.010	-3.9	50.0
Hexachlorobenzene	0.227	0.217	0.010	-4.6	50.0
Atrazine	0.205	0.205	0.010	-0.3	50.0
Pentachlorophenol	0.141	0.116	0.010	-17.4	50.0
Phenanthrene	1.067	1.084	0.010	1.7	50.0
Anthracene	1.089	1.107	0.010	1.7	50.0
Carbazole	0.746	0.833	0.010	11.7	50.0
Di-n-butylphthalate	1.476	1.447	0.010	-2.0	50.0
Fluoranthene	1.175	1.176	0.010	0.0	50.0
Pyrene	1.273	1.322	0.010	3.8	50.0
Butylbenzylphthalate	0.679	0.697	0.010	2.7	50.0
3,3'-Dichlorobenzidine	0.297	0.388	0.010	30.6	50.0
Benzo(a)anthracene	1.213	1.225	0.010	1.0	50.0
Chrysene	1.096	1.094	0.010	-0.1	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.020	0.010	3.1	50.0
Di-n-octylphthalate	1.988	2.282	0.010	14.8	50.0
Benzo(b)fluoranthene	1.253	1.312	0.010	4.7	50.0
Benzo(k)fluoranthene	1.183	1.233	0.010	4.2	50.0
Benzo(a)pyrene	1.179	1.195	0.010	1.4	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.775	0.010	-25.6	50.0
Dibenzo(a,h)anthracene	1.043	0.841	0.010	-19.4	50.0
Benzo(g,h,i)perylene	1.026	0.710	0.010	-30.9	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.322	0.010	-3.0	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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/02/2015 Time: 16:20

Lab File ID: GCK11S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020K1 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	1.664	0.010	-4.4	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.284	0.010	-5.3	50.0
2-Chlorophenol-d4	1.470	1.433	0.010	-2.5	50.0
4-Methylphenol-d8	1.164	1.170	0.010	0.5	50.0
Nitrobenzene-d5	0.176	0.166	0.010	-5.5	50.0
2-Nitrophenol-d4	0.186	0.179	0.010	-3.6	50.0
2,4-Dichlorophenol-d3	0.289	0.288	0.010	-0.5	50.0
4-Chloroaniline-d4	0.316	0.335	0.010	6.3	50.0
Dimethylphthalate-d6	1.254	1.215	0.010	-3.1	50.0
Acenaphthylene-d8	1.704	1.640	0.010	-3.8	50.0
4-Nitrophenol-d4	0.256	0.233	0.010	-8.7	50.0
Fluorene-d10	1.071	1.024	0.010	-4.4	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.097	0.010	-32.0	50.0
Anthracene-d10	1.061	1.015	0.010	-4.3	50.0
Pyrene-d10	0.998	0.991	0.010	-0.7	50.0
Benzo(a)pyrene-d12	0.958	0.925	0.010	-3.5	50.0

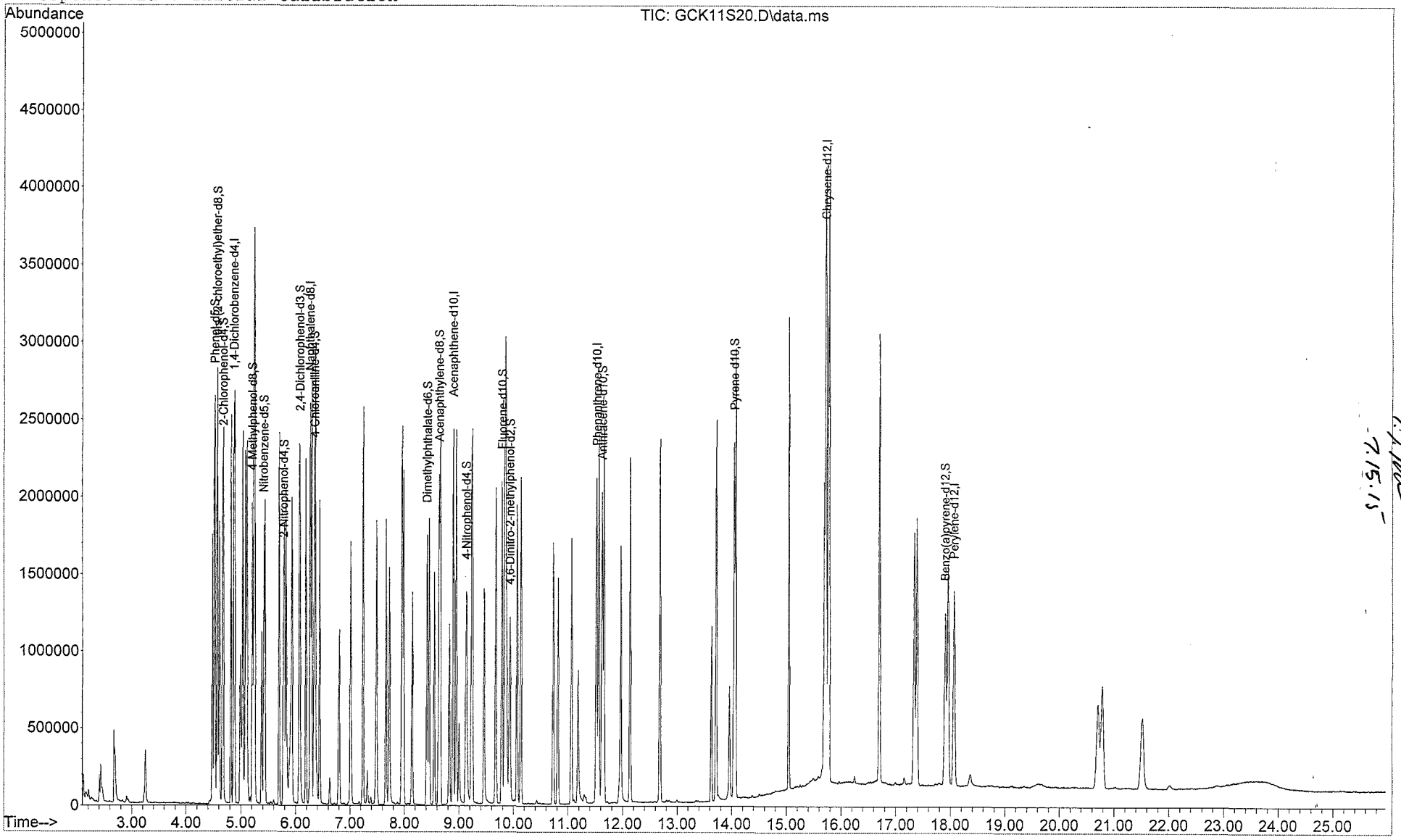
Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK11S20.D
Acq On : 07/02/2015 16:20
Sample : SSTD020K1 28543 DFTPPK1
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 02 16:46:52 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:\G\2015\JUL15\02JUL15\GCK11S20.D Vial: 1
Acq On : 07/02/2015 16:20 Operator: DJC
Sample : SSTD020K1 28543 DFTPPK1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 02 16:46:52 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	348006	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1304840	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	759926	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1249286	20.00 ug/ml
73) Chrysene-d12	15.73	240	1157151	20.00 ug/ml
81) Perylene-d12	18.07	264	914812	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	579084	19.122ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	446991	18.940ug/mL
7) 2-Chlorophenol-d4	4.66	132	498799	19.507ug/ml
13) 4-Methylphenol-d8	5.20	113	407058	20.096ug/mL
17) Nitrobenzene-d5	5.42	128	216614	18.897ug/ml
21) 2-Nitrophenol-d4	5.77	143	233536	19.275ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	375437	19.900ug/mL
28) 4-Chloroaniline-d4	6.34	131	437721	21.255ug/mL
42) Dimethylphthalate-d6	8.42	166	923065	19.371ug/mL
45) Acenaphthylene-d8	8.63	160	1245994	19.241ug/mL
50) 4-Nitrophenol-d4	9.13	143	177422	18.251ug/mL
57) Fluorene-d10	9.79	176	778334	19.126ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	120601	13.601ug/mL
69) Anthracene-d10	11.62	188	1268464	19.147ug/mL
75) Pyrene-d10	14.04	212	1147116	19.864ug/mL
86) Benzo(a)pyrene-d12	17.91	264	846467	19.310ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.48	77	340096	16.516ug/ml	86
4) Phenol	4.52	94	639310	19.642ug/ml	78
5) Bis(2-chloroethyl)ether	4.60	93	573456	21.272ug/ml	93
8) 2-Chlorophenol	4.67	128	478120	19.880ug/ml	82
9) 2-Methylphenol	5.08	108	471289	21.268ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1302081	19.684ug/ml	100
11) Acetophenone	5.25	105	672761	20.185ug/ml	43
12) 4-methylphenol	5.23	108	465233	19.114ug/ml	97
14) N-Nitroso-di-n-propylamine	5.25	70	359365	19.735ug/ml	68
15) Hexachloroethane	5.37	117	153688	12.595ug/ml	99
18) Nitrobenzene	5.44	77	574416	19.068ug/ml	87
19) Isophorone	5.70	82	1012254	19.513ug/ml	88
20) 2-Nitrophenol	5.79	139	263829	19.581ug/ml	78
22) 2,4-Dimethylphenol	5.82	107	518377	20.259ug/ml	83
23) Bis(2-chloroethoxy)methane	5.93	93	613562	19.525ug/ml	100
24) 2,4-Dichlorophenol	6.08	162	404494	20.071ug/ml	97
26) Naphthalene	6.29	128	1329286	20.151ug/ml	99
27) 4-Chloroaniline	6.35	127	446717	19.514ug/ml	87
29) Hexachlorobutadiene	6.45	225	275902	19.985ug/ml	99
30) Caprolactam	6.80	113	140957	19.176ug/ml	30
31) 4-Chloro-3-methylphenol	7.01	107	448794	20.157ug/ml	90
32) 2-Methylnaphthalene	7.24	142	836793	20.046ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	382247	18.060ug/mL	98
35) Hexachlorocyclopentadiene	7.47	237	54244	3.468ug/ml	97
36) 2,4,6-Trichlorophenol	7.66	196	304912	19.178ug/ml	100
37) 2,4,5-Trichlorophenol	7.72	196	312489	20.064ug/ml	100
38) 1,1'-Biphenyl	7.96	154	1021322	19.733ug/ml	98
39) 2-Chloronaphthalene	7.99	162	841283	18.959ug/ml	97
40) 2-Nitroaniline	8.15	65	350848	19.318ug/ml	76
41) Dimethylphthalate	8.46	163	976520	19.628ug/ml	98
43) 2,6-Dinitrotoluene	8.55	165	217858	19.287ug/ml	88

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

Quantitation Report

Data File : R:\G\2015\JUL15\02JUL15\GCK11S20.D Vial: 1
Acq On : 07/02/2015 16:20 Operator: DJC
Sample : SSTD020K1 28543 DFTPPK1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 02 16:46:52 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	8.66	152	1373823	19.977ug/ml	100
46)	3-Nitroaniline	8.82	138	217828	26.401ug/ml	82
47)	Acenaphthene	8.95	153	840175	20.159ug/ml	94
48)	2,4-Dinitrophenol	9.00	184	93280	12.279ug/ml	100
49)	4-Nitrophenol	9.14	109	159063	21.131ug/ml	77
51)	Dibenzofuran	9.25	168	1097120	19.992ug/ml	96
52)	2,4-Dinitrotoluene	9.23	165	291649	19.442ug/ml	37
53)	2,3,4,6-Tetrachlorophenol	9.46	232	244823	19.391ug/mL	98
54)	Diethylphthalate	9.67	149	1026508	19.892ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	442526	19.187ug/ml	97
56)	Fluorene	9.84	166	938475	20.528ug/ml	98
58)	4-Nitroaniline	9.87	138	199869	20.510ug/ml	94
60)	4,6-Dinitro-2-methylphenol	9.94	198	142071	13.768ug/ml	86
62)	N-Nitrosodiphenylamine	10.06	169	668151	18.916ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.73	248	256728	19.223ug/ml	99
64)	Hexachlorobenzene	10.82	284	270764	19.085ug/ml	92
65)	Atrazine	11.06	200	255489	19.931ug/ml	97
66)	Pentachlorophenol	11.19	266	145275	16.523ug/ml	98
67)	Phenanthrene	11.56	178	1354770	20.332ug/ml	100
68)	Anthracene	11.66	178	1382585	20.332ug/ml	99
70)	Carbazole	11.96	167	1040463	22.336ug/mL	99
71)	Di-n-butylphthalate	12.69	149	1807932	19.608ug/ml	99
72)	Fluoranthene	13.72	202	1469182	20.010ug/ml	96
74)	Pyrene	14.07	202	1529516	20.765ug/ml	96
76)	Butylbenzylphthalate	15.04	149	806986	20.537ug/ml	90
77)	3,3'-Dichlorobenzidine	15.69	252	448540	26.116ug/ml	97
78)	Benzo(a)anthracene	15.71	228	1417355	20.190ug/ml	98
79)	Chrysene	15.76	228	1266276	19.975ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1179780	20.617ug/ml	97
82)	Di-n-octylphthalate	16.70	149	2087344	22.959ug/ml	96
83)	Benzo(b)fluoranthene	17.34	252	1200288	20.948ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	1128168	20.846ug/ml	96
85)	Benzo(a)pyrene	17.96	252	1093590	20.282ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	20.71	276	709063	14.873ug/ml	92
88)	Dibenzo(a,h)anthracene	20.79	278	769278	16.125ug/ml	96
89)	Benzo(g,h,i)perylene	21.52	276	649115	13.829ug/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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 09:40

Lab File ID: GCL02S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GL 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	1.025	0.010	-13.4	40.0
Phenol	1.871	1.802	0.800	-3.6	25.0
Bis(2-chloroethyl)ether	1.549	1.506	0.700	-2.8	25.0
2-Chlorophenol	1.382	1.375	0.800	-0.5	25.0
2-Methylphenol	1.274	1.424	0.700	11.8	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.677	0.010	-3.3	40.0
Acetophenone	1.916	1.941	0.010	1.3	40.0
4-Methylphenol	1.399	1.328	0.600	-5.1	25.0
N-Nitroso-di-n-propylamine	1.047	1.030	0.500	-1.6	25.0
Hexachloroethane	0.701	0.699	0.300	-0.3	25.0
Nitrobenzene	0.462	0.438	0.200	-5.1	25.0
Isophorone	0.795	0.761	0.400	-4.2	25.0
2-Nitrophenol	0.207	0.198	0.100	-4.1	25.0
2,4-Dimethylphenol	0.392	0.378	0.200	-3.5	25.0
Bis(2-chloroethoxy)methane	0.482	0.462	0.300	-4.1	25.0
2,4-Dichlorophenol	0.309	0.313	0.200	1.4	25.0
Naphthalene	1.011	1.022	0.700	1.1	25.0
4-Chloroaniline	0.351	0.351	0.010	0.1	40.0
Hexachlorobutadiene	0.212	0.214	0.010	1.1	40.0
Caprolactam	0.113	0.113	0.010	0.6	40.0
4-Chloro-3-methylphenol	0.341	0.338	0.200	-1.1	25.0
2-Methylnaphthalene	0.640	0.647	0.400	1.1	25.0
Hexachlorocyclopentadiene	0.412	0.376	0.010	-8.7	40.0
2,4,6-Trichlorophenol	0.418	0.406	0.200	-3.1	25.0
2,4,5-Trichlorophenol	0.410	0.420	0.200	2.4	25.0
1,1'-Biphenyl	1.362	1.353	0.010	-0.7	40.0
2-Chloronaphthalene	1.168	1.083	0.800	-7.2	25.0
2-Nitroaniline	0.478	0.470	0.010	-1.7	40.0
Dimethylphthalate	1.309	1.283	0.010	-2.0	40.0
2,6-Dinitrotoluene	0.297	0.293	0.200	-1.5	25.0
Acenaphthylene	1.810	1.864	0.900	3.0	25.0
3-Nitroaniline	0.217	0.280	0.010	29.0	40.0
Acenaphthene	1.097	1.125	0.900	2.5	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 09:40

Lab File ID: GCL02S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GL 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	0.189	0.010	-5.4	40.0
4-Nitrophenol	0.198	0.207	0.010	4.4	40.0
Dibenzofuran	1.444	1.424	0.800	-1.4	25.0
2,4-Dinitrotoluene	0.395	0.394	0.200	-0.1	25.0
Diethylphthalate	1.358	1.359	0.010	0.0	40.0
Fluorene	1.203	1.248	0.900	3.7	25.0
4-Chlorophenyl-phenylether	0.607	0.596	0.400	-1.7	25.0
4-Nitroaniline	0.256	0.274	0.010	6.8	40.0
4,6-Dinitro-2-methylphenol	0.165	0.156	0.010	-5.4	40.0
N-Nitrosodiphenylamine (1)	0.565	0.557	0.010	-1.5	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.521	0.010	-6.5	40.0
4-Bromophenyl-phenylether	0.214	0.205	0.100	-4.3	25.0
Hexachlorobenzene	0.227	0.217	0.100	-4.5	25.0
Atrazine	0.205	0.208	0.010	1.3	40.0
Pentachlorophenol	0.141	0.107	0.050	-23.8	25.0
Phenanthrene	1.067	1.081	0.700	1.3	25.0
Anthracene	1.089	1.101	0.700	1.2	25.0
Carbazole	0.746	0.923	0.010	23.7	40.0
Di-n-butylphthalate	1.476	1.459	0.010	-1.2	40.0
Fluoranthene	1.175	1.211	0.600	3.0	25.0
Pyrene	1.273	1.234	0.600	-3.1	25.0
Butylbenzylphthalate	0.679	0.675	0.010	-0.6	40.0
3,3'-Dichlorobenzidine	0.297	0.361	0.010	21.6	40.0
Benzo(a)anthracene	1.213	1.191	0.800	-1.8	25.0
Chrysene	1.096	1.080	0.700	-1.4	25.0
Bis(2-ethylhexyl)phthalate	0.989	0.978	0.010	-1.1	40.0
Di-n-octylphthalate	1.988	2.000	0.010	0.6	40.0
Benzo(b)fluoranthene	1.253	1.241	0.700	-1.0	25.0
Benzo(k)fluoranthene	1.183	1.236	0.700	4.5	25.0
Benzo(a)pyrene	1.179	1.194	0.700	1.3	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.115	0.500	7.0	25.0
Dibenzo(a,h)anthracene	1.043	1.096	0.400	5.0	25.0
Benzo(g,h,i)perylene	1.026	1.092	0.500	6.4	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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 09:40

Lab File ID: GCL02S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GL 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	1.680	0.010	-3.5	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.291	0.010	-4.8	25.0
2-Chlorophenol-d4	1.470	1.424	0.010	-3.1	25.0
4-Methylphenol-d8	1.164	1.169	0.010	0.5	25.0
Nitrobenzene-d5	0.176	0.168	0.010	-4.2	25.0
2-Nitrophenol-d4	0.186	0.175	0.010	-5.6	25.0
2,4-Dichlorophenol-d3	0.289	0.288	0.010	-0.5	25.0
4-Chloroaniline-d4	0.316	0.288	0.010	-8.9	40.0
Dimethylphthalate-d6	1.254	1.228	0.010	-2.1	40.0
Acenaphthylene-d8	1.704	1.662	0.010	-2.5	25.0
4-Nitrophenol-d4	0.256	0.230	0.010	-10.3	40.0
Fluorene-d10	1.071	1.036	0.010	-3.3	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.132	0.010	-7.1	40.0
Anthracene-d10	1.061	1.012	0.010	-4.6	25.0
Pyrene-d10	0.998	0.943	0.010	-5.5	25.0
Benzo(a)pyrene-d12	0.958	0.913	0.010	-4.7	25.0

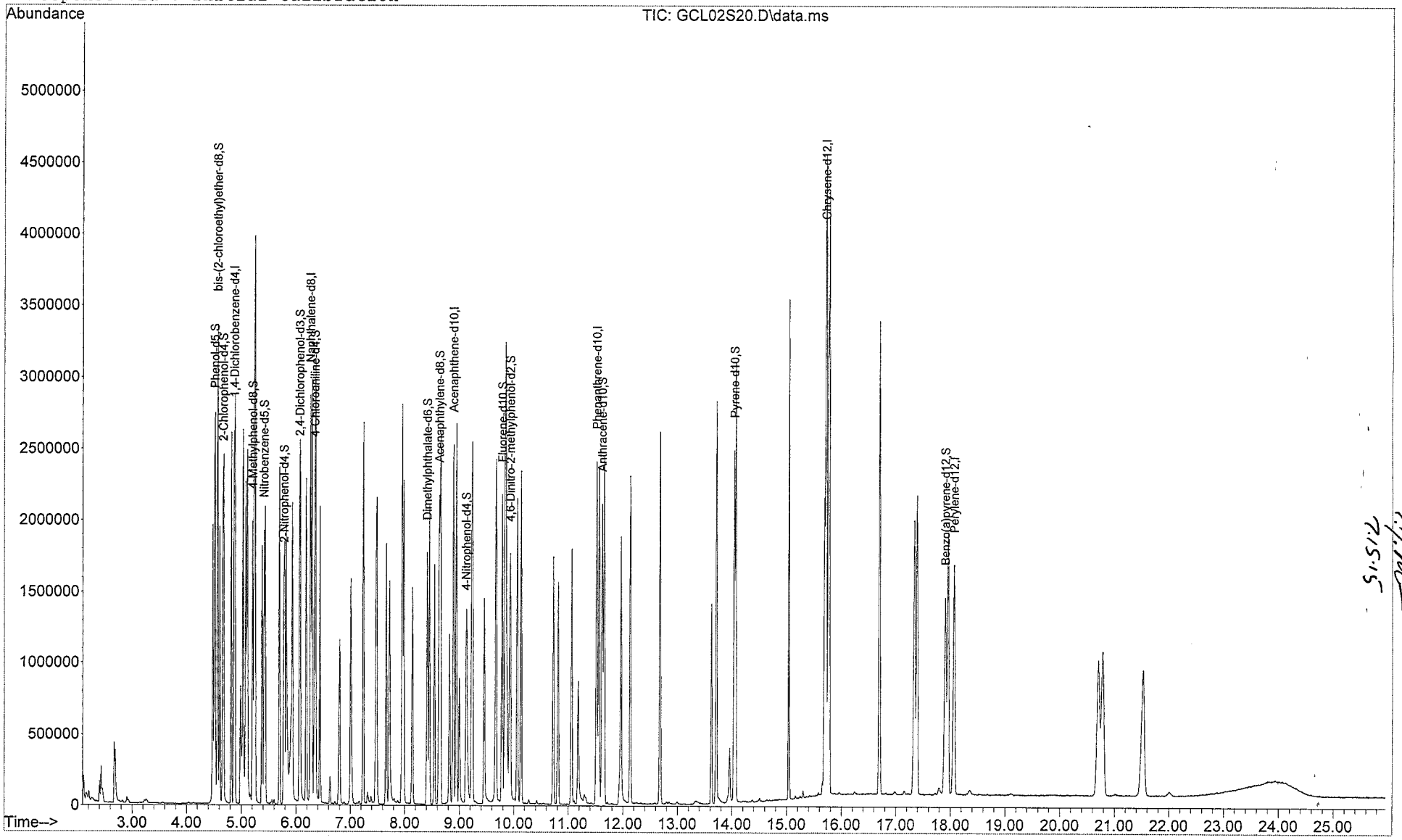
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL02S20.D
Acq On : 07/06/2015 09:40
Sample : SSTD020GL 28543 DFTPPGL
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 06 10:06:27 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:\G\2015\JUL15\06JUL15\GCL02S20.D Vial: 1
Acq On : 07/06/2015 09:40 Operator: TJM
Sample : SSTD020GL 28543 DFTPPGL Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 06 10:06:27 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	4.86	152	365071	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1383738	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	795017	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1318666	20.00 ug/ml
73) Chrysene-d12	15.72	240	1316667	20.00 ug/ml
81) Perylene-d12	18.07	264	1141230	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.50	99	613162	19.300ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	471301	19.036ug/mL
7) 2-Chlorophenol-d4	4.66	132	519785	19.378ug/ml
13) 4-Methylphenol-d8	5.20	113	426916	20.091ug/mL
17) Nitrobenzene-d5	5.42	128	232842	19.155ug/ml
21) 2-Nitrophenol-d4	5.77	143	242511	18.874ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	398324	19.909ug/mL
28) 4-Chloroaniline-d4	6.34	131	398116	18.230ug/mL
42) Dimethylphthalate-d6	8.41	166	976473	19.587ug/mL
45) Acenaphthylene-d8	8.63	160	1321366	19.504ug/mL
50) 4-Nitrophenol-d4	9.12	143	182552	17.950ug/mL
57) Fluorene-d10	9.79	176	823745	19.348ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	173855	18.575ug/mL
69) Anthracene-d10	11.62	188	1334918	19.090ug/mL
75) Pyrene-d10	14.04	212	1241558	18.895ug/mL
86) Benzo(a)pyrene-d12	17.90	264	1042290	19.060ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.47	77	374330	17.329ug/ml	87
4) Phenol	4.52	94	657989	19.271ug/ml	76
5) Bis(2-chloroethyl)ether	4.60	93	549934	19.446ug/ml	88
8) 2-Chlorophenol	4.67	128	502035	19.898ug/ml	83
9) 2-Methylphenol	5.08	108	519938	22.366ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.10	45	1342215	19.343ug/ml	100
11) Acetophenone	5.25	105	708687	20.269ug/ml	44
12) 4-methylphenol	5.23	108	484767	18.986ug/ml	98
14) N-Nitroso-di-n-propylamine	5.24	70	375854	19.676ug/ml	68
15) Hexachloroethane	5.37	117	255254	19.941ug/ml	100
18) Nitrobenzene	5.43	77	606492	18.985ug/ml	86
19) Isophorone	5.70	82	1053689	19.153ug/ml	88
20) 2-Nitrophenol	5.79	139	273996	19.177ug/ml	77
22) 2,4-Dimethylphenol	5.82	107	523594	19.296ug/ml	83
23) Bis(2-chloroethoxy)methane	5.93	93	639029	19.176ug/ml	99
24) 2,4-Dichlorophenol	6.08	162	433372	20.278ug/ml	97
26) Naphthalene	6.29	128	1414855	20.225ug/ml	99
27) 4-Chloroaniline	6.35	127	486191	20.028ug/ml	88
29) Hexachlorobutadiene	6.44	225	295893	20.211ug/ml	98
30) Caprolactam	6.80	113	156766	20.111ug/ml	36
31) 4-Chloro-3-methylphenol	7.01	107	467134	19.784ug/ml	91
32) 2-Methylnaphthalene	7.24	142	894834	20.214ug/ml	99
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	414100	18.701ug/mL	99
35) Hexachlorocyclopentadiene	7.47	237	298862	18.265ug/ml	99
36) 2,4,6-Trichlorophenol	7.66	196	322423	19.384ug/ml	97
37) 2,4,5-Trichlorophenol	7.72	196	333847	20.489ug/ml	98
38) 1,1'-Biphenyl	7.95	154	1075758	19.867ug/ml	98
39) 2-Chloronaphthalene	7.98	162	861381	18.555ug/ml	98
40) 2-Nitroaniline	8.14	65	373714	19.669ug/ml	76
41) Dimethylphthalate	8.45	163	1019776	19.593ug/ml	99
43) 2,6-Dinitrotoluene	8.55	165	232899	19.708ug/ml	88

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

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL02S20.D Vial: 1
Acq On : 07/06/2015 09:40 Operator: TJM
Sample : SSTD020GL 28543 DFTPPGL Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 06 10:06:27 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	8.65	152	1481562	20.593ug/ml	99
46)	3-Nitroaniline	8.82	138	222751	25.806ug/ml	85
47)	Acenaphthene	8.95	153	894023	20.504ug/ml	93
48)	2,4-Dinitrophenol	9.00	184	150318	18.914ug/ml	100
49)	4-Nitrophenol	9.14	109	164453	20.883ug/ml	78
51)	Dibenzofuran	9.24	168	1131925	19.716ug/ml	94
52)	2,4-Dinitrotoluene	9.23	165	313451	19.973ug/ml	37
53)	2,3,4,6-Tetrachlorophenol	9.46	232	249888	18.918ug/mL	97
54)	Diethylphthalate	9.67	149	1080236	20.009ug/ml	96
55)	4-Chlorophenyl-phenylether	9.85	204	474154	19.651ug/ml	99
56)	Fluorene	9.84	166	991808	20.737ug/ml	98
58)	4-Nitroaniline	9.87	138	217743	21.358ug/ml	87
60)	4,6-Dinitro-2-methylphenol	9.94	198	206169	18.928ug/ml	86
62)	N-Nitrosodiphenylamine	10.06	169	734278	19.695ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.73	248	269806	19.140ug/ml	98
64)	Hexachlorobenzene	10.82	284	286047	19.101ug/ml	91
65)	Atrazine	11.06	200	274073	20.256ug/ml	97
66)	Pentachlorophenol	11.18	266	141494	15.246ug/ml	99
67)	Phenanthrene	11.56	178	1425073	20.262ug/ml	99
68)	Anthracene	11.66	178	1452475	20.236ug/ml	99
70)	Carbazole	11.96	167	1216929	24.750ug/mL	100
71)	Di-n-butylphthalate	12.68	149	1923839	19.767ug/ml	99
72)	Fluoranthene	13.71	202	1596390	20.598ug/ml	95
74)	Pyrene	14.07	202	1624765	19.386ug/ml	96
76)	Butylbenzylphthalate	15.04	149	888576	19.874ug/ml	91
77)	3,3'-Dichlorobenzidine	15.69	252	475167	24.315ug/ml	98
78)	Benzo(a)anthracene	15.71	228	1568244	19.633ug/ml	98
79)	Chrysene	15.76	228	1422239	19.717ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1287668	19.776ug/ml	96
82)	Di-n-octylphthalate	16.70	149	2282299	20.123ug/ml	97
83)	Benzo(b)fluoranthene	17.34	252	1415790	19.807ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	1410516	20.892ug/ml	95
85)	Benzo(a)pyrene	17.96	252	1362468	20.255ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.71	276	1272539	21.396ug/ml	90
88)	Dibenzo(a,h)anthracene	20.79	278	1250423	21.010ug/ml	95
89)	Benzo(g,h,i)perylene	21.53	276	1245708	21.274ug/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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 14:03

Lab File ID: GCL10S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020L2 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	1.014	0.010	-14.3	50.0
Phenol	1.871	1.805	0.010	-3.5	50.0
Bis(2-chloroethyl)ether	1.549	1.479	0.010	-4.6	50.0
2-Chlorophenol	1.382	1.347	0.010	-2.5	50.0
2-Methylphenol	1.274	1.426	0.010	12.0	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.691	0.010	-2.9	50.0
Acetophenone	1.916	1.914	0.010	-0.1	50.0
4-Methylphenol	1.399	1.297	0.010	-7.3	50.0
N-Nitroso-di-n-propylamine	1.047	1.018	0.010	-2.7	50.0
Hexachloroethane	0.701	0.576	0.010	-17.9	50.0
Nitrobenzene	0.462	0.447	0.010	-3.1	50.0
Isophorone	0.795	0.797	0.010	0.2	50.0
2-Nitrophenol	0.207	0.196	0.010	-5.0	50.0
2,4-Dimethylphenol	0.392	0.401	0.010	2.3	50.0
Bis(2-chloroethoxy)methane	0.482	0.466	0.010	-3.3	50.0
2,4-Dichlorophenol	0.309	0.314	0.010	1.6	50.0
Naphthalene	1.011	1.022	0.010	1.1	50.0
4-Chloroaniline	0.351	0.371	0.010	5.6	50.0
Hexachlorobutadiene	0.212	0.213	0.010	0.8	50.0
Caprolactam	0.113	0.112	0.010	-0.8	50.0
4-Chloro-3-methylphenol	0.341	0.338	0.010	-1.0	50.0
2-Methylnaphthalene	0.640	0.646	0.010	0.9	50.0
Hexachlorocyclopentadiene	0.412	0.120	0.010	-70.9	50.0
2,4,6-Trichlorophenol	0.418	0.397	0.010	-5.2	50.0
2,4,5-Trichlorophenol	0.410	0.418	0.010	1.9	50.0
1,1'-Biphenyl	1.362	1.377	0.010	1.1	50.0
2-Chloronaphthalene	1.168	1.109	0.010	-5.0	50.0
2-Nitroaniline	0.478	0.466	0.010	-2.5	50.0
Dimethylphthalate	1.309	1.292	0.010	-1.3	50.0
2,6-Dinitrotoluene	0.297	0.280	0.010	-6.0	50.0
Acenaphthylene	1.810	1.820	0.010	0.6	50.0
3-Nitroaniline	0.217	0.310	0.010	42.7	50.0
Acenaphthene	1.097	1.102	0.010	0.5	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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 14:03

Lab File ID: GCL10S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020L2 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	0.026	0.010	-86.9	50.0
4-Nitrophenol	0.198	0.209	0.010	5.5	50.0
Dibenzofuran	1.444	1.408	0.010	-2.5	50.0
2,4-Dinitrotoluene	0.395	0.368	0.010	-6.7	50.0
Diethylphthalate	1.358	1.345	0.010	-1.0	50.0
Fluorene	1.203	1.239	0.010	3.0	50.0
4-Chlorophenyl-phenylether	0.607	0.597	0.010	-1.7	50.0
4-Nitroaniline	0.256	0.298	0.010	16.1	50.0
4,6-Dinitro-2-methylphenol	0.165	0.028	0.010	-82.8	50.0
N-Nitrosodiphenylamine (1)	0.565	0.557	0.010	-1.5	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.521	0.010	-6.6	50.0
4-Bromophenyl-phenylether	0.214	0.208	0.010	-2.9	50.0
Hexachlorobenzene	0.227	0.220	0.010	-3.1	50.0
Atrazine	0.205	0.201	0.010	-1.8	50.0
Pentachlorophenol	0.141	0.121	0.010	-14.2	50.0
Phenanthrene	1.067	1.088	0.010	2.0	50.0
Anthracene	1.089	1.125	0.010	3.3	50.0
Carbazole	0.746	0.922	0.010	23.7	50.0
Di-n-butylphthalate	1.476	1.520	0.010	3.0	50.0
Fluoranthene	1.175	1.226	0.010	4.3	50.0
Pyrene	1.273	1.311	0.010	3.0	50.0
Butylbenzylphthalate	0.679	0.711	0.010	4.6	50.0
3,3'-Dichlorobenzidine	0.297	0.364	0.010	22.7	50.0
Benzo(a)anthracene	1.213	1.204	0.010	-0.8	50.0
Chrysene	1.096	1.090	0.010	-0.5	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.043	0.010	5.5	50.0
Di-n-octylphthalate	1.988	2.880	0.010	44.9	50.0
Benzo(b)fluoranthene	1.253	1.430	0.010	14.2	50.0
Benzo(k)fluoranthene	1.183	1.329	0.010	12.4	50.0
Benzo(a)pyrene	1.179	1.211	0.010	2.8	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.673	0.010	-35.4	50.0
Dibenzo(a,h)anthracene	1.043	0.717	0.010	-31.2	50.0
Benzo(g,h,i)perylene	1.026	0.577	0.010	-43.7	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.318	0.010	-4.2	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.: F9KW7

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 14:03

Lab File ID: GCL10S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020L2 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	1.680	0.010	-3.5	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.291	0.010	-4.8	50.0
2-Chlorophenol-d4	1.470	1.432	0.010	-2.6	50.0
4-Methylphenol-d8	1.164	1.195	0.010	2.6	50.0
Nitrobenzene-d5	0.176	0.169	0.010	-3.5	50.0
2-Nitrophenol-d4	0.186	0.172	0.010	-7.6	50.0
2,4-Dichlorophenol-d3	0.289	0.290	0.010	0.4	50.0
4-Chloroaniline-d4	0.316	0.347	0.010	9.8	50.0
Dimethylphthalate-d6	1.254	1.213	0.010	-3.3	50.0
Acenaphthylene-d8	1.704	1.638	0.010	-3.9	50.0
4-Nitrophenol-d4	0.256	0.225	0.010	-12.0	50.0
Fluorene-d10	1.071	1.033	0.010	-3.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.024	0.010	-82.8	50.0
Anthracene-d10	1.061	1.004	0.010	-5.3	50.0
Pyrene-d10	0.998	0.974	0.010	-2.4	50.0
Benzo(a)pyrene-d12	0.958	0.947	0.010	-1.2	50.0

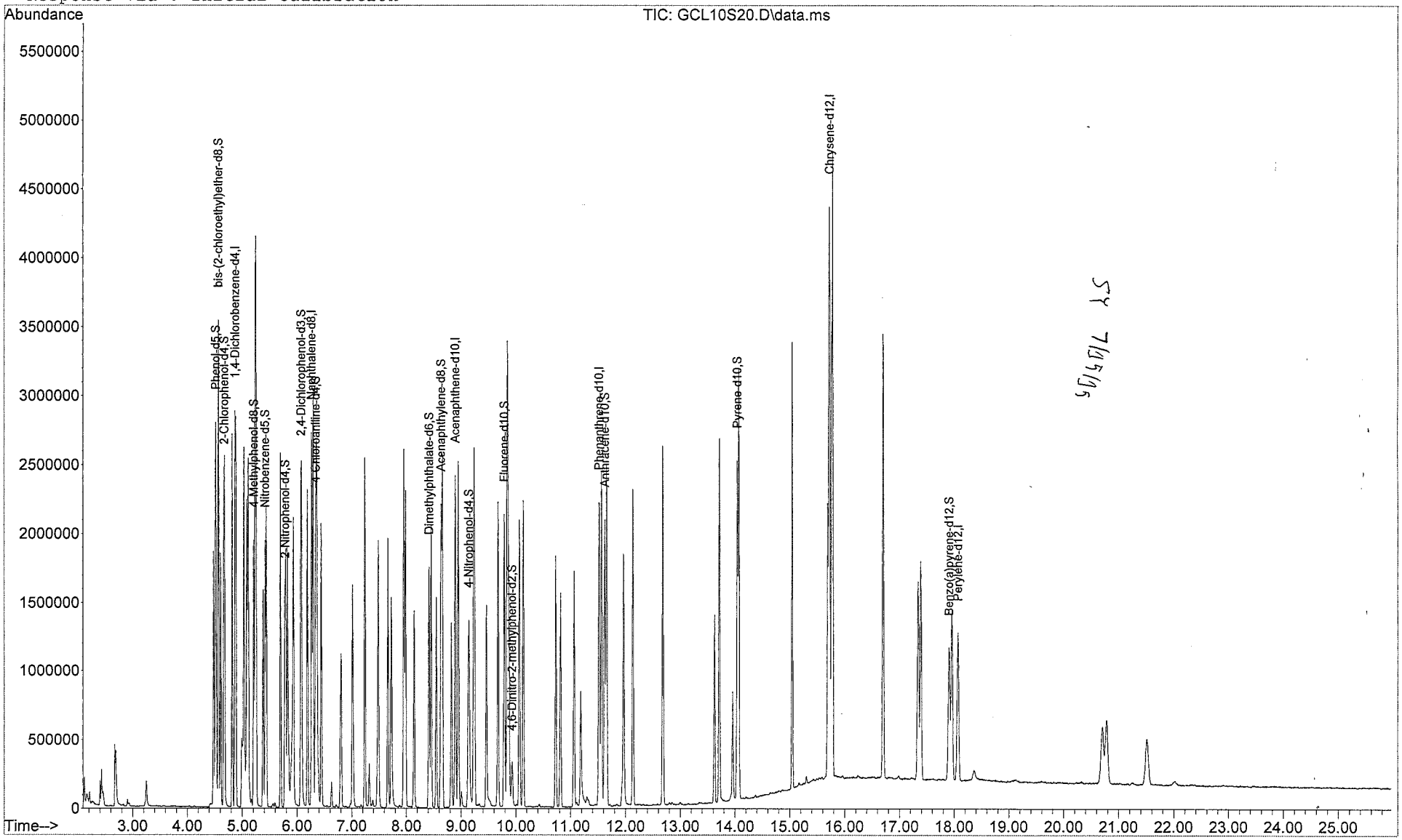
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL10S20.D
Acq On : 07/06/2015 14:03
Sample : SSTD020L2 28543 DFTPPL2
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: TJM
Inst : 5975-G
Injection volume : 1uL

Quant Time: Jul 14 15:26:58 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



57 7/15/15

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL10S20.D Vial: 1
Acq On : 07/06/2015 14:03 Operator: TJM
Sample : SSTD020L2 28543 DFTPPL2 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 14 15:26:58 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	373032	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1371055	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	787057	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1274449	20.00 ug/ml
73) Chrysene-d12	15.73	240	1241992	20.00 ug/ml
81) Perylene-d12	18.07	264	781067	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	626796	19.309ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	481660	19.040ug/mL
7) 2-Chlorophenol-d4	4.66	132	534066	19.485ug/ml
13) 4-Methylphenol-d8	5.21	113	445588	20.522ug/mL
17) Nitrobenzene-d5	5.42	128	232379	19.293ug/ml
21) 2-Nitrophenol-d4	5.77	143	235275	18.481ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	398063	20.080ug/mL
28) 4-Chloroaniline-d4	6.33	131	475078	21.955ug/mL
42) Dimethylphthalate-d6	8.42	166	954512	19.340ug/mL
45) Acenaphthylene-d8	8.63	160	1288905	19.217ug/mL
50) 4-Nitrophenol-d4	9.13	143	177290	17.609ug/mL
57) Fluorene-d10	9.79	176	813178	19.293ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	31128	3.441ug/mL
69) Anthracene-d10	11.62	188	1279611	18.933ug/mL
75) Pyrene-d10	14.04	212	1210189	19.525ug/mL
86) Benzo(a)pyrene-d12	17.90	264	739861	19.768ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.47	77	378323	17.140ug/ml	85
4) Phenol	4.52	94	673226	19.296ug/ml	75
5) Bis(2-chloroethyl)ether	4.60	93	551594	19.088ug/ml	88
8) 2-Chlorophenol	4.67	128	502493	19.492ug/ml	81
9) 2-Methylphenol	5.08	108	531932	22.394ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1376939	19.420ug/ml	100
11) Acetophenone	5.25	105	714070	19.987ug/ml	43
12) 4-methylphenol	5.23	108	483734	18.541ug/ml	96
14) N-Nitroso-di-n-propylamine	5.25	70	379874	19.462ug/ml	68
15) Hexachloroethane	5.38	117	214898	16.430ug/ml	99
18) Nitrobenzene	5.44	77	613198	19.373ug/ml	87
19) Isophorone	5.70	82	1092288	20.039ug/ml	88
20) 2-Nitrophenol	5.79	139	269108	19.009ug/ml	78
22) 2,4-Dimethylphenol	5.82	107	550112	20.461ug/ml	81
23) Bis(2-chloroethoxy)methane	5.93	93	638663	19.342ug/ml	98
24) 2,4-Dichlorophenol	6.08	162	430372	20.324ug/ml	97
26) Naphthalene	6.29	128	1401614	20.221ug/ml	100
27) 4-Chloroaniline	6.35	127	508100	21.124ug/ml	86
29) Hexachlorobutadiene	6.44	225	292556	20.168ug/ml	98
30) Caprolactam	6.80	113	153179	19.833ug/ml	33
31) 4-Chloro-3-methylphenol	7.02	107	463129	19.796ug/ml	90
32) 2-Methylnaphthalene	7.24	142	885402	20.186ug/ml	99
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	409669	18.688ug/mL	98
35) Hexachlorocyclopentadiene	7.47	237	94218	5.816ug/ml	98
36) 2,4,6-Trichlorophenol	7.66	196	312246	18.962ug/ml	99
37) 2,4,5-Trichlorophenol	7.73	196	328846	20.386ug/ml	98
38) 1,1'-Biphenyl	7.96	154	1083623	20.215ug/ml	100
39) 2-Chloronaphthalene	7.99	162	873126	18.998ug/ml	98
40) 2-Nitroaniline	8.15	65	366853	19.503ug/ml	76
41) Dimethylphthalate	8.45	163	1016994	19.737ug/ml	99
43) 2,6-Dinitrotoluene	8.55	165	219989	18.804ug/ml	86

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

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15\GCL10S20.D Vial: 1
Acq On : 07/06/2015 14:03 Operator: TJM
Sample : SSTD020L2 28543 DFTPPL2 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 14 15:26:58 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	8.66	152	1432487	20.112ug/ml	99
46)	3-Nitroaniline	8.82	138	243802	28.530ug/ml	85
47)	Acenaphthene	8.95	153	867584	20.099ug/ml	94
48)	2,4-Dinitrophenol	9.00	184	20614	2.620ug/ml	100
49)	4-Nitrophenol	9.15	109	164446	21.093ug/ml	78
51)	Dibenzofuran	9.25	168	1107858	19.492ug/ml	94
52)	2,4-Dinitrotoluene	9.23	165	289967	18.664ug/ml	33
53)	2,3,4,6-Tetrachlorophenol	9.46	232	250616	19.165ug/mL	97
54)	Diethylphthalate	9.67	149	1058550	19.806ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	469678	19.662ug/ml	99
56)	Fluorene	9.84	166	974985	20.591ug/ml	99
58)	4-Nitroaniline	9.87	138	234416	23.226ug/ml	97
60)	4,6-Dinitro-2-methylphenol	9.94	198	36297	3.448ug/ml	48
62)	N-Nitrosodiphenylamine	10.06	169	710140	19.708ug/ml	97
63)	4-Bromophenyl-phenyl ether	10.73	248	264563	19.419ug/ml	98
64)	Hexachlorobenzene	10.82	284	280369	19.372ug/ml	92
65)	Atrazine	11.06	200	256774	19.636ug/ml	98
66)	Pentachlorophenol	11.19	266	153899	17.158ug/ml	98
67)	Phenanthrene	11.56	178	1387113	20.407ug/ml	99
68)	Anthracene	11.66	178	1433773	20.668ug/ml	100
70)	Carbazole	11.96	167	1175277	24.732ug/mL	99
71)	Di-n-butylphthalate	12.68	149	1937772	20.601ug/ml	100
72)	Fluoranthene	13.72	202	1562216	20.857ug/ml	95
74)	Pyrene	14.07	202	1628825	20.603ug/ml	95
76)	Butylbenzylphthalate	15.04	149	882455	20.923ug/ml	92
77)	3,3'-Dichlorobenzidine	15.69	252	452401	24.542ug/ml	97
78)	Benzo(a)anthracene	15.72	228	1494825	19.839ug/ml	98
79)	Chrysene	15.76	228	1354255	19.904ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1295546	21.093ug/ml	96
82)	Di-n-octylphthalate	16.70	149	2249167	28.975ug/ml	96
83)	Benzo(b)fluoranthene	17.34	252	1117152	22.835ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	1038290	22.471ug/ml	96
85)	Benzo(a)pyrene	17.96	252	946174	20.552ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	20.71	276	525862	12.919ug/ml	91
88)	Dibenzo(a,h)anthracene	20.78	278	560277	13.755ug/ml	96
89)	Benzo(g,h,i)perylene	21.51	276	450867	11.250ug/ml	94

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

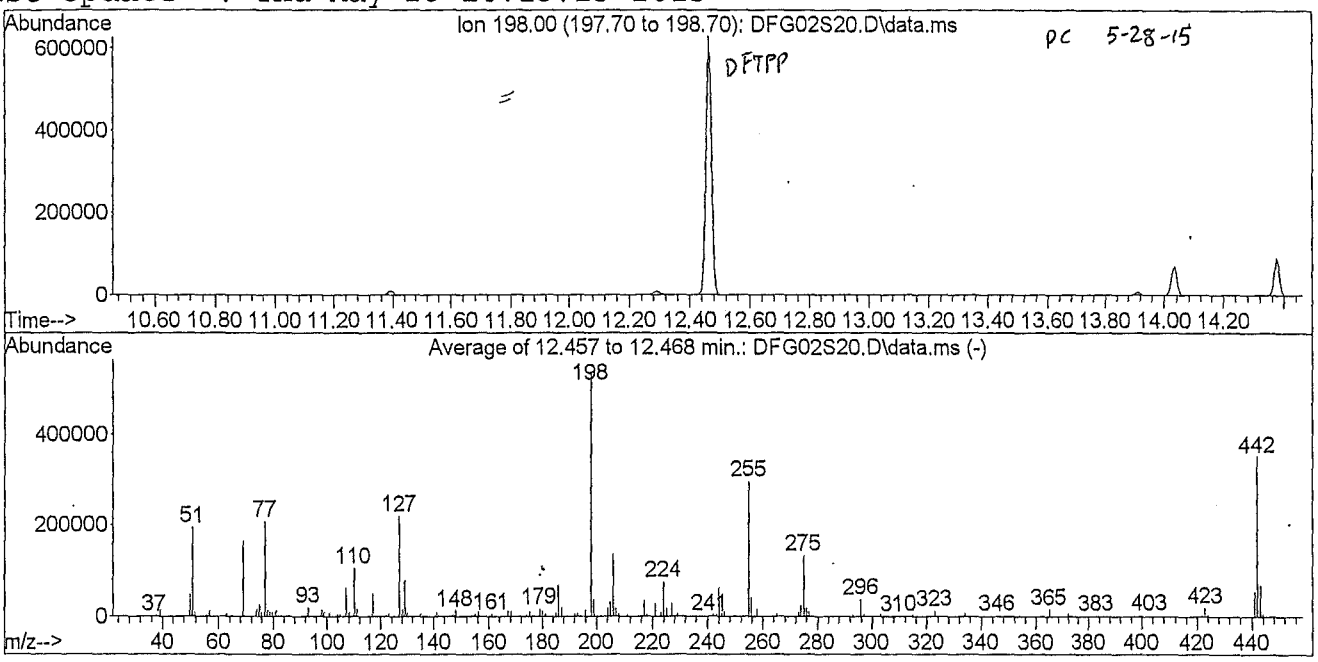
DFTPP

Data Path : C:\msdchem\1\DATA\2015\MAY15\21MAY15\
Data File : DFG02S20.D
Acq On : 05/21/2015 14:38
Operator : DJC
Sample : SSTD020DG 28104 DFTPPDG
Inst : 5975-D
Misc : X6-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D5.M
Title : EPA/CLP SOM01
Last Update : Thu May 28 10:13:13 2015

Original with SDG: F9K50
Case: 45316



Average of Scan 1763, 1764, 1765; Background corrected with Scan 1753

Spectrum Information: Average of 12.457 to 12.468 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	193564	PASS
68	69	0.00	2	1.4	2286	PASS
69	198	0.00	100	30.4	163553	PASS
70	69	0.00	2	1.0	1628	PASS
127	198	10	80	40.8	219404	PASS
197	198	0.00	2	0.5	2433	PASS
198	198	100	100	100.0	537792	PASS
199	198	5	9	6.8	36485	PASS
275	198	10	60	24.9	133741	PASS
365	198	1	100	2.9	15386	PASS
441	443	0.01	100	77.9	53181	PASS
442	198	50	100	65.3	351381	PASS
443	442	15	24	19.4	68240	PASS

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	134	49.00	1285	60.95	2013	71.95	49
36.95	680	50.00	47706	61.95	1858	73.00	1065
38.00	1923	50.95	193564	62.90	6228	73.95	15635
39.00	14087	51.95	9725	63.95	976	74.95	25657
39.90	517	52.95	362	64.95	3393	76.00	10138
41.00	530	55.00	1119	65.90	214	77.00	207901
41.95	72	56.00	4716	66.95	303	78.00	13859
43.00	295	57.00	11969	67.90	2286	78.90	10151
44.90	449	57.90	499	68.90	163553	79.95	8558
47.85	152	58.90	69	70.00	1628	80.90	12911
48.10	50	59.90	275	71.00	1147	81.95	3038

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	4107	93.95	1473	104.90	4089	117.95	3748
83.75	662	94.90	286	106.00	1697	118.95	386
84.10	271	95.95	1052	106.95	62941	119.90	869
84.90	2631	97.00	399	108.00	9473	120.90	204
85.90	2746	97.95	14382	108.95	1375	121.95	3343
86.90	1343	98.90	10919	109.90	105071	122.90	5118
87.90	400	99.85	947	110.95	15795	123.90	2467
88.90	107	100.90	7530	111.95	2221	124.95	2932
90.95	2312	101.95	531	112.90	285	126.00	1089
91.95	2699	102.95	2178	115.95	2955	126.90	219404
92.90	19013	103.95	3980	116.90	50139	127.90	15935

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.90	78067	141.90	3411	151.85	809	162.90	587
129.90	6819	142.90	2368	152.90	3136	163.90	349
130.95	1517	143.80	217	153.90	2569	164.90	3721
131.95	688	143.95	423	154.95	6457	166.00	982
133.05	414	144.85	614	155.95	9623	167.00	12557
133.95	2072	145.90	1910	156.95	2002	167.95	10687
134.90	6190	146.90	5325	157.90	1799	168.95	1993
135.90	2639	147.90	12638	158.90	1494	169.90	636
136.90	3620	148.90	2312	159.90	3091	170.85	942
137.85	406	149.90	700	160.90	5269	171.90	1917
140.90	9260	151.00	1515	161.95	1554	172.90	2478

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	5058	183.95	1307	194.95	825	206.00	135576
175.00	9396	184.95	8335	195.90	14384	206.95	17362
175.95	2669	186.00	67997	196.80	1059	207.90	3992
176.90	3670	187.00	18957	197.00	2433	208.90	1225
177.90	1102	187.95	2019	197.90	537792	210.05	2350
178.85	16461	188.90	3397	198.90	36485	210.95	5433
179.95	11987	189.85	627	199.90	2899	212.80	85
180.95	6195	190.90	1750	201.45	2737	212.95	286
181.95	953	191.90	5835	202.90	3387	213.70	57
182.70	166	192.90	6482	203.90	18488	214.00	69
182.85	433	193.90	1401	204.95	31696	214.90	1373

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	2806	228.90	6598	239.95	887	250.85	551
216.90	34141	229.90	975	240.90	1638	251.95	579
217.90	4440	230.95	2966	241.95	4200	252.95	1284
218.85	492	231.85	560	243.00	4246	254.00	2608
220.95	26925	232.90	486	244.00	61589	254.90	295765
222.90	8226	233.85	1896	245.00	8185	255.90	43349
223.95	75768	234.90	2193	245.90	10350	256.95	3278
224.95	19232	235.95	1496	246.90	1997	257.90	15758
225.95	1935	236.90	2603	247.95	523	258.90	2561
226.90	28301	237.95	397	248.90	2180	259.85	490
227.90	3814	238.95	1094	249.95	491	260.85	530

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
262.90	157	273.90	24939	285.00	1867	295.90	37245
263.75	435	274.95	133741	285.80	94	296.90	5146
264.95	6394	275.95	18072	286.00	240	297.90	363
265.90	1277	276.90	10619	288.05	120	298.90	144
266.80	64	277.95	1914	288.90	474	300.90	528
267.85	311	278.90	427	289.95	397	302.00	605
268.80	52	280.90	55	290.85	283	303.00	4218
269.85	373	281.10	108	291.90	499	303.95	1172
270.90	619	281.95	336	292.90	2595	304.90	145
271.95	802	282.90	1292	293.90	651	307.95	534
272.90	9595	283.90	725	294.90	567	308.95	390

Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.85	533	320.95	1116	332.95	1149	351.10	97
311.10	56	321.95	642	334.00	7207	352.00	3522
311.50	51	323.00	11769	335.00	1935	353.00	2404
312.00	51	323.95	2254	335.90	157	354.00	3497
312.95	312	324.95	244	338.80	166	354.95	724
313.95	1781	325.85	236	340.95	1257	358.80	114
314.90	4034	326.90	2322	341.95	294	359.00	81
315.95	2378	327.80	239	342.80	50	363.80	62
316.80	110	327.95	882	345.90	2413	364.90	15386
317.00	324	328.90	149	346.90	488	365.90	2002
319.95	149	331.95	913	350.90	137	366.85	131

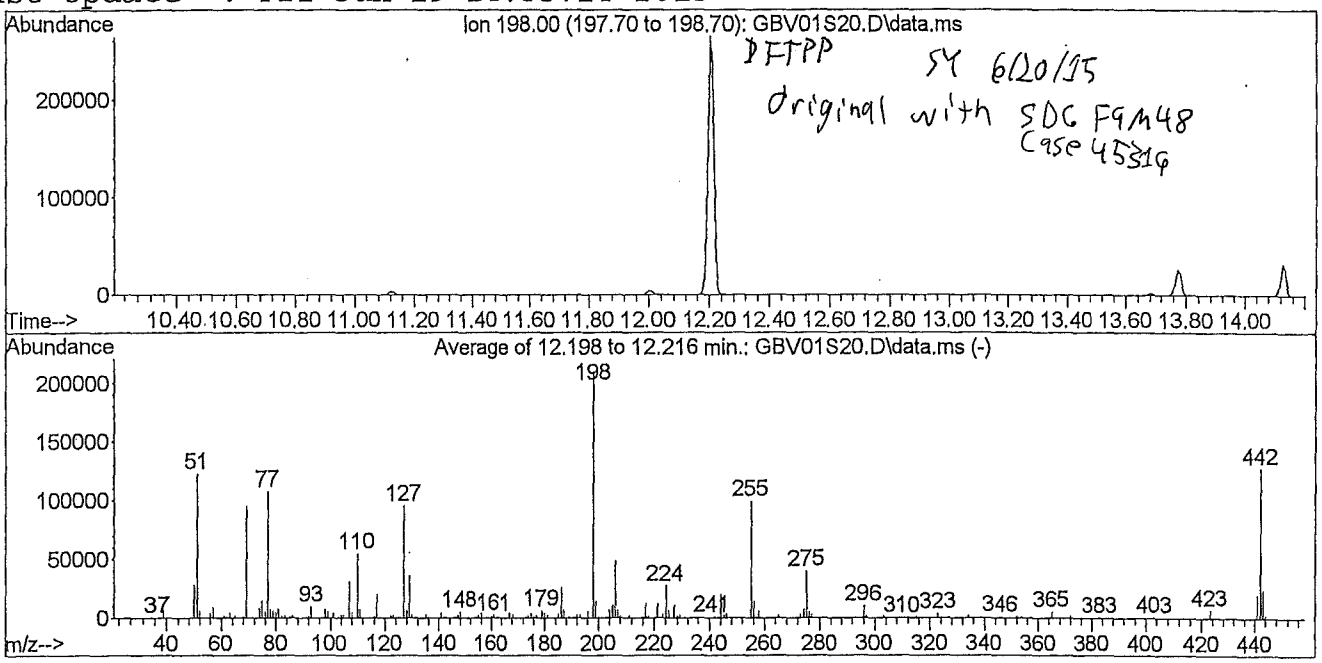
Average of 12.457 to 12.468 min.: DFG02S20.D\data.ms
SSTD020DG 28104 DFTPPDG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
369.90	341	391.95	282	425.00	375	439.90	225
370.95	802	400.90	347	434.10	56	441.00	53181
372.00	5649	401.95	2189	435.00	108	442.00	351381
373.05	1427	403.00	3097	435.50	56	443.00	68240
374.00	128	403.95	1173	436.45	148	444.00	6462
376.90	57	404.90	59	437.10	63	444.95	314
382.90	1519	414.85	149	437.80	167		
383.90	442	420.95	2548	438.30	103		
389.95	695	422.00	2473	438.70	87		
391.00	548	423.00	18427	439.15	209		
391.80	65	424.00	3761	439.60	65		

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

: 00701

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

00762

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				

00703

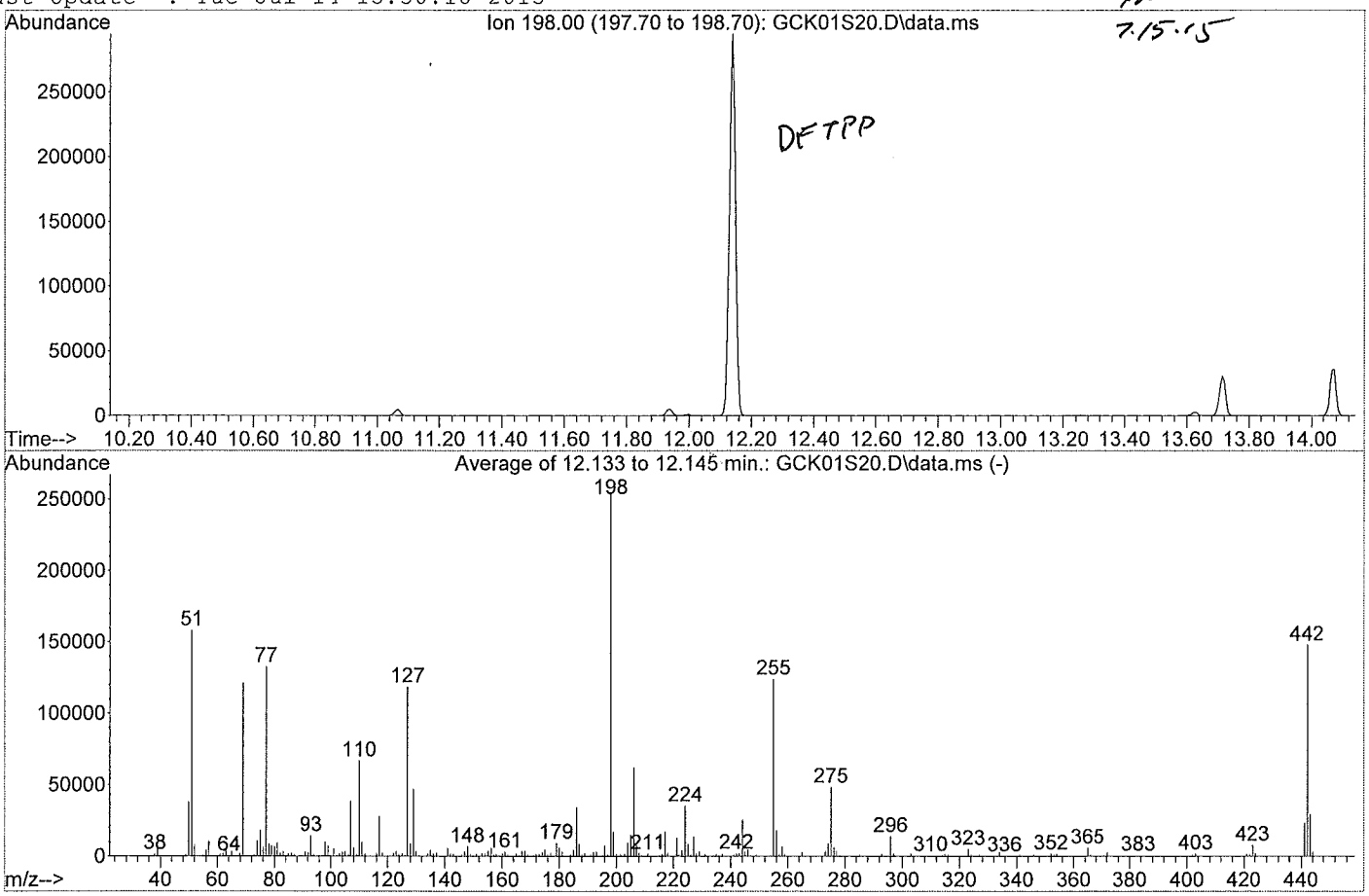
DFTPP

Data Path : R:\G\2015\JUL15\02JUL15\
Data File : GCK01S20.D
Acq On : 07/02/2015 10:50
Operator : DJC
Sample : SSTD020GK 28543 DFTPPGK
Inst : 5975-G
Misc : . X07/19/15
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

7.15.15



AVERAGED SCANS: 1708, 1709, 1710 ; BACKGROUND SUBTRACTED WITH SCAN 1694.

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	62.1	157831	PASS
68	69	0.00	2	1.2	1509	PASS
69	198	0.00	100	47.7	121073	PASS
70	69	0.00	2	0.2	224	PASS
127	198	10	80	46.6	118367	PASS
197	198	0.00	2	0.4	1120	PASS
198	198	100	100	100.0	254059	PASS
199	198	5	9	6.6	16754	PASS
275	198	10	60	19.0	48163	PASS
365	198	1	100	2.2	5541	PASS
441	443	0.01	100	79.7	23229	PASS
442	198	50	100	58.1	147592	PASS
443	442	15	24	19.7	29139	PASS

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	90	51.00	157831	62.00	1809	73.00	627
36.95	426	52.00	7737	63.00	4615	73.95	10470
38.00	1388	52.90	192	63.90	296	75.00	17913
39.00	10007	53.05	145	64.05	425	76.00	5990
40.00	571	53.90	47	65.00	2999	77.05	132475
41.00	347	54.95	697	65.95	316	78.10	8483
41.95	113	56.00	4159	67.05	70	79.00	7144
43.95	4	57.00	10395	67.90	1509	80.00	6329
44.90	393	57.90	77	69.00	121073	81.00	8869
49.00	849	60.10	175	70.10	224	82.00	1946
49.95	37553	60.95	1521	72.00	77	83.05	2794

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.80	340	95.05	110	106.05	994	118.95	26
83.95	457	96.05	509	107.00	38146	120.00	514
85.00	1468	97.05	426	108.00	5695	120.80	252
86.00	1786	98.00	9645	109.00	1033	121.10	83
87.00	840	99.00	7317	109.95	66566	122.00	1918
87.95	223	99.95	528	110.95	9898	123.00	3032
88.95	154	101.00	5123	112.00	1329	123.90	1381
91.05	2866	102.00	236	114.95	125	125.05	1470
92.05	2124	103.00	1520	116.05	1877	126.05	680
93.00	14014	104.00	2744	117.00	27690	126.95	118367
93.95	848	105.00	3117	118.05	1915	127.95	8827

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	46432	142.00	1493	151.95	403	163.10	241
130.00	3598	143.00	1310	153.00	1675	163.95	324
131.05	754	144.05	484	154.00	1484	164.95	1555
132.05	493	145.05	301	155.10	3443	166.05	644
132.85	315	146.00	883	156.10	5360	167.10	3304
134.00	1598	147.00	2853	157.05	1064	168.05	3556
135.00	3982	147.95	6523	157.95	1124	169.05	1015
136.00	1540	148.95	1257	159.00	710	169.80	66
137.05	2100	149.95	593	160.05	1813	169.95	247
137.90	112	151.00	1147	161.05	2892	170.95	378
140.95	5199	151.30	269	162.00	808	171.20	128

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	1134	183.10	269	193.85	528	205.05	14788
173.05	1355	184.05	809	194.10	239	206.10	61805
174.00	2486	185.00	4245	195.05	626	207.05	7961
175.05	4428	186.10	33843	196.00	7200	208.00	2426
176.05	1017	187.05	8568	196.95	1120	208.95	717
177.05	1934	188.05	876	198.00	254059	210.15	624
177.95	526	189.00	1768	199.00	16754	210.90	566
179.00	9001	189.95	373	200.00	1542	211.10	1656
180.00	5596	191.00	935	201.55	1249	211.85	303
181.05	2947	192.00	2751	202.95	1350	213.10	178
181.95	554	193.00	2980	204.05	9204	215.00	619

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
216.05	1145	224.10	34965	234.95	1115	245.05	3400
217.00	17081	225.10	8261	236.00	651	246.00	4464
218.00	2017	226.05	988	237.05	1057	246.80	249
218.80	95	227.00	13607	237.90	183	247.00	703
219.05	263	228.00	2012	238.95	507	248.20	52
219.80	71	229.05	3125	239.90	235	248.95	940
220.20	226	229.95	364	240.20	120	249.95	267
221.10	12375	231.05	1300	241.05	835	250.60	128
221.80	1199	232.05	245	242.05	1807	251.05	239
222.00	741	232.95	324	243.00	1689	251.40	74

223.05	3911	234.05	781	244.10	25461	251.70	145

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.10	113	261.00	322	271.90	114	283.95	328
252.40	133	263.90	49	272.15	309	285.05	690
252.80	190	265.00	2505	273.00	3359	286.05	133
253.00	469	265.90	68	274.05	8742	289.00	123
253.95	711	266.05	351	275.05	48163	290.05	139
255.00	123672	267.85	143	276.05	6142	292.00	205
256.05	17777	269.95	260	277.00	3655	292.95	1093
257.05	1398	270.50	134	278.05	666	294.00	274
258.05	6335	270.90	87	278.80	124	295.05	332
259.00	1137	271.10	251	282.00	130	296.00	13679
259.95	258	271.60	80	282.95	486	297.00	1858

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.95	140	314.95	1350	329.00	72	350.95	123
301.15	182	316.05	977	332.00	445	352.05	1535
301.90	194	316.90	105	332.95	576	353.05	1086
303.05	1637	321.00	468	334.10	2781	354.00	1253
303.90	291	322.00	115	334.95	697	354.95	263
304.10	94	323.05	4793	335.80	56	365.00	5541
307.90	72	324.05	981	340.10	50	366.00	862
309.00	188	325.10	56	341.05	757	369.90	131
309.95	236	326.95	916	342.05	134	370.80	81
313.00	120	328.00	453	346.05	864	371.00	355
314.05	582	328.80	63	347.00	164	372.15	2362

Average of 12.133 to 12.145 min.: GCK01S20.D\data.ms
SSTD020GK 28543 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.95	482	421.00	1328	434.90	74	444.00	2774
383.05	547	422.05	1156	435.35	171	445.00	64
384.05	224	423.05	7565	435.60	69		
389.95	372	424.05	1821	435.90	146		
390.90	71	425.05	273	436.35	153		
391.10	150	429.30	51	436.70	103		
391.90	122	431.65	104	437.40	131		
400.80	51	432.45	124	438.30	50		
401.95	798	433.35	308	441.05	23229		
403.05	1457	434.05	155	442.05	147592		
404.00	405	434.50	81	443.05	29139		

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL02BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL02BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL02BLK

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 05/27/2015

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-	2.47	70.	JN
02	625-86-5	Furan, 2,5-dimethyl-	2.62	110	JN
03		Unknown 4-Chloro-2-butanone	3.52	69.	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.71	4100	J
05		Unknown 1,2,3,4-Tetrahydropentalene, 1,1-dimethy	7.45	74.	J
06		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	710	J
07		Unknown 9-Octadecenamide, (Z)-	14.32	69.	J
08	629-54-9	Hexadecanamide	14.42	190	JN
09	301-02-0	9-Octadecenamide, (Z)-	15.32	1400	JN
10	124-26-5	Octadecanamide	15.41	76.	JN
11		Unknown 9-Octadecenamide, (Z)-	16.13	69.	J
12		Unknown 9-Octadecenamide, (Z)-	16.21	77.	J
13		Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimet	16.50	150	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

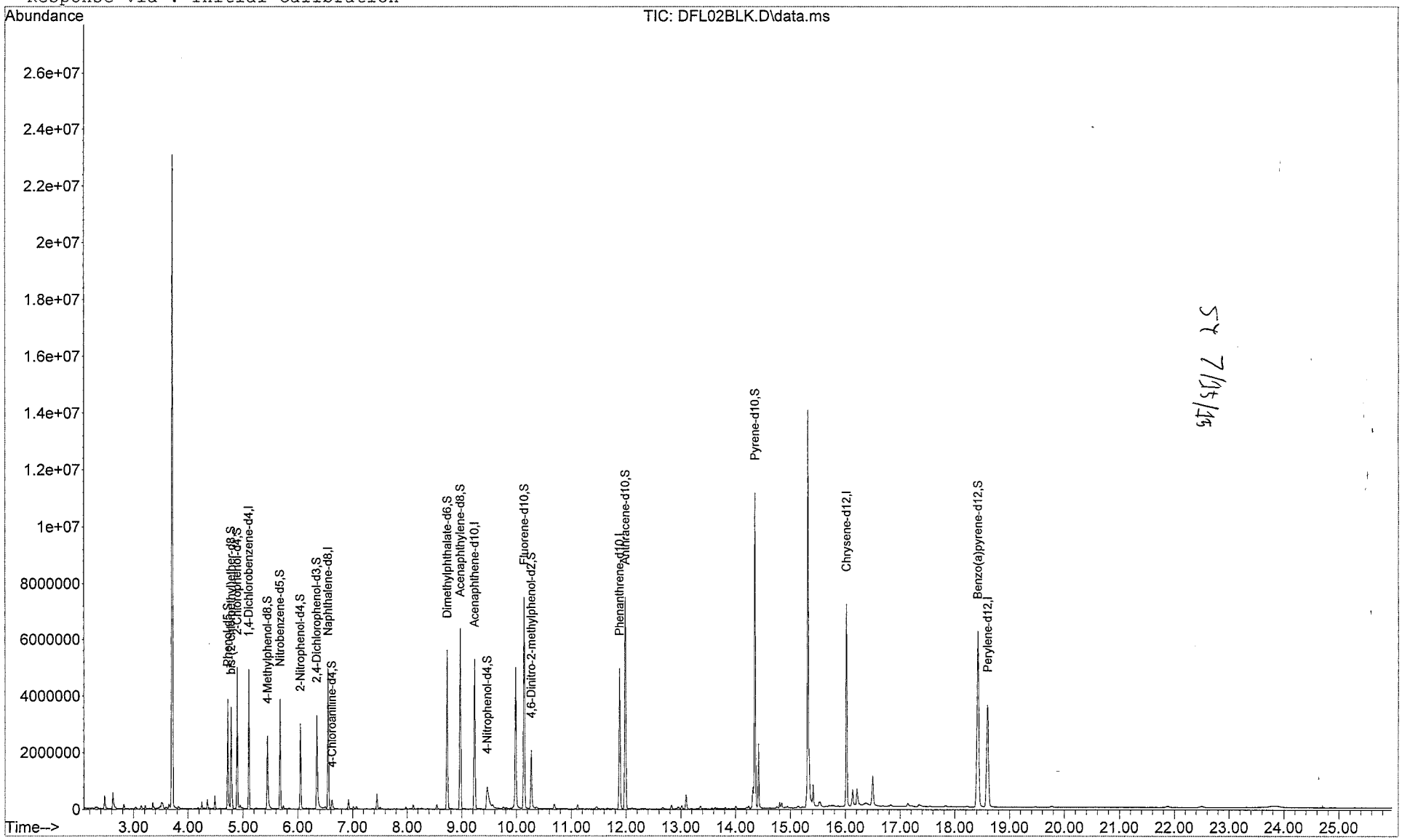
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 10:54:19 2015 Results File: DSOM01D5.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



57 7/15/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:54:19 2015 Results File: DSOM01D5.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	5.10	152	827035	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2846652	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1752020	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	2999012	20.00 ug/ml
73) Chrysene-d12	16.02	240	3503198	20.00 ug/ml
81) Perylene-d12	18.60	264	3362251	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1384273	26.894ug/ml
6) bis-(2-chloroethyl)ether-d	4.78	67	941043	24.986ug/mL
7) 2-Chlorophenol-d4	4.89	132	1382669	26.950ug/ml
13) 4-Methylphenol-d8	5.45	113	765409	19.838ug/mL
17) Nitrobenzene-d5	5.67	128	628452	26.954ug/ml
21) 2-Nitrophenol-d4	6.05	143	726295	26.268ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1115690	24.970ug/mL
28) 4-Chloroaniline-d4	6.62	131	154103	4.591ug/mL
42) Dimethylphthalate-d6	8.73	166	3419032	31.651ug/mL
45) Acenaphthylene-d8	8.97	160	4152061	29.191ug/mL
50) 4-Nitrophenol-d4	9.46	143	481408	26.833ug/mL
57) Fluorene-d10	10.14	176	2942047	30.822ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	548405	28.956ug/mL
69) Anthracene-d10	11.99	188	5045451	32.838ug/mL
75) Pyrene-d10	14.35	212	5324080	36.089ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5501949	35.757ug/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)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 10:54:19 2015 Results File: DSOM01D5.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)

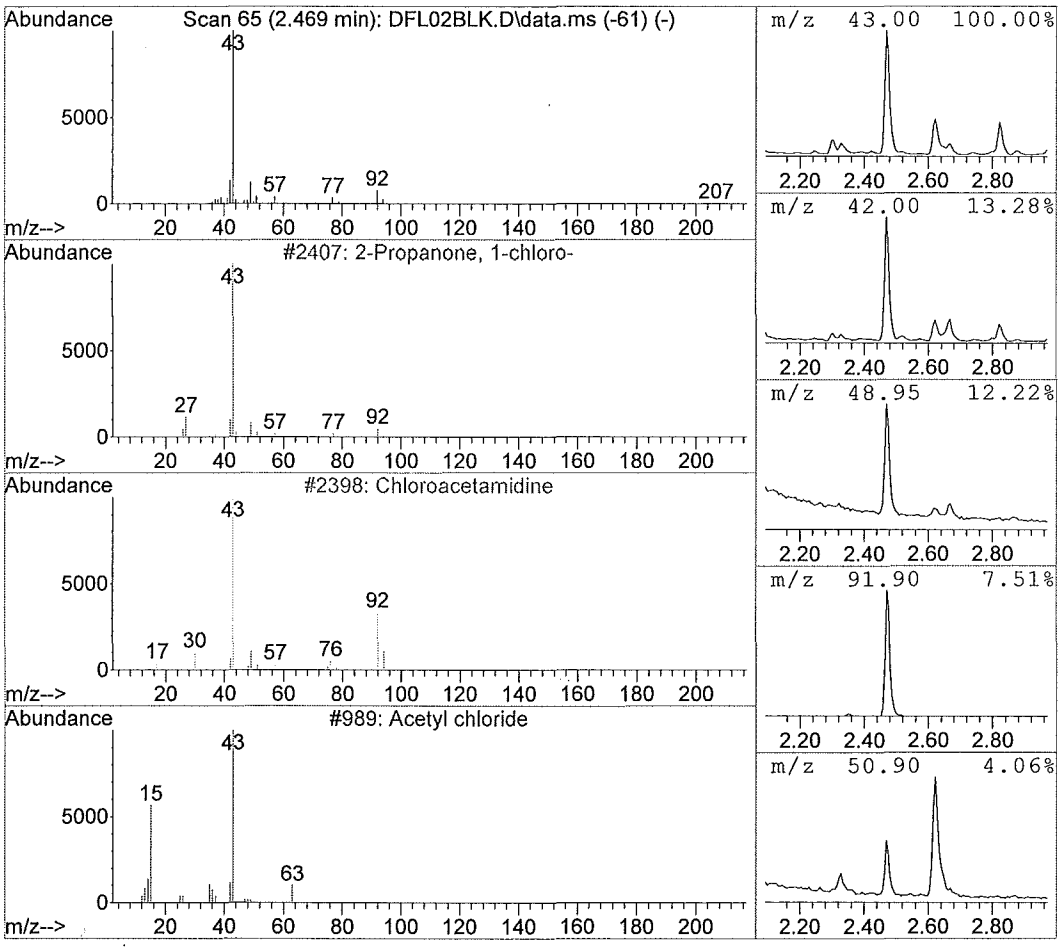
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.47	2.09 ug/ml	510650	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	86.00
2	Chloroacetamidine	2398	020846-52-0	64.00
3	Acetyl chloride	989	000075-36-5	9.00
4	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00
5	2-Propanone, 1,1-dichloro-	10955	000513-88-2	4.00



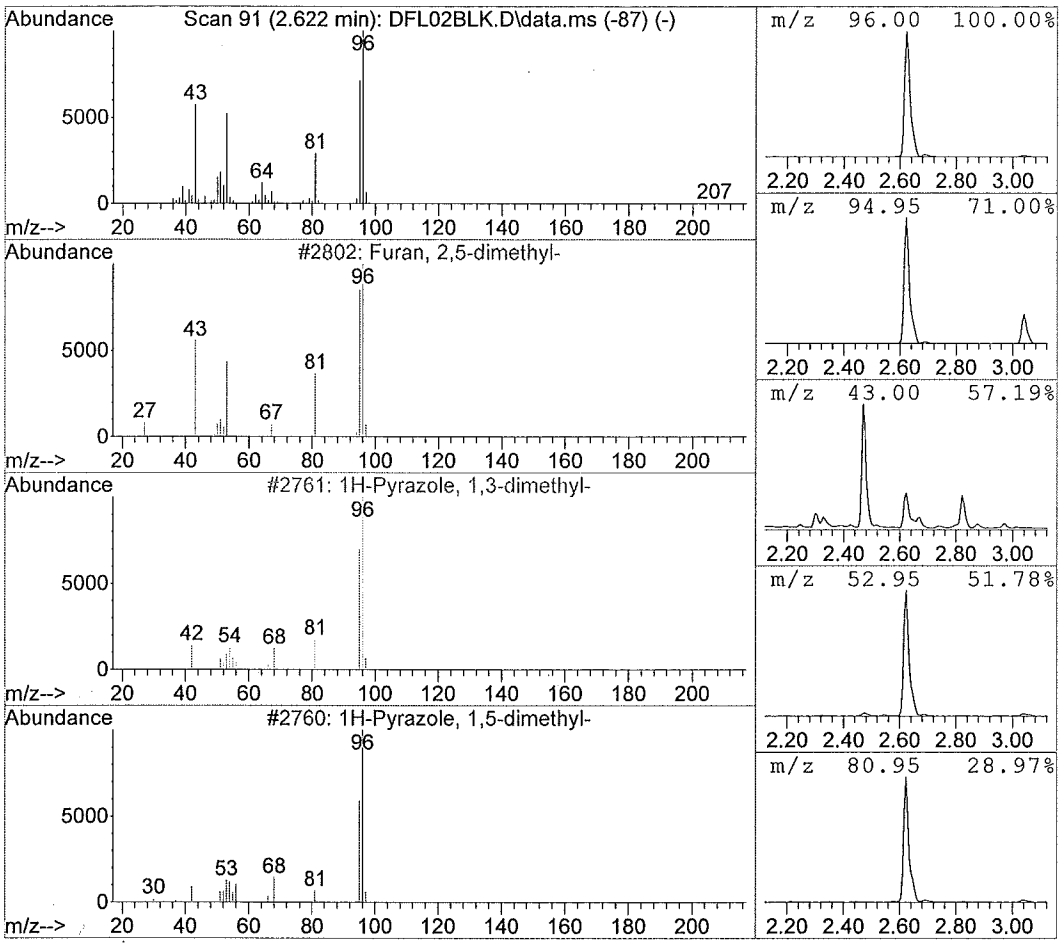
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.62	3.16 ug/ml	773114	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	90.00
2	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	35.00
3	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	35.00
4	Ethanone, 1-(methylenecyclopropyl)-	2825	062266-35-7	33.00
5	1H-Imidazole, 4,5-dimethyl-	2767	002302-39-8	27.00



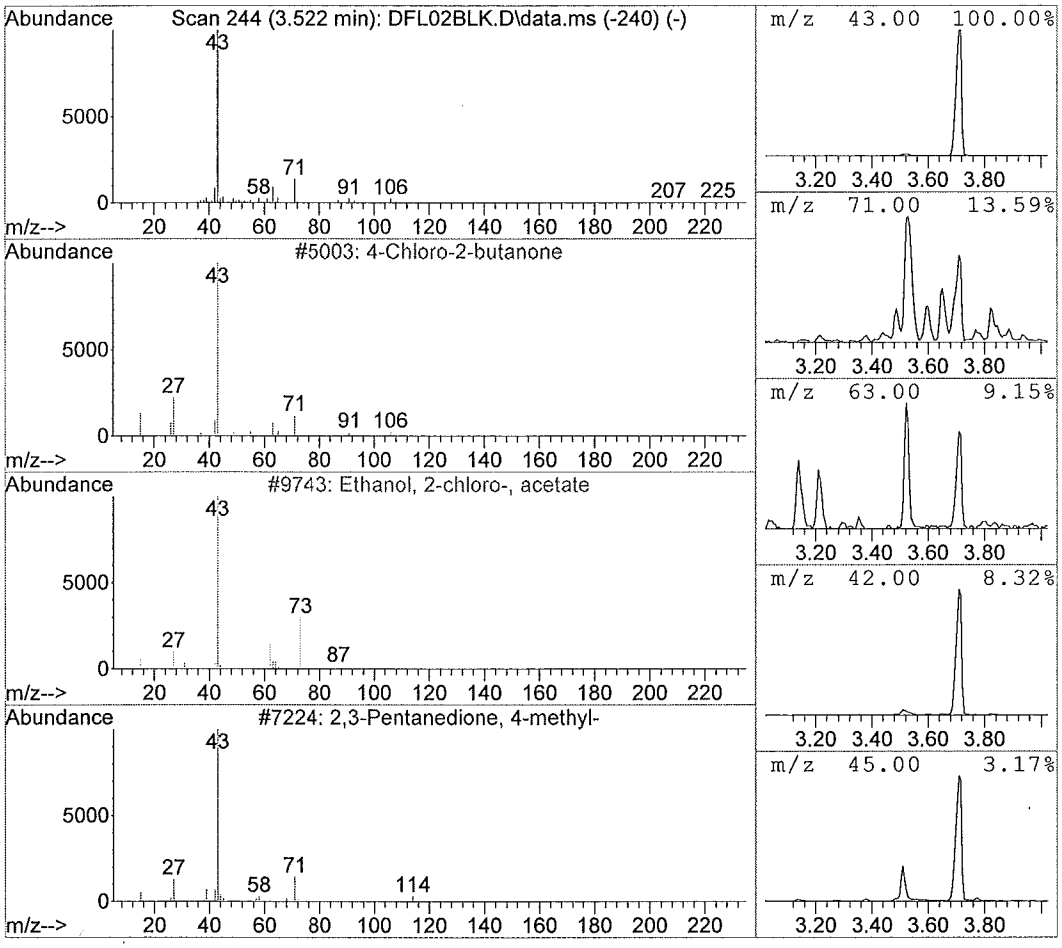
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	2.06 ug/ml	504453	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	72.00
2	Ethanol, 2-chloro-, acetate	9743	000542-58-5	36.00
3	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	25.00
4	Acetyl chloride	988	000075-36-5	9.00
5	2-Hexanone, 3-methyl-	7499	002550-21-2	9.00



00715

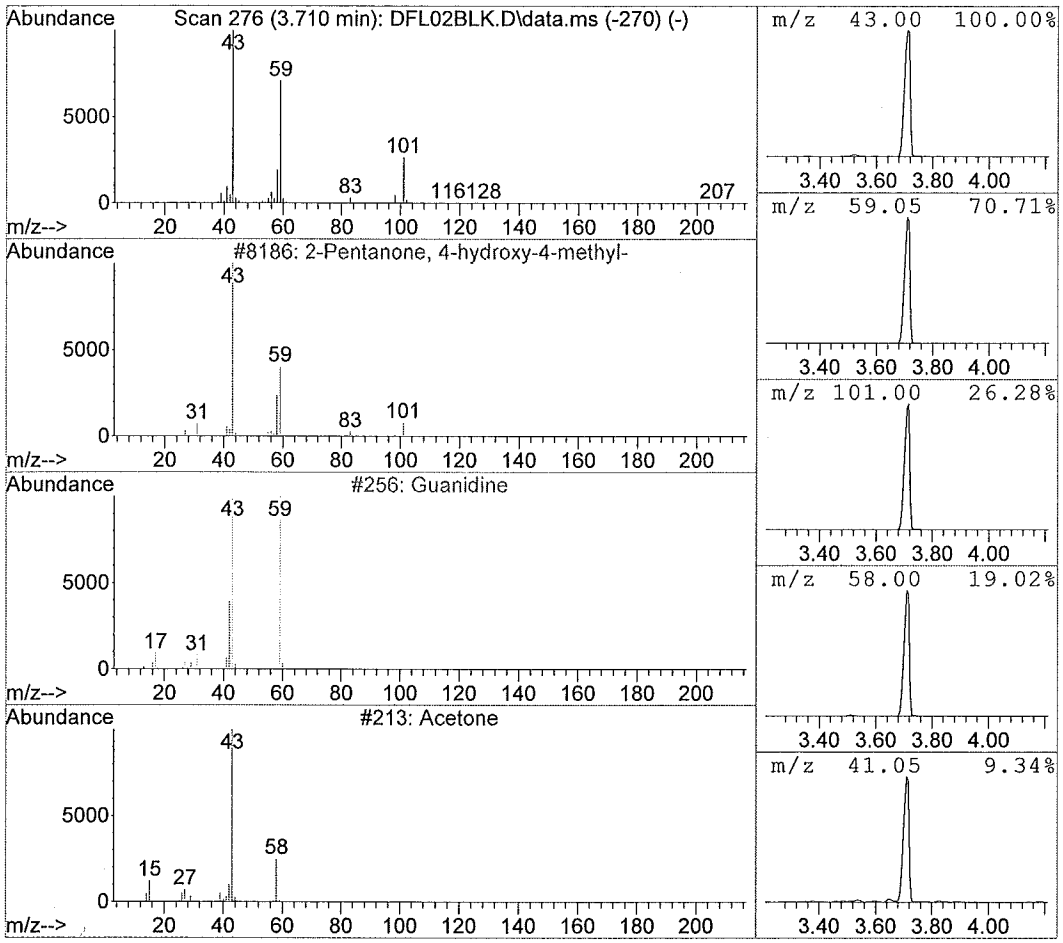
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.71	122.72 ug/ml	30032430	1,4-Dichlorobenzene-d4	4894662

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	43.00
3	Acetone	213	000067-64-1	9.00
4	5-Hexen-2-one	3159	000109-49-9	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00



00716

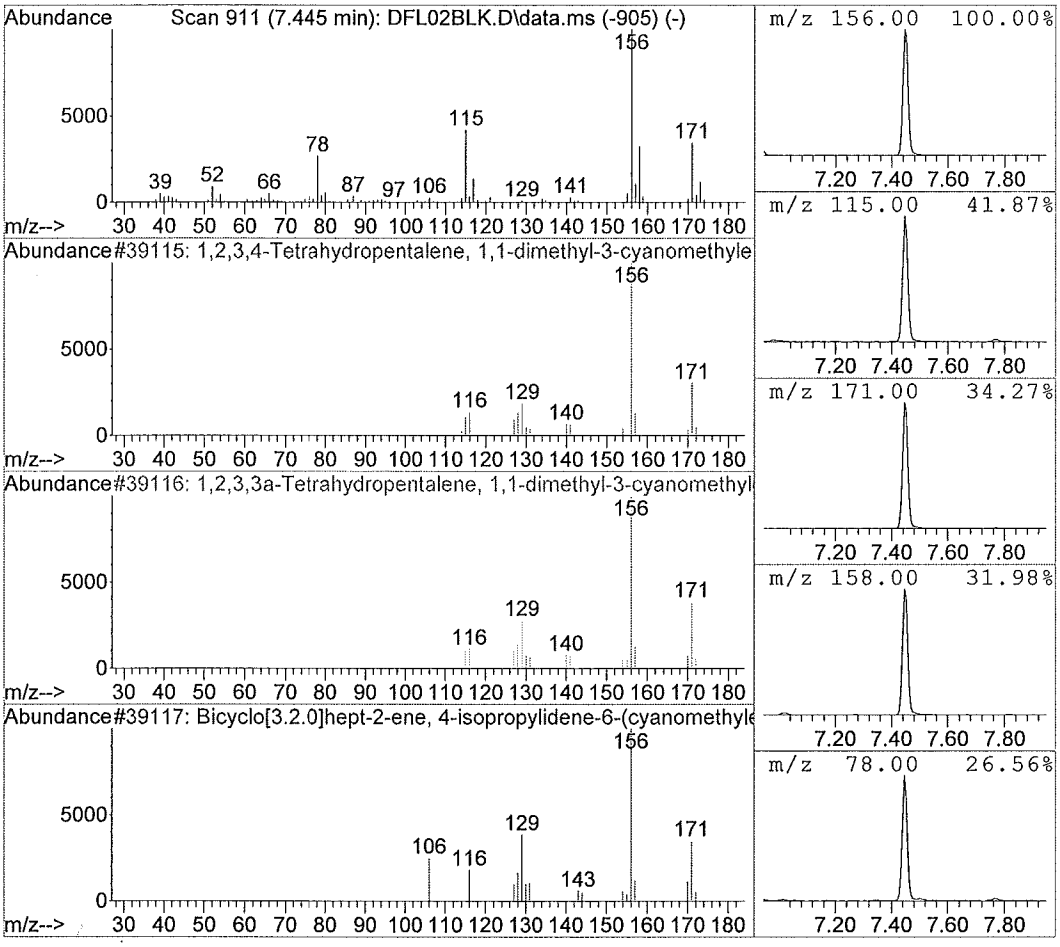
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.45	2.23 ug/ml	666689	Naphthalene-d8	5967128

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
2	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00
3	Bicyclo[3.2.0]hept-2-ene, 4-isoprop	39117	1000217-15-6	32.00
4	6-Isopropylquinoline	39076	000135-79-5	32.00
5	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00



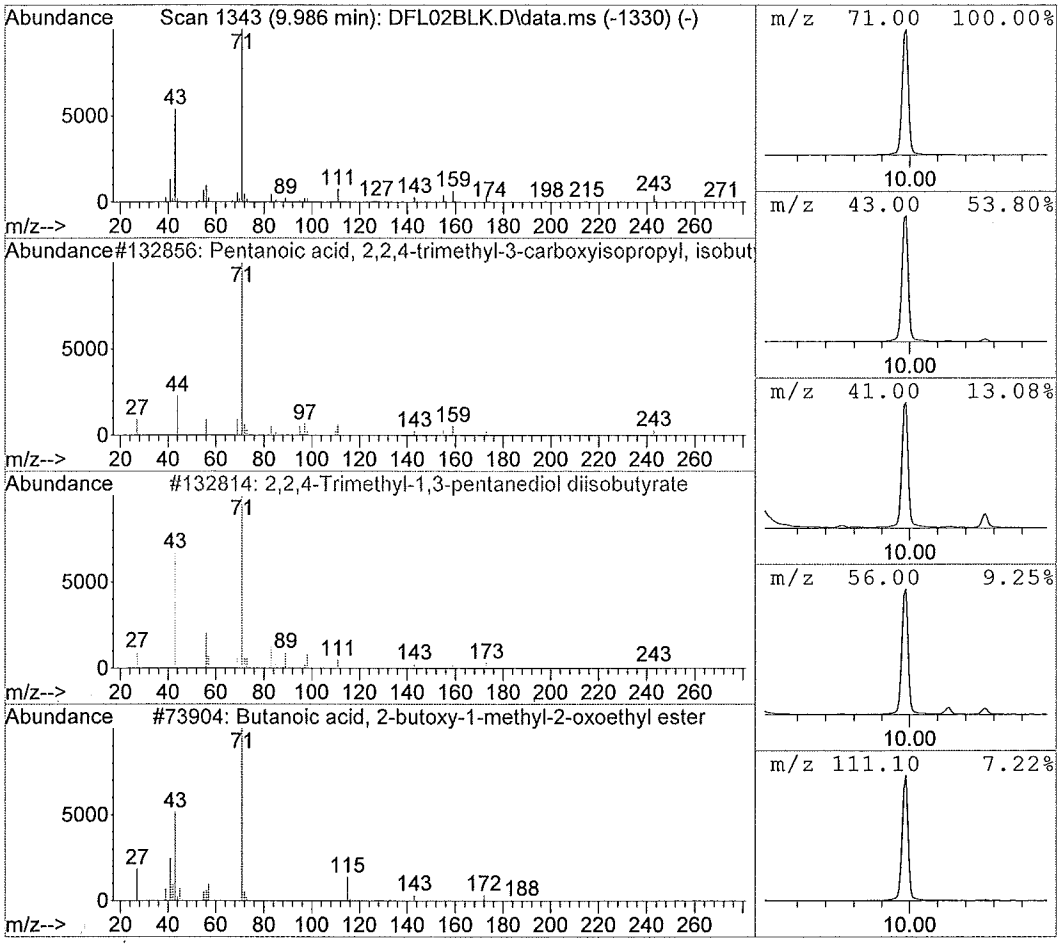
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	21.39 ug/ml	7551662	Acenaphthene-d10	7060718

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	45.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
4	2,2'-Bifuran, octahydro-	19660	001592-33-2	42.00
5	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	42.00



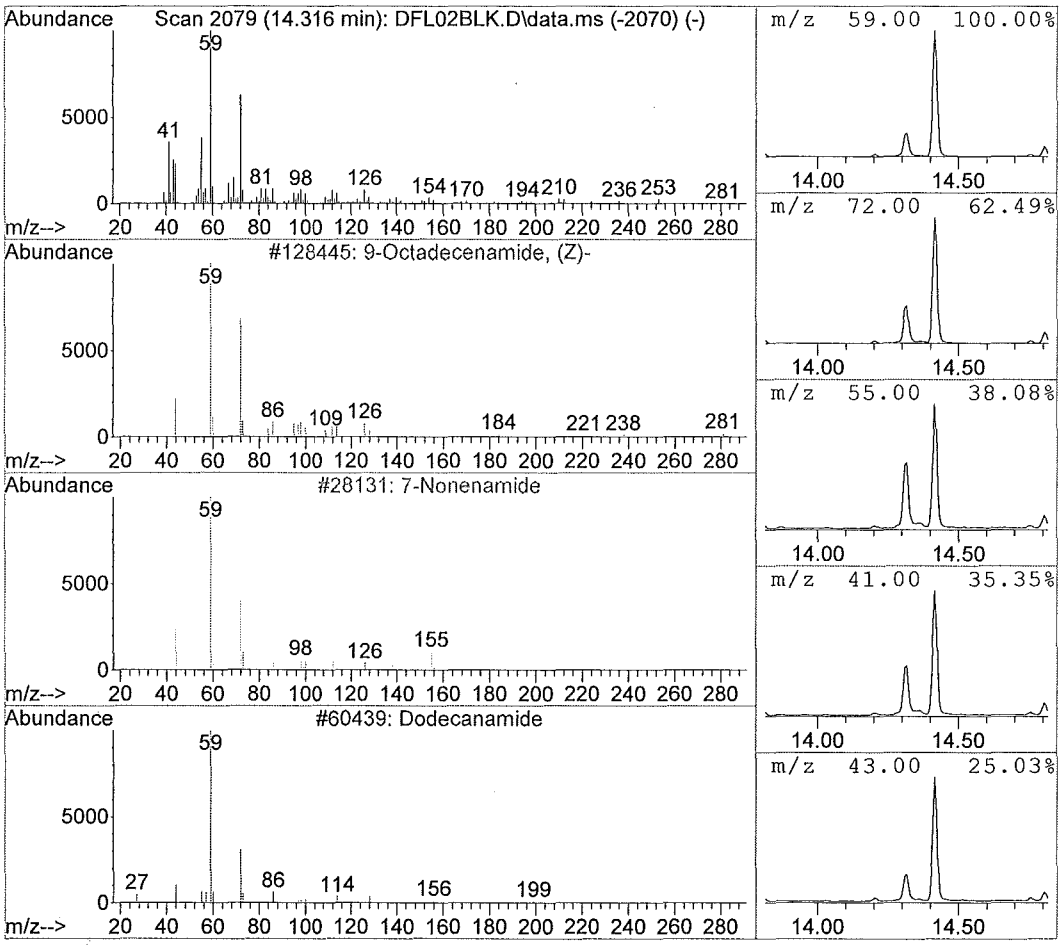
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.32	2.07 ug/ml	925321	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	78.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
5	Hexadecanamide	106565	000629-54-9	53.00



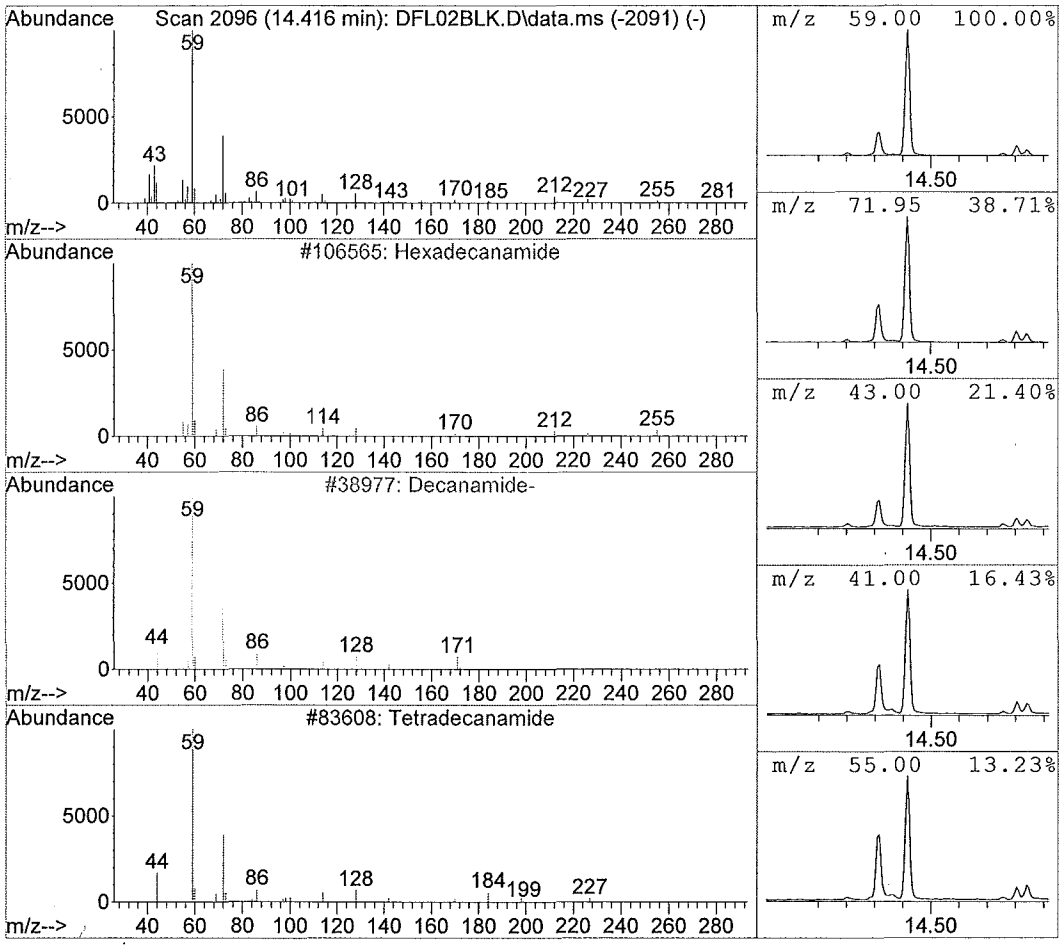
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.42	5.79 ug/ml	2586675	Chrysene-d12	8931968

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	83608	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	90.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



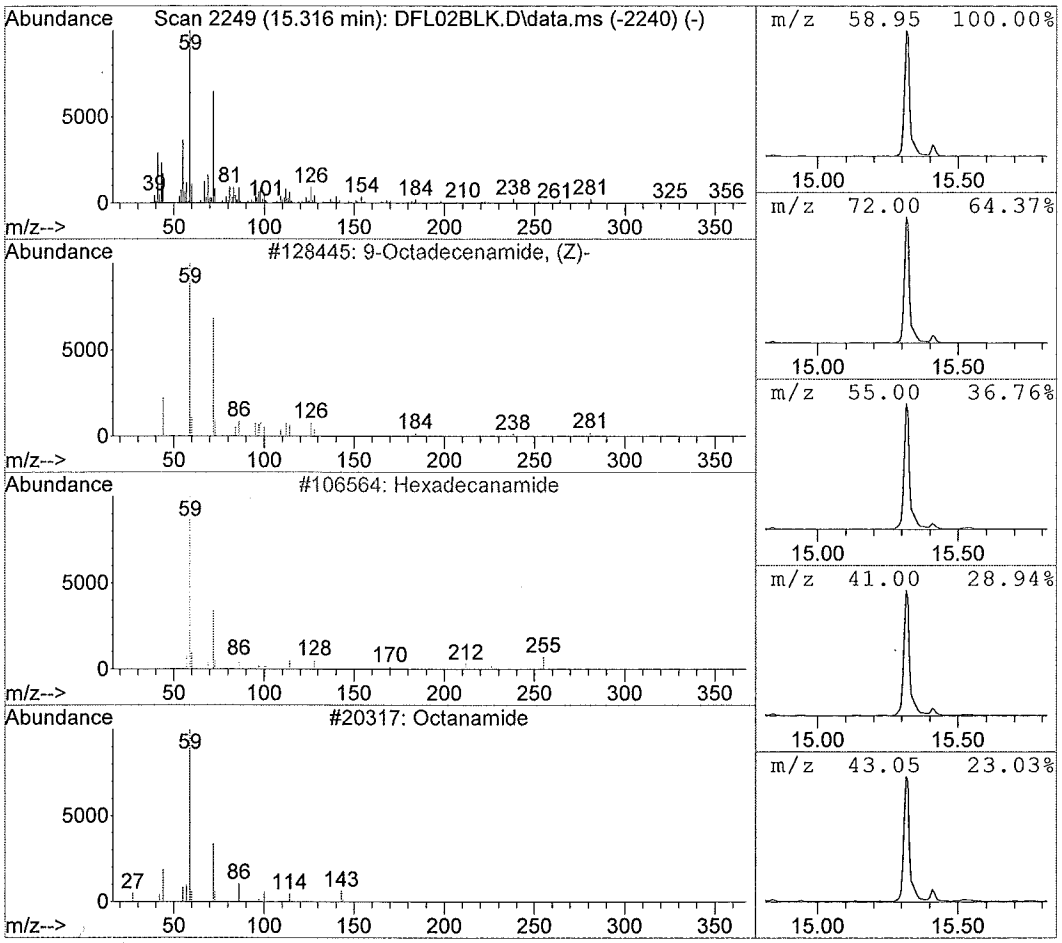
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.32	43.45 ug/ml	19404454	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Octanamide	20317	000629-01-6	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Tetradecanamide	83609	000638-58-4	50.00



: 00721

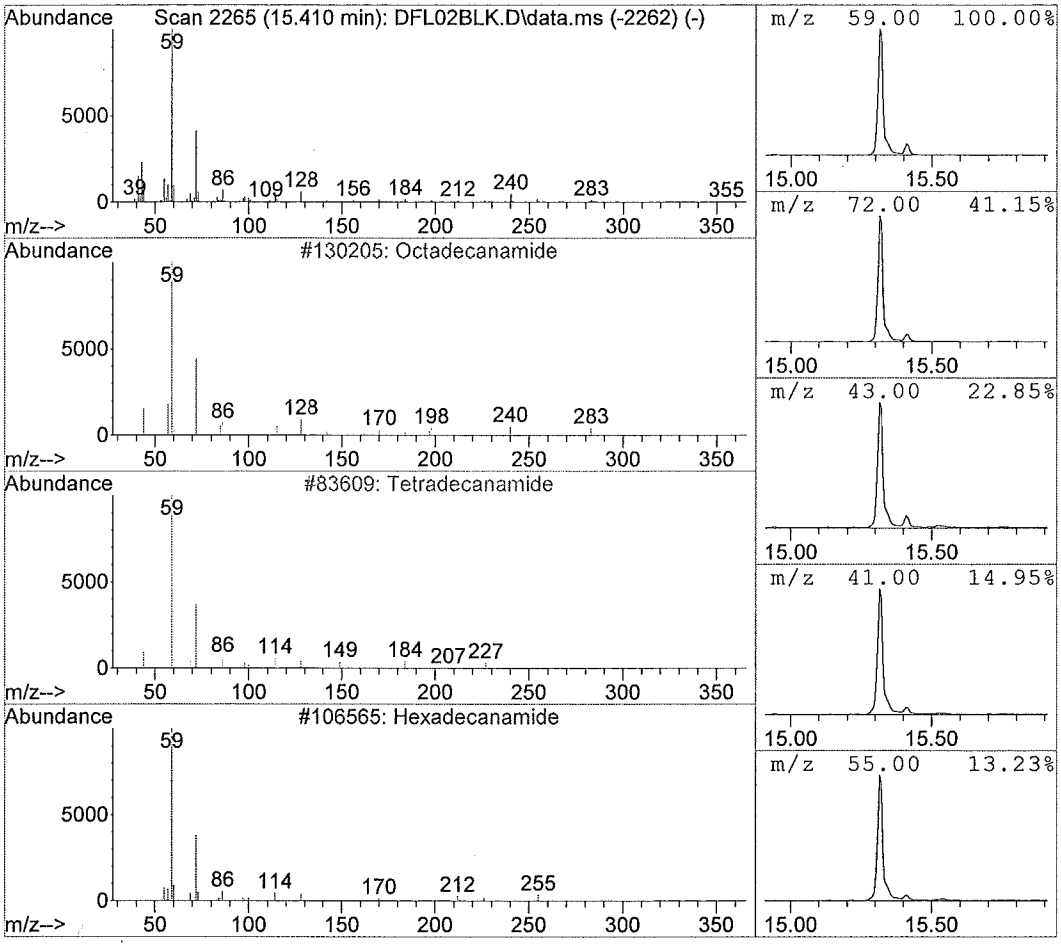
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.41	2.28 ug/ml	1019542	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130205	000124-26-5	90.00
2	Tetradecanamide	83609	000638-58-4	87.00
3	Hexadecanamide	106565	000629-54-9	86.00
4	Decanamide-	38977	002319-29-1	78.00
5	Dodecanamide	60439	001120-16-7	78.00



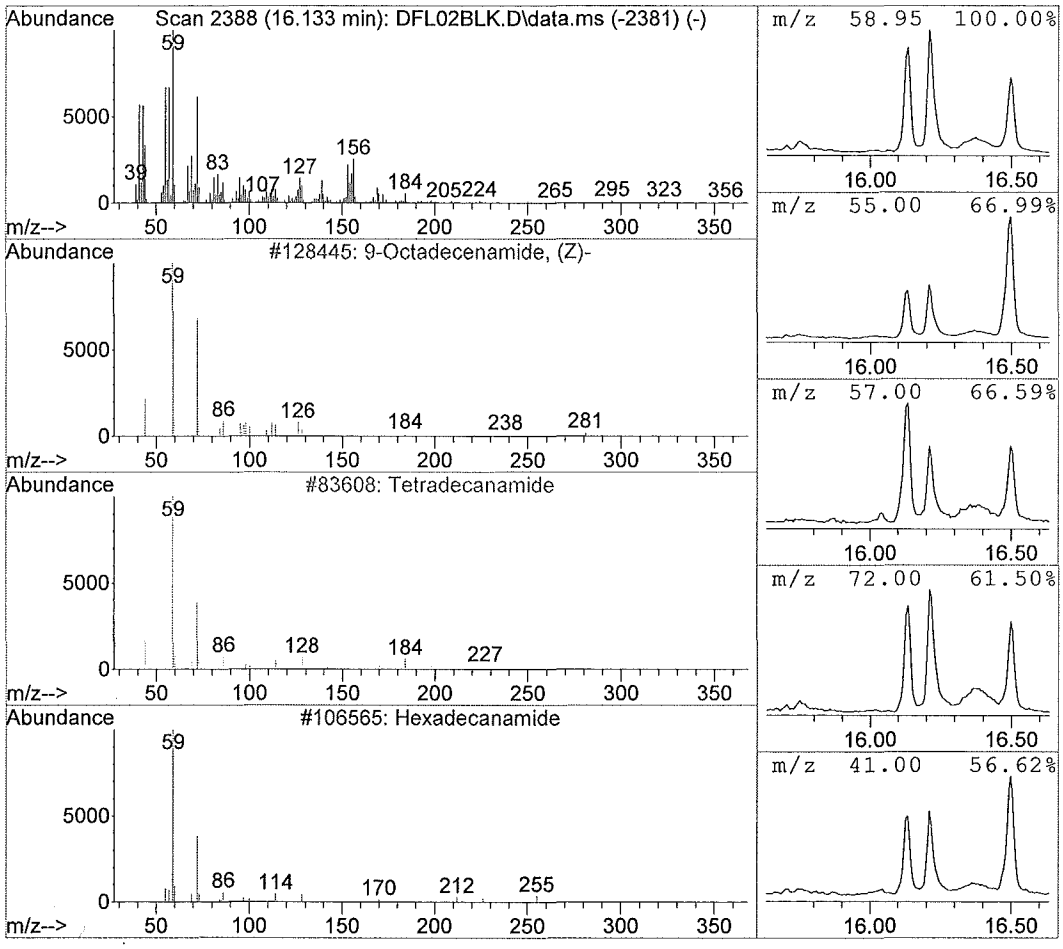
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.13	2.08 ug/ml	928466	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	49.00
2	Tetradecanamide	83608	000638-58-4	49.00
3	Hexadecanamide	106565	000629-54-9	47.00
4	Cyclohexanecarboxamide	11821	001122-56-1	35.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	35.00



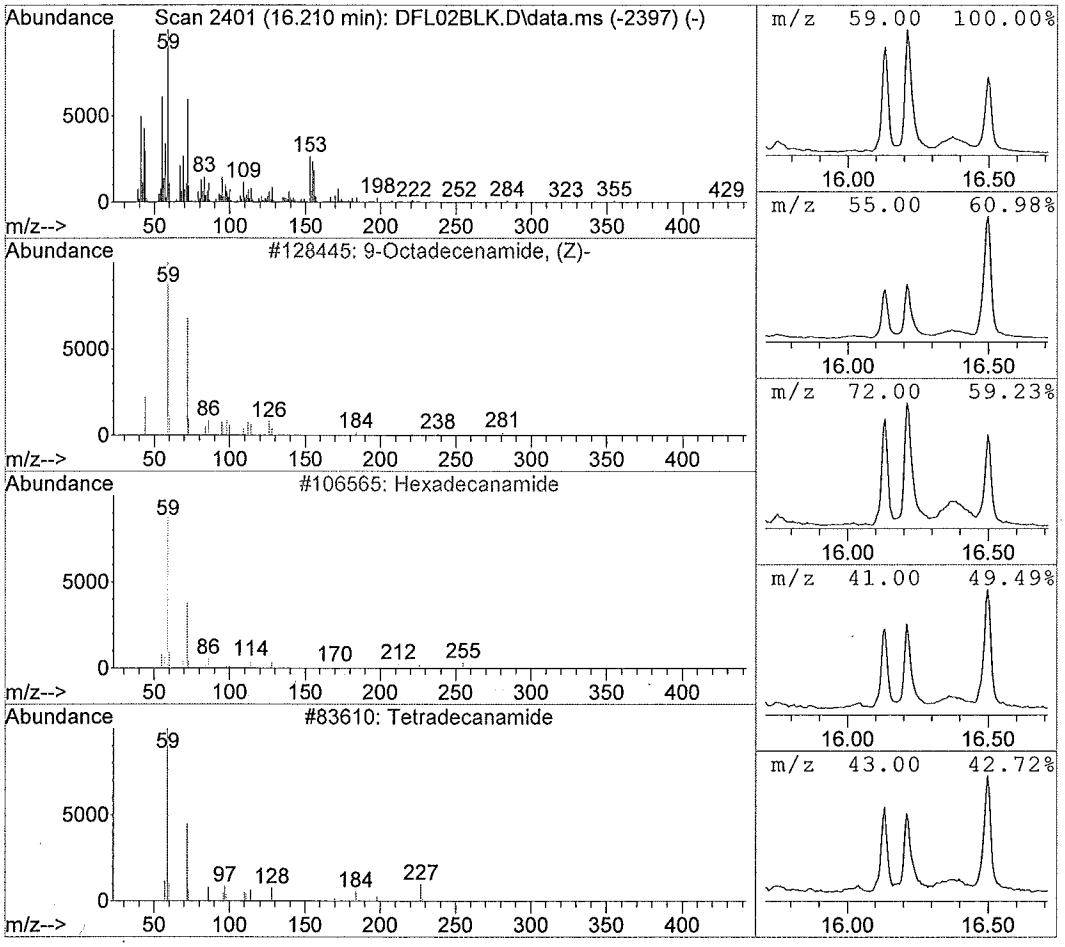
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.21	2.32 ug/ml	1036281	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	58.00
2	Hexadecanamide	106565	000629-54-9	50.00
3	Tetradecanamide	83610	000638-58-4	50.00
4	7-Nonenamide	28131	090949-53-4	49.00
5	Octadecanamide	130204	000124-26-5	47.00



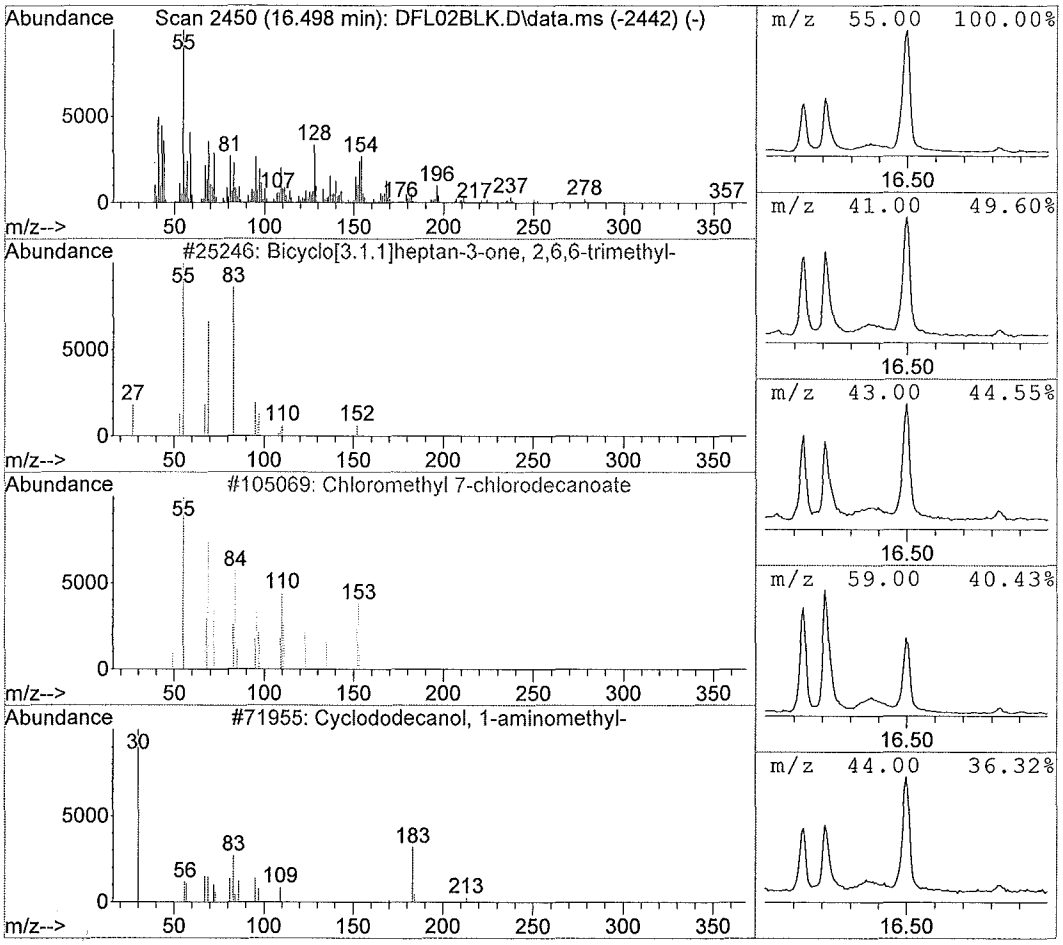
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL02BLK.D Vial: 2
Acq On : 05/27/2015 09:25 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.50	4.62 ug/ml	2063107	Chrysene-d12	8931968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25246	018358-53-7	15.00
2	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	12.00
3	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	12.00
4	5-Undecene, (E)-	27037	000764-97-6	11.00
5	Cyclohexanecarboxamide	11823	001122-56-1	11.00

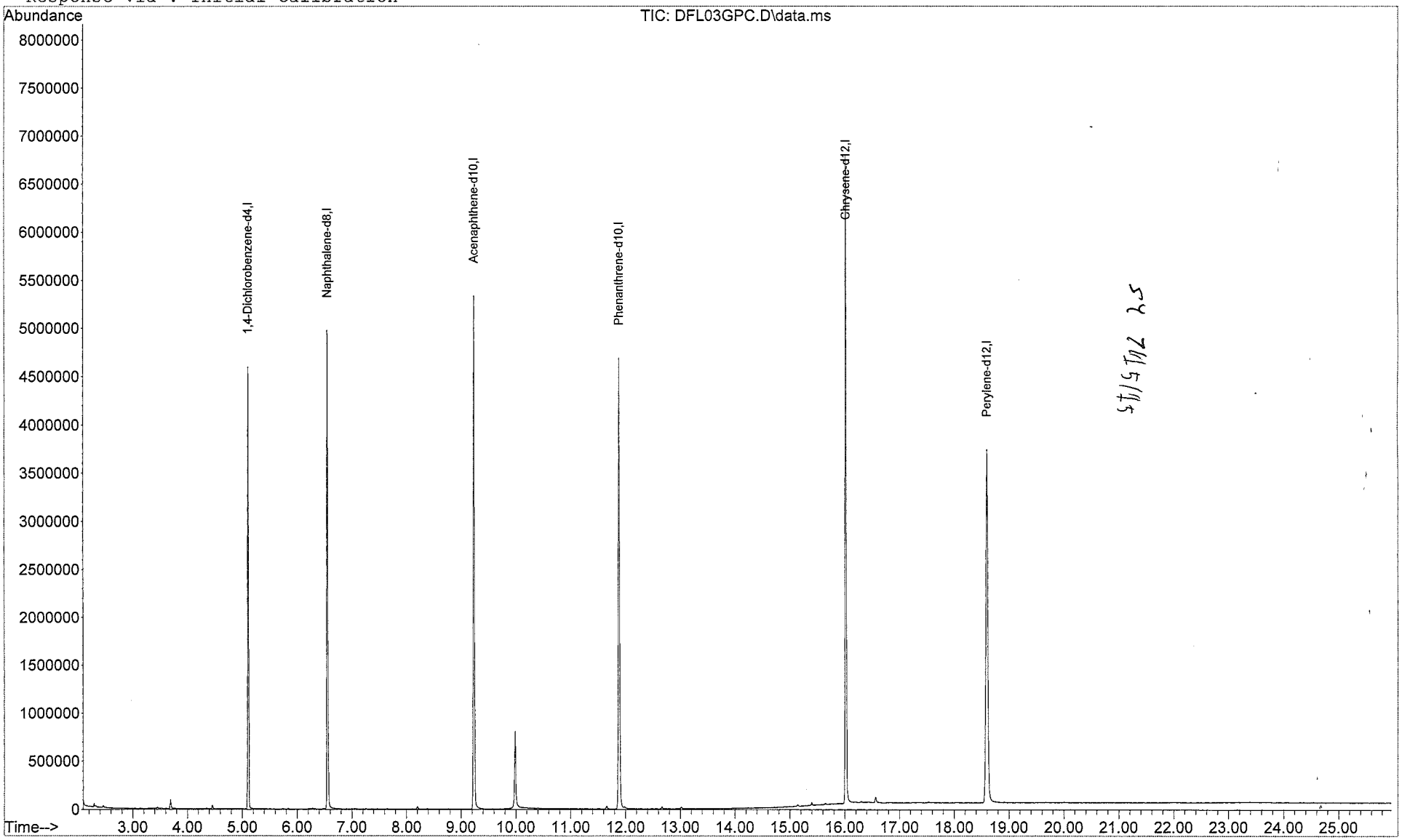


Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\27MAY15\DFL03GPC.D Vial: 3
Acq On : 05/27/2015 09:59 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 05 12:58:18 2015 Results File: DSOM01D5.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)\27MAY15\DFL03GPC.D Vial: 3
Acq On : 05/27/2015 09:59 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 12:58:18 2015 Results File: DSOM01D5.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	5.11	152	868882	20.00 ug/ml
16) Naphthalene-d8	6.55	136	2968874	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1831118	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3026154	20.00 ug/ml
73) Chrysene-d12	16.02	240	3548082	20.00 ug/ml
81) Perylene-d12	18.59	264	3442084	20.00 ug/ml

System Monitoring Compounds				
2) Phenol-d5	0.00	99	0	0.000ug/ml
6) bis-(2-chloroethyl)ether-d	0.00	67	0	0.000ug/mL
7) 2-Chlorophenol-d4	0.00	132	0	0.000ug/ml
13) 4-Methylphenol-d8	0.00	113	0	0.000ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	0.00	143	0	0.000ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	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	0.00	176	0	0.000ug/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)\27MAY15\DFL03GPC.D Vial: 3
Acq On : 05/27/2015 09:59 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 05 12:58:18 2015 Results File: DSOM01D5.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.: F9KW7

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9K71	89	83	0
02	F9K72	81	67	0
03	F9K73	80	60	0
04	F9K77	82	74	0
05	F9K78	78	69	0
06	F9KR0	77	66	0
07	F9KW7	81	73	0
08	F9KW8	68	68	0
09	F9KW9	74	76	0
10	F9KX0	89	82	0
11	F9KX1	96	86	0
12	F9KX4	78	63	0
13	F9KX5	85	76	0
14	F9KY4	87	78	0
15	F9KY5	81	70	0
16	F9KY6	87	75	0
17	F9KY7	94	86	0
18	F9L28	82	72	0
19	F9L29	97	82	0
20	F9L30	93	87	0
21	SBLK23	76	69	0
22				
23				
24				
25				
26				
27				
28				
29				
30				

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4D - FORM IV SV-SIM -
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFT02BLK Lab Sample ID: 447823

Instrument ID: 5975-D Date Extracted: 05/21/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/04/2015

Time Analyzed: 13:31 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9K71	1514052001	DFT24F01	06/05/2015
02	F9K72	1514052002	DFT09F02	06/04/2015
03	F9K73	1514052003	DFT10F03	06/04/2015
04	F9K77	1514052004	DFF07F04	07/09/2015
05	F9K78	1514052005	DFT11F05	06/04/2015
06	F9KR0	1514071001	DFT12F01	06/04/2015
07	F9KW7	1513978001	DFF08F01	07/09/2015
08	F9KW8	1513978002	DFT04F02	06/04/2015
09	F9KW9	1513978003	DFT05F03	06/04/2015
10	F9KX0	1513978004	DFF09F04	07/09/2015
11	F9KX1	1513978005	DFF10F05	07/09/2015
12	F9KX4	1514071002	DFT13F02	06/04/2015
13	F9KX5	1513978006	DFT06F06	06/04/2015
14	F9KY4	1513978007	DFF11F07	07/09/2015
15	F9KY5	1513978008	DFT07F08	06/04/2015
16	F9KY6	1513978009	DFF12F09	07/09/2015
17	F9KY7	1513978010	DFF13F10	07/09/2015
18	F9L28	1513978011	DFF14F11	07/09/2015
19	F9L29	1513978012	DFT08F12	06/04/2015
20	F9L30	1513978013	DFF15F13	07/09/2015
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

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

EPA SAMPLE NO.: SSTD0.1DG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

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.: SSTD0.4DT

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFT01SP4 DFTPP Injection Date: 06/04/2015

Instrument ID: 5975-D DFTPP Injection Time: 13:01

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	SSTD0.4DT	SSTD0.4DT	DFT01SP4	06/04/2015	13:01
02	SBLK23	447823	DFT02BLK	06/04/2015	13:31
03	F9KW8	1513978002	DFT04F02	06/04/2015	14:32
04	F9KW9	1513978003	DFT05F03	06/04/2015	15:02
05	F9KX5	1513978006	DFT06F06	06/04/2015	15:32
06	F9KY5	1513978008	DFT07F08	06/04/2015	16:03
07	F9L29	1513978012	DFT08F12	06/04/2015	16:33
08	F9K72	1514052002	DFT09F02	06/04/2015	17:03
09	F9K73	1514052003	DFT10F03	06/04/2015	17:33
10	F9K78	1514052005	DFT11F05	06/04/2015	18:03
11	F9KR0	1514071001	DFT12F01	06/04/2015	18:33
12	F9KX4	1514071002	DFT13F02	06/04/2015	19:03
13	SSTD0.4T1	SSTD0.4T1	DFT14SP4	06/04/2015	19:32
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO.

SSTD0.4T1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFT14SP4 DFTPP Injection Date: 06/04/2015

Instrument ID: 5975-D DFTPP Injection Time: 19:32

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	SSTD0.4T1	SSTD0.4T1	DFT14SP4	06/04/2015	19:32
02	F9K71	1514052001	DFT24F01	06/05/2015	00:28
03	SSTD0.4T2	SSTD0.4T2	DFT26SP4	06/05/2015	01:28
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.: SSTD0.4DF

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Lab File ID: DFF01SP4 DFTPP Injection Date: 07/09/2015

Instrument ID: 5975-D DFTPP Injection Time: 11:22

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	SSTD0.4DF	SSTD0.4DF	DFF01SP4	07/09/2015	11:22
02	F9K77	1514052004	DFF07F04	07/09/2015	15:16
03	F9KW7	1513978001	DFF08F01	07/09/2015	15:46
04	F9KX0	1513978004	DFF09F04	07/09/2015	16:16
05	F9KX1	1513978005	DFF10F05	07/09/2015	16:46
06	F9KY4	1513978007	DFF11F07	07/09/2015	17:17
07	F9KY6	1513978009	DFF12F09	07/09/2015	17:47
08	F9KY7	1513978010	DFF13F10	07/09/2015	18:17
09	F9L28	1513978011	DFF14F11	07/09/2015	18:47
10	F9L30	1513978013	DFF15F13	07/09/2015	19:17
11	SSTD0.4F1	SSTD0.4F1	DFF16SP4	07/09/2015	19:47
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DT Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT01SP4 Time Analyzed: 13:01

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			295191	6.07	188989	8.73
	UPPER LIMIT			590382	6.57	377978	9.23
	LOWER LIMIT			147596	5.57	94495	8.23
	EPA SAMPLE NO.						
01	SBLK23			305275	6.07	217806	8.72
02	F9KW8			272156	6.06	196633	8.72
03	F9KW9			280982	6.06	204668	8.72
04	F9KX5			272509	6.07	195273	8.72
05	F9KY5			258373	6.07	182792	8.73
06	F9L29			236127	6.07	169441	8.73
07	F9K72			274396	6.07	194524	8.73
08	F9K73			241539	6.07	170938	8.72
09	F9K78			265978	6.06	187539	8.72
10	F9KR0			268186	6.07	187558	8.72
11	F9KX4			251813	6.07	178019	8.73
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

EPA Sample No.(SSTD0.4##): SSTD0.4DT Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT01SP4 Time Analyzed: 13:01

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	340399	11.36	379287	15.52	368604	18.02
	UPPER LIMIT	680798	11.86	758574	16.02	737208	18.52
	LOWER LIMIT	170200	10.86	189644	15.02	184302	17.52
	EPA SAMPLE NO.						
01	SBLK23	393207	11.36	400860	15.51	421165	18.01
02	F9KW8	347594	11.36	358065	15.51	386722	18.01
03	F9KW9	368788	11.36	374088	15.51	407092	18.01
04	F9KX5	325691	11.36	347824	15.51	373432	18.01
05	F9KY5	312057	11.36	330591	15.51	367164	18.01
06	F9L29	285126	11.36	301168	15.51	328021	18.01
07	F9K72	348481	11.36	354502	15.52	379561	18.01
08	F9K73	298364	11.36	310929	15.51	340346	18.01
09	F9K78	329459	11.36	338562	15.51	362225	18.01
10	F9KR0	333313	11.36	336698	15.51	373888	18.01
11	F9KX4	313250	11.36	324697	15.51	355462	18.01
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.

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.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4T1 Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT14SP4 Time Analyzed: 19:32

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			252575	6.07	160689	8.72
	UPPER LIMIT			505150	6.57	321378	9.22
	LOWER LIMIT			126288	5.57	80345	8.22
	EPA SAMPLE NO.						
01	F9K71			234526	6.07	150801	8.72
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.

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.: F9KW7

EPA Sample No.(SSTD0.4##): SSTD0.4T1 Date Analyzed: 06/04/2015

Lab File ID (Standard): DFT14SP4 Time Analyzed: 19:32

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	290853	11.36	326996	15.51	342999	18.01
	UPPER LIMIT	581706	11.86	653992	16.01	685998	18.51
	LOWER LIMIT	145427	10.86	163498	15.01	171500	17.51
	EPA SAMPLE NO.						
01	F9K71	268535	11.36	301489	15.51	303016	18.00
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.

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.: F9KW7

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DF Date Analyzed: 07/09/2015

Lab File ID (Standard): DFF01SP4 Time Analyzed: 11:22

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			157875	5.90	100375	8.54
	UPPER LIMIT			315750	6.40	200750	9.04
	LOWER LIMIT			78938	5.40	50188	8.04
	EPA SAMPLE NO.						
01	F9K77			161349	5.90	109813	8.54
02	F9KW7			166846	5.90	119092	8.54
03	F9KX0			168328	5.90	122109	8.54
04	F9KX1			162144	5.90	117935	8.54
05	F9KY4			162211	5.90	115835	8.54
06	F9KY6			177298	5.90	125994	8.54
07	F9KY7			168275	5.90	121662	8.54
08	F9L28			178358	5.90	126879	8.54
09	F9L30			162309	5.90	107893	8.54
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

EPA Sample No.(SSTD0.4##): SSTD0.4DF Date Analyzed: 07/09/2015

Lab File ID (Standard): DFF01SP4 Time Analyzed: 11:22

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	181022	11.17	207422	15.36	198196	17.73
	UPPER LIMIT	362044	11.67	414844	15.86	396392	18.23
	LOWER LIMIT	90511	10.67	103711	14.86	99098	17.23
	EPA SAMPLE NO.						
01	F9K77	188205	11.17	219959	15.35	233076	17.73
02	F9KW7	197711	11.17	219014	15.35	241030	17.73
03	F9KX0	198021	11.17	223971	15.36	240519	17.73
04	F9KX1	192199	11.17	215524	15.35	230567	17.73
05	F9KY4	187732	11.17	207094	15.35	224084	17.73
06	F9KY6	206701	11.17	228214	15.36	248200	17.74
07	F9KY7	196009	11.17	222654	15.36	239830	17.74
08	F9L28	206742	11.17	235908	15.36	257880	17.74
09	F9L30	188953	11.17	222030	15.36	230339	17.74
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.

1F - FORM I SV-SIM -

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9K71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT24F01

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/05/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 10.0

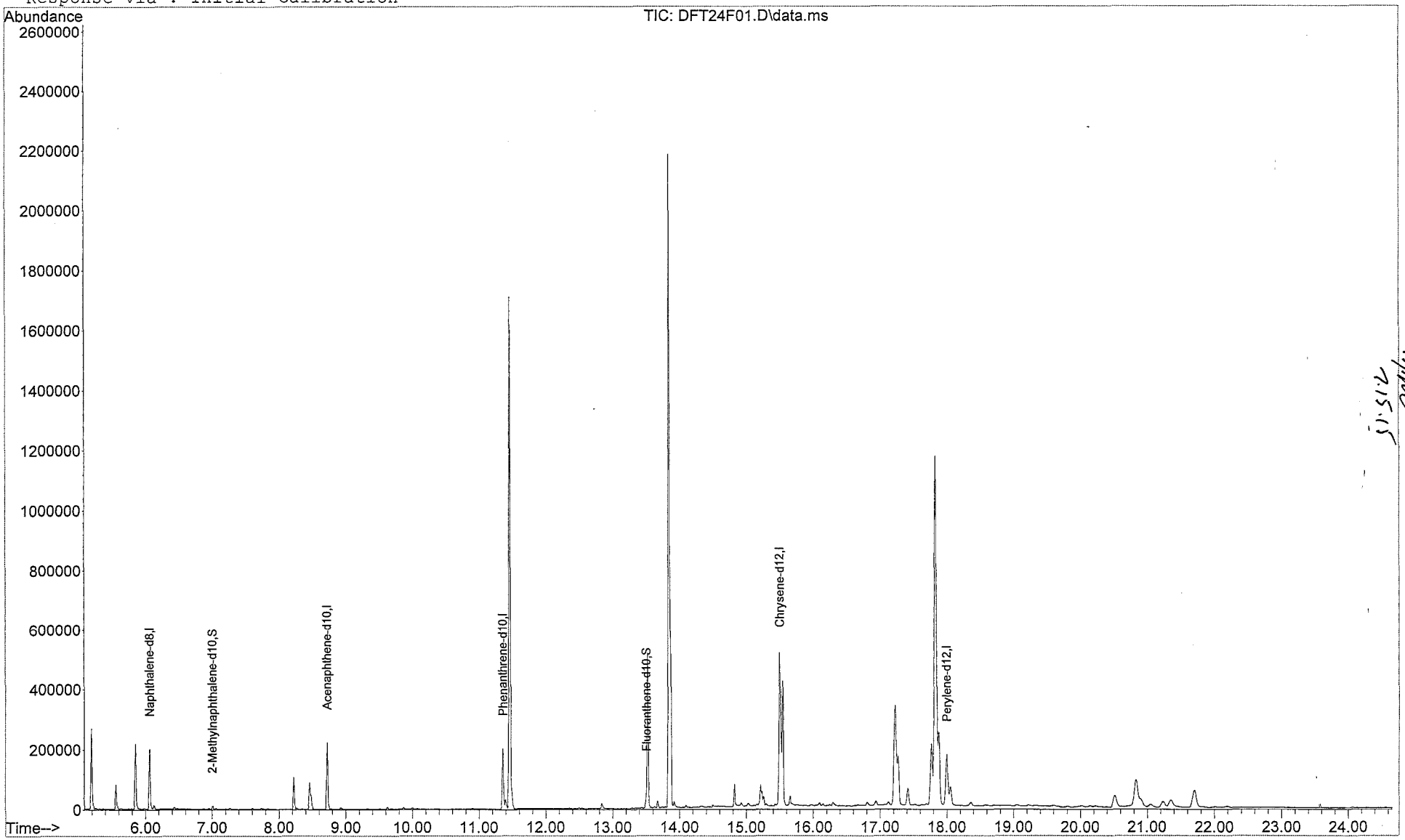
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	37.	U
91-57-6	2-Methylnaphthalene	37.	U
208-96-8	Acenaphthylene	23.	J
83-32-9	Acenaphthene	37.	U
86-73-7	Fluorene	37.	U
87-86-5	Pentachlorophenol	75.	U
85-01-8	Phenanthrene	16.	J
120-12-7	Anthracene	28.	J
206-44-0	Fluoranthene	170	
129-00-0	Pyrene	170	
56-55-3	Benzo(a)anthracene	150	
218-01-9	Chrysene	150	
205-99-2	Benzo(b)fluoranthene	190	
207-08-9	Benzo(k)fluoranthene	63.	
50-32-8	Benzo(a)pyrene	110	
193-39-5	Indeno(1,2,3-cd)pyrene	110	
53-70-3	Dibenzo(a,h)anthracene	24.	J
191-24-2	Benzo(g,h,i)perylene	63.	

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT24F01.D Vial: 22
Acq On : 06/05/2015 00:28 Operator: DJC
Sample : 1514052001 F9K71 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 07:58:13 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:\D\2015\JUN15\04JUN15\04JUN15\DFT24F01.D Vial: 22
Acq On : 06/05/2015 00:28 Operator: DJC
Sample : 1514052001 F9K71 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 07:58:13 2015 Results File: DSOM_SIMJ2.RES

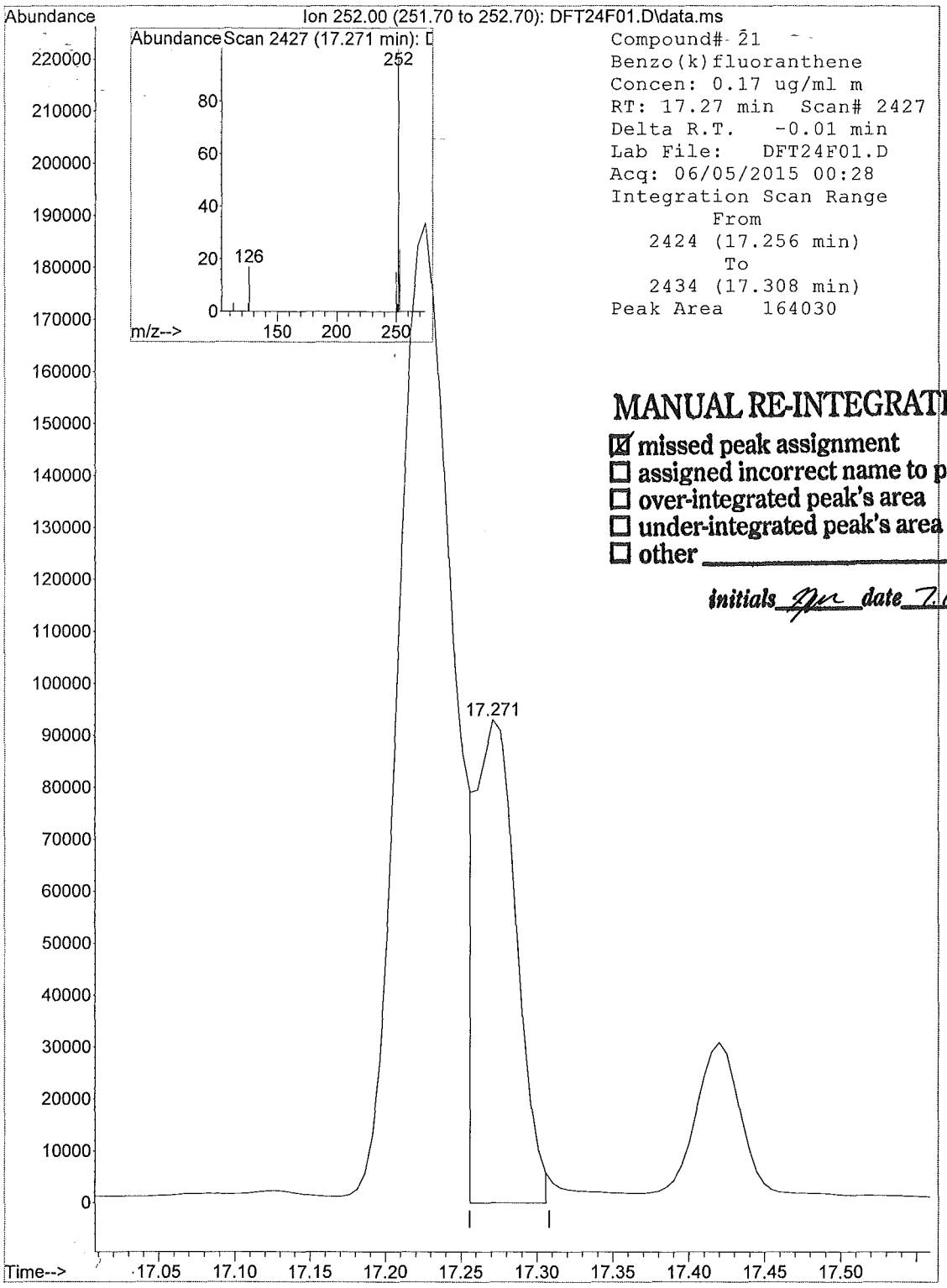
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		
1) Naphthalene-d8	6.07	136	234526	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	150801	0.40 ug/ml		
9) Phenanthrene-d10	11.36	188	268535	0.40 ug/ml		
15) Chrysene-d12	15.51	240	301489	0.40 ug/ml		
19) Perylene-d12	18.00	264	303016	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	12508	0.033ug/mL		
13) Fluoranthene-d10	13.50	212	26211	0.036ug/mL		
Target Compounds					Qvalue	
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	8.49	152	40857	0.062ug/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	11.40	178	32794	0.042ug/ml	98	
12) Anthracene	11.50	178	56296	0.075ug/ml	98	
14) Fluoranthene	13.53	202	408433	0.464ug/ml	88	
16) Pyrene	13.87	202	422914	0.447ug/ml	88	
17) Benzo(a)anthracene	15.50	228	313686	0.390ug/ml	94	
18) Chrysene	15.55	228	347346	0.409ug/ml	96	
20) Benzo(b)fluoranthene	17.23	252	466775	0.494ug/ml	99	
21) Benzo(k)fluoranthene	17.27	252	164030	0.168ug/ml	m 99	7.15.15
22) Benzo(a)pyrene	17.88	252	275599	0.305ug/ml	98	
23) Indeno(1,2,3-c,d)pyrene	20.84	276	235497	0.298ug/ml	100	
24) Dibenzo(a,h)anthracene	20.90	278	56410	0.065ug/ml	99	
25) Benzo(g,h,i)perylene	21.71	276	149243	0.168ug/ml	70	

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

: 08743

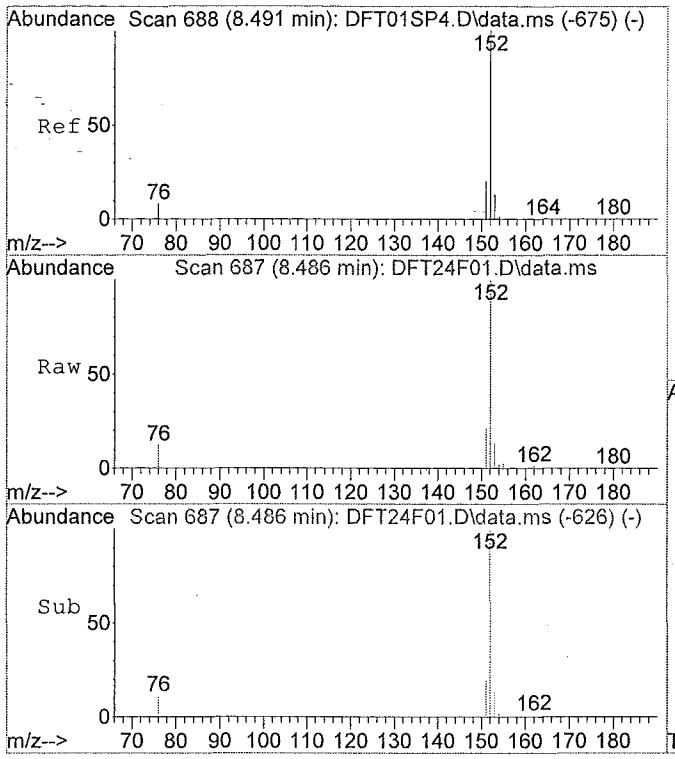
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

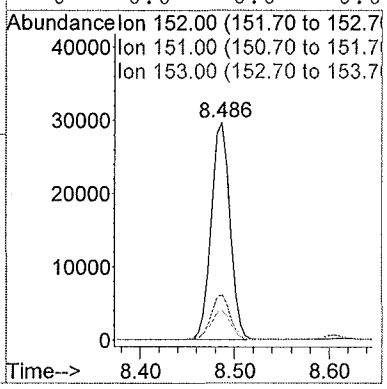
initials Jpc *date* 7.15.15

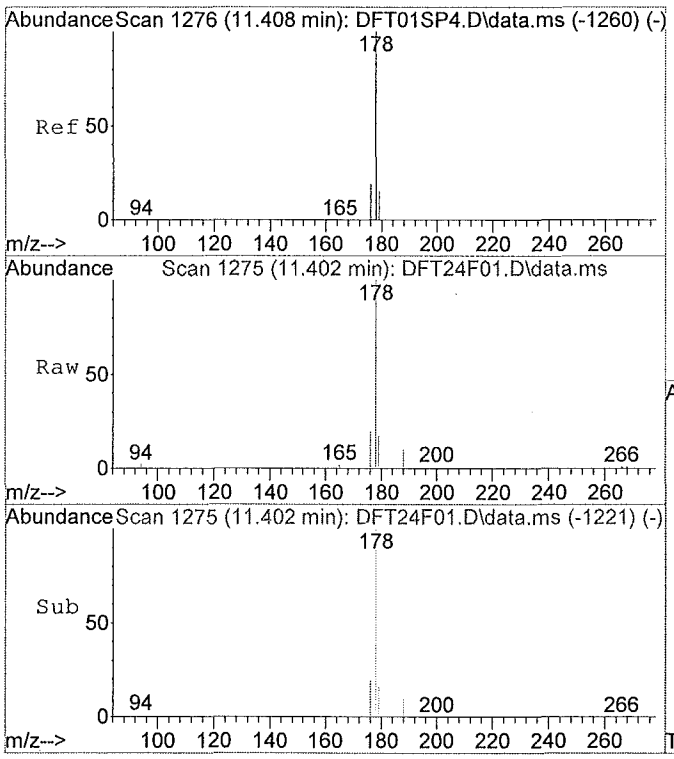


#6
Acenaphthylene
Concen: 0.06 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:152 Resp: 40857

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.5	28.7
153	14.5	8.8	16.4
0	0.0	0.0	0.0

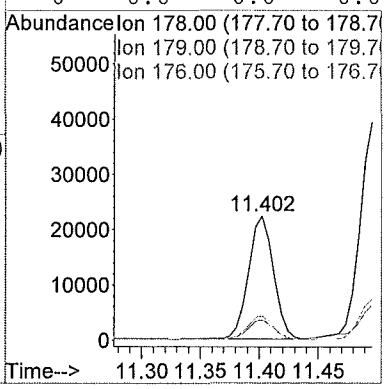


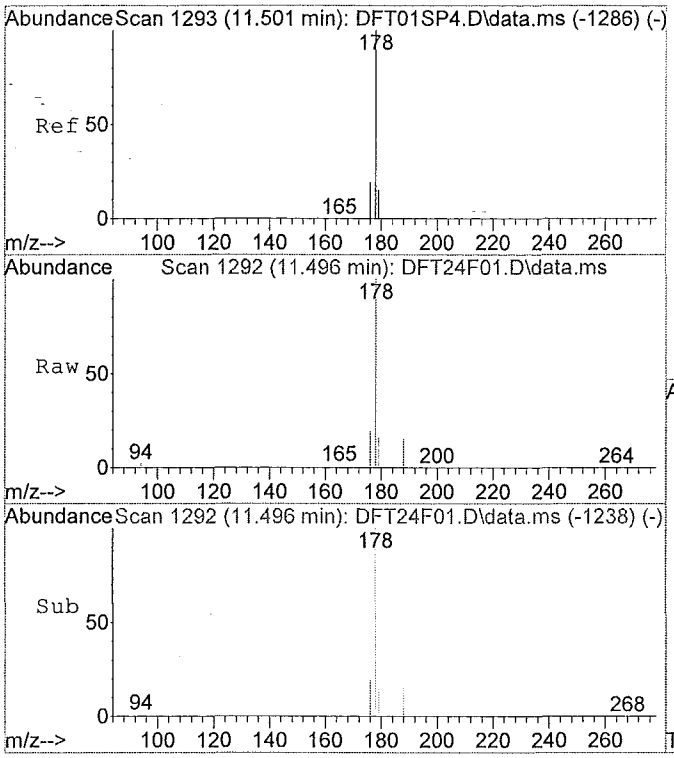


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:178 Resp: 32794

Ion	Ratio	Lower	Upper
178	100		
179	17.0	11.1	20.5
176	19.5	14.1	26.1
0	0.0	0.0	0.0

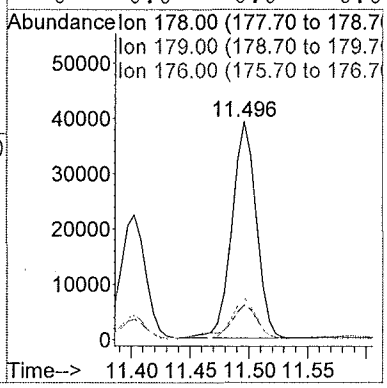


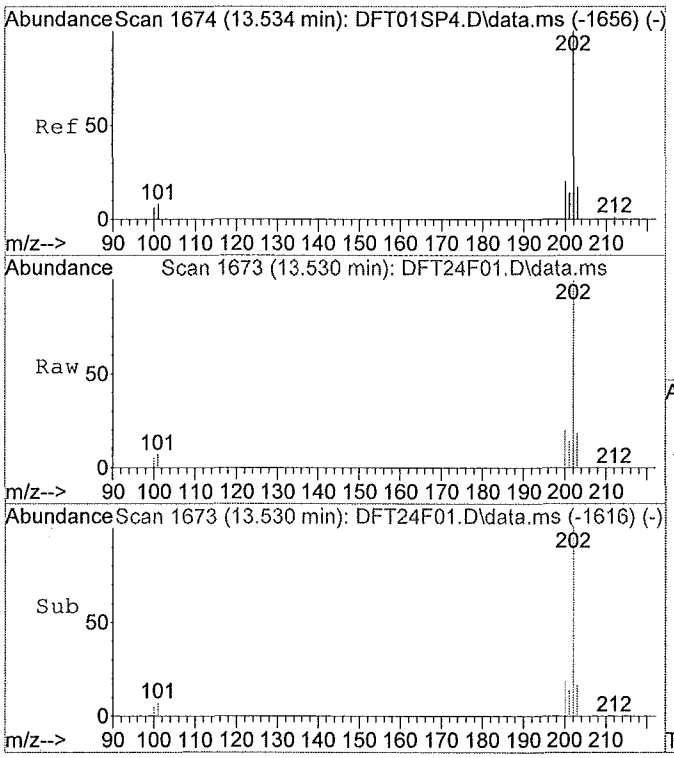


#12
Anthracene
Concen: 0.07 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:178 Resp: 56296

Ion	Ratio	Lower	Upper
178	100		
179	16.8	11.6	21.6
176	18.5	13.9	25.7
0	0.0	0.0	0.0

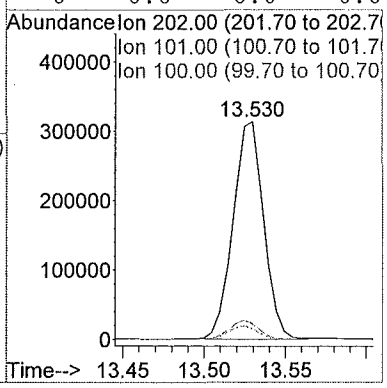


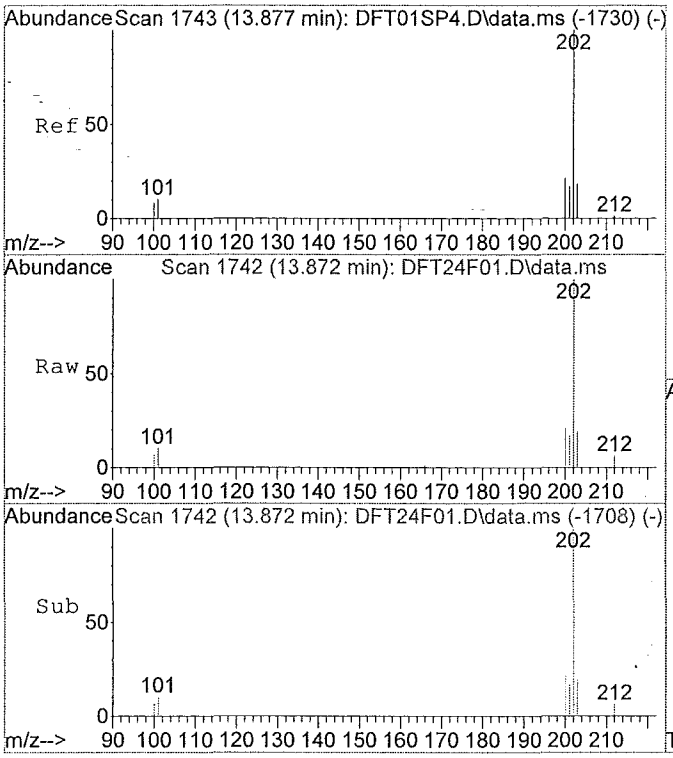


#14
Fluoranthene
Concen: 0.46 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:202 Resp: 408433

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

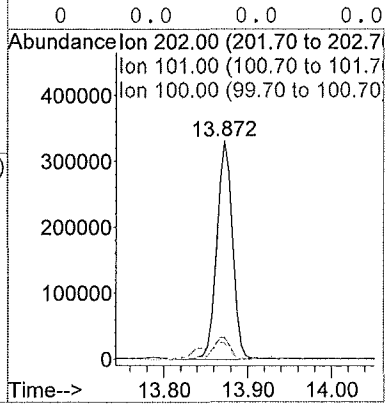


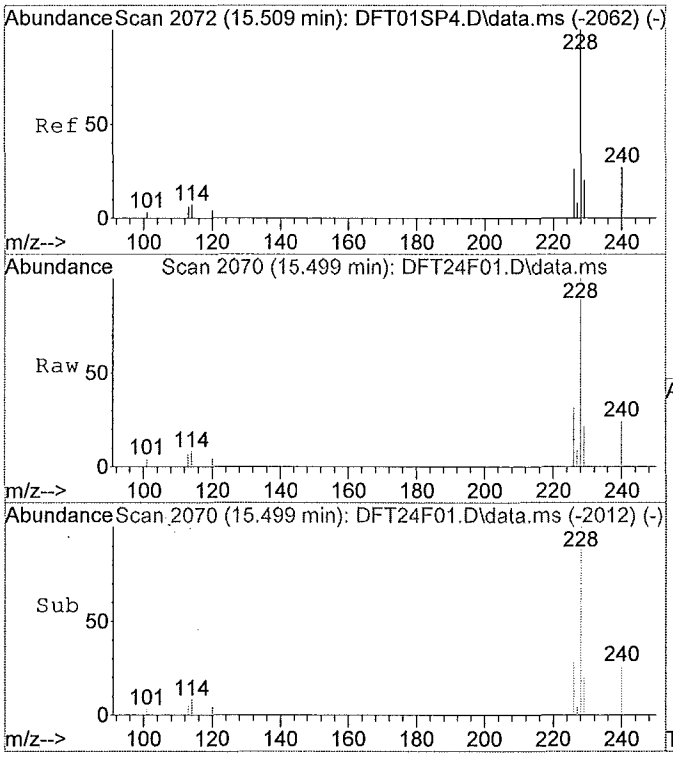


#16
Pyrene
Concen: 0.45 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:202 Resp: 422914

Ion	Ratio	Lower	Upper
202	100		
101	11.2	10.6	19.6
100	7.8	9.4	17.4#
0	0.0	0.0	0.0

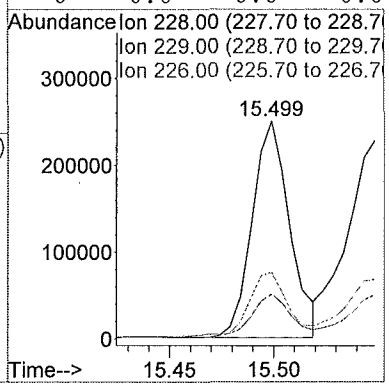


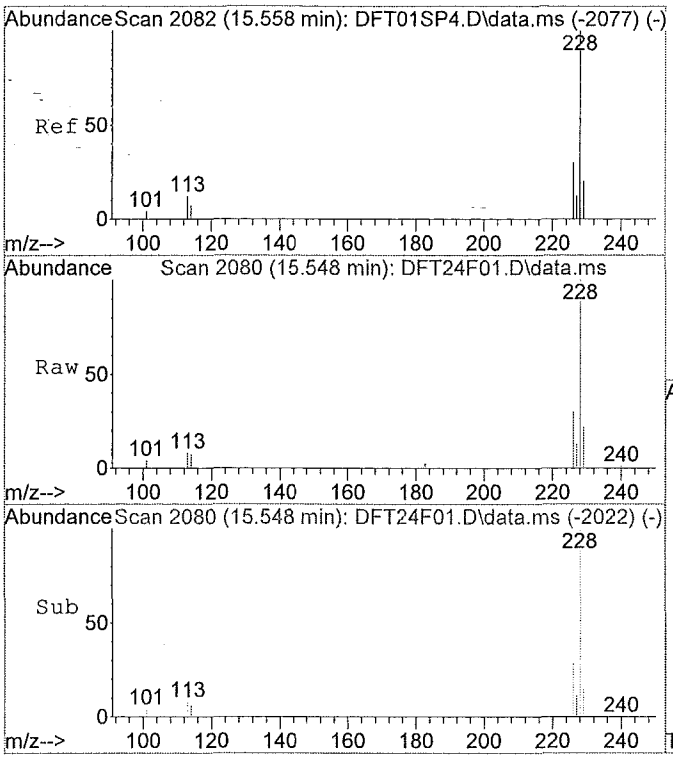


#17
Benzo(a)anthracene
Concen: 0.39 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:228 Resp: 313686

Ion	Ratio	Lower	Upper
228	100		
229	21.3	14.5	26.9
226	31.5	18.5	34.3
0	0.0	0.0	0.0

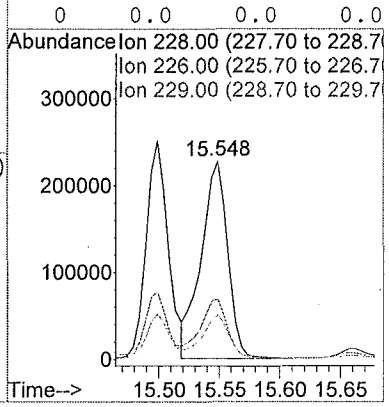


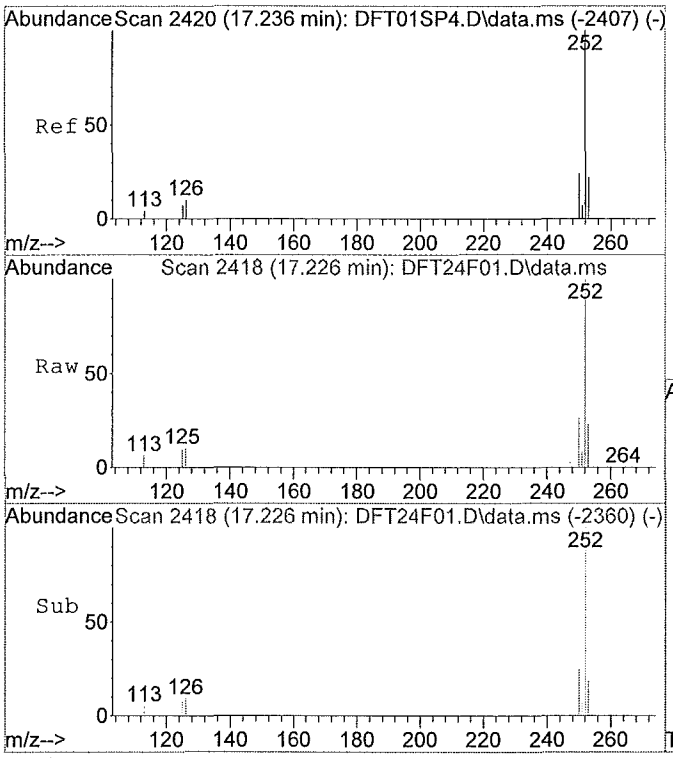


#18
Chrysene
Concen: 0.41 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:228 Resp: 347346

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	22.2	14.5	26.9
0	0.0	0.0	0.0

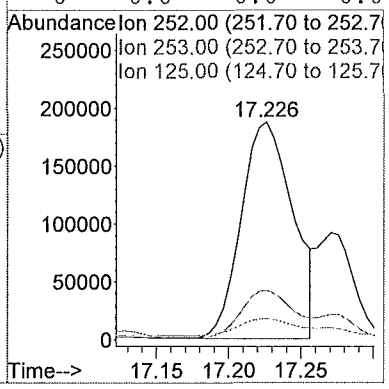


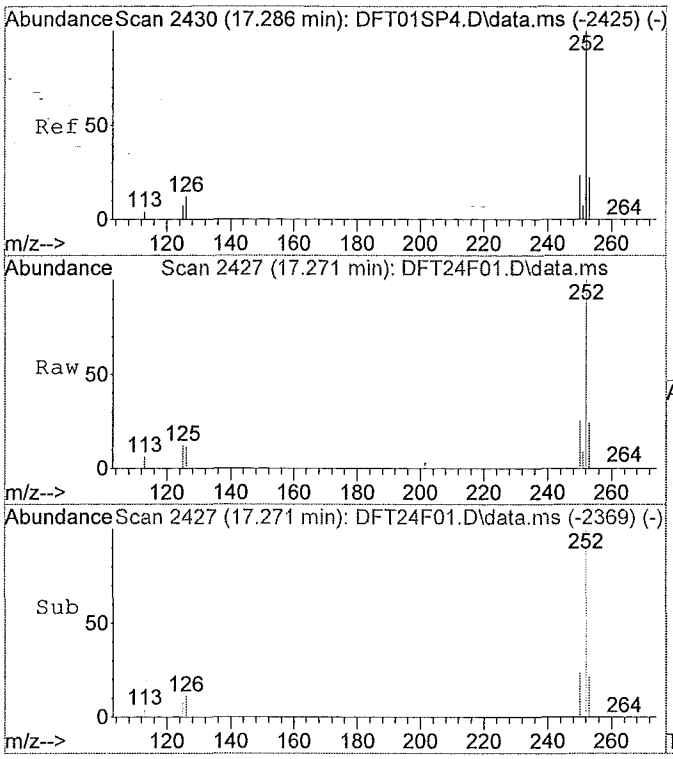


#20
Benzo(b)fluoranthene
Concen: 0.49 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:252 Resp: 466775

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	8.6	0.0	0.0#
0	0.0	0.0	0.0

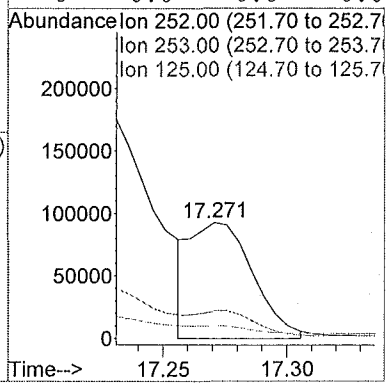


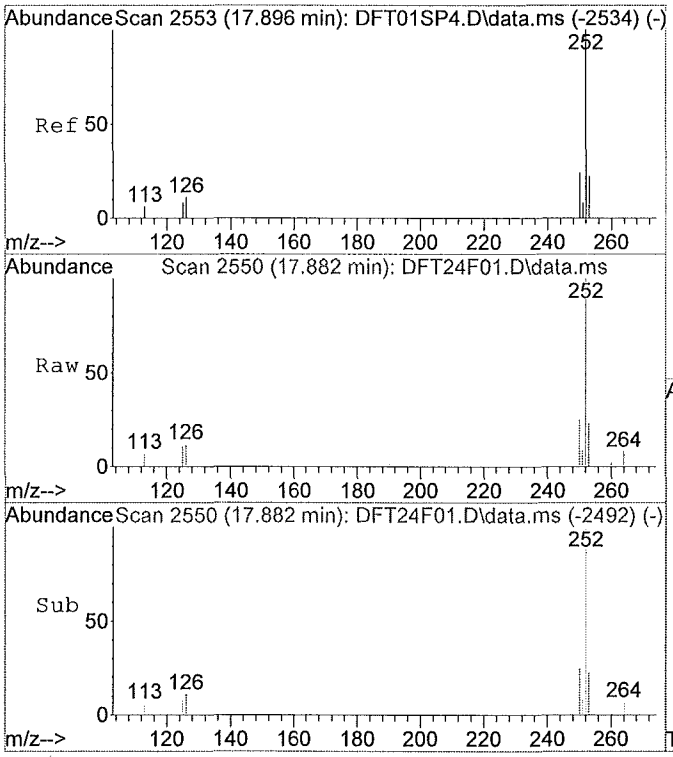


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:252 Resp: 164030

Ion	Ratio	Lower	Upper
252	100		
253	62.7	15.0	27.8#
125	24.6	0.0	0.0#
0	0.0	0.0	0.0

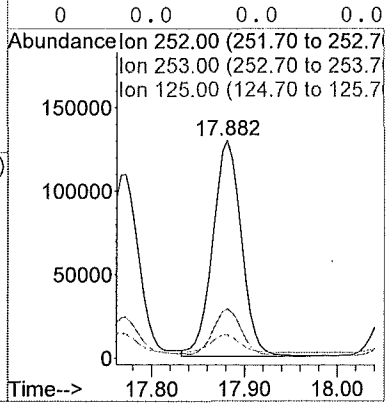


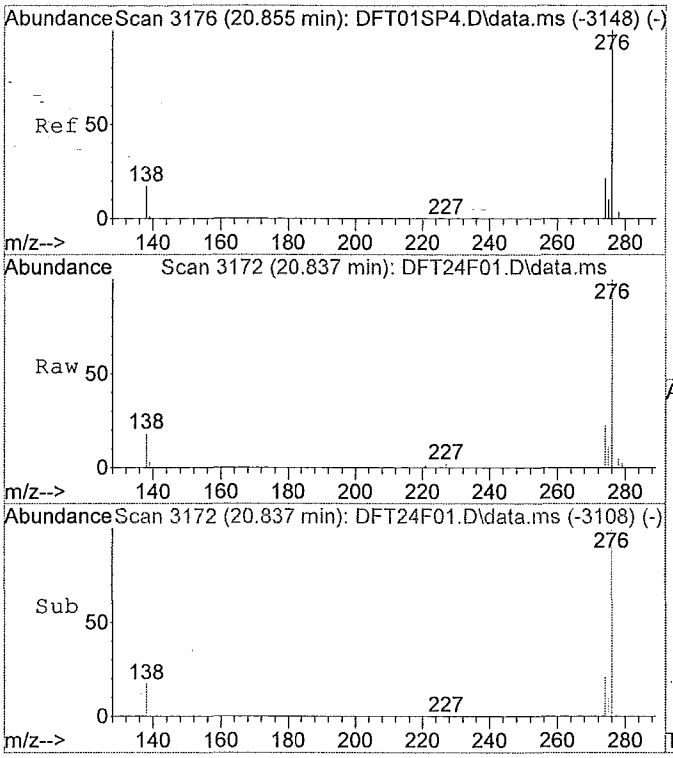


#22
Benzo(a)pyrene
Concen: 0.31 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:252 Resp: 275599

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.0	27.8
125	9.1	0.0	0.0#
0	0.0	0.0	0.0

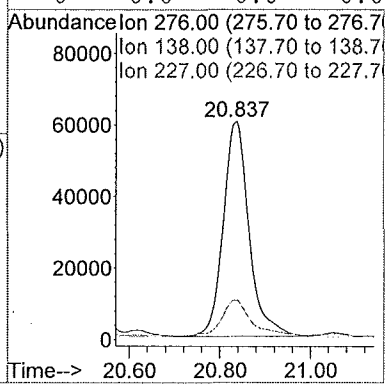


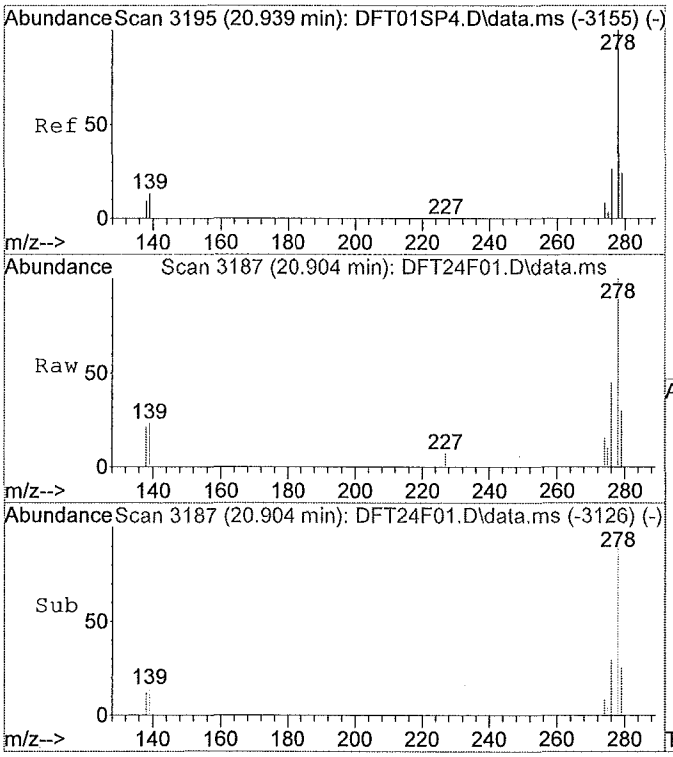


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.30 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:276 Resp: 235497

Ion	Ratio	Lower	Upper
276	100		
138	19.0	0.0	0.0#
227	0.0	0.0	0.0#
0	0.0	0.0	0.0

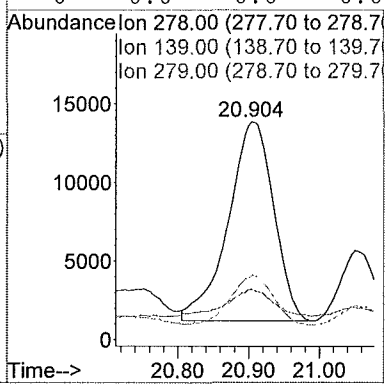


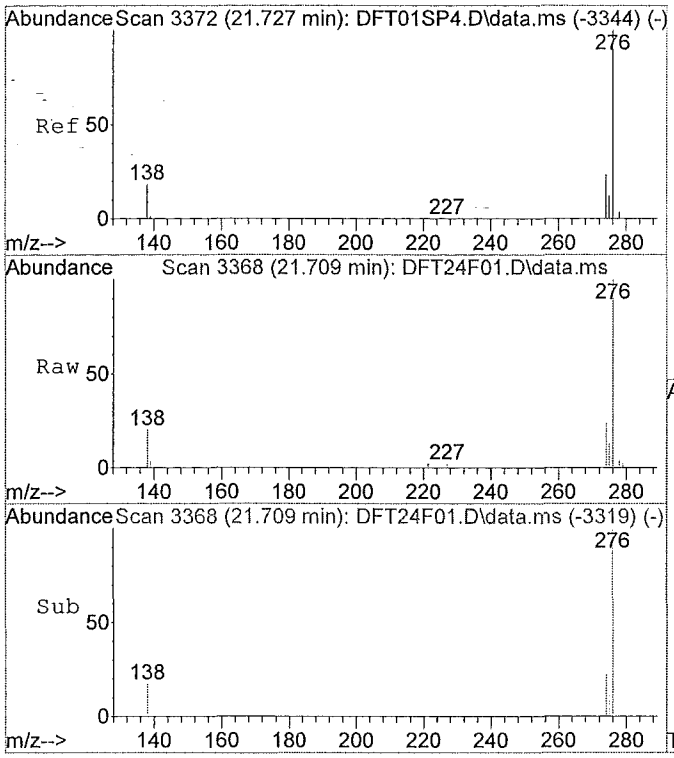


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.90 min Scan# 3187
Delta R.T. -0.03 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:278 Resp: 56410

Ion	Ratio	Lower	Upper
278	100		
139	13.1	0.0	0.0#
279	23.1	15.8	29.3
0	0.0	0.0	0.0

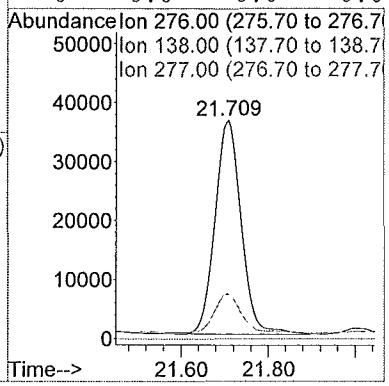




#25
Benzo(g,h,i)perylene
Concen: 0.17 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFT24F01.D
Acq: 06/05/2015 00:28

Tgt Ion:276 Resp: 149243

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.:

F9K72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052002

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFT09F02

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

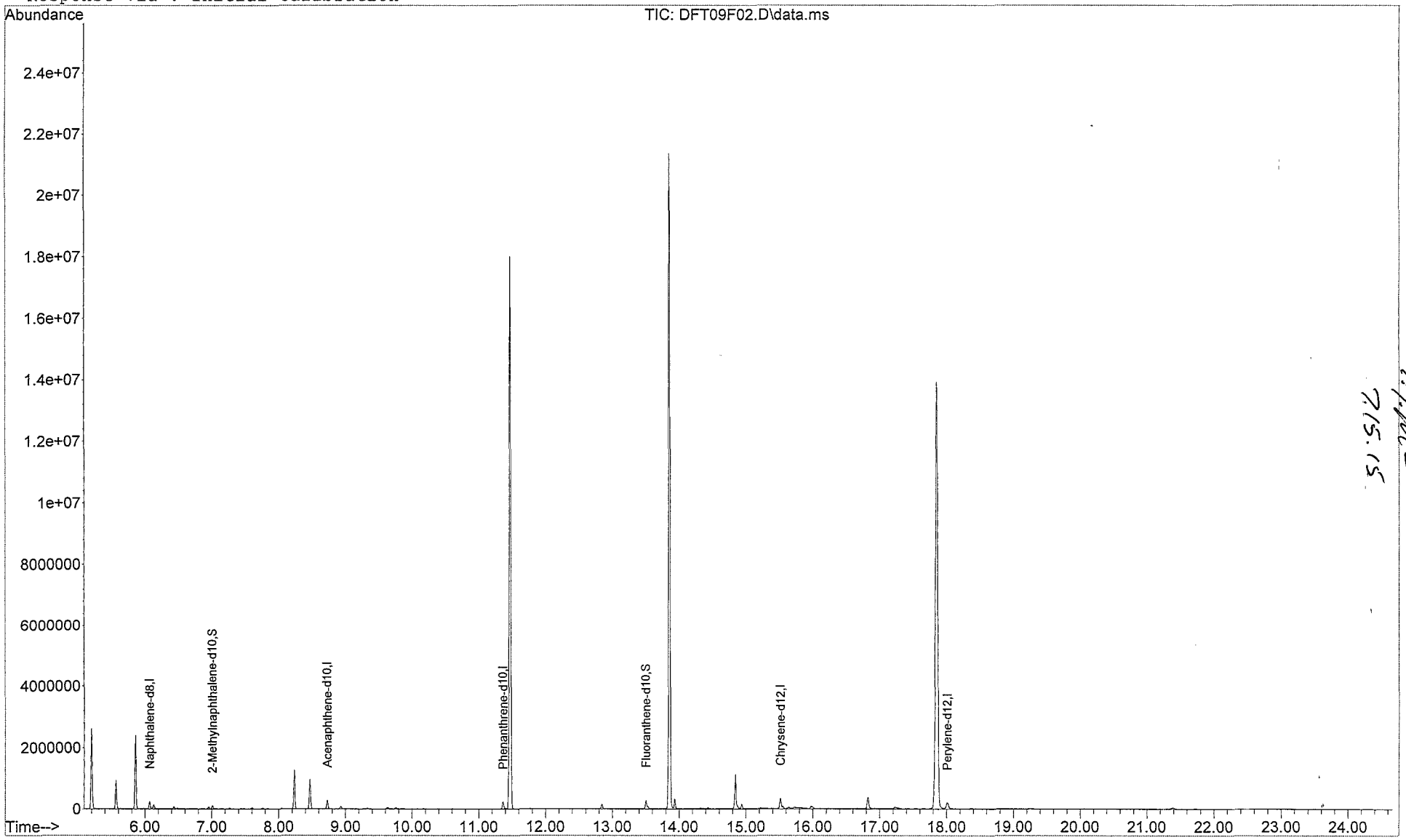
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	2.2	J
129-00-0	Pyrene	3.7	J
56-55-3	Benzo(a)anthracene	2.1	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.4	J
207-08-9	Benzo(k)fluoranthene	0.87	J
50-32-8	Benzo(a)pyrene	1.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.5	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	0.87	J

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT09F02.D Vial: 9
Acq On : 06/04/2015 17:03 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 06:57:02 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



7.15.15

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT09F02.D Vial: 9
Acq On : 06/04/2015 17:03 Operator: DJC
Sample : 1514052002 F9K72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 06:57:02 2015 Results File: DSOM_SIMJ2.RES

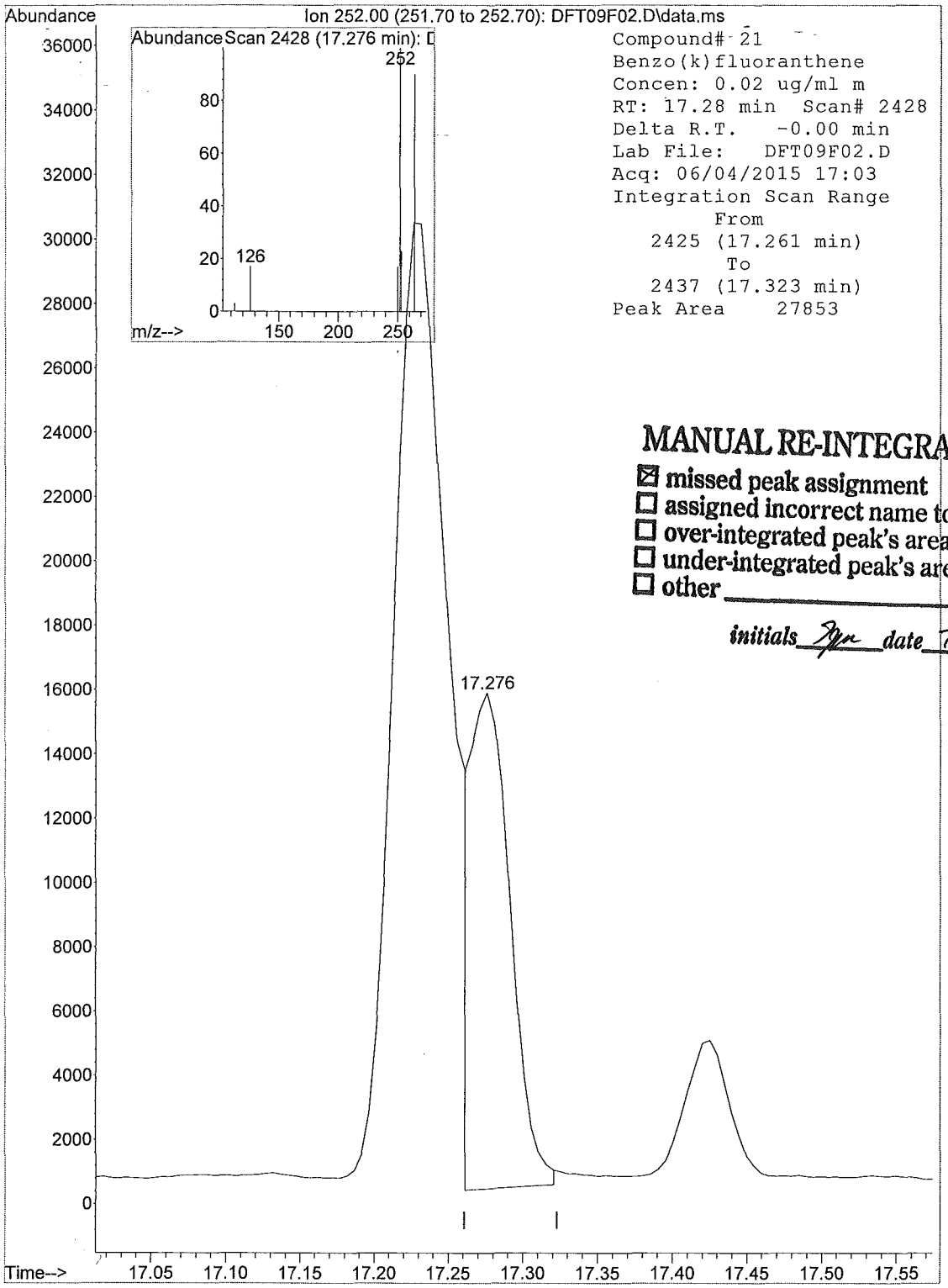
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	274396	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	194524	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	348481	0.40 ug/ml	
15) Chrysene-d12	15.52	240	354502	0.40 ug/ml	
19) Perylene-d12	18.01	264	379561	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	118058	0.267ug/mL	
13) Fluoranthene-d10	13.50	212	307398	0.323ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	65744	0.058ug/ml	91
16) Pyrene	13.88	202	106683	0.096ug/ml	1
17) Benzo(a)anthracene	15.50	228	52347	0.055ug/ml	93
18) Chrysene	15.55	228	56742	0.057ug/ml	95
20) Benzo(b)fluoranthene	17.23	252	75084	0.063ug/ml	99
21) Benzo(k)fluoranthene	17.28	252	27853	0.023ug/ml m	98 7.15.15
22) Benzo(a)pyrene	17.89	252	41994	0.037ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	37816	0.038ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.72	276	25385	0.023ug/ml	64

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

00754

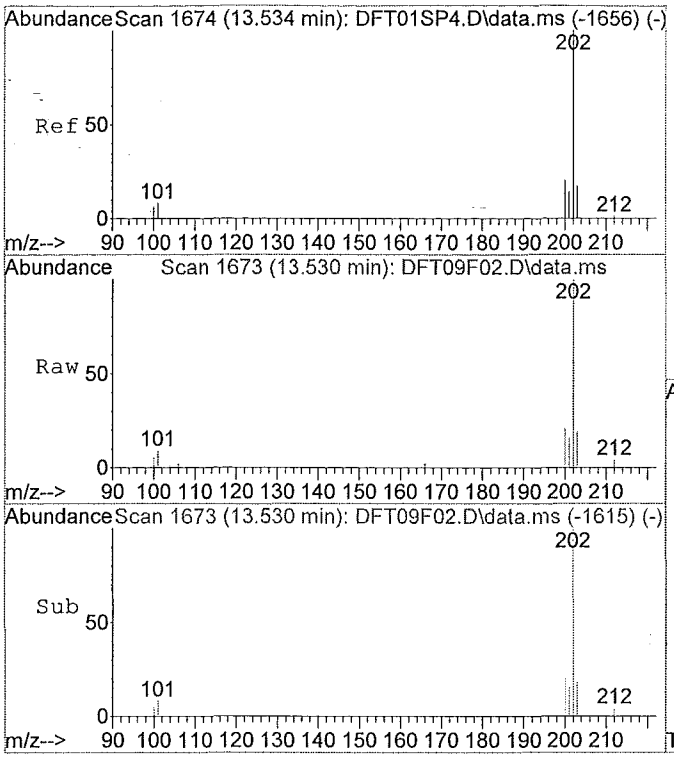
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

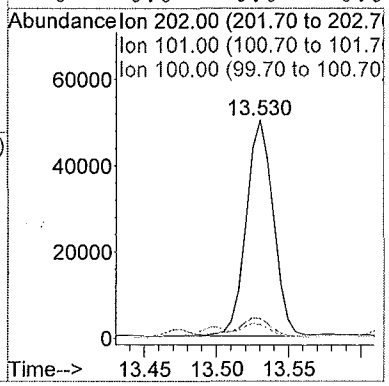
initials Jyn *date* 7.15.15

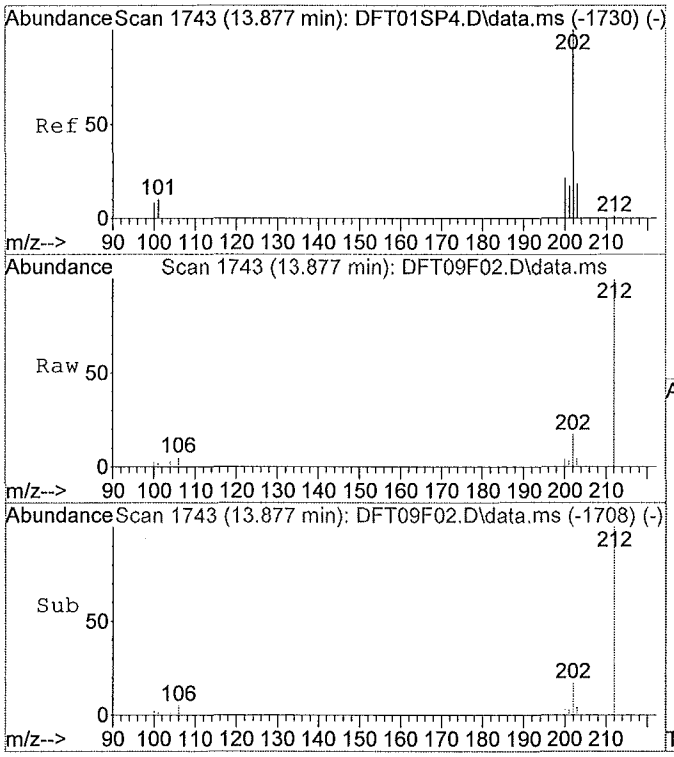


#14
Fluoranthene
Concen: 0.Q6 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:202 Resp: 65744

Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

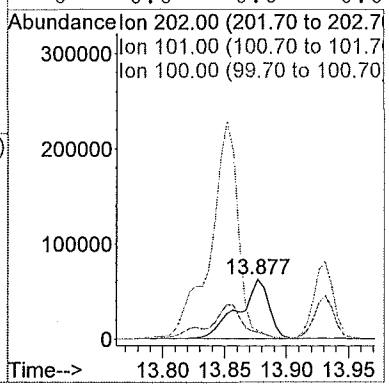


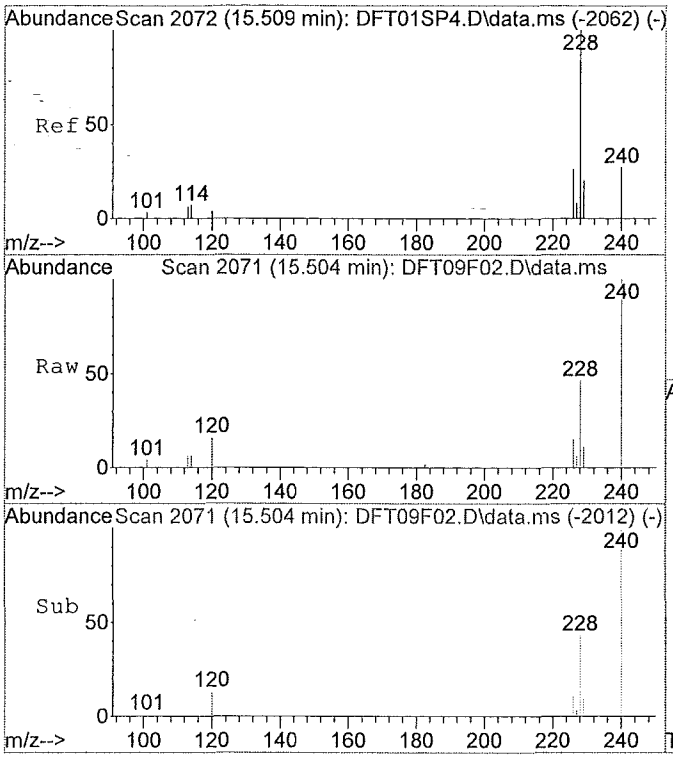


#16
Pyrene
Concen: 0.10 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:202 Resp: 106683

Ion	Ratio	Lower	Upper
202	100		
101	66.7	10.6	19.6#
100	335.3	9.4	17.4#
0	0.0	0.0	0.0

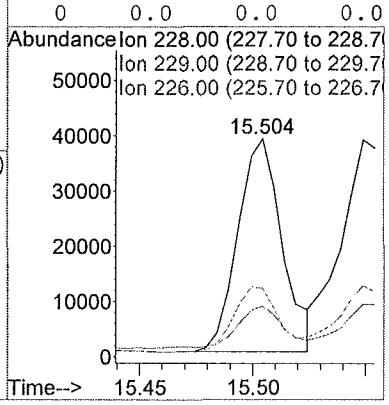


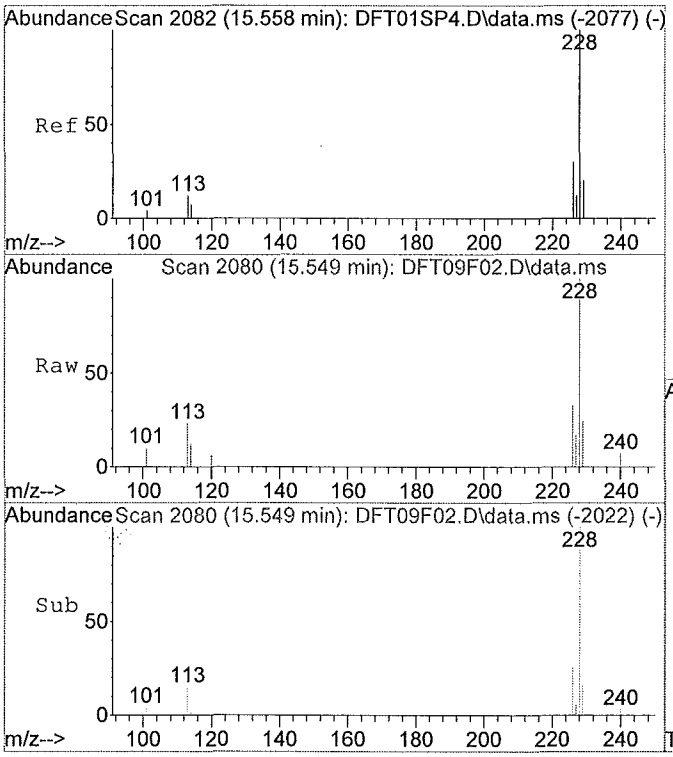


#17
Benzo(a)anthracene
Concen: 0.Q6 ug/ml
RT: 15.50 min Scan# 2071
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:228 Resp: 52347

Ion	Ratio	Lower	Upper
228	100		
229	24.2	14.5	26.9
226	30.0	18.5	34.3
0	0.0	0.0	0.0

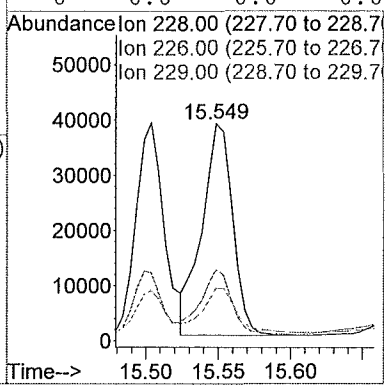


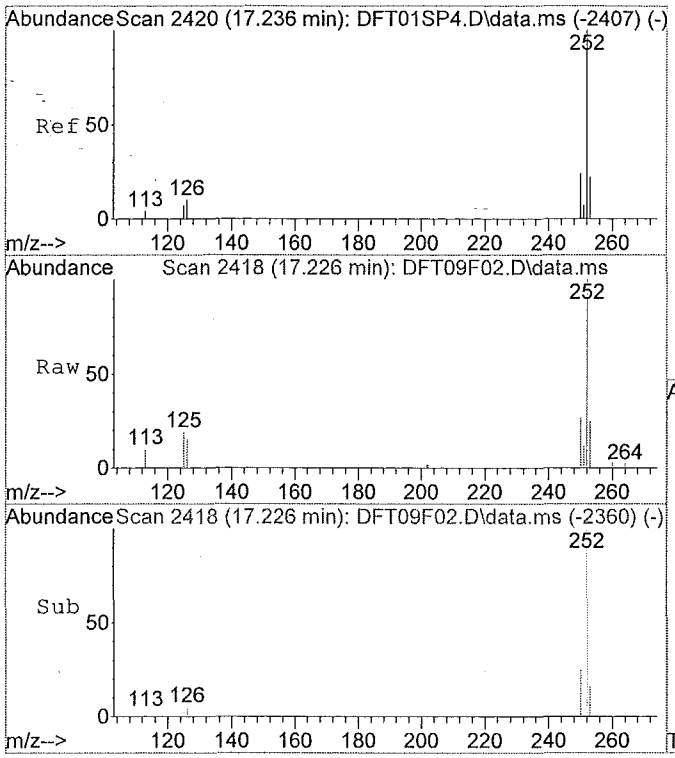


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:228 Resp: 56742

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	22.9	14.5	26.9
0	0.0	0.0	0.0

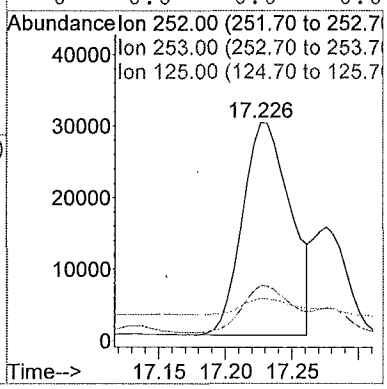


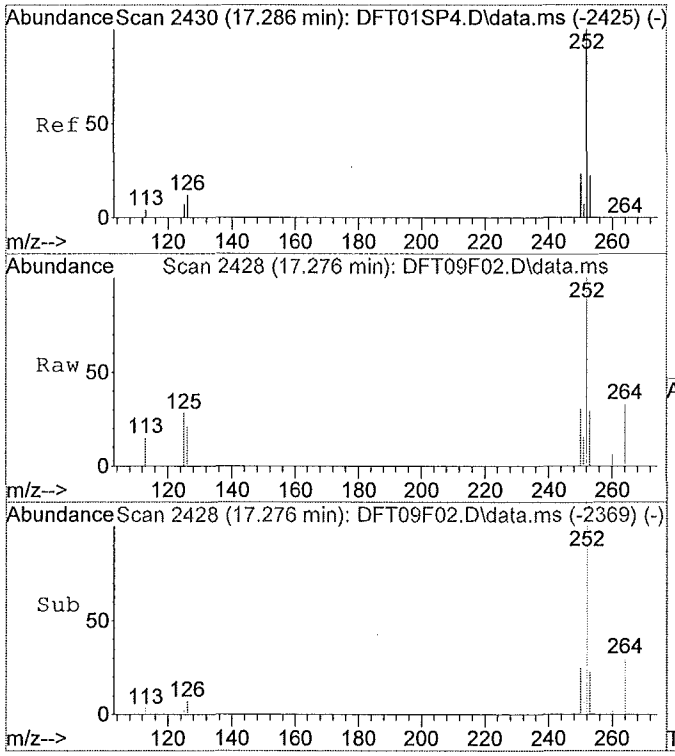


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:252 Resp: 75084

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	14.9	0.0	0.0#
0	0.0	0.0	0.0

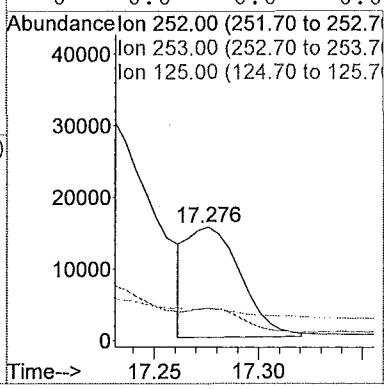


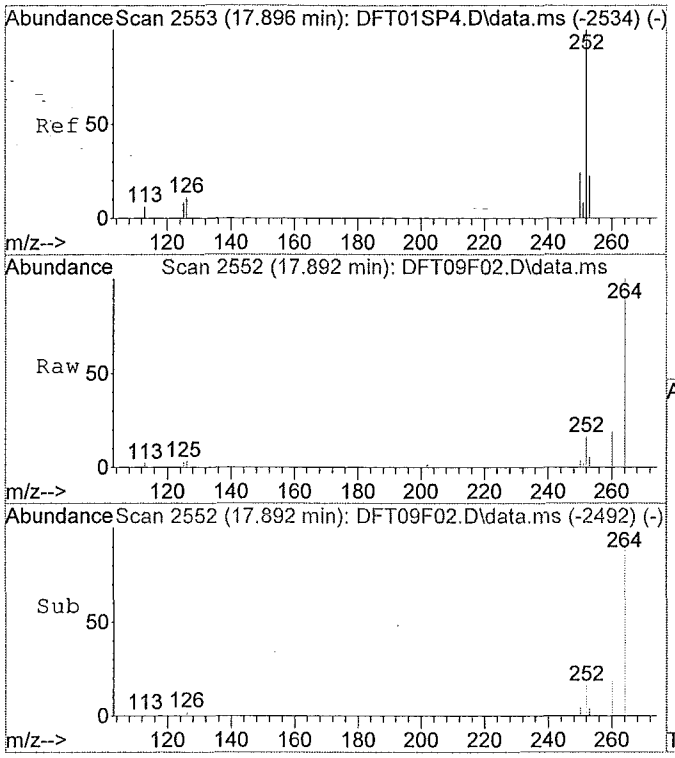


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:252 Resp: 27853

Ion	Ratio	Lower	Upper
252	100		
253	60.4	15.0	27.8#
125	40.0	0.0	0.0#
0	0.0	0.0	0.0

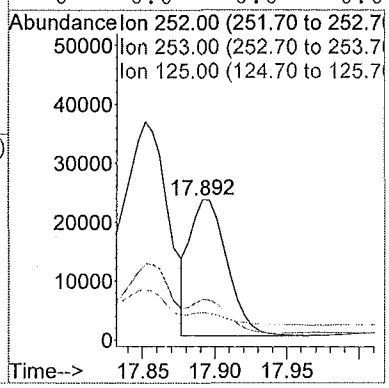


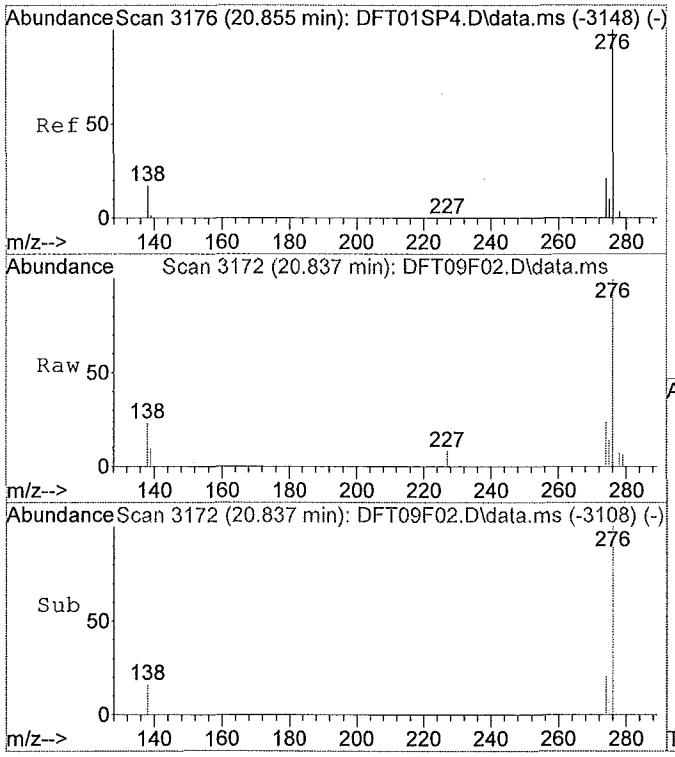


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:252 Resp: 41994

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

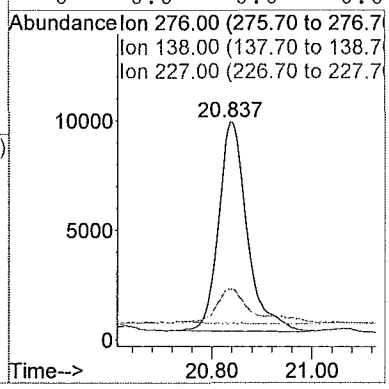


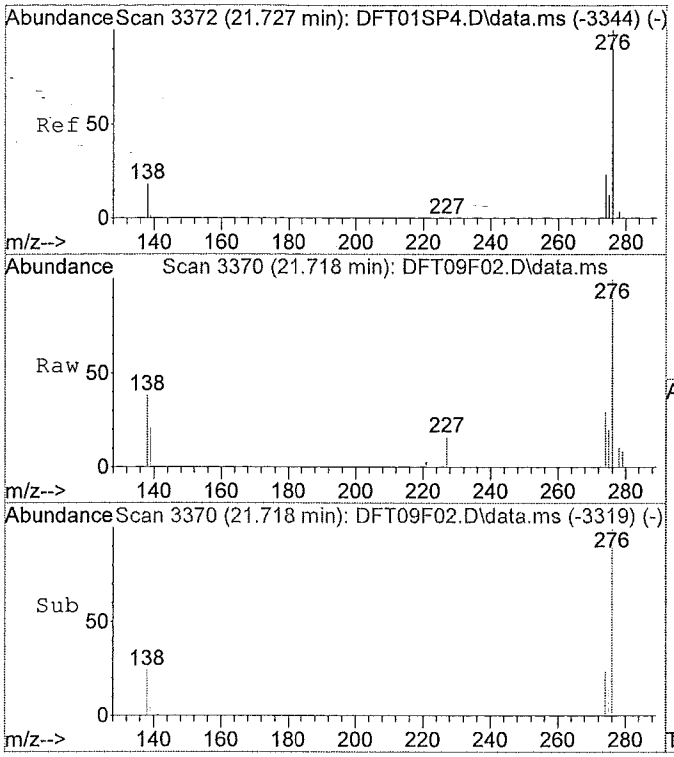


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:276 Resp: 37816

Ion	Ratio	Lower	Upper
276	100		
138	14.2	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

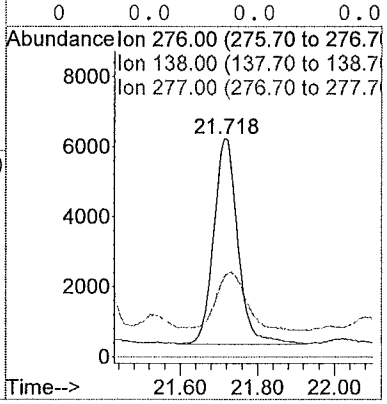




#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.72 min Scan# 3370
Delta R.T. -0.00 min
Lab File: DFT09F02.D
Acq: 06/04/2015 17:03

Tgt Ion:276 Resp: 25385

Ion	Ratio	Lower	Upper
276	100		
138	35.0	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.: F9K73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT10F03

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

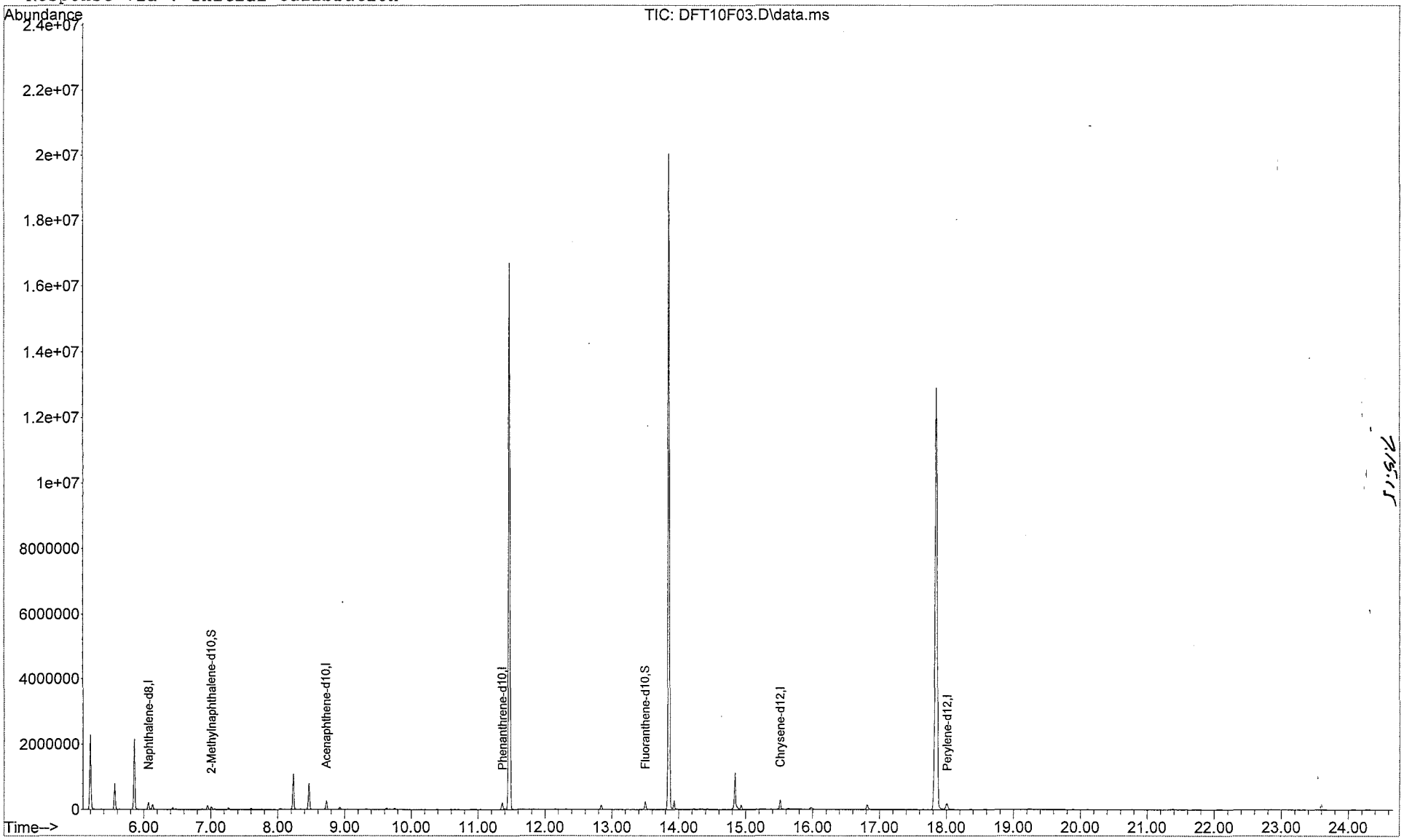
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.0	J
91-57-6	2-Methylnaphthalene	1.0	J
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT10F03.D Vial: 10
Acq On : 06/04/2015 17:33 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 06:58:18 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:\D\2015\JUN15\04JUN15\04JUN15\DFT10F03.D Vial: 10
Acq On : 06/04/2015 17:33 Operator: DJC
Sample : 1514052003 F9K73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 06:58:18 2015 Results File: DSOM_SIMJ2.RES

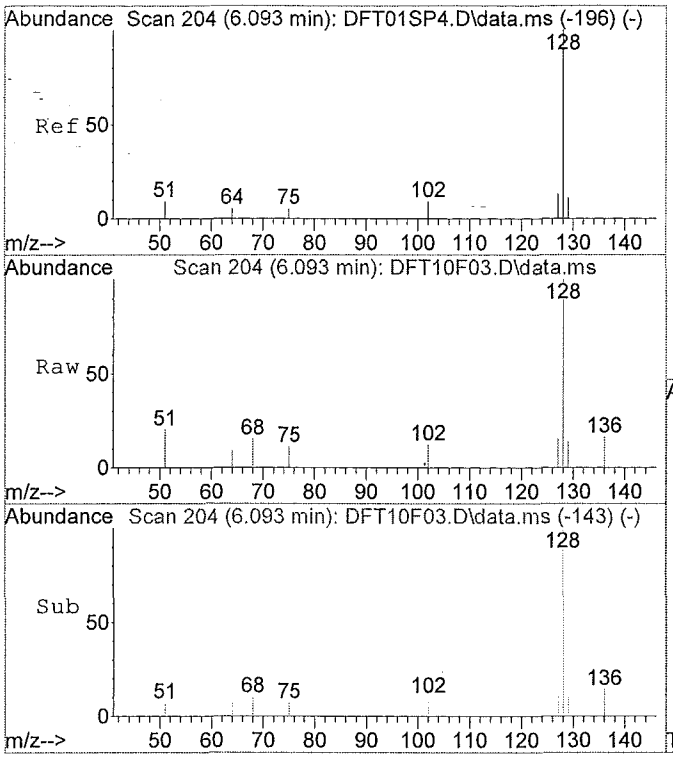
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	241539	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	170938	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	298364	0.40 ug/ml
15) Chrysene-d12	15.51	240	310929	0.40 ug/ml
19) Perylene-d12	18.01	264	340346	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	93594	0.240ug/mL
13) Fluoranthene-d10	13.50	212	262227	0.321ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	16556	0.026ug/ml	93
4) 2-Methylnaphthalene	7.06	142	10838	0.027ug/ml	99
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)

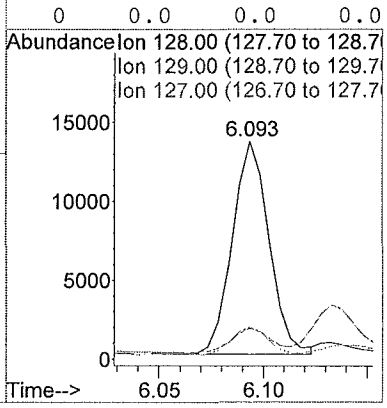
: 00763

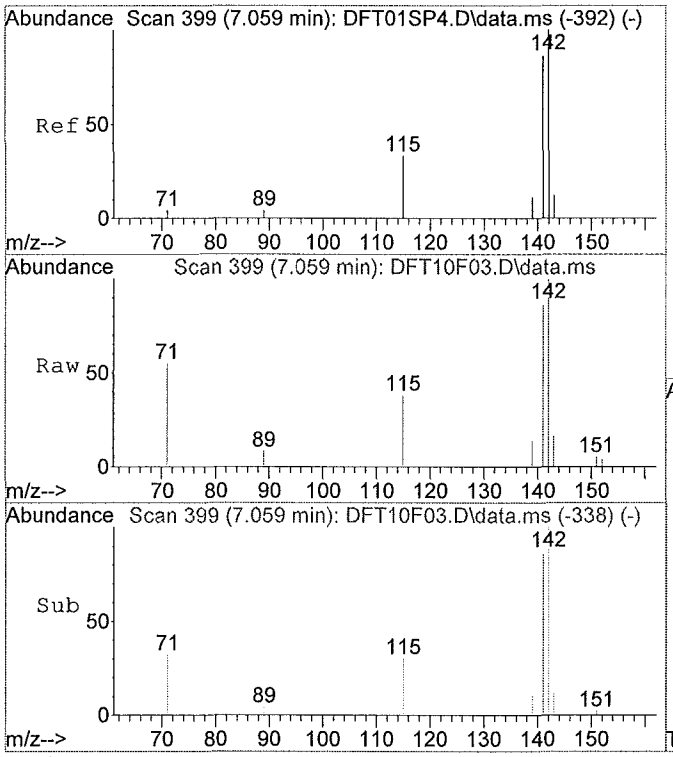


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT10F03.D
Acq: 06/04/2015 17:33

Tgt Ion:128 Resp: 16556

Ion	Ratio	Lower	Upper
128	100		
129	12.9	0.0	0.0#
127	12.8	11.1	20.5
0	0.0	0.0	0.0

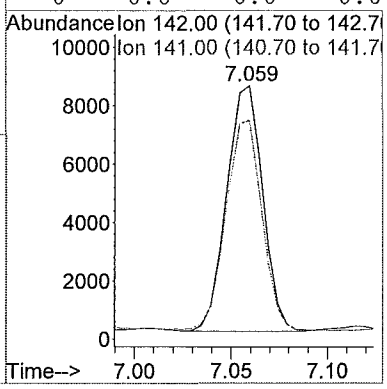




#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DFT10F03.D
Acq: 06/04/2015 17:33

Tgt Ion:142 Resp: 10838

Ion	Ratio	Lower	Upper
142	100		
141	86.3	61.1	113.5
0	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.:

F9K77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052004

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFF07F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	7.7	U
91-57-6	2-Methylnaphthalene	7.7	U
208-96-8	Acenaphthylene	6.3	J
83-32-9	Acenaphthene	7.7	U
86-73-7	Fluorene	7.7	U
87-86-5	Pentachlorophenol	16.	U
85-01-8	Phenanthrene	4.2	J
120-12-7	Anthracene	6.9	J
206-44-0	Fluoranthene	25.	
129-00-0	Pyrene	25.	
56-55-3	Benzo(a)anthracene	19.	
218-01-9	Chrysene	36.	
205-99-2	Benzo(b)fluoranthene	31.	
207-08-9	Benzo(k)fluoranthene	8.7	
50-32-8	Benzo(a)pyrene	17.	
193-39-5	Indeno(1,2,3-cd)pyrene	20.	
53-70-3	Dibenzo(a,h)anthracene	4.5	J
191-24-2	Benzo(g,h,i)perylene	11.	

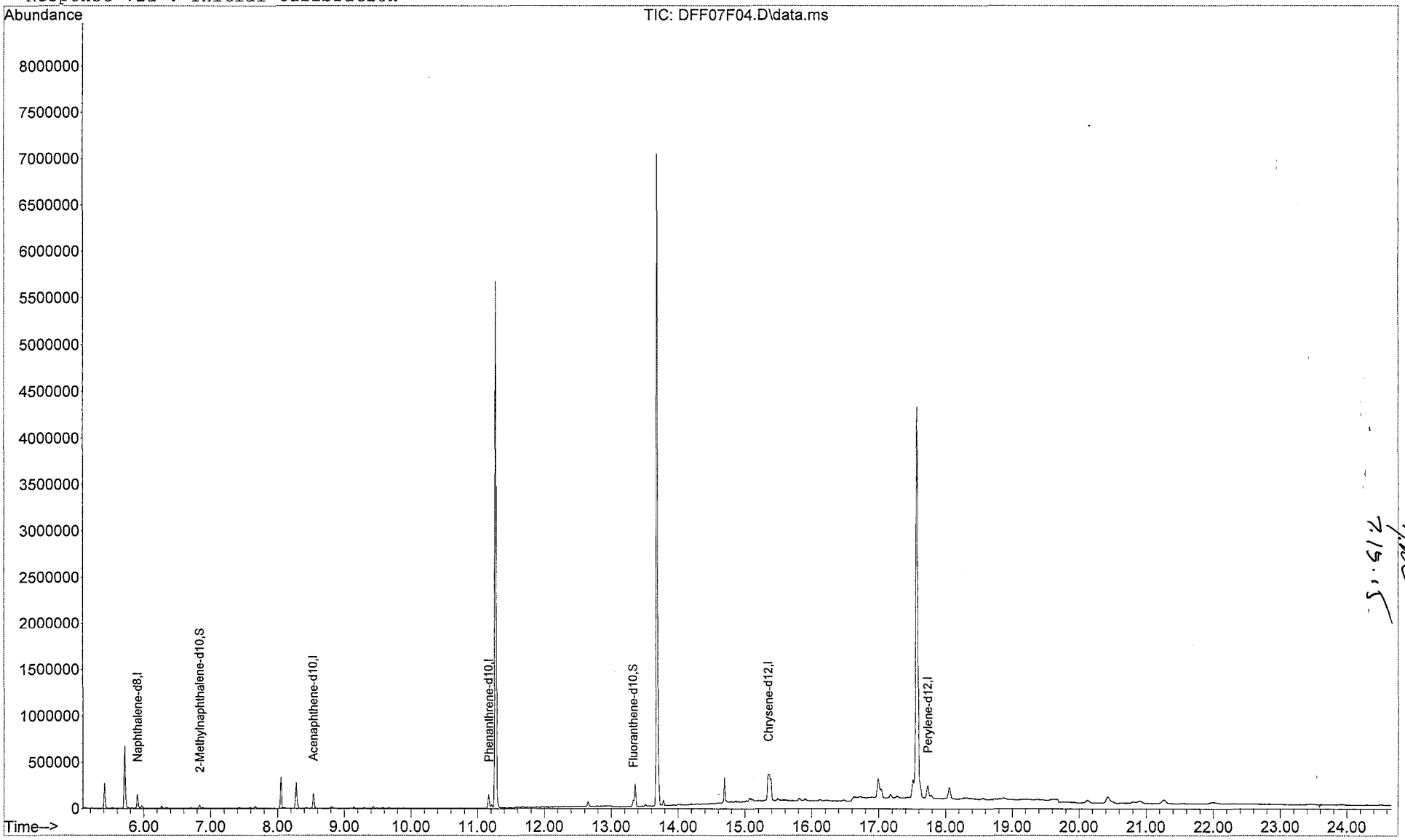
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF07F04.D
Acq On : 07/09/2015 15:16
Sample : 1514052004 F9K77 (2)
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 7
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 13:52:01 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 13:38:19 2015
Response via : Initial Calibration



7/15/15

Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF07F04.D Vial: 7
Acq On : 07/09/2015 15:16 Operator: DJC
Sample : 1514052004 F9K77 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 13:52:01 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 13:38:19 2015
Response via : Initial Calibration

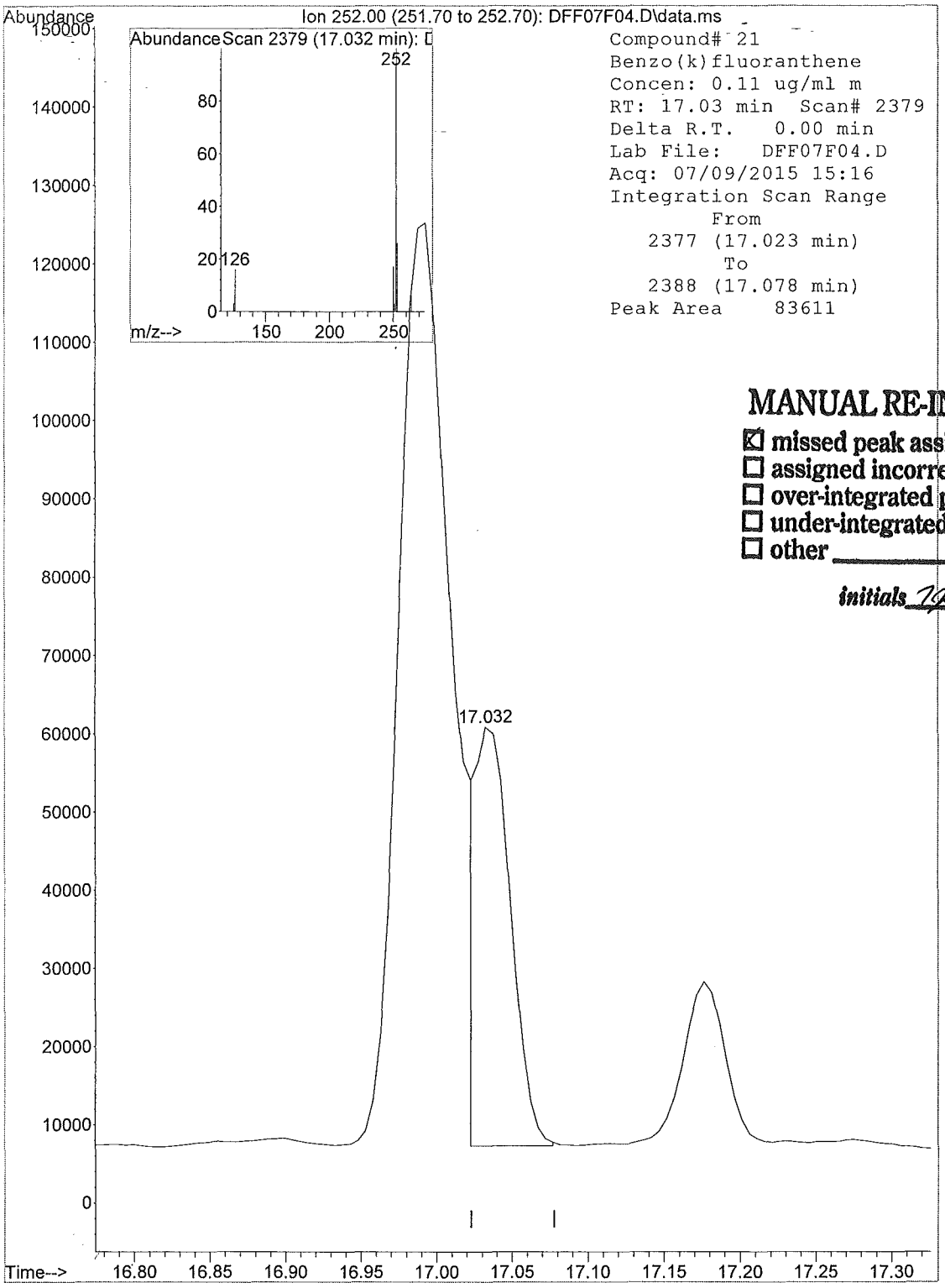
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.90	136	161349	0.40 ug/ml
5) Acenaphthene-d10	8.54	164	109813	0.40 ug/ml
9) Phenanthrene-d10	11.17	188	188205	0.40 ug/ml
15) Chrysene-d12	15.35	240	219959	0.40 ug/ml
19) Perylene-d12	17.73	264	233076	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.84	152	38279	0.147ug/mL
13) Fluoranthene-d10	13.33	212	84512	0.164ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.30	152	38936	0.081ug/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	11.21	178	29376	0.054ug/ml	96
12) Anthracene	11.30	178	46902	0.089ug/ml	97
14) Fluoranthene	13.36	202	194612	0.315ug/ml	89
16) Pyrene	13.71	202	220903	0.320ug/ml	77
17) Benzo(a)anthracene	15.34	228	145446	0.248ug/ml	86
18) Chrysene	15.39	228	286515	0.462ug/ml	97
20) Benzo(b)fluoranthene	16.99	252	284673	0.392ug/ml	98
21) Benzo(k)fluoranthene	17.03	252	83611	0.111ug/ml m	97 7.15.15
22) Benzo(a)pyrene	17.62	252	153484	0.221ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.43	276	158882	0.262ug/ml	100
24) Dibenzo(a,h)anthracene	20.49	278	39023	0.058ug/ml	92
25) Benzo(g,h,i)perylene	21.26	276	98703	0.144ug/ml	74

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

00767

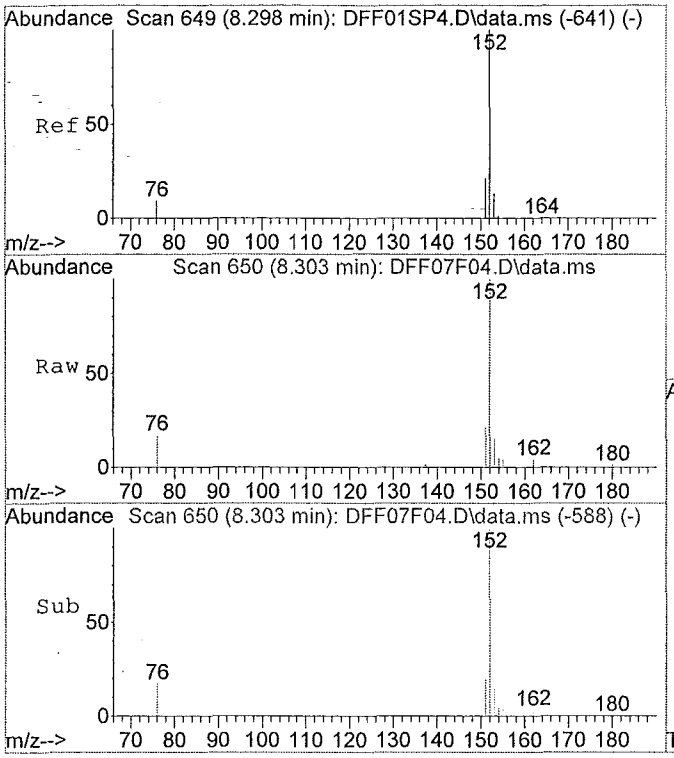
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

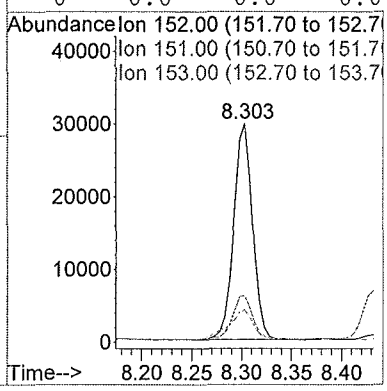
initials TQ *date* 7.15.15

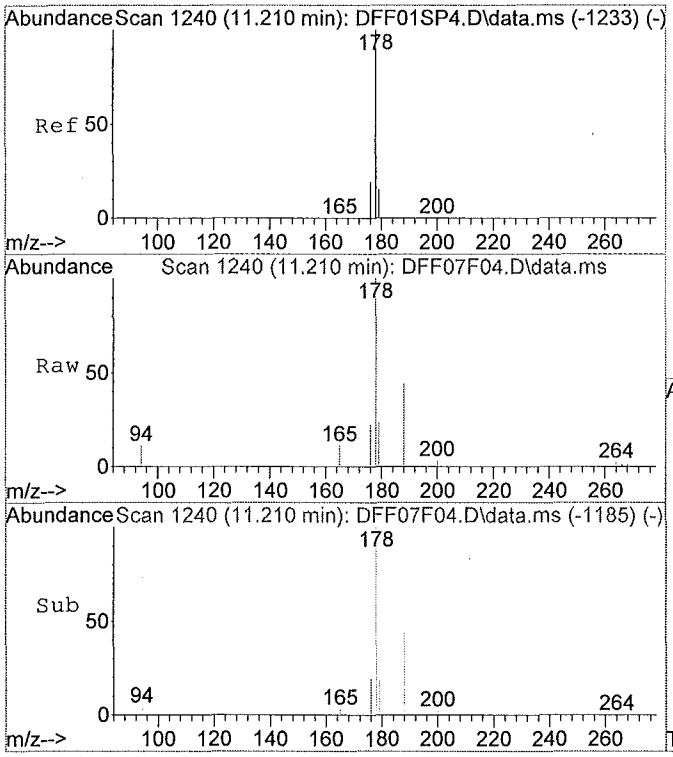


#6
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:152 Resp: 38936

Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.5	28.7
153	18.0	8.8	16.4#
0	0.0	0.0	0.0

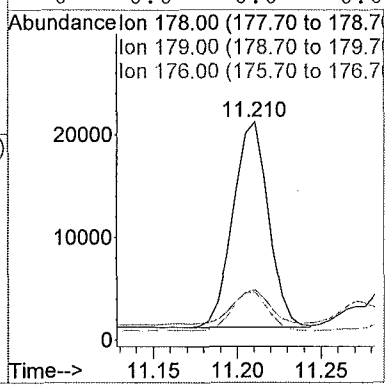


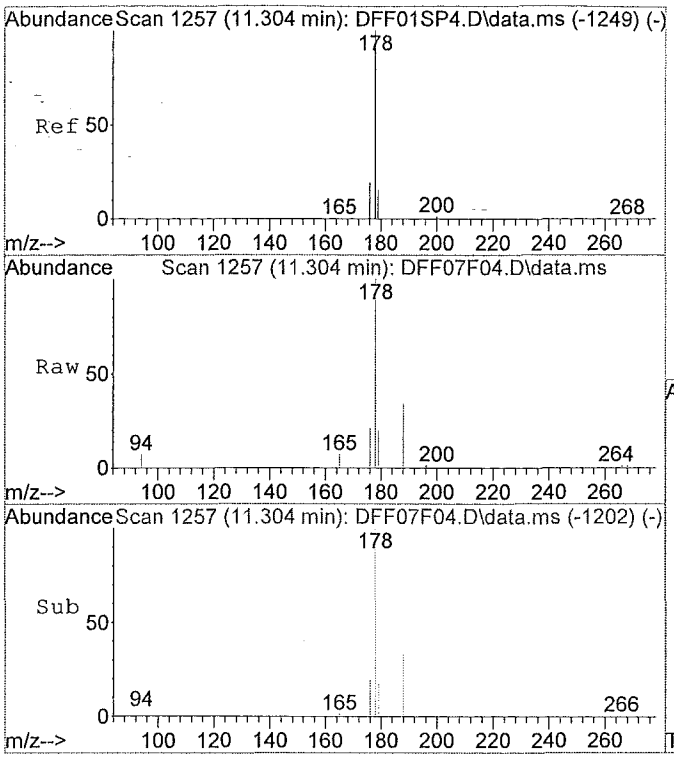


#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:178 Resp: 29376

Ion	Ratio	Lower	Upper
178	100		
179	18.4	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

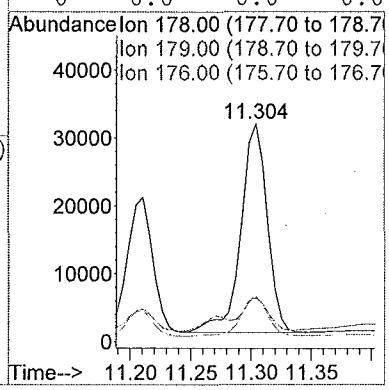


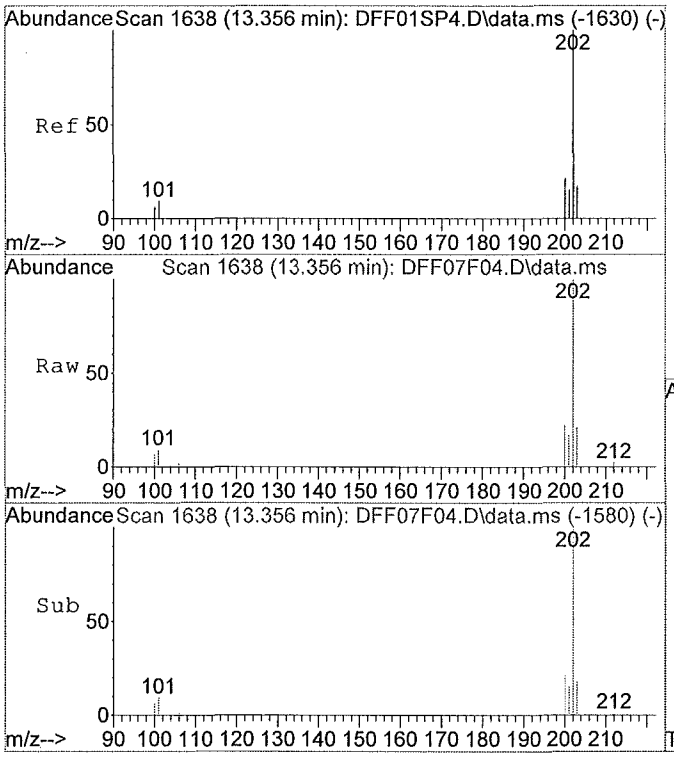


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:178 Resp: 46902

Ion	Ratio	Lower	Upper
178	100		
179	14.4	11.6	21.6
176	19.0	13.9	25.7
0	0.0	0.0	0.0

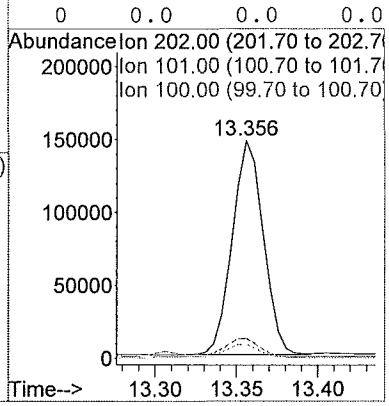


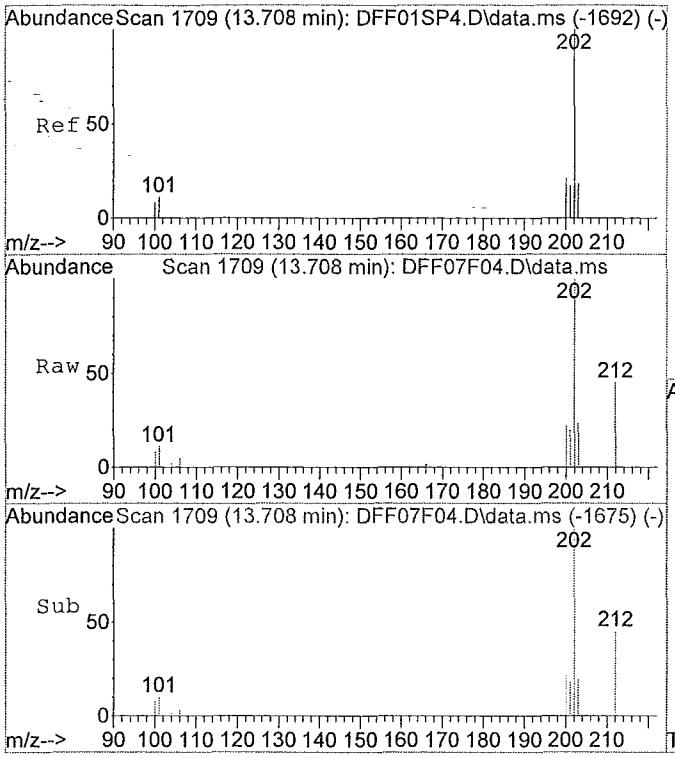


#14
Fluoranthene
Concen: 0.32 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:202 Resp: 194612

Ion	Ratio	Lower	Upper
202	100		
101	9.2	9.4	17.6#
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

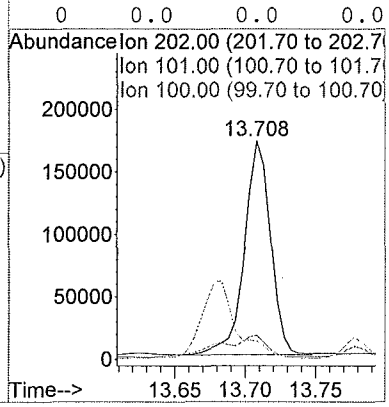


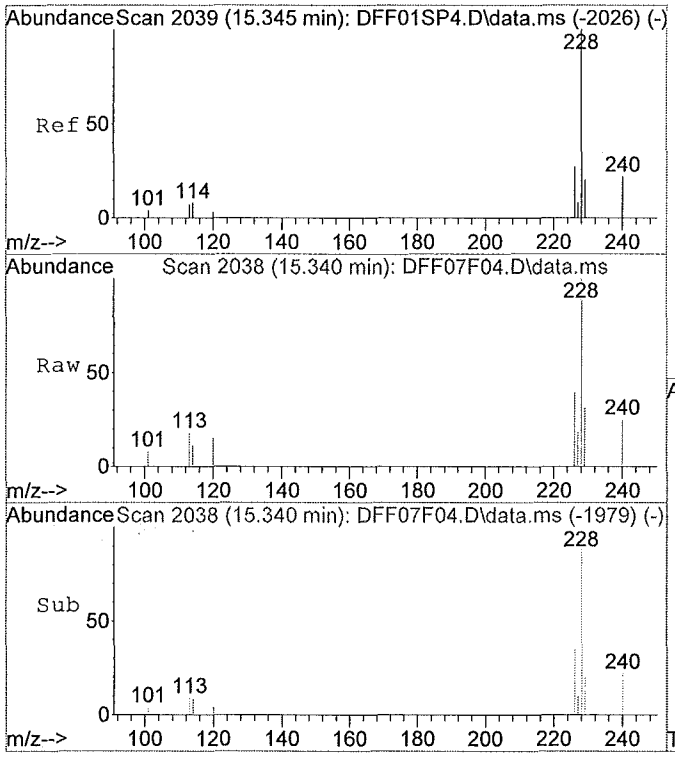


#16
Pyrene
Concen: 0.32 ug/ml
RT: 13.71 min Scan# 1709
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:202 Resp: 220903

Ion	Ratio	Lower	Upper
202	100		
101	9.3	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

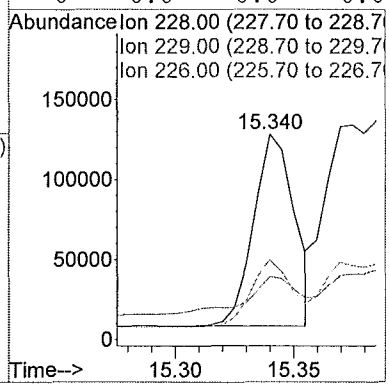


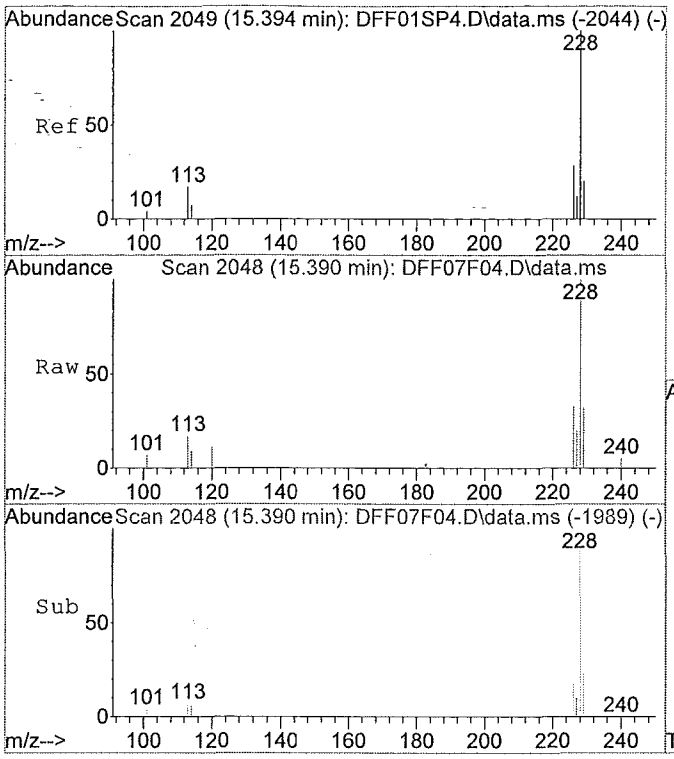


#17
Benzo(a)anthracene
Concen: 0.25 ug/ml
RT: 15.34 min Scan# 2038
Delta R.T. -0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:228 Resp: 145446

Ion	Ratio	Lower	Upper
228	100		
229	24.8	14.5	26.9
226	35.4	18.5	34.3#
0	0.0	0.0	0.0

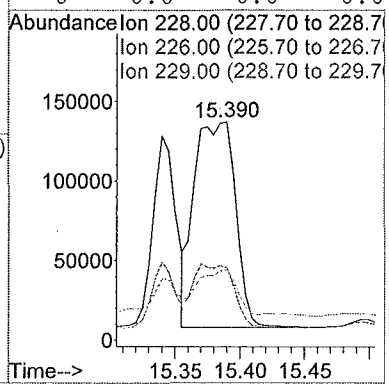


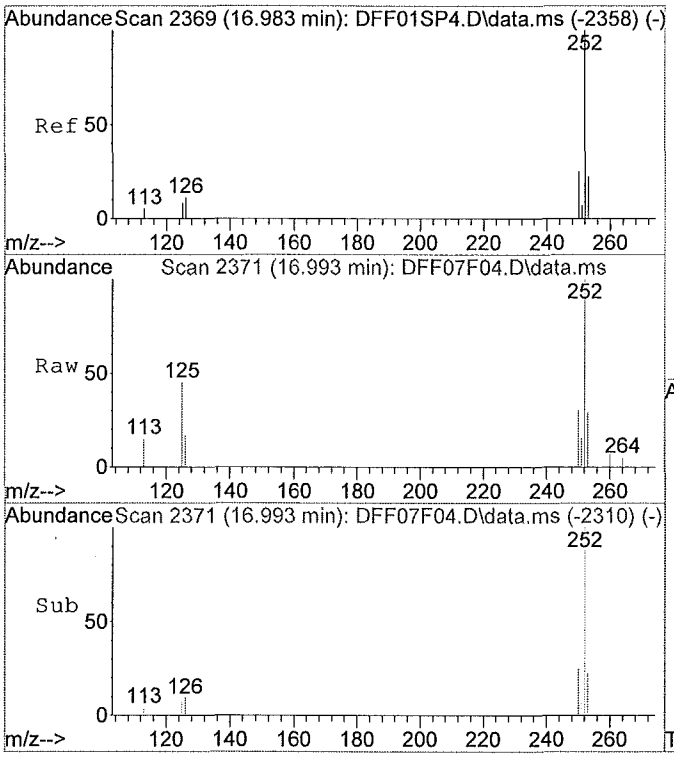


#18
Chrysene
Concen: 0.46 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:228 Resp: 286515

Ion	Ratio	Lower	Upper
228	100		
226	30.9	19.7	36.7
229	20.3	14.5	26.9
0	0.0	0.0	0.0

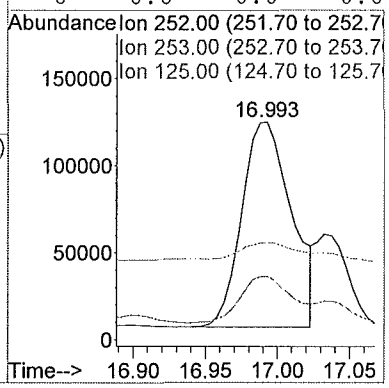


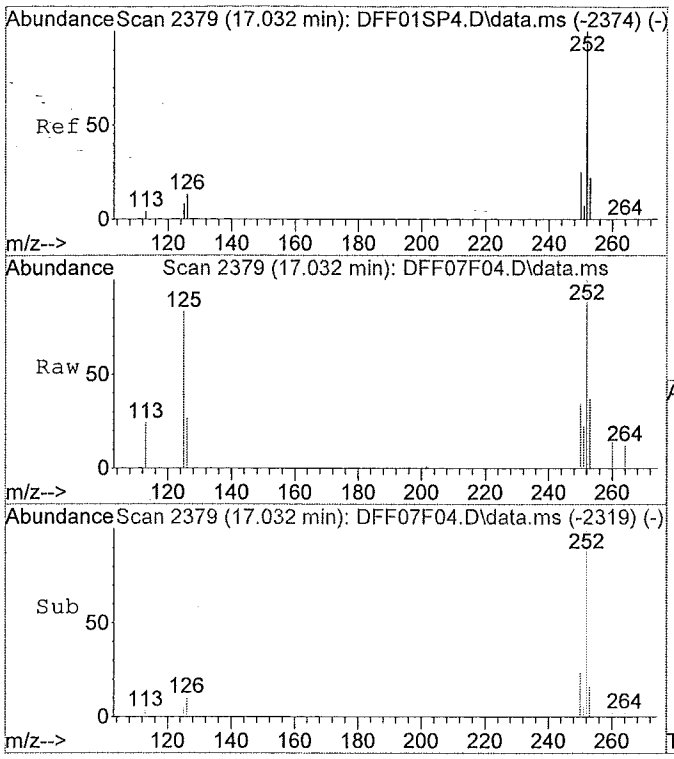


#20
Benzo(b)fluoranthene
Concen: 0.39 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:252 Resp: 284673

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	16.7	0.0	0.0#
0	0.0	0.0	0.0

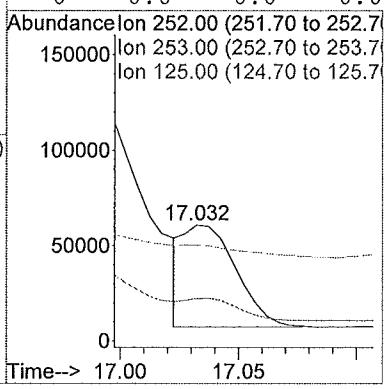


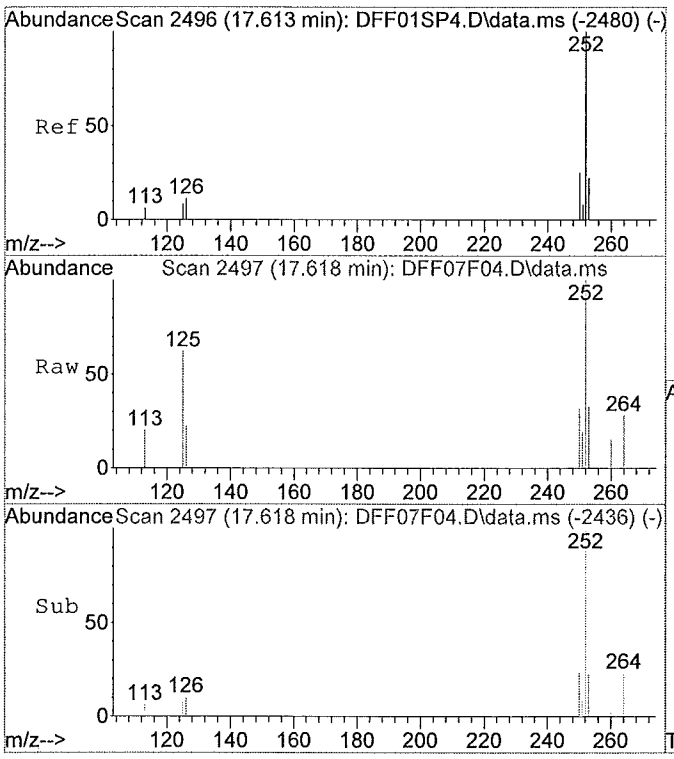


#21
Benzo(k)fluoranthene
Concen: 0.11 ug/ml m
RT: 17.03 min Scan# 2379
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:252 Resp: 83611

Ion	Ratio	Lower	Upper
252	100		
253	77.2	15.0	27.8#
125	56.9	0.0	0.0#
0	0.0	0.0	0.0

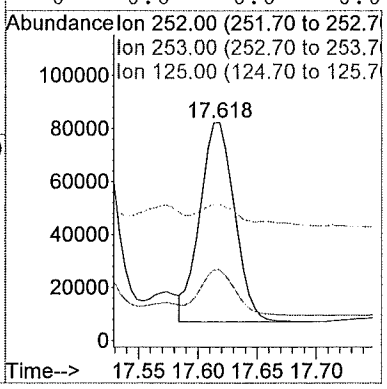


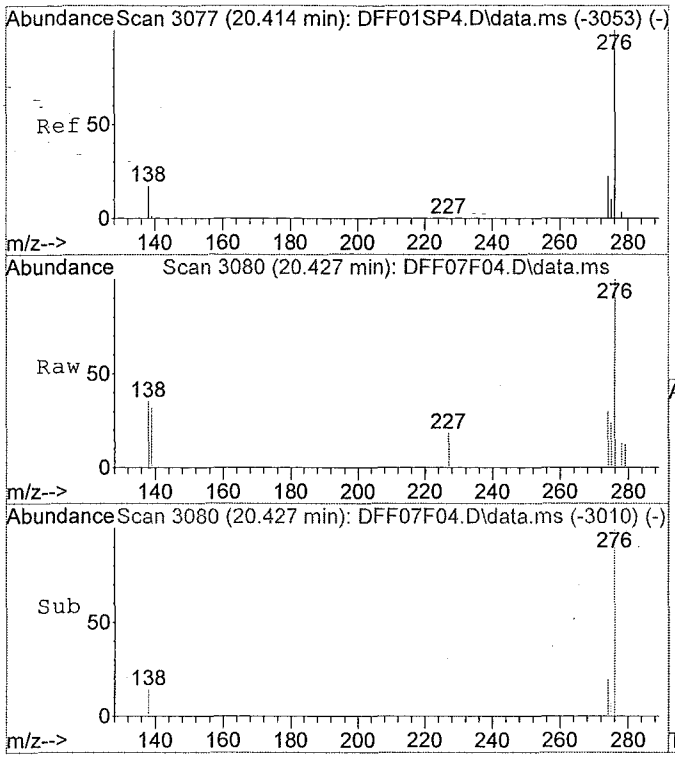


#22
Benzo(a)pyrene
Concen: 0.22 ug/ml
RT: 17.62 min Scan# 2497
Delta R.T. 0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:252 Resp: 153484

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.0	27.8
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

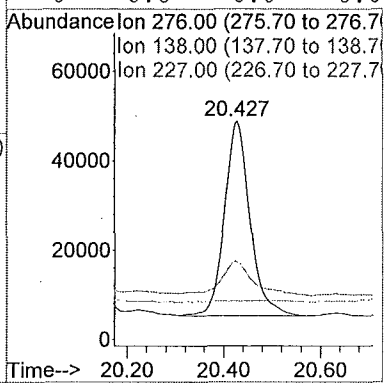


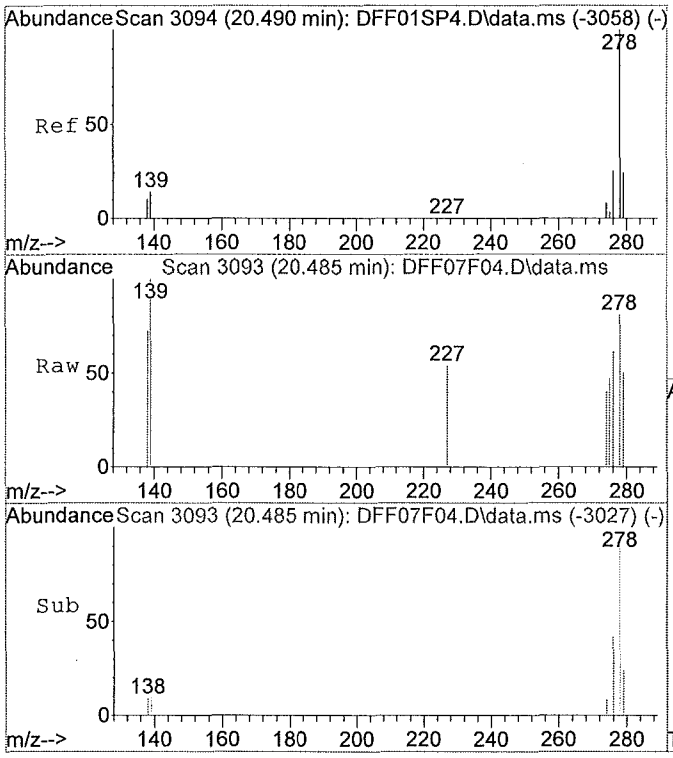


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.26 ug/ml
RT: 20.43 min Scan# 3080
Delta R.T. 0.01 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:276 Resp: 158882

Ion	Ratio	Lower	Upper
276	100		
138	21.8	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

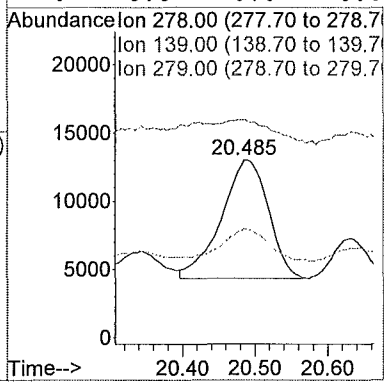


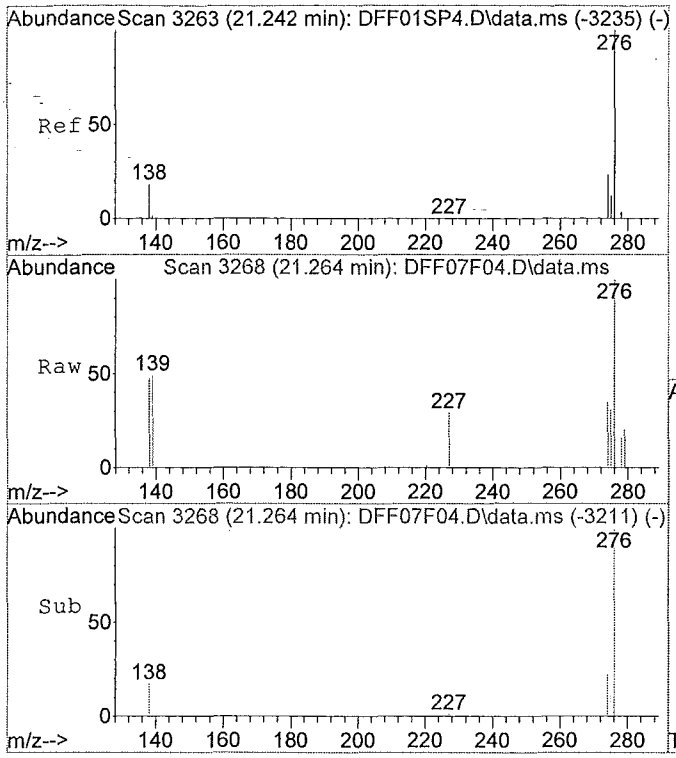


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.49 min Scan# 3093
Delta R.T. -0.00 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:278 Resp: 39023

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	26.6	15.8	29.3
0	0.0	0.0	0.0

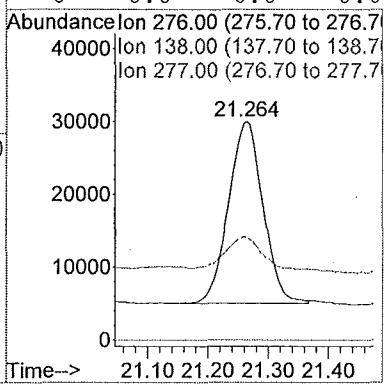




#25
Benzo(g,h,i)perylene
Concen: 0.14 ug/ml
RT: 21.26 min Scan# 3268
Delta R.T. 0.02 min
Lab File: DFF07F04.D
Acq: 07/09/2015 15:16

Tgt Ion:276 Resp: 98703

Ion	Ratio	Lower	Upper
276	100		
138	21.3	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.:

F9K78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514052005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFT11F05

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/20/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

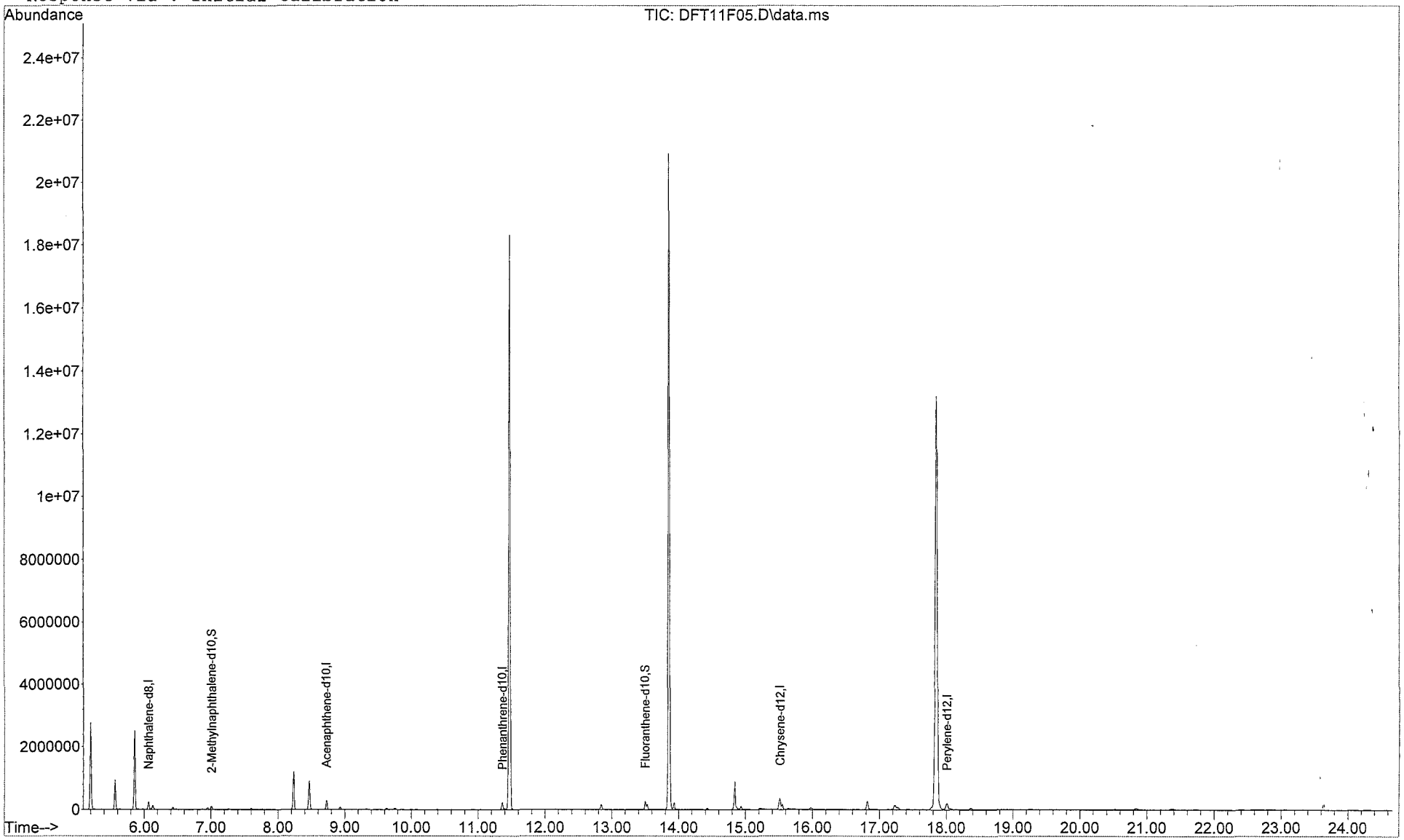
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	4.1	U
91-57-6	2-Methylnaphthalene	4.1	U
208-96-8	Acenaphthylene	1.5	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	8.2	U
85-01-8	Phenanthrene	4.1	U
120-12-7	Anthracene	1.3	J
206-44-0	Fluoranthene	5.0	
129-00-0	Pyrene	6.7	
56-55-3	Benzo(a)anthracene	4.7	
218-01-9	Chrysene	5.5	
205-99-2	Benzo(b)fluoranthene	6.8	
207-08-9	Benzo(k)fluoranthene	2.2	J
50-32-8	Benzo(a)pyrene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	4.3	
53-70-3	Dibenzo(a,h)anthracene	0.88	J
191-24-2	Benzo(g,h,i)perylene	2.1	J

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT11F05.D Vial: 11
Acq On : 06/04/2015 18:03 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 07:02:05 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:\D\2015\JUN15\04JUN15\04JUN15\DFT11F05.D Vial: 11
Acq On : 06/04/2015 18:03 Operator: DJC
Sample : 1514052005 F9K78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 07:02:05 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

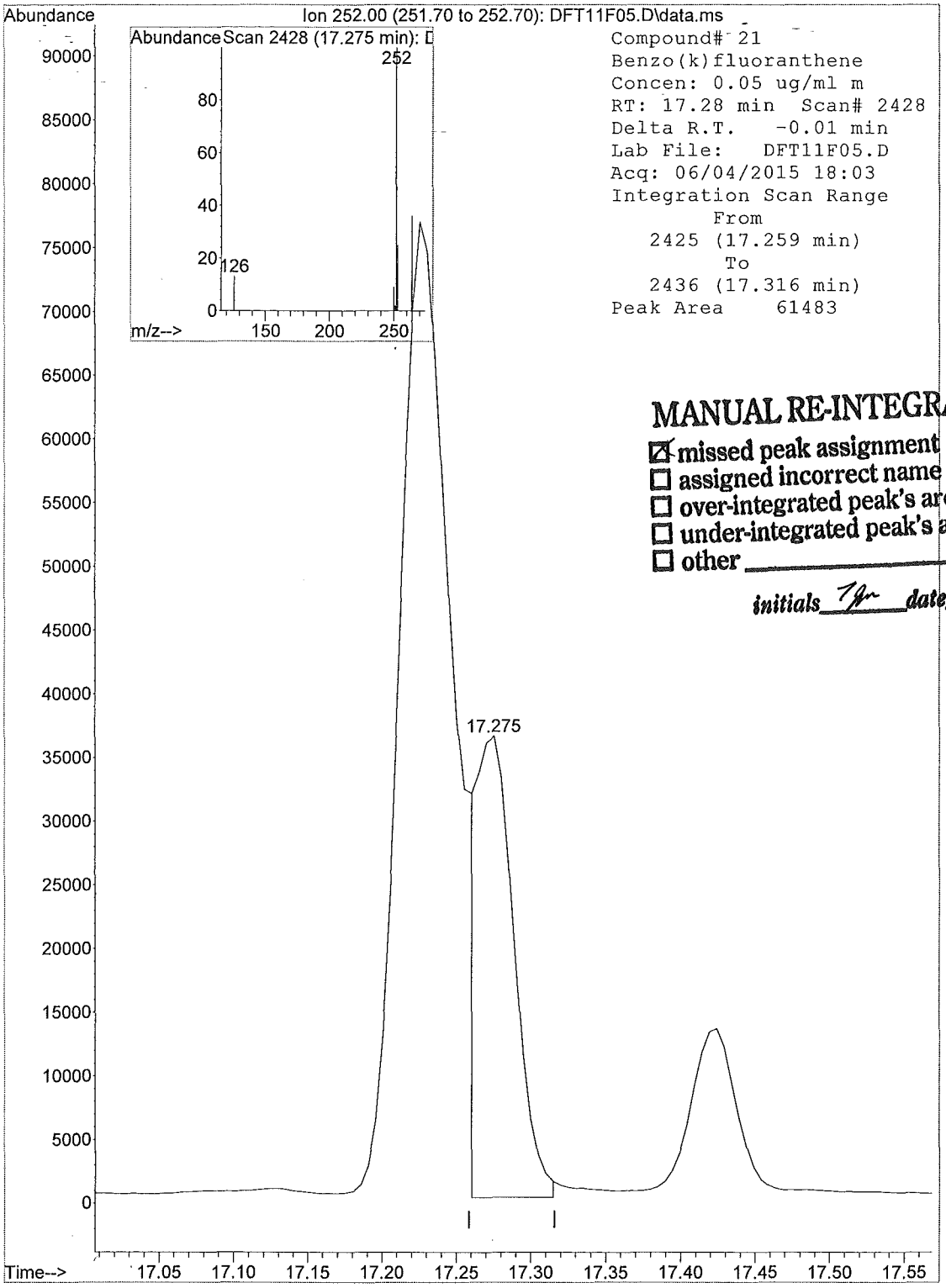
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	265978	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	187539	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	329459	0.40 ug/ml
15) Chrysene-d12	15.51	240	338562	0.40 ug/ml
19) Perylene-d12	18.01	264	362225	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	118952	0.277ug/mL
13) Fluoranthene-d10	13.50	212	281110	0.312ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	29396	0.036ug/ml	83
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	11.50	178	28215	0.031ug/ml	94
14) Fluoranthene	13.53	202	132575	0.123ug/ml	89
16) Pyrene	13.88	202	174288	0.164ug/ml	1
17) Benzo(a)anthracene	15.50	228	102675	0.114ug/ml	91
18) Chrysene	15.55	228	127586	0.134ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	187190	0.166ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	61483	0.053ug/ml m	99 7.15.15
22) Benzo(a)pyrene	17.89	252	109592	0.102ug/ml	98
23) Indeno(1,2,3-c,d)pyrene	20.84	276	100013	0.106ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	22528	0.022ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	55662	0.052ug/ml	75

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

00778

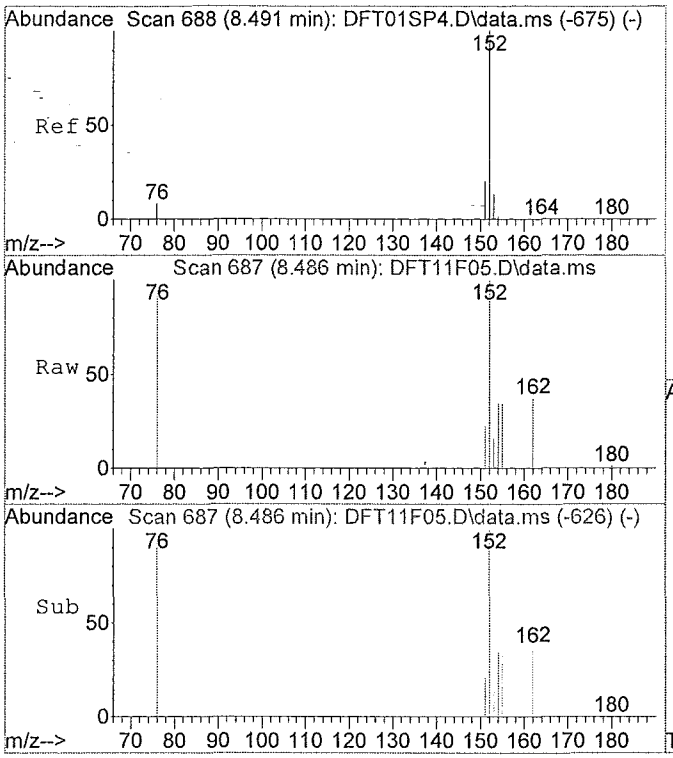
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

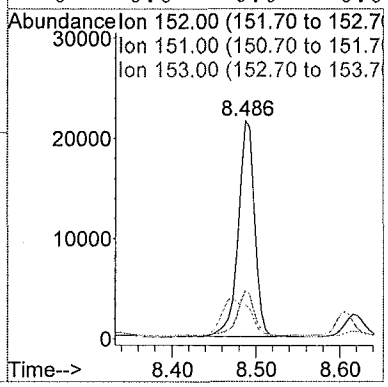
initials TJ *date* 7.15.15

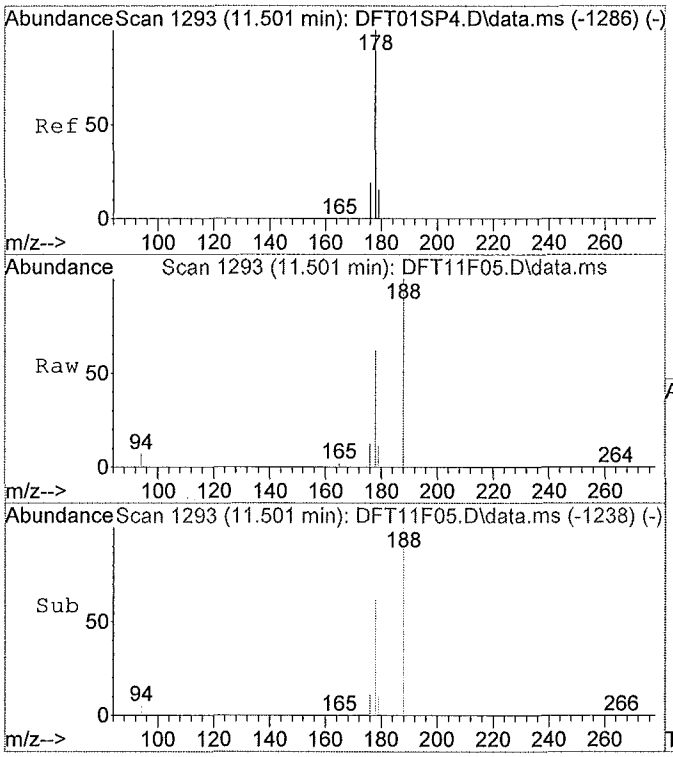


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:152 Resp: 29396

Ion	Ratio	Lower	Upper
152	100		
151	21.6	15.5	28.7
153	30.2	8.8	16.4#
0	0.0	0.0	0.0

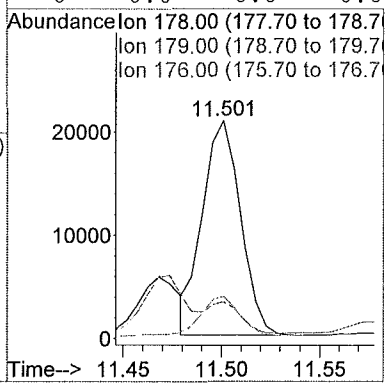


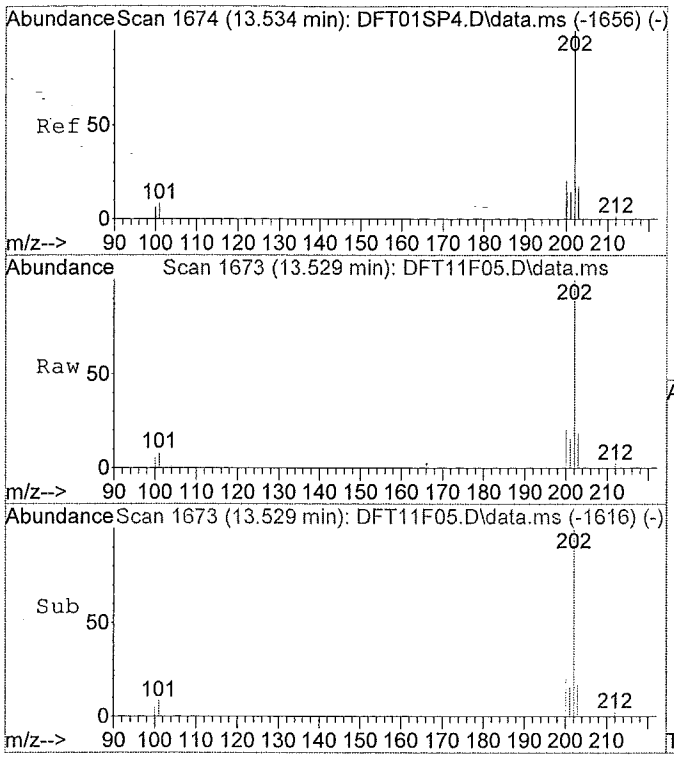


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:178 Resp: 28215

Ion	Ratio	Lower	Upper
178	100		
179	12.0	11.6	21.6
176	20.4	13.9	25.7
0	0.0	0.0	0.0

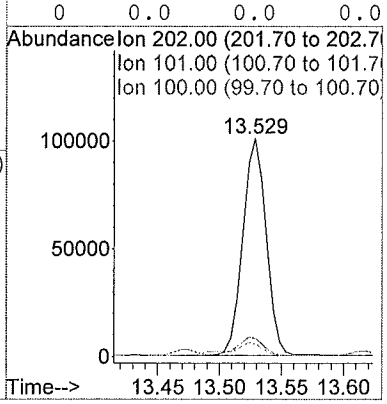


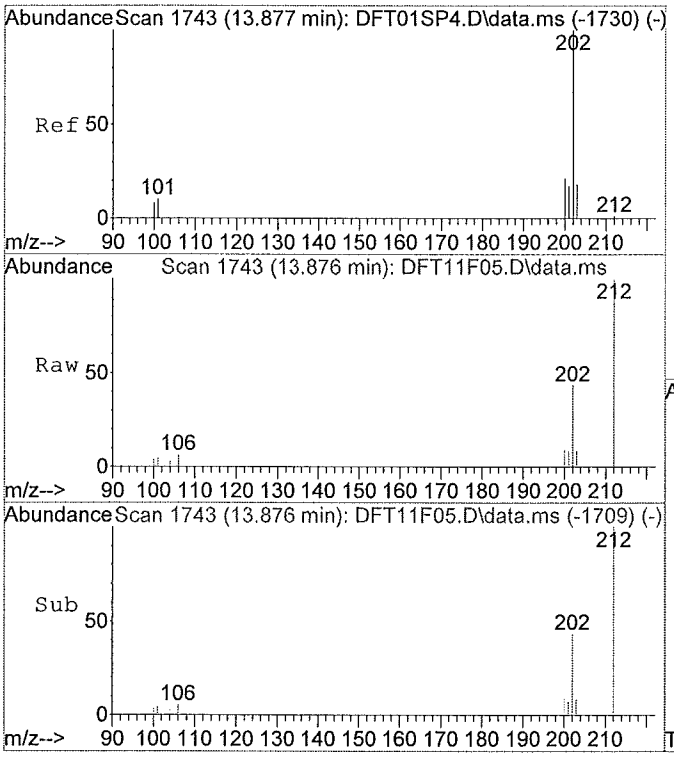


#14
Fluoranthene
Concen: 0.12 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:202 Resp: 132575

Ion	Ratio	Lower	Upper
202	100		
101	9.3	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

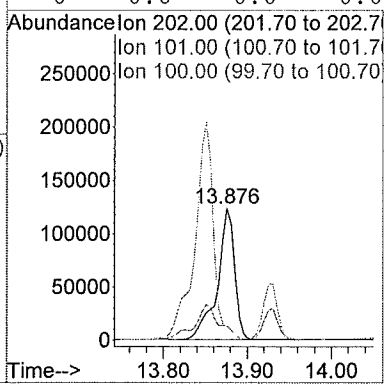


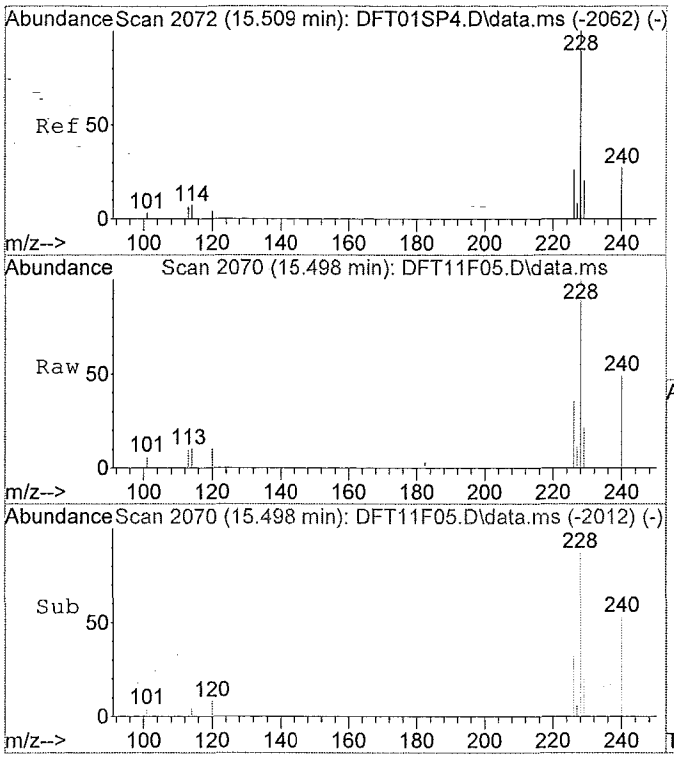


#16
Pyrene
Concen: 0.16 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. -0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:202 Resp: 174288

Ion	Ratio	Lower	Upper
202	100		
101	39.4	10.6	19.6#
100	184.4	9.4	17.4#
0	0.0	0.0	0.0

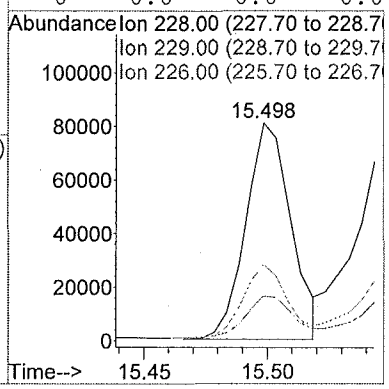


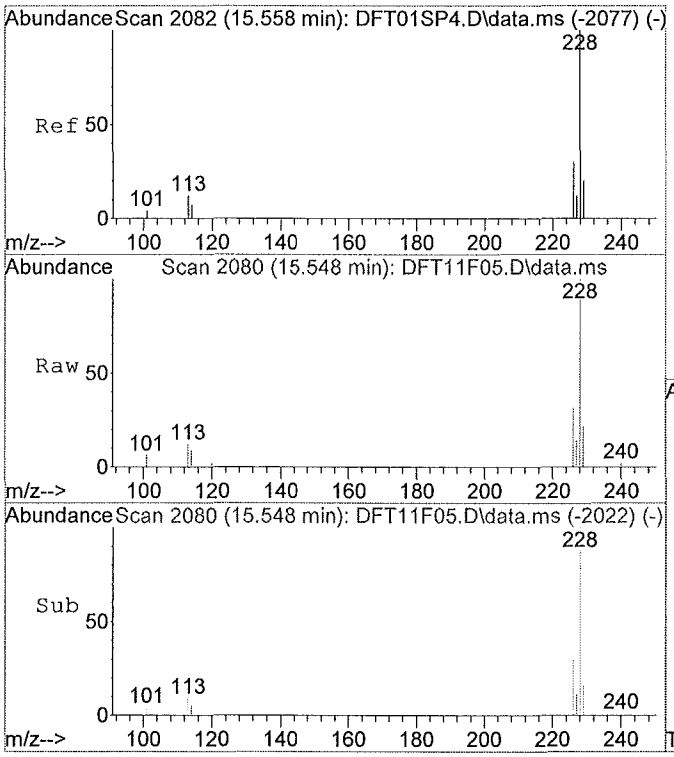


#17
Benzo(a)anthracene
Concen: 0.11 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:228 Resp: 102675

Ion	Ratio	Lower	Upper
228	100		
229	20.4	14.5	26.9
226	34.2	18.5	34.3
0	0.0	0.0	0.0

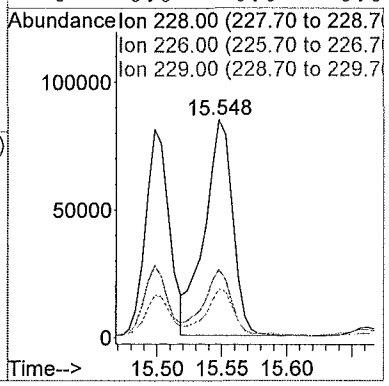


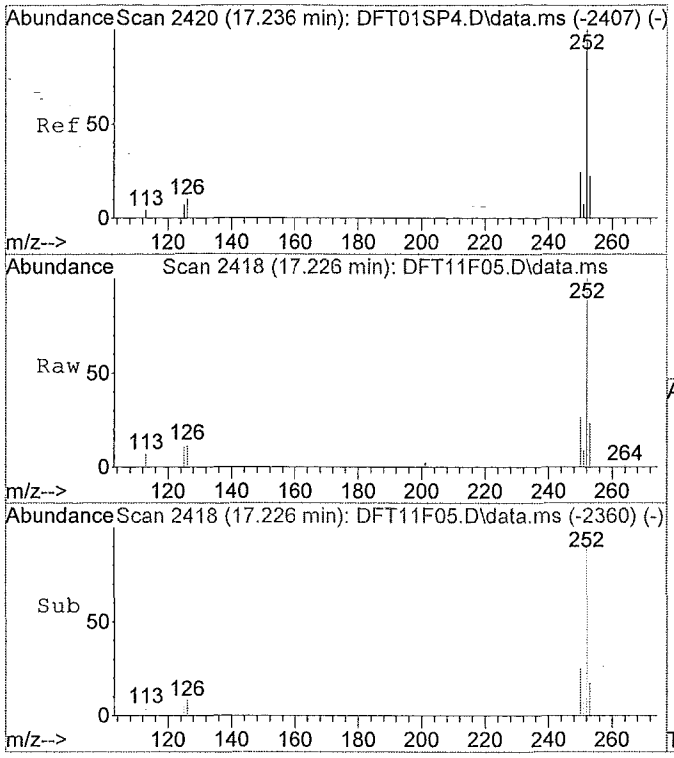


#18
Chrysene
Concen: 0.13 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:228 Resp: 127586

Ion	Ratio	Lower	Upper
228	100		
226	30.6	19.7	36.7
229	21.4	14.5	26.9
0	0.0	0.0	0.0

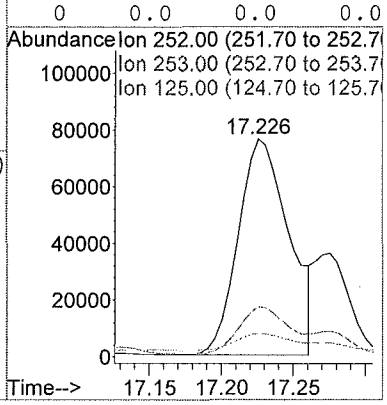


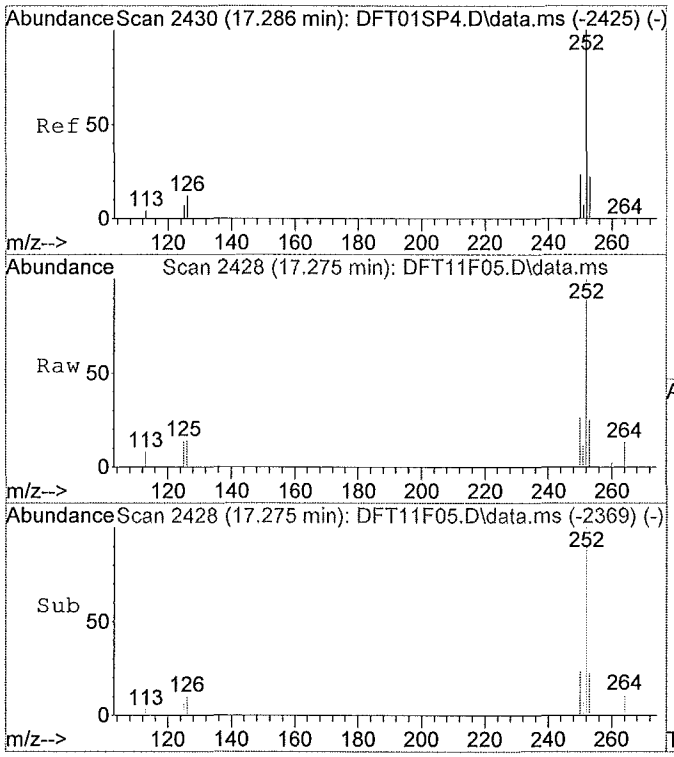


#20
Benzo(b)fluoranthene
Concen: 0.17 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:252 Resp: 187190

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.3	28.3
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

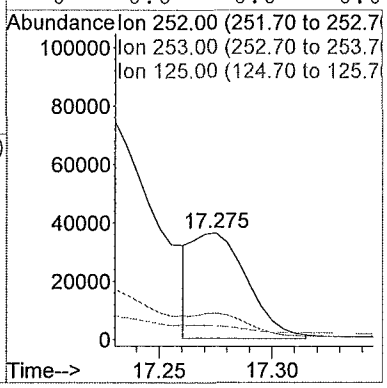


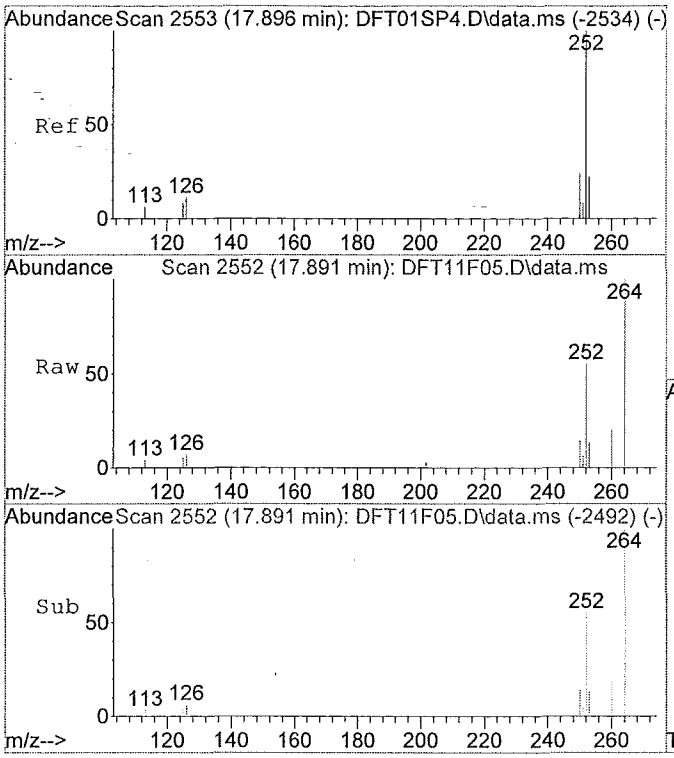


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:252 Resp: 61483

Ion	Ratio	Lower	Upper
252	100		
253	66.4	15.0	27.8#
125	24.9	0.0	0.0#
0	0.0	0.0	0.0

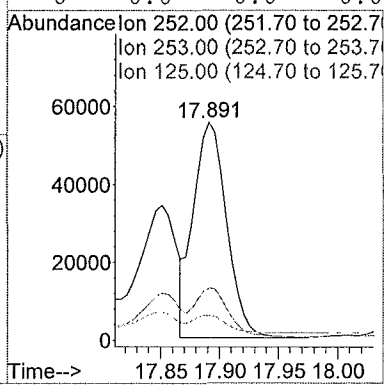


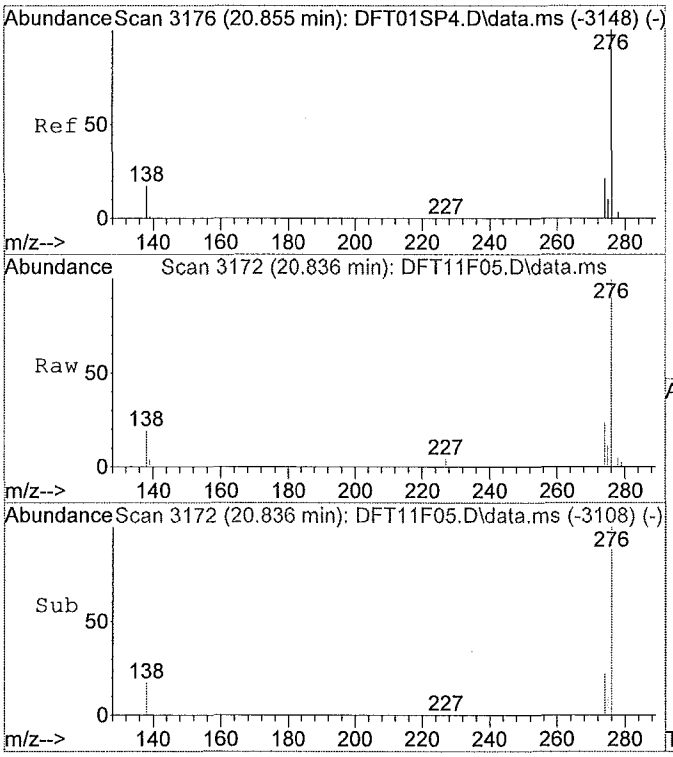


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. -0.00 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:252 Resp: 109592

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.0	27.8
125	8.0	0.0	0.0#
0	0.0	0.0	0.0

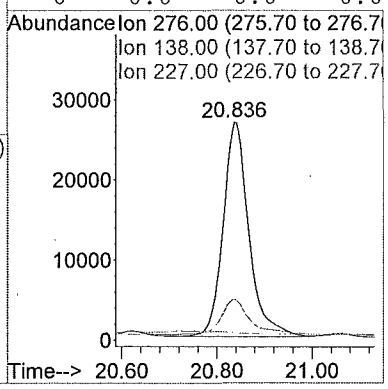


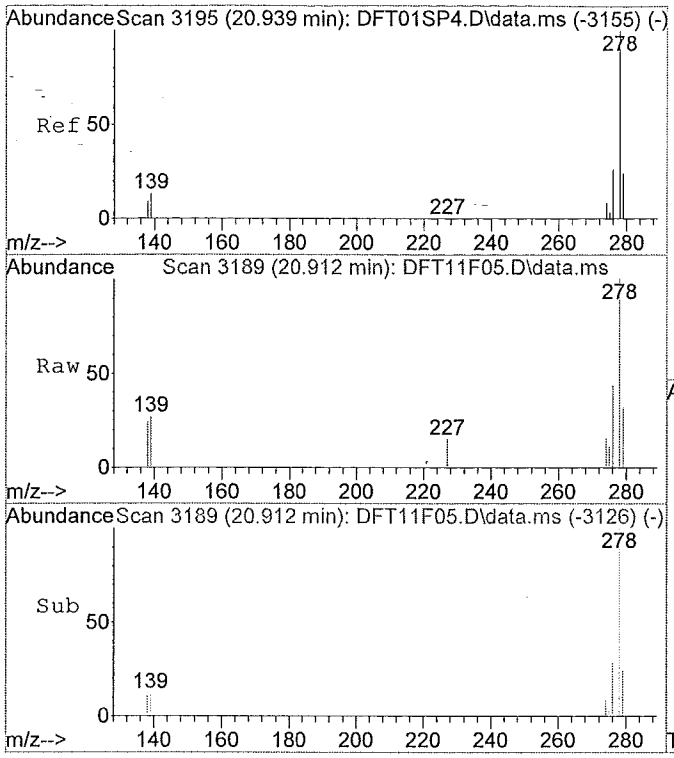


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.11 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:276 Resp: 100013

Ion	Ratio	Lower	Upper
276	100		
138	18.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

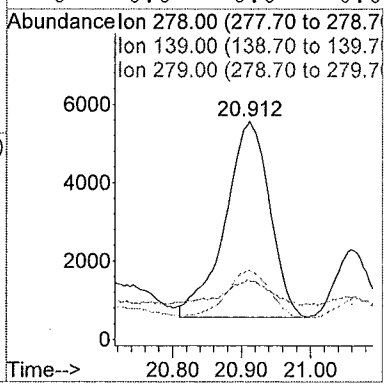


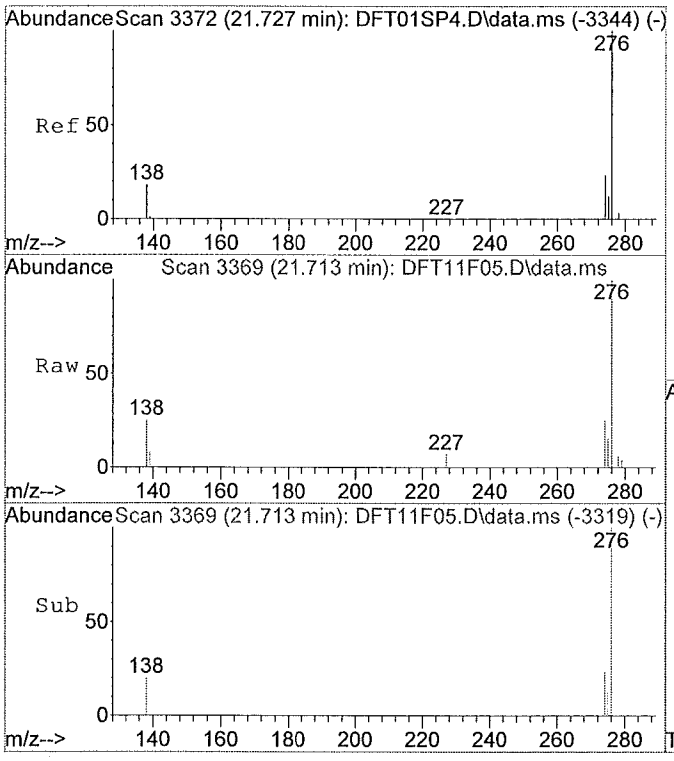


#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.91 min Scan# 3189
Delta R.T. -0.02 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:278 Resp: 22528

Ion	Ratio	Lower	Upper
278	100		
139	11.4	0.0	0.0#
279	23.3	15.8	29.3
0	0.0	0.0	0.0

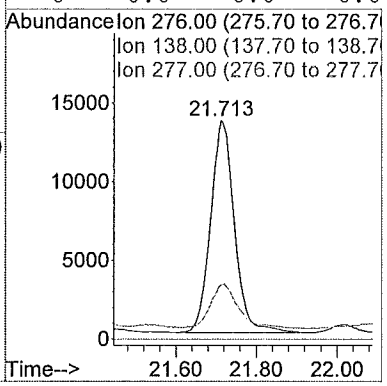




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT11F05.D
Acq: 06/04/2015 18:03

Tgt Ion:276 Resp: 55662

Ion	Ratio	Lower	Upper
276	100		
138	22.2	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.: F9KR0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT12F01

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

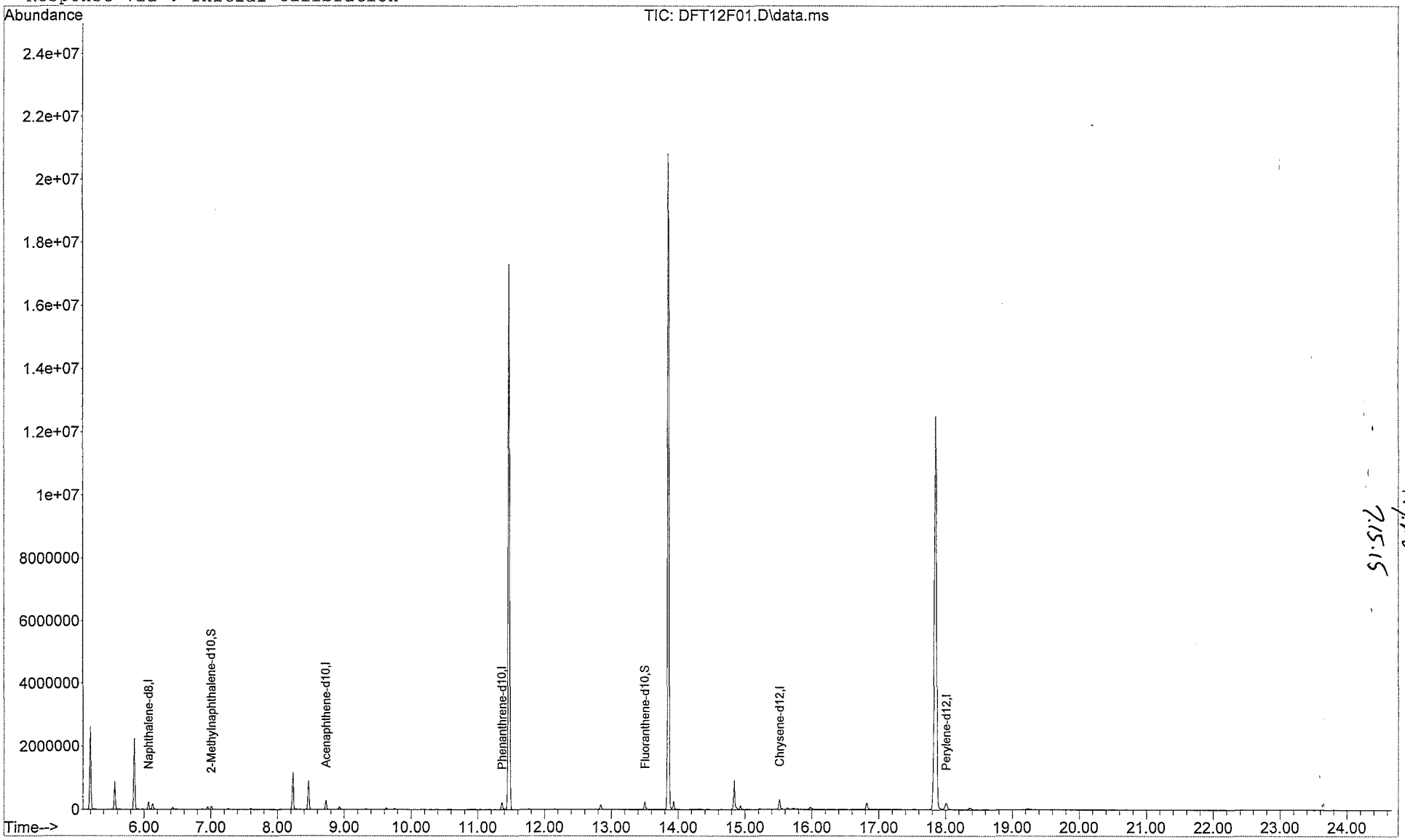
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	3.7	U
129-00-0	Pyrene	3.7	U
56-55-3	Benzo(a)anthracene	3.7	U
218-01-9	Chrysene	3.7	U
205-99-2	Benzo(b)fluoranthene	3.7	U
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT12F01.D Vial: 12
Acq On : 06/04/2015 18:33 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 08:29:44 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



7.15.15

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT12F01.D Vial: 12
Acq On : 06/04/2015 18:33 Operator: DJC
Sample : 1514071001 F9KR0 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 08:29:44 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	6.07	136	268186	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	187558	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	333313	0.40 ug/ml
15) Chrysene-d12	15.51	240	336698	0.40 ug/ml
19) Perylene-d12	18.01	264	373888	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	113913	0.263ug/mL
13) Fluoranthene-d10	13.50	212	280395	0.308ug/mL

Target Compounds				Qvalue
2) Naphthalene	0.00	128	Not Detected	
4) 2-Methylnaphthalene	0.00	142	Not Detected	
6) Acenaphthylene	0.00	152	Not Detected	
7) Acenaphthene	0.00	153	Not Detected	
8) Fluorene	0.00	166	Not Detected	
10) Pentachlorophenol	0.00	266	Not Detected	
11) Phenanthrene	0.00	178	Not Detected	
12) Anthracene	0.00	178	Not Detected	
14) Fluoranthene	0.00	202	Not Detected	
16) Pyrene	0.00	202	Not Detected	
17) Benzo(a)anthracene	0.00	228	Not Detected	
18) Chrysene	0.00	228	Not Detected	
20) Benzo(b)fluoranthene	0.00	252	Not Detected	
21) Benzo(k)fluoranthene	0.00	252	Not Detected	
22) Benzo(a)pyrene	0.00	252	Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276	Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278	Not Detected	
25) Benzo(g,h,i)perylene	0.00	276	Not Detected	

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

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9KW7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978001

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFF08F01

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.3	J
91-57-6	2-Methylnaphthalene	4.3	
208-96-8	Acenaphthylene	2.8	J
83-32-9	Acenaphthene	2.0	J
86-73-7	Fluorene	2.1	J
87-86-5	Pentachlorophenol	1.4	J
85-01-8	Phenanthrene	4.7	
120-12-7	Anthracene	3.0	J
206-44-0	Fluoranthene	9.3	
129-00-0	Pyrene	8.4	
56-55-3	Benzo(a)anthracene	6.3	
218-01-9	Chrysene	8.1	
205-99-2	Benzo(b)fluoranthene	9.9	
207-08-9	Benzo(k)fluoranthene	2.5	J
50-32-8	Benzo(a)pyrene	5.5	
193-39-5	Indeno(1,2,3-cd)pyrene	5.8	
53-70-3	Dibenzo(a,h)anthracene	1.4	J
191-24-2	Benzo(g,h,i)perylene	3.9	J

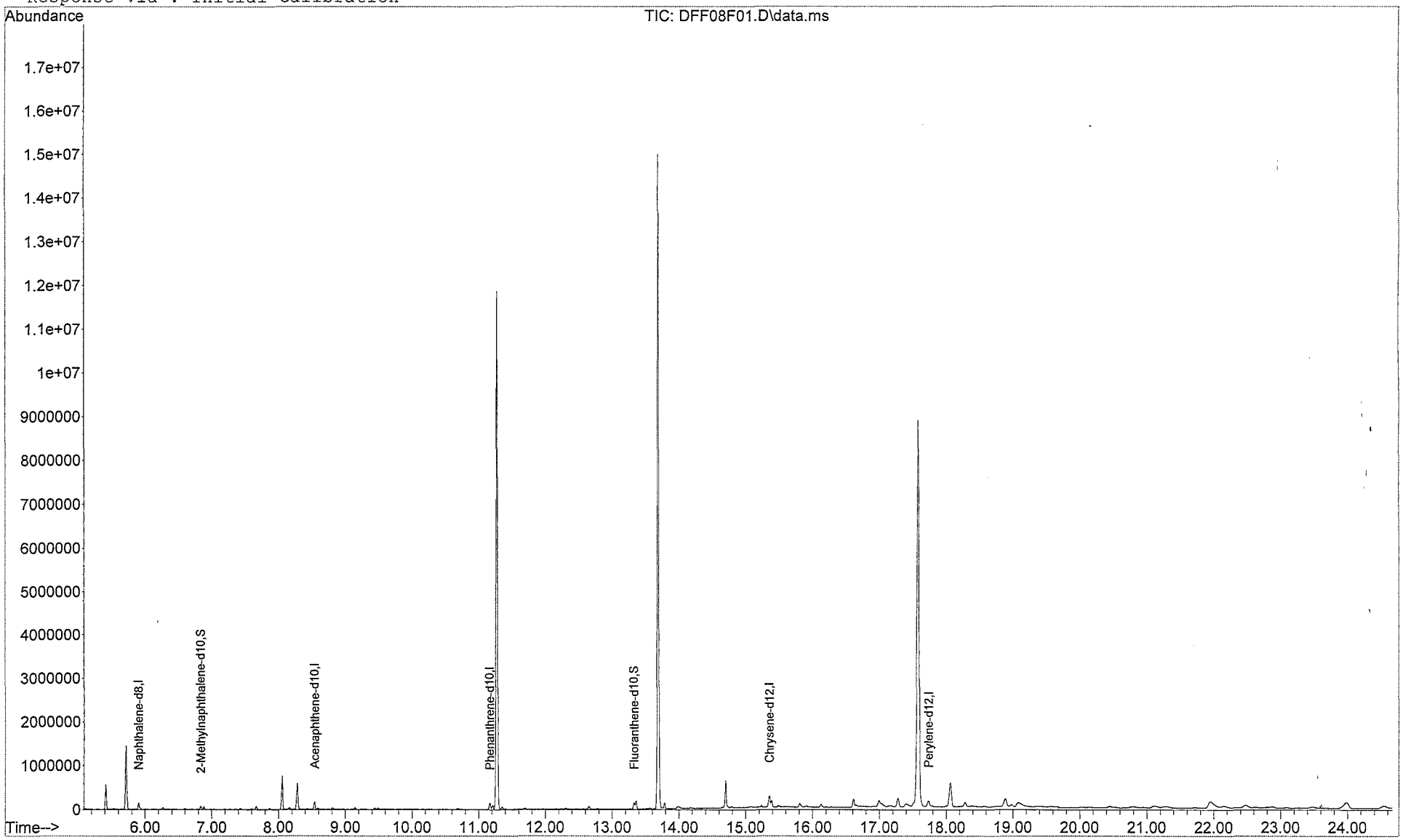
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF08F01.D
Acq On : 07/09/2015 15:46
Sample : 1513978001 F9KW7
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 13:58:01 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 13:38:19 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF08F01.D Vial: 8
Acq On : 07/09/2015 15:46 Operator: DJC
Sample : 1513978001 F9KW7 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 13:58:01 2015 Results File: DSOM_SIMJ2.RES

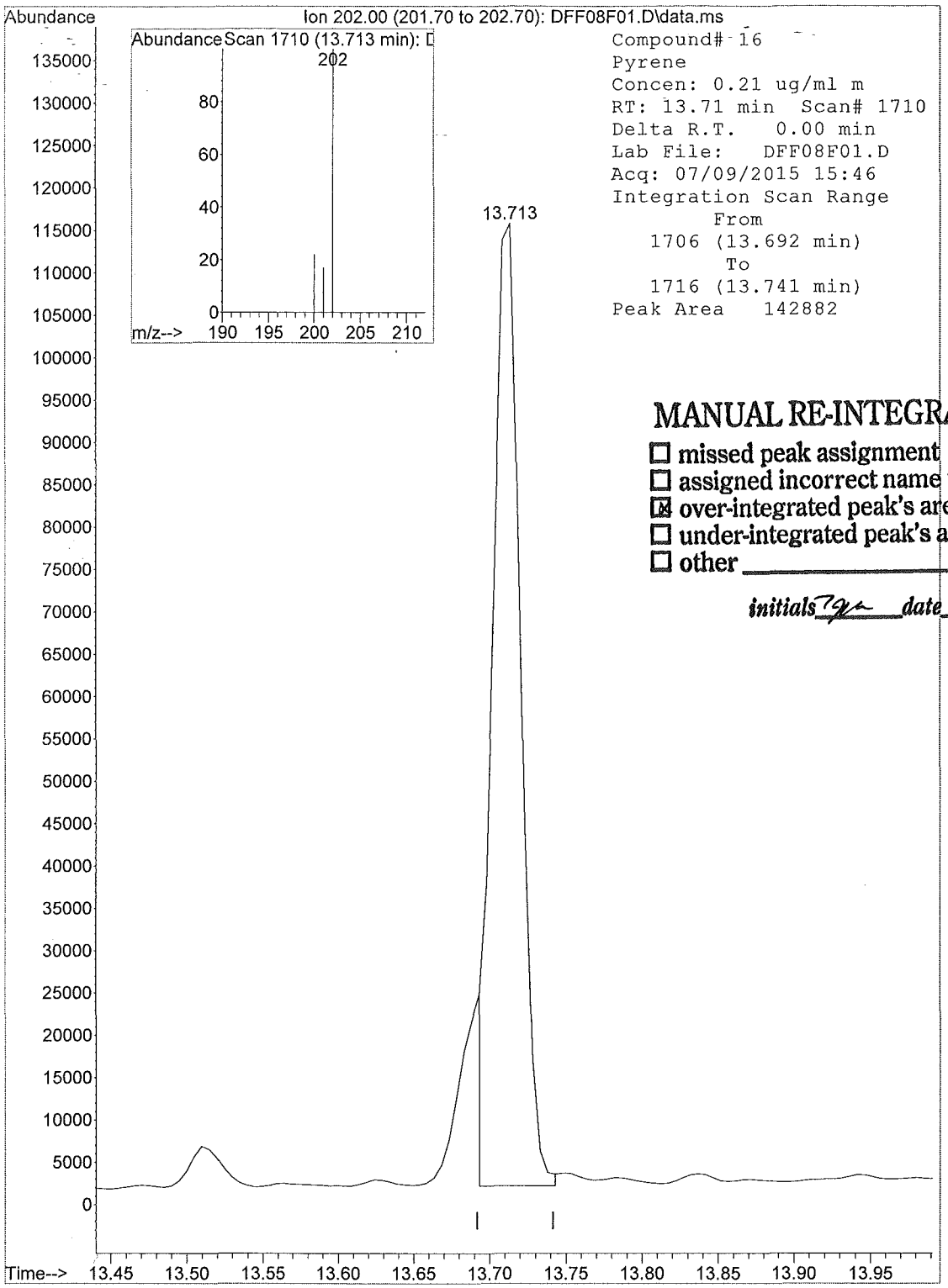
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	166846	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	119092	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	197711	0.40 ug/ml	
15) Chrysene-d12	15.35	240	219014	0.40 ug/ml	
19) Perylene-d12	17.73	264	241030	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	78107	0.290ug/mL	
13) Fluoranthene-d10	13.33	212	175457	0.325ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	24920	0.057ug/ml	95
4) 2-Methylnaphthalene	6.88	142	30167	0.108ug/ml	100
6) Acenaphthylene	8.30	152	36910	0.071ug/ml	88
7) Acenaphthene	8.59	153	16440	0.049ug/ml	97
8) Fluorene	9.49	166	20587	0.053ug/ml	98
10) Pentachlorophenol	10.85	266	1031	0.035ug/ml	100
11) Phenanthrene	11.21	178	66851	0.117ug/ml	96
12) Anthracene	11.30	178	41936	0.076ug/ml	91
14) Fluoranthene	13.36	202	149041	0.230ug/ml	93
16) Pyrene	13.71	202	142882	0.208ug/ml m	97 7.15.15
17) Benzo(a)anthracene	15.34	228	92072	0.158ug/ml	81
18) Chrysene	15.39	228	124881	0.202ug/ml	96
20) Benzo(b)fluoranthene	16.99	252	184562	0.246ug/ml	100
21) Benzo(k)fluoranthene	17.03	252	48388	0.062ug/ml m	99 7.15.15
22) Benzo(a)pyrene	17.62	252	98173	0.137ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.45	276	90437	0.144ug/ml	100
24) Dibenzo(a,h)anthracene	20.51	278	24879	0.036ug/ml	76
25) Benzo(g,h,i)perylene	21.29	276	68770	0.097ug/ml	52

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

: 00791

M A N U A L I N T E G R A T I O N FOR Pyrene



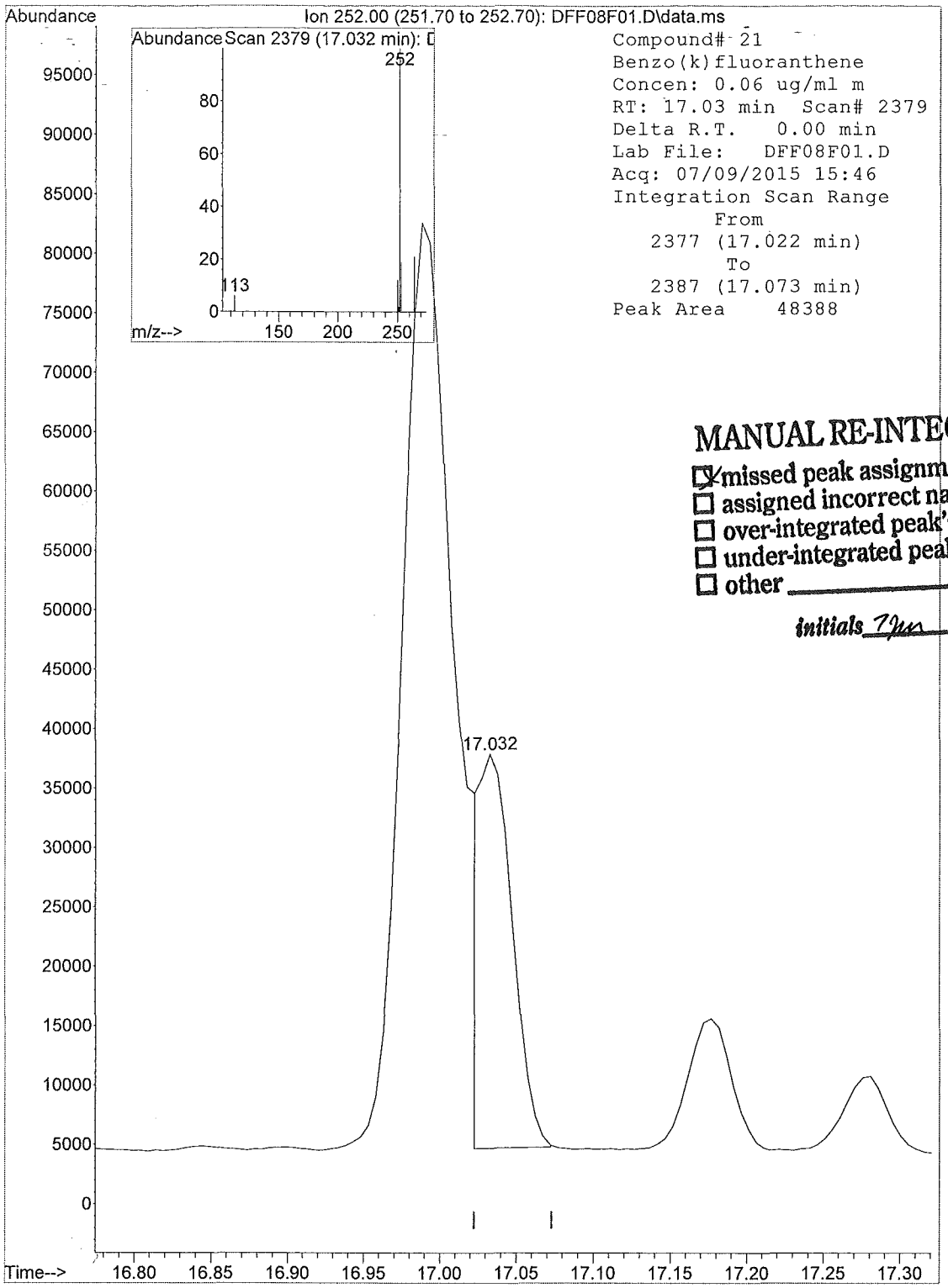
MANUAL RE-INTEGRATION

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

initials TQA *date* 7.15.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1513978001 F9KW7 . SOIL SIM

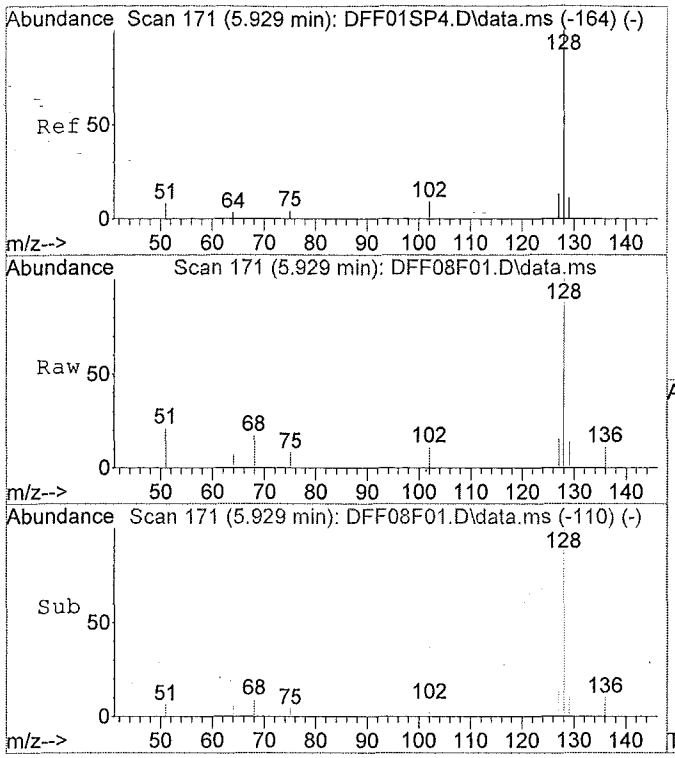
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

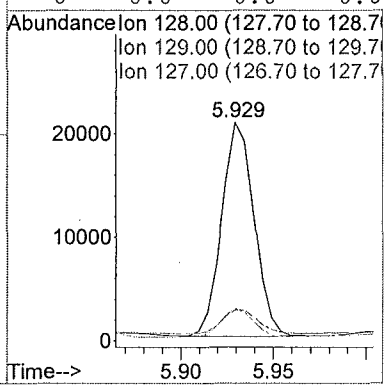
initials TJM date 7.15.15

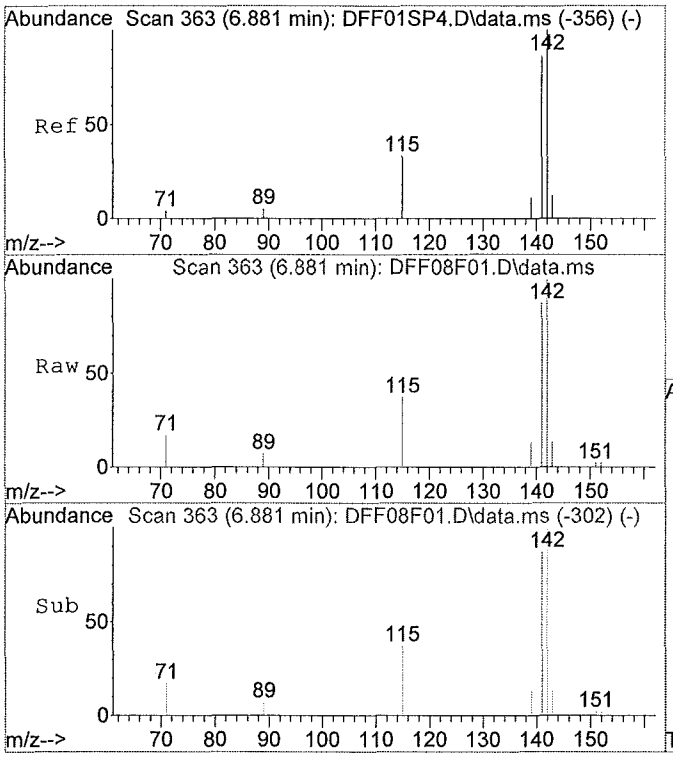


#2
Naphthalene
Concen: 0.06 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:128 Resp: 24920

Ion	Ratio	Lower	Upper
128	100		
129	12.2	0.0	0.0#
127	13.7	11.1	20.5
0	0.0	0.0	0.0

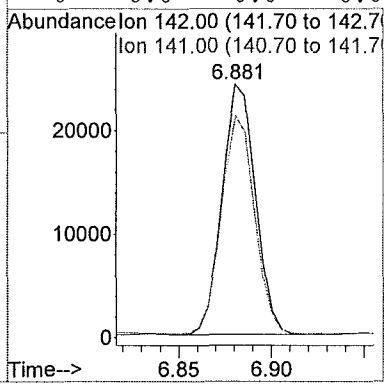


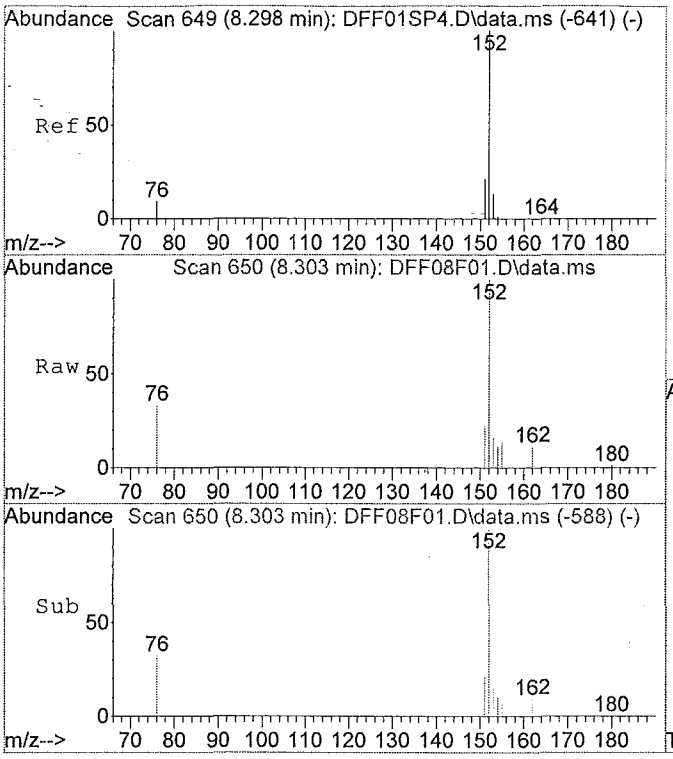


#4
2-Methylnaphthalene
Concen: 0.11 ug/ml
RT: 6.88 min Scan# 363
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:142 Resp: 30167

Ion	Ratio	Lower	Upper
142	100		
141	87.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

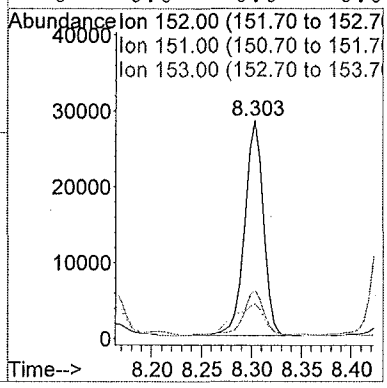


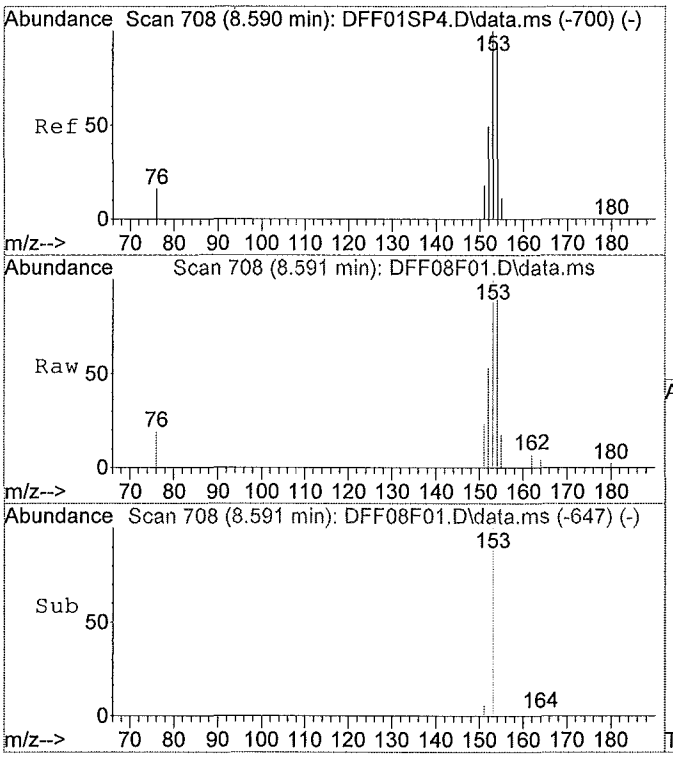


#6
Acenaphthylene
Concen: 0.07 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:152 Resp: 36910

Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.5	28.7
153	24.0	8.8	16.4#
0	0.0	0.0	0.0

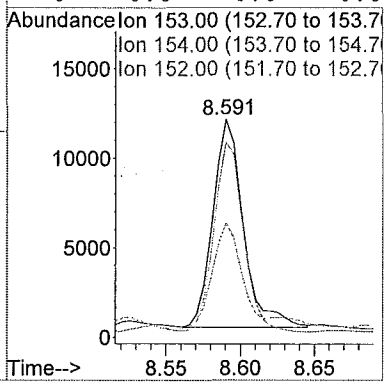


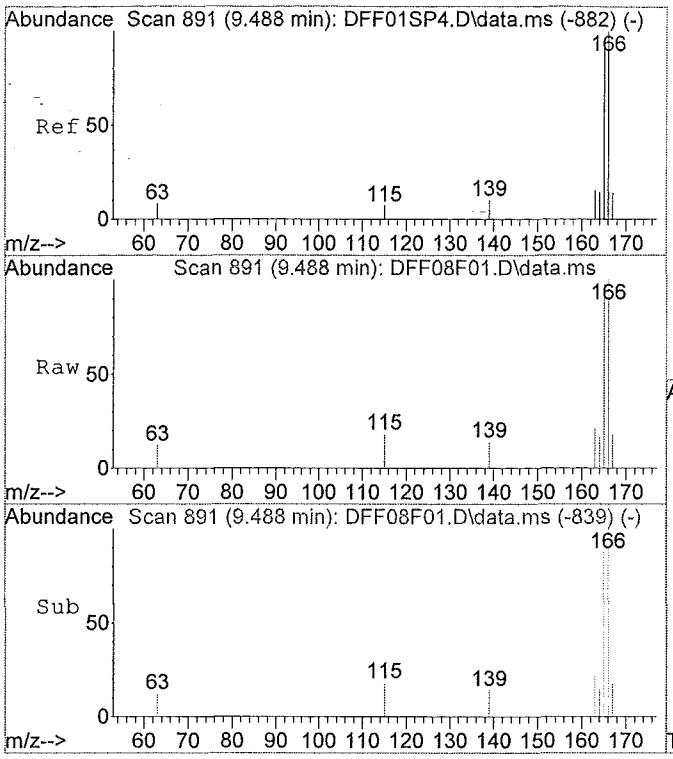


#7
Acenaphthene
Concen: 0.05 ug/ml
RT: 8.59 min Scan# 708
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:153 Resp: 16440

Ion	Ratio	Lower	Upper
153	100		
154	89.8	65.1	120.9
152	49.6	35.2	65.4
0	0.0	0.0	0.0

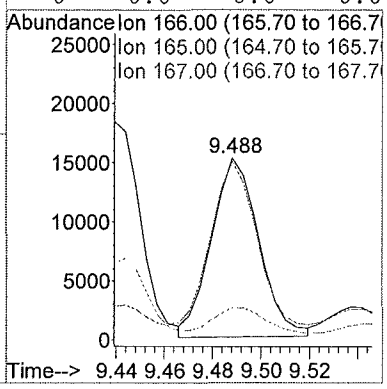


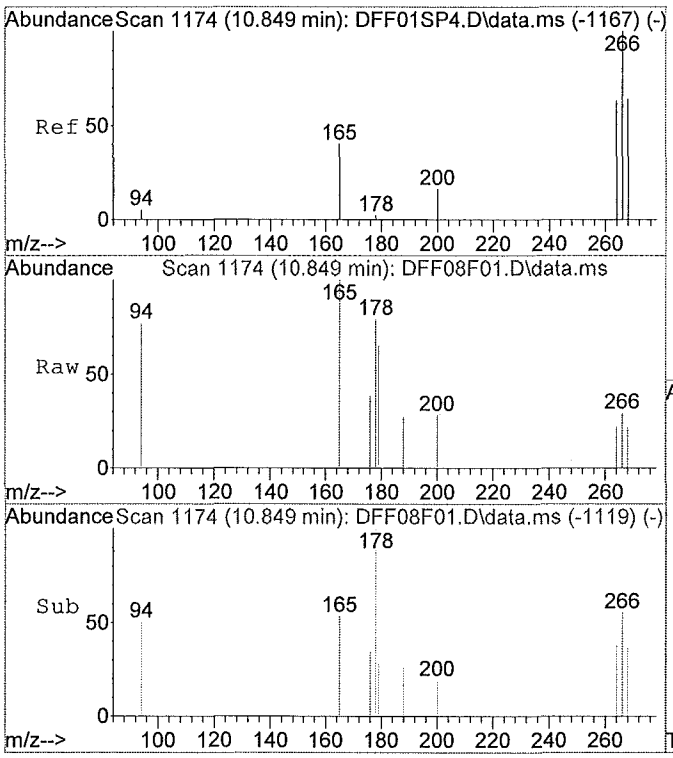


#8
Fluorene
Concen: 0.05 ug/ml
RT: 9.49 min Scan# 891
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:166 Resp: 20587

Ion	Ratio	Lower	Upper
166	100		
165	96.8	66.3	123.1
167	20.1	0.0	0.0#
0	0.0	0.0	0.0

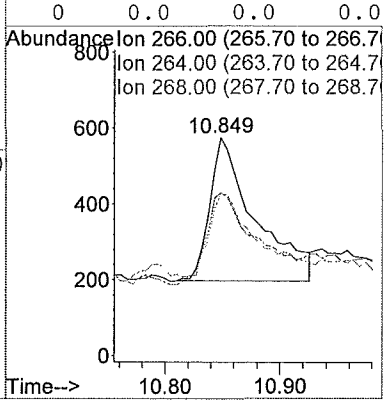


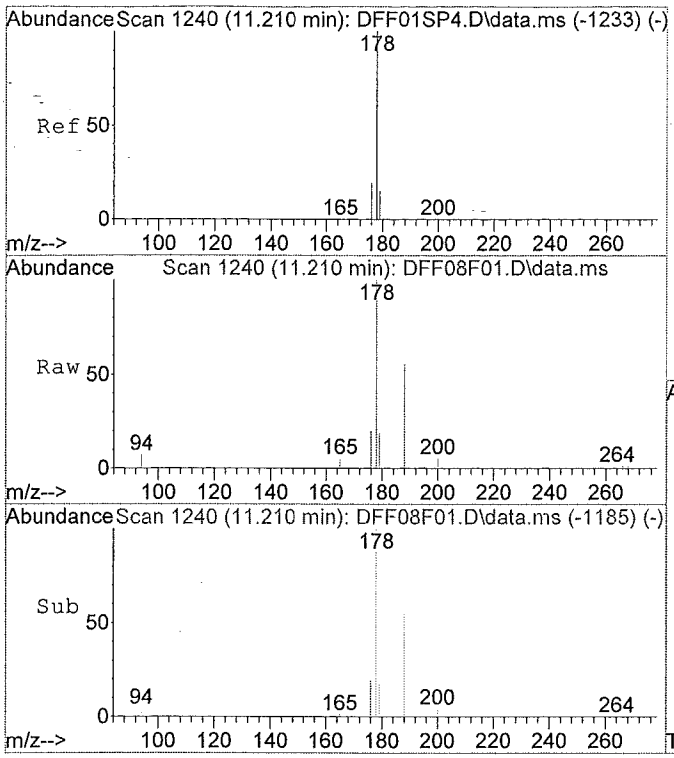


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 10.85 min Scan# 1174
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:266 Resp: 1031

Ion	Ratio	Lower	Upper
266	100		
264	70.9	0.0	0.0#
268	62.4	0.0	0.0#
0	0.0	0.0	0.0

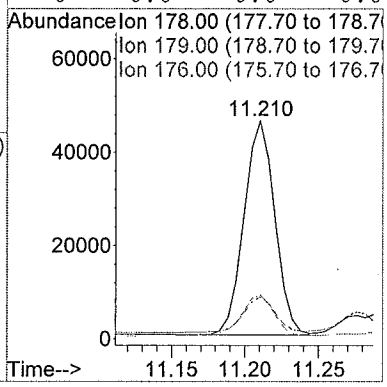


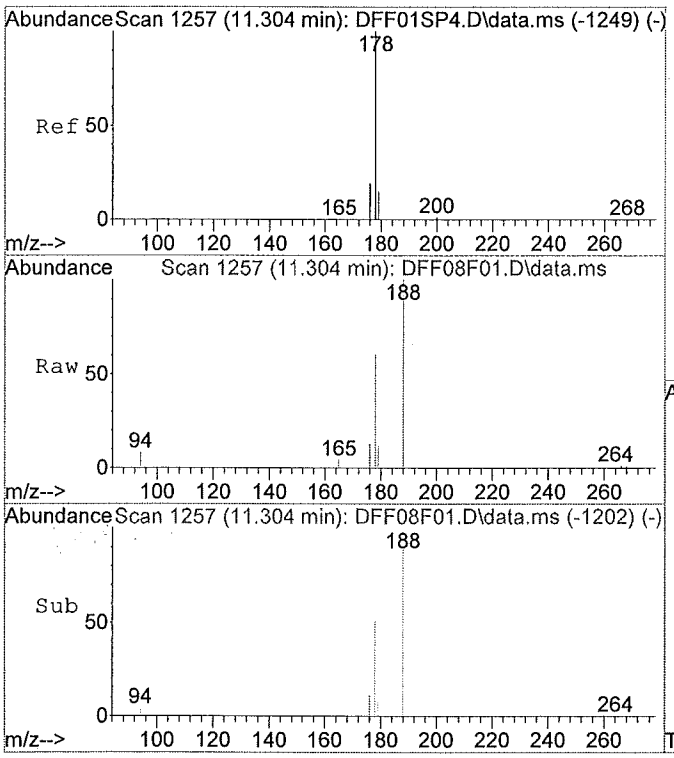


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:178 Resp: 66851

Ion	Ratio	Lower	Upper
178	100		
179	17.9	11.1	20.5
176	21.5	14.1	26.1
0	0.0	0.0	0.0

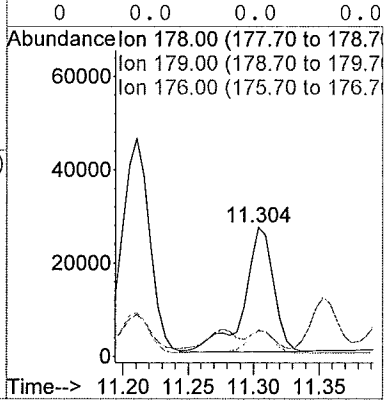


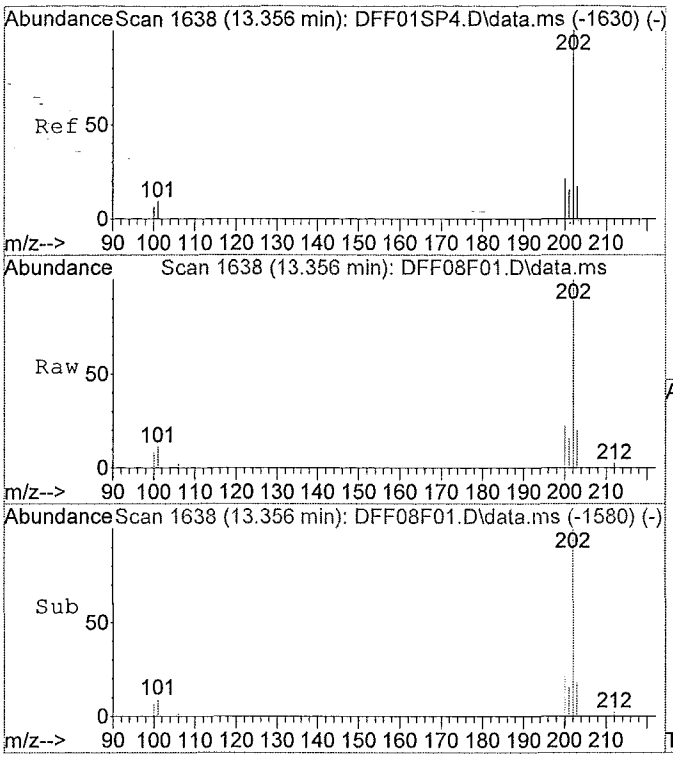


#12
Anthracene
Concen: 0.08 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:178 Resp: 41936

Ion	Ratio	Lower	Upper
178	100		
179	10.2	11.6	21.6#
176	18.2	13.9	25.7
0	0.0	0.0	0.0

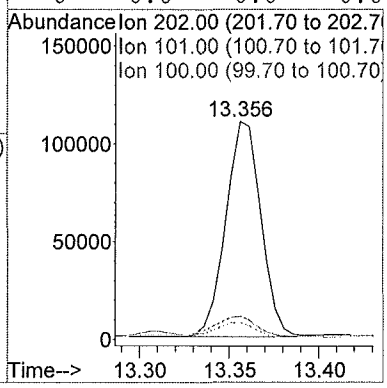


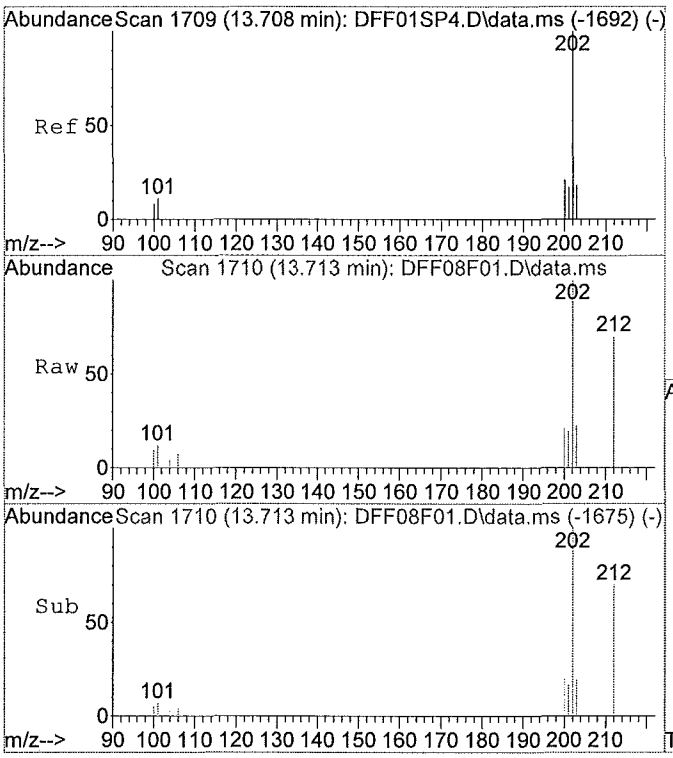


#14
Fluoranthene
Concen: 0.23 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:202 Resp: 149041

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	17.6
100	10.9	0.0	0.0#
0	0.0	0.0	0.0

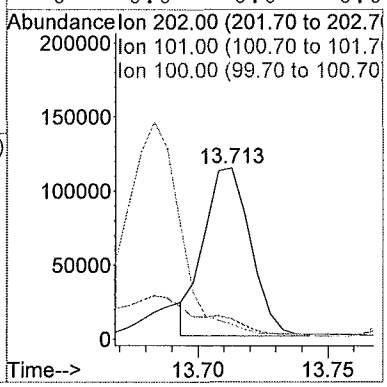


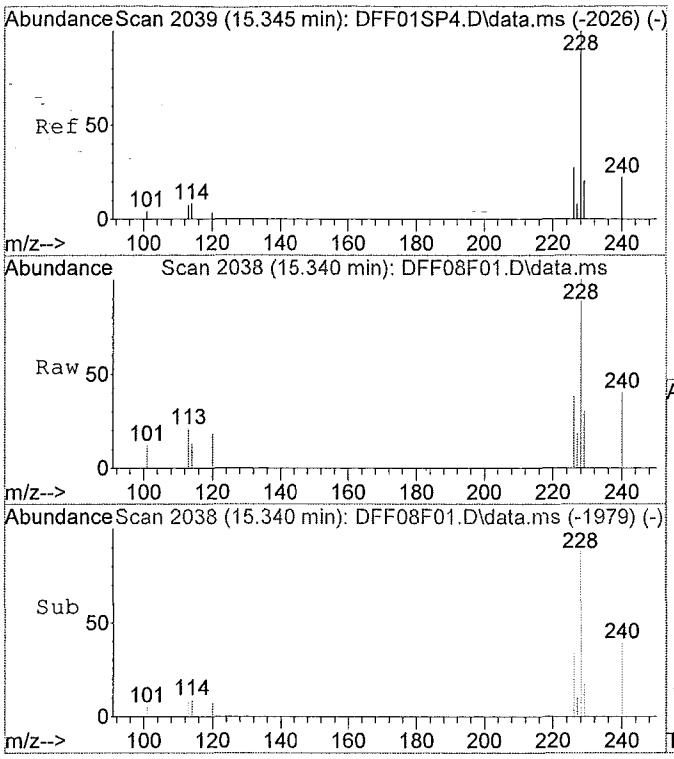


#16
Pyrene
Concen: 0.21 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:202 Resp: 142882

Ion	Ratio	Lower	Upper
202	100		
101	0.1	10.6	19.6#
100	0.1	9.4	17.4#
0	0.0	0.0	0.0

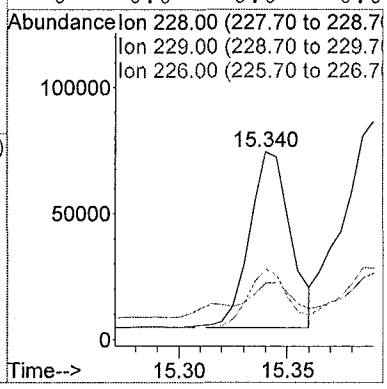


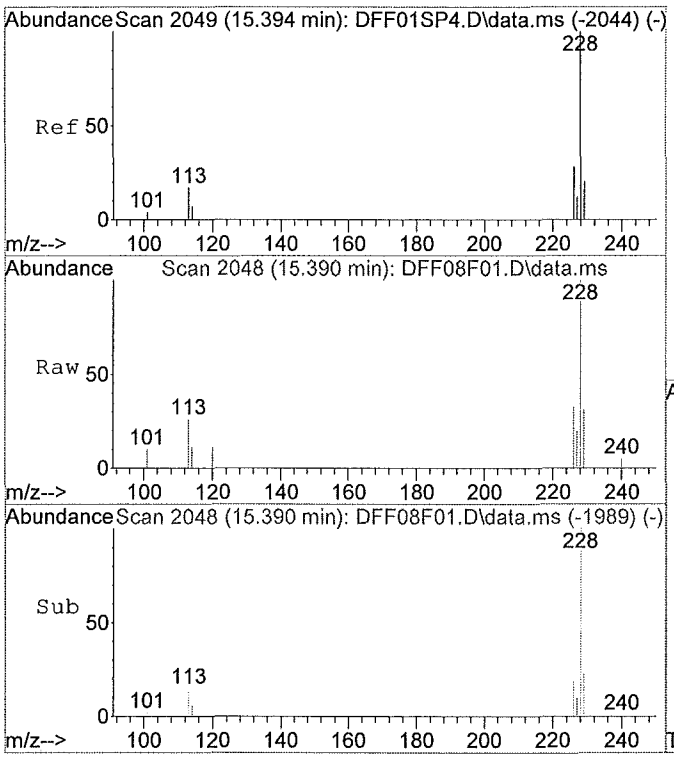


#17
Benzo(a)anthracene
Concen: 0.16 ug/ml
RT: 15.34 min Scan# 2038
Delta R.T. -0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:228 Resp: 92072

Ion	Ratio	Lower	Upper
228	100		
229	33.1	14.5	26.9#
226	33.4	18.5	34.3
0	0.0	0.0	0.0

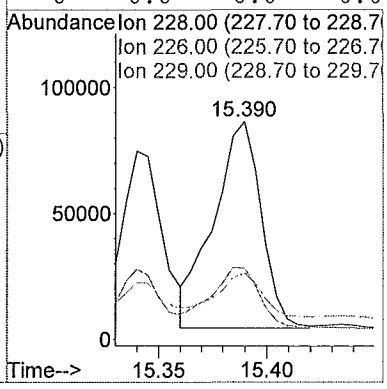


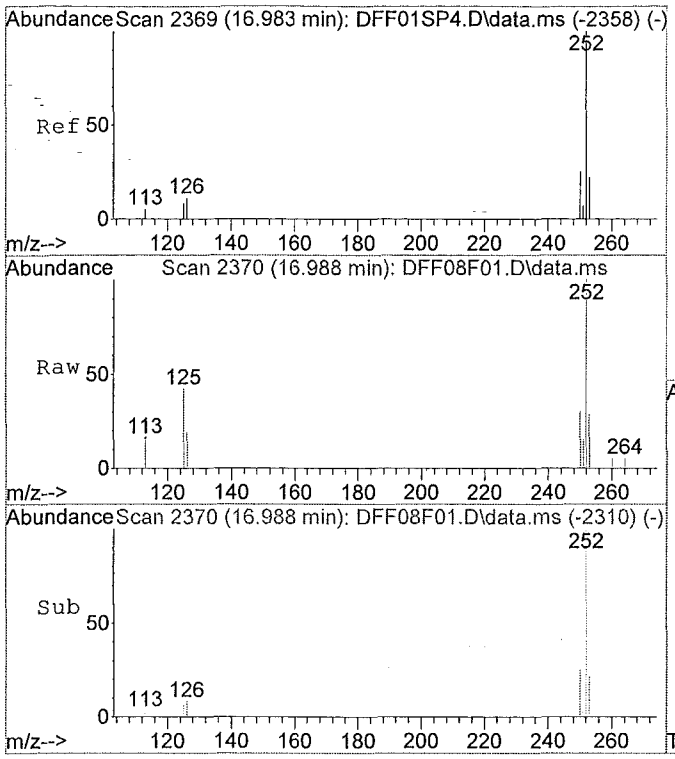


#18
Chrysene
Concen: 0.20 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:228 Resp: 124881

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

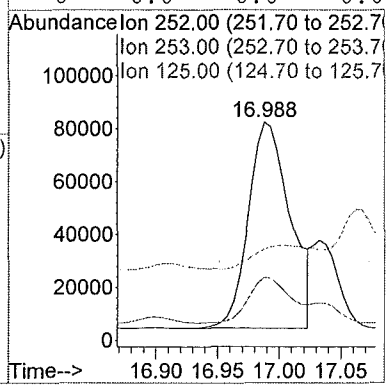


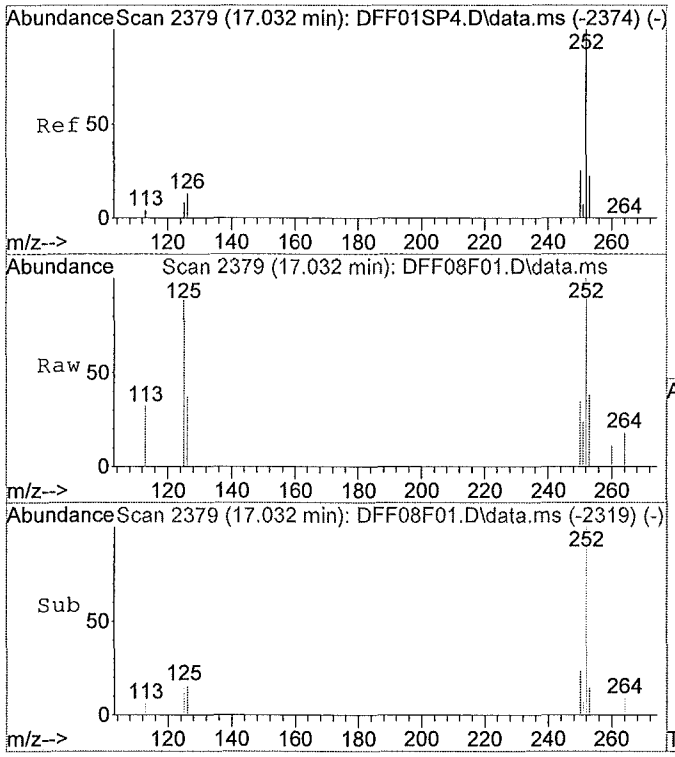


#20
Benzo(b)fluoranthene
Concen: 0.25 ug/ml
RT: 16.99 min Scan# 2370
Delta R.T. 0.01 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:252 Resp: 184562

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	16.3	0.0	0.0#
0	0.0	0.0	0.0

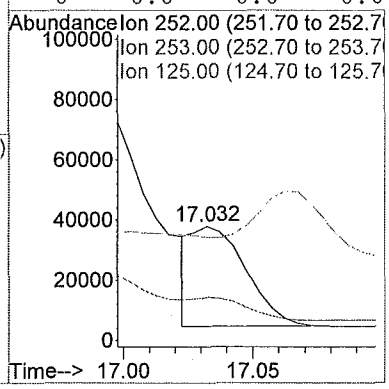


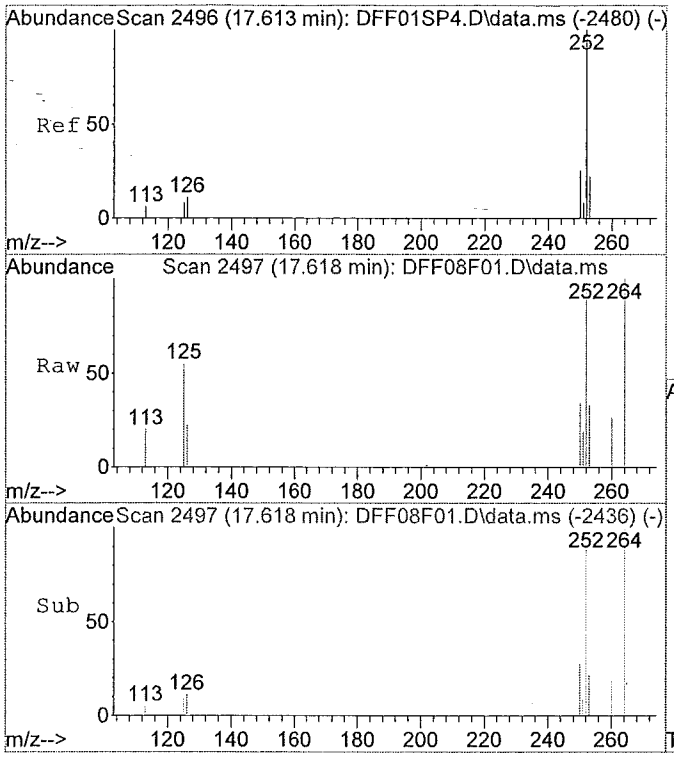


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.03 min Scan# 2379
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:252 Resp: 48388

Ion	Ratio	Lower	Upper
252	100		
253	83.9	15.0	27.8#
125	62.1	0.0	0.0#
0	0.0	0.0	0.0

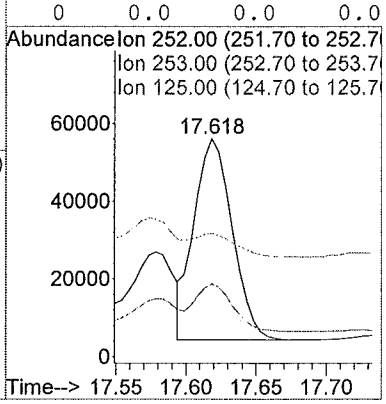


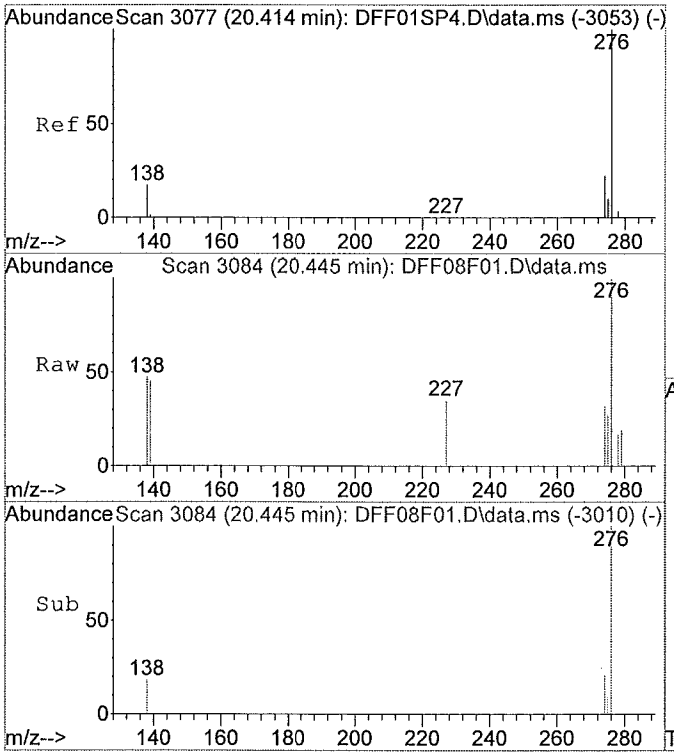


#22
Benzo(a)pyrene
Concen: 0.14 ug/ml
RT: 17.62 min Scan# 2497
Delta R.T. 0.00 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:252 Resp: 98173

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	11.7	0.0	0.0#
0	0.0	0.0	0.0

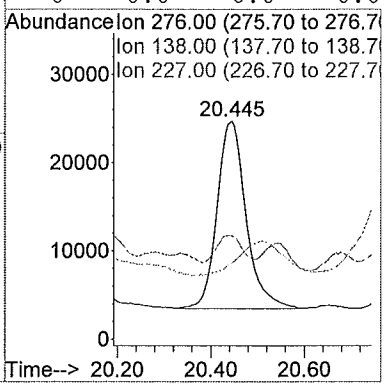


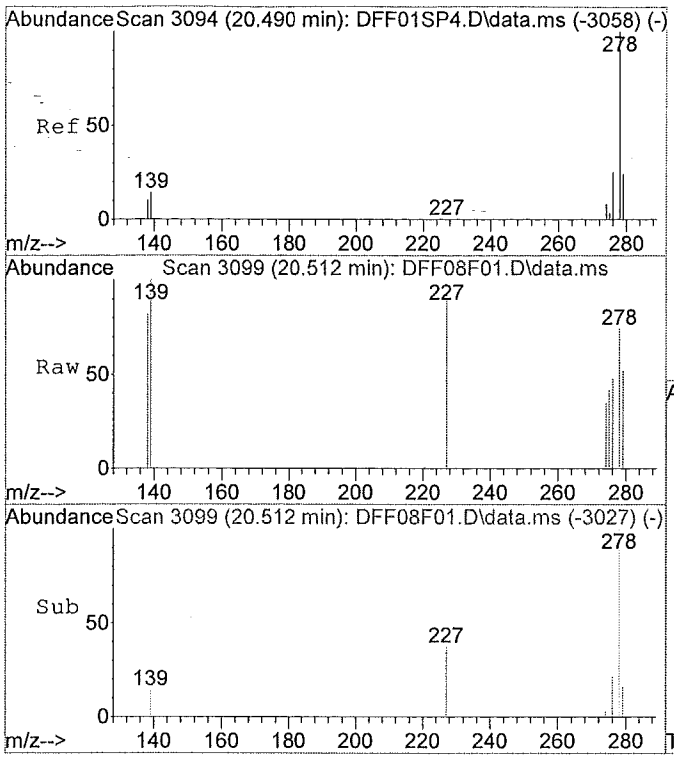


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.14 ug/ml
RT: 20.45 min Scan# 3084
Delta R.T. 0.03 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:276 Resp: 90437

Ion	Ratio	Lower	Upper
276	100		
138	12.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

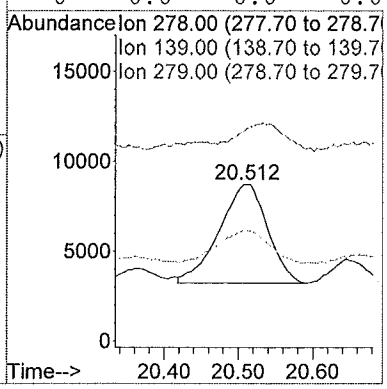


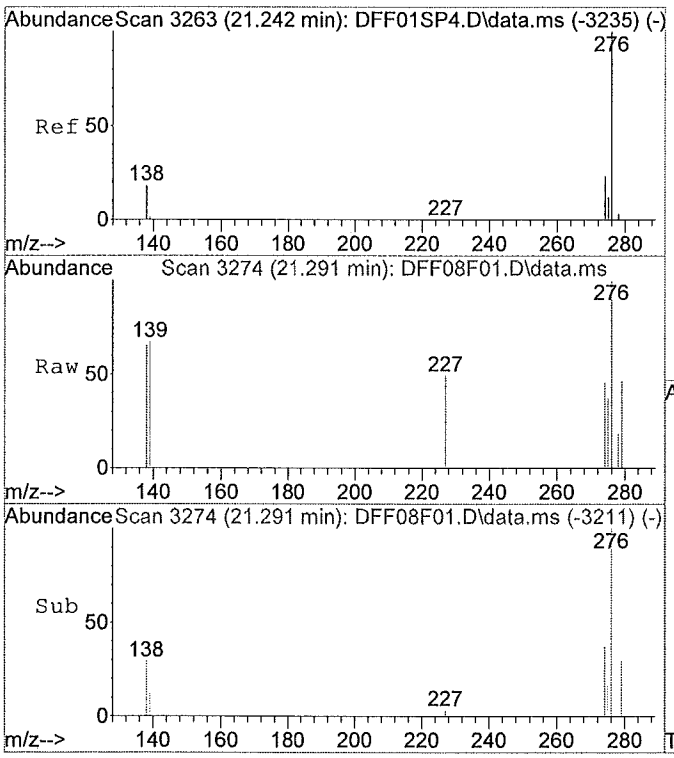


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.51 min Scan# 3099
Delta R.T. 0.02 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:278 Resp: 24879

Ion	Ratio	Lower	Upper
278	100		
139	27.5	0.0	0.0#
279	33.8	15.8	29.3#
0	0.0	0.0	0.0

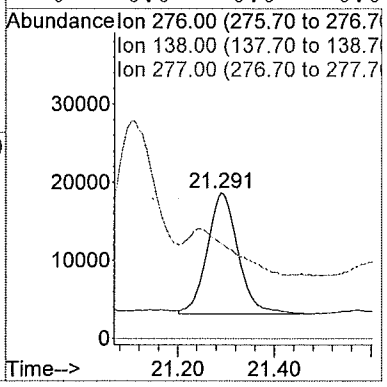




#25
Benzo(g,h,i)perylene
Concen: 0.10 ug/ml
RT: 21.29 min Scan# 3274
Delta R.T. 0.05 min
Lab File: DFF08F01.D
Acq: 07/09/2015 15:46

Tgt Ion:276 Resp: 68770

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.

F9KW8

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT04F02

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

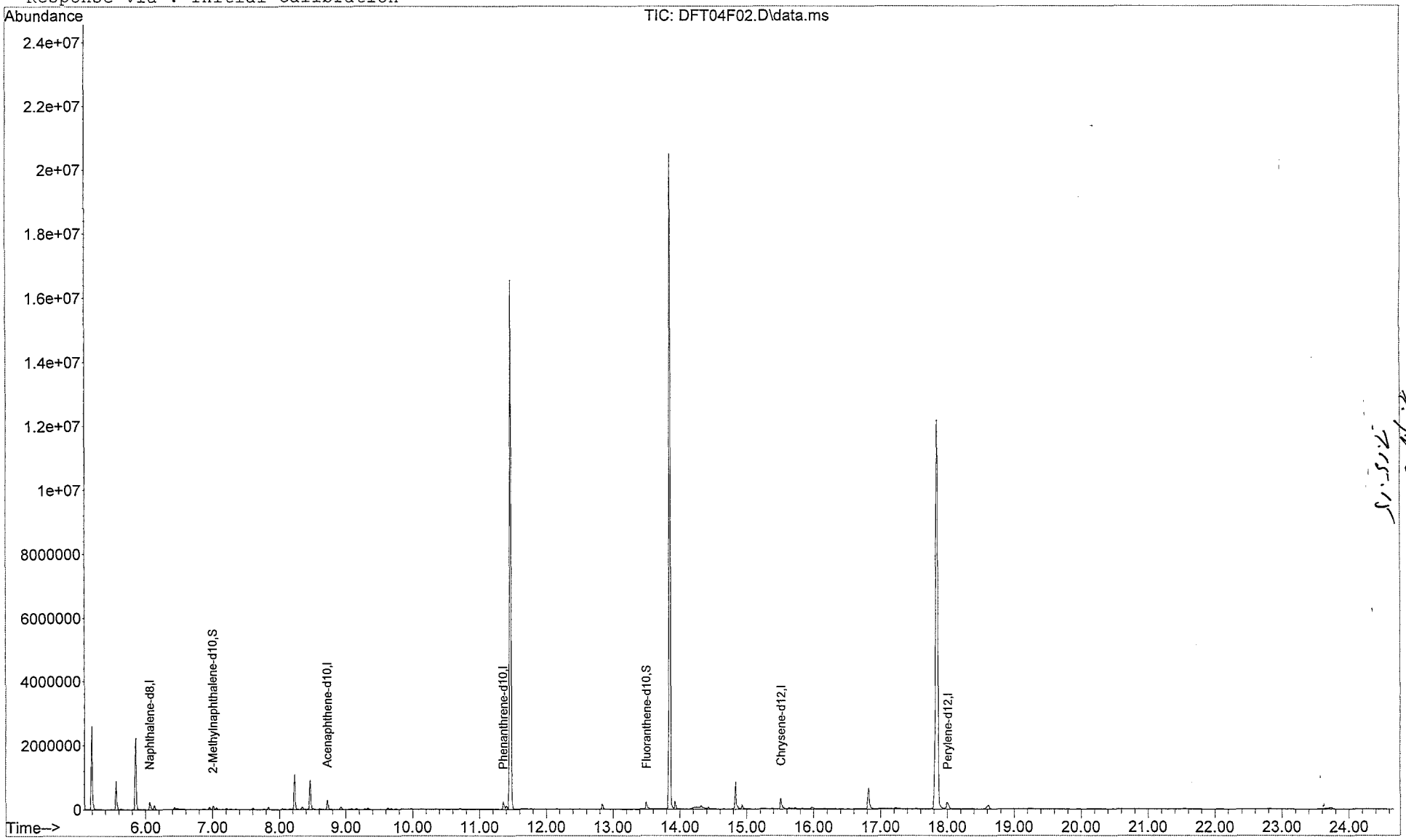
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.5	J
91-57-6	2-Methylnaphthalene	2.3	J
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	1.1	J
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	3.6	J
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	1.1	J
129-00-0	Pyrene	1.3	J
56-55-3	Benzo(a)anthracene	0.80	J
218-01-9	Chrysene	1.2	J
205-99-2	Benzo(b)fluoranthene	1.2	J
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT04F02.D Vial: 4
Acq On : 06/04/2015 14:32 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 04 14:56:51 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

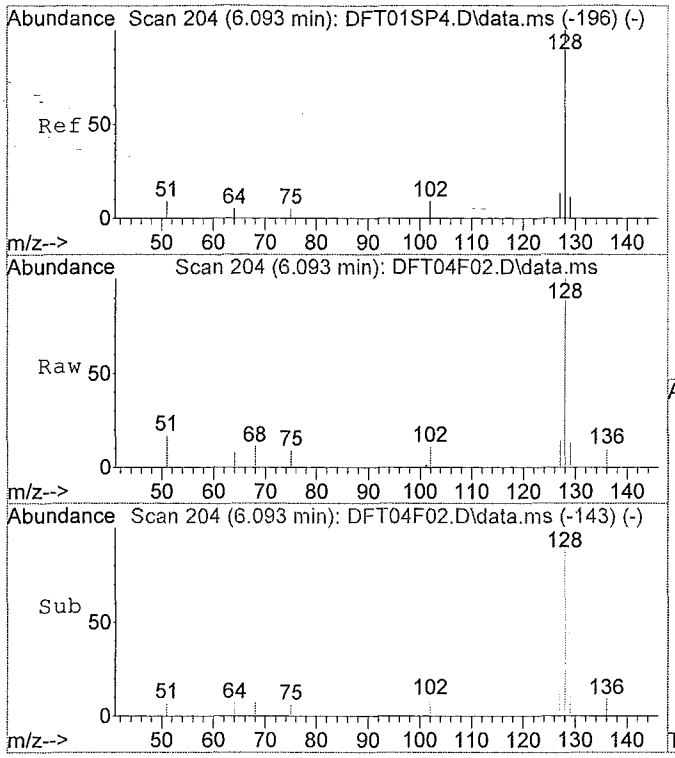
Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT04F02.D Vial: 4
Acq On : 06/04/2015 14:32 Operator: DJC
Sample : 1513978002 F9KW8 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 04 14:56:51 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	272156	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	196633	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	347594	0.40 ug/ml
15) Chrysene-d12	15.51	240	358065	0.40 ug/ml
19) Perylene-d12	18.01	264	386722	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	119297	0.272ug/mL
13) Fluoranthene-d10	13.50	212	258955	0.272ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	27706	0.039ug/ml	94
4) 2-Methylnaphthalene	7.05	142	28126	0.062ug/ml	98
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.68	166	18396	0.029ug/ml	94
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	95437	0.095ug/ml	98
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	32240	0.028ug/ml	97
16) Pyrene	13.88	202	38552	0.034ug/ml	65
17) Benzo(a)anthracene	15.50	228	20540	0.022ug/ml	91
18) Chrysene	15.55	228	31853	0.032ug/ml	93
20) Benzo(b)fluoranthene	17.22	252	40195	0.033ug/ml	96
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	

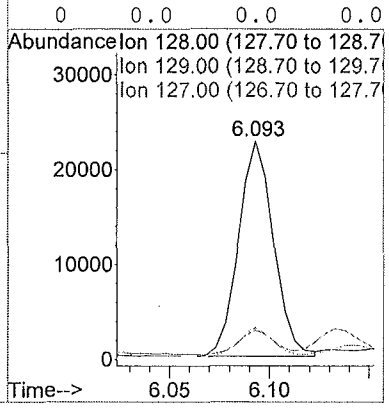
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

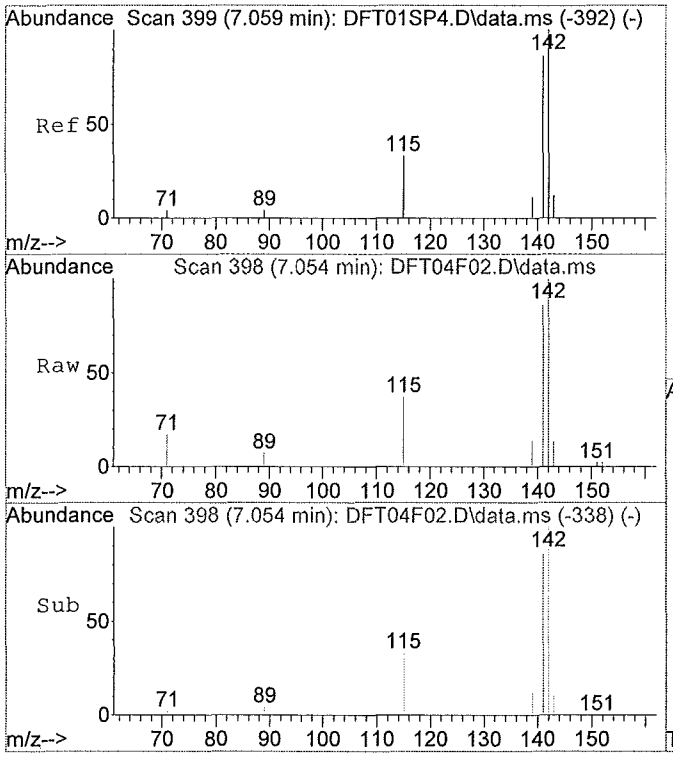


#2
Naphthalene
Concen: 0.04 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:128 Resp: 27706

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	0.0#
127	13.3	11.1	20.5
0	0.0	0.0	0.0

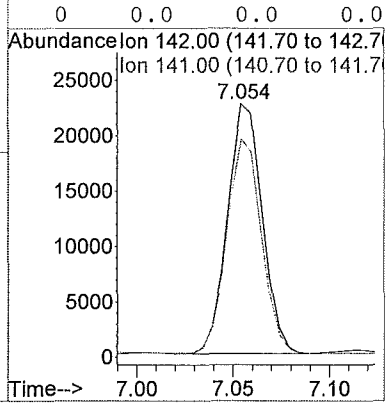


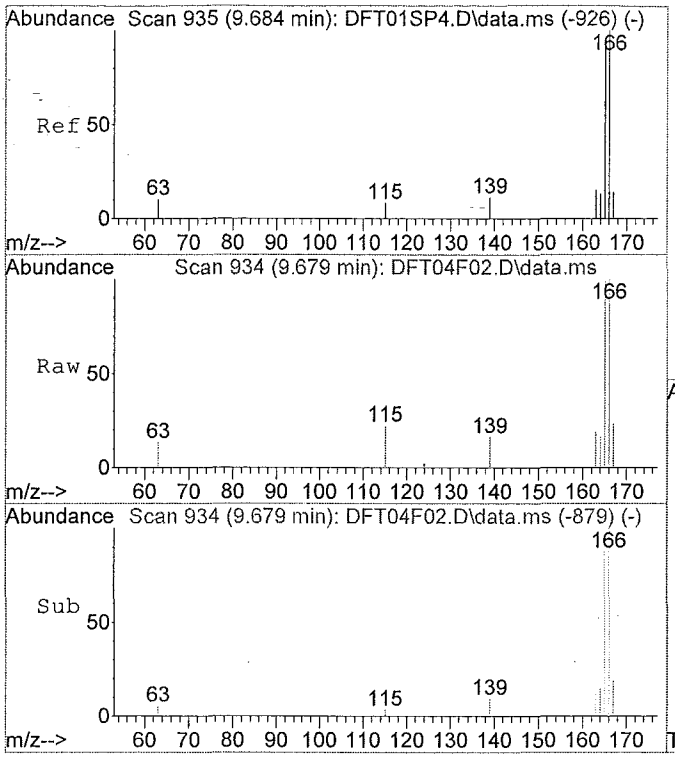


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:142 Resp: 28126

Ion	Ratio	Lower	Upper
142	100		
141	85.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

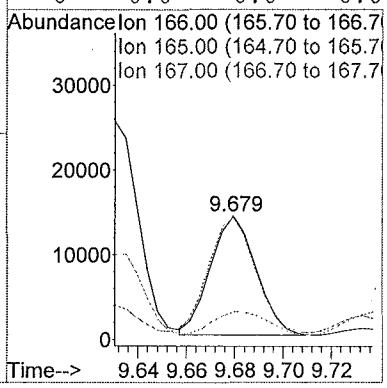


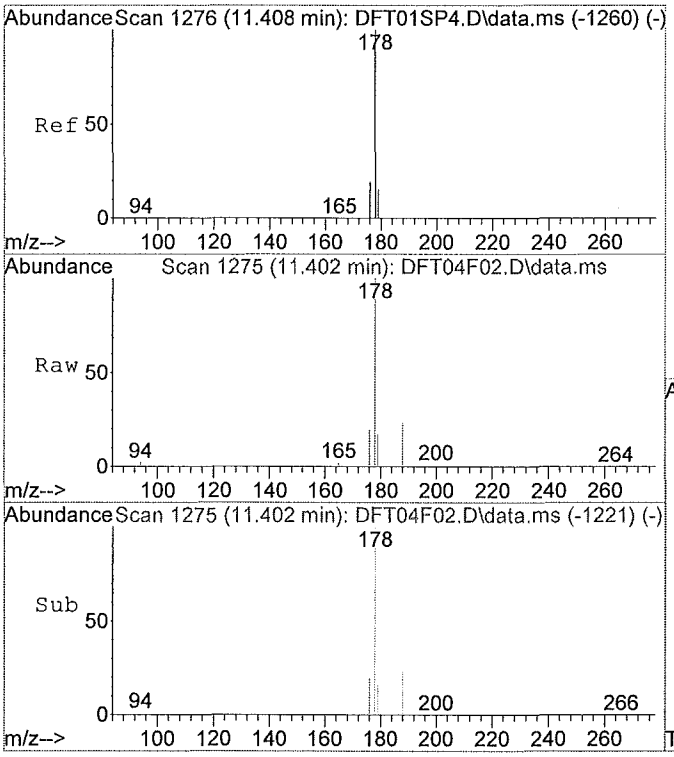


#8
Fluorene
Concen: 0.03 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:166 Resp: 18396

Ion	Ratio	Lower	Upper
166	100		
165	100.2	66.3	123.1
167	23.4	0.0	0.0#
0	0.0	0.0	0.0

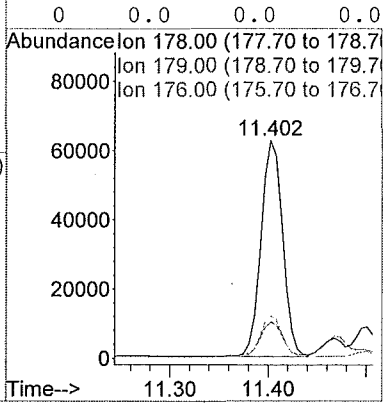


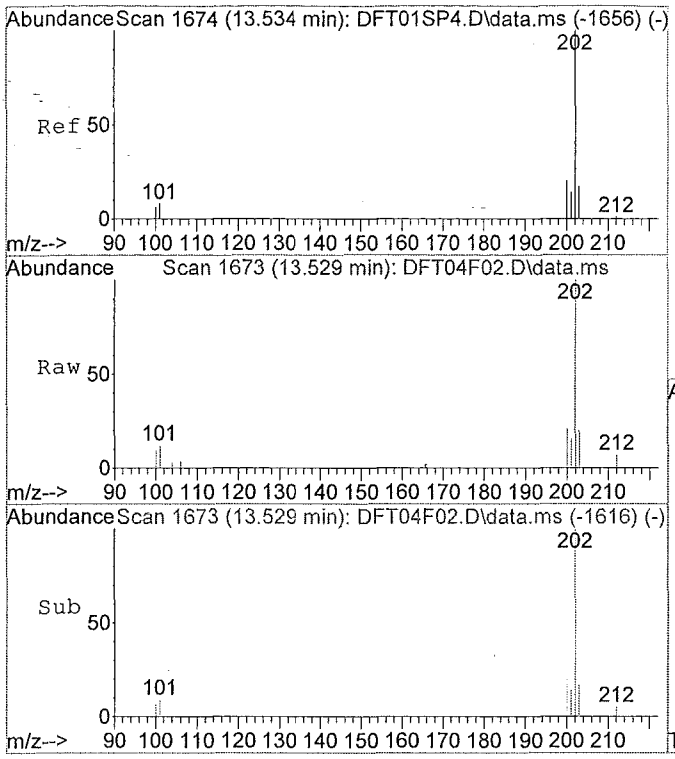


#11
Phenanthrene
Concen: 0.10 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:178 Resp: 95437

Ion	Ratio	Lower	Upper
178	100		
179	16.9	11.1	20.5
176	19.7	14.1	26.1
0	0.0	0.0	0.0

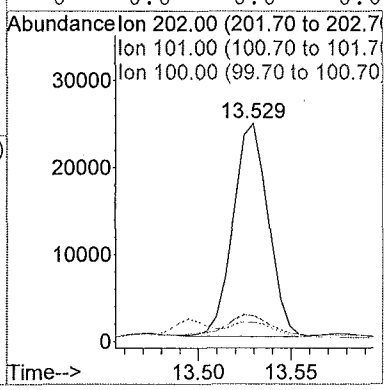


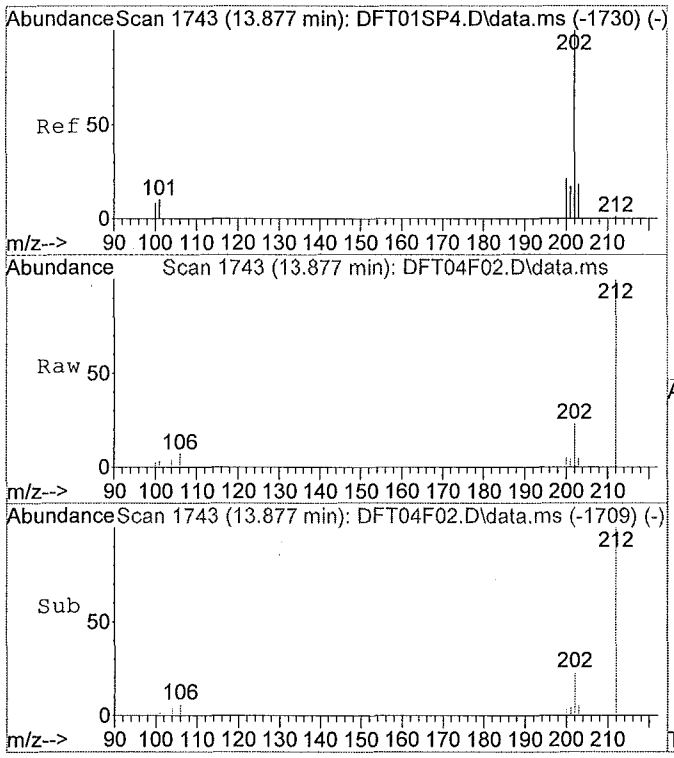


#14
Fluoranthene
Concen: 0.03 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:202 Resp: 32240

Ion	Ratio	Lower	Upper
202	100		
101	14.6	9.4	17.6
100	8.9	0.0	0.0#
0	0.0	0.0	0.0

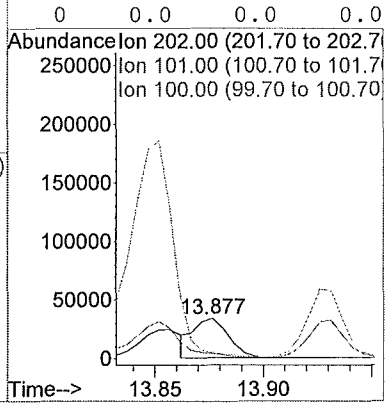


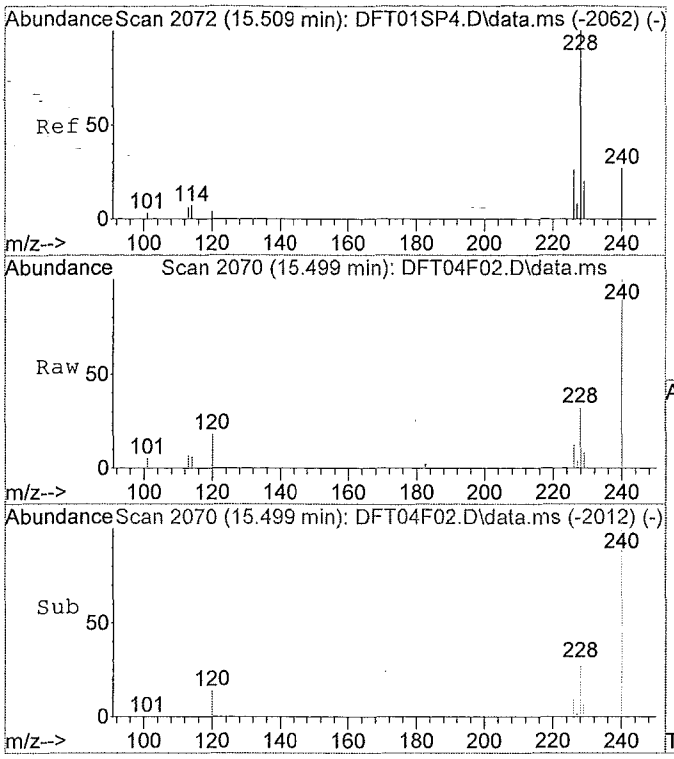


#16
Pyrene
Concen: 0.03 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:202 Resp: 38552

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

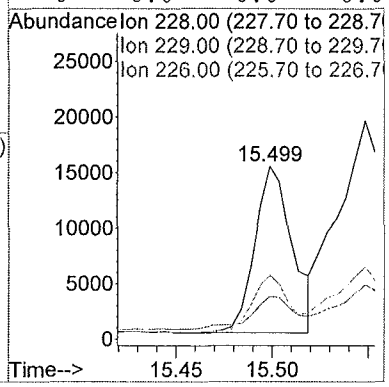


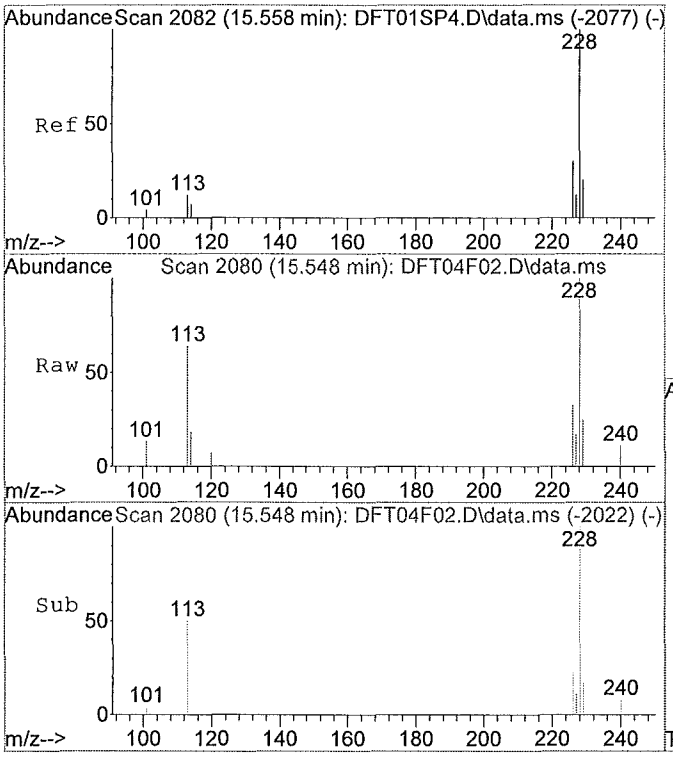


#17
Benzo(a)anthracene
Concen: 0.02 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:228 Resp: 20540

Ion	Ratio	Lower	Upper
228	100		
229	24.0	14.5	26.9
226	32.0	18.5	34.3
0	0.0	0.0	0.0

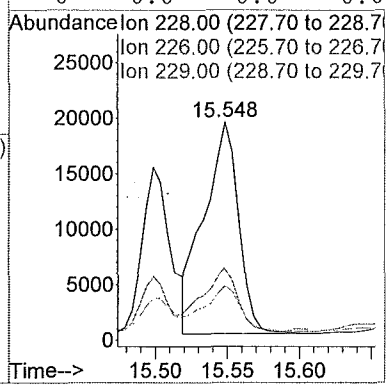


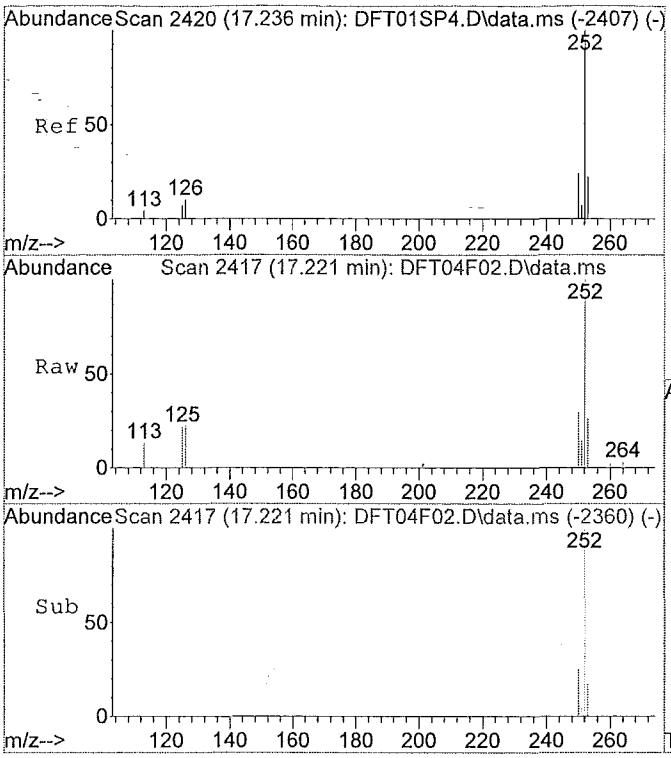


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:228 Resp: 31853

Ion	Ratio	Lower	Upper
228	100		
226	32.6	19.7	36.7
229	23.6	14.5	26.9
0	0.0	0.0	0.0

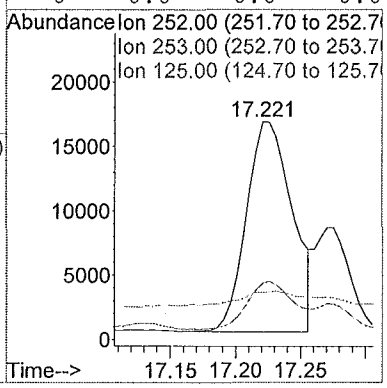




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFT04F02.D
Acq: 06/04/2015 14:32

Tgt Ion:252 Resp: 40195

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.3	28.3
125	8.4	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:

F9KW9

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT05F03

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

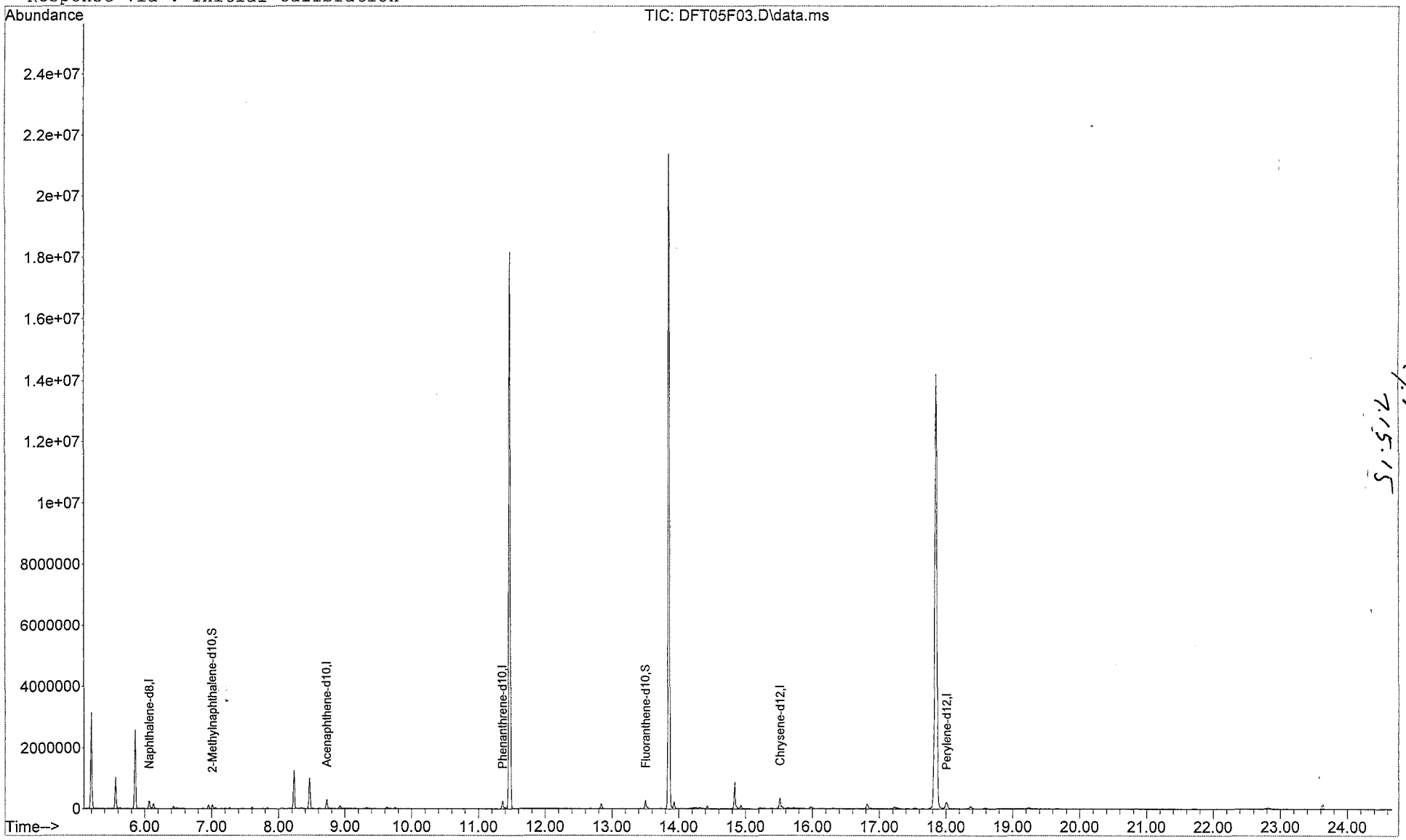
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.4	J
91-57-6	2-Methylnaphthalene	1.5	J
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.9	U
85-01-8	Phenanthrene	1.1	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	1.5	J
129-00-0	Pyrene	1.7	J
56-55-3	Benzo(a)anthracene	1.5	J
218-01-9	Chrysene	1.8	J
205-99-2	Benzo(b)fluoranthene	2.3	J
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	3.9	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT05F03.D Vial: 5
Acq On : 06/04/2015 15:02 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 06:54:09 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



2/15/15

Quantitation Report

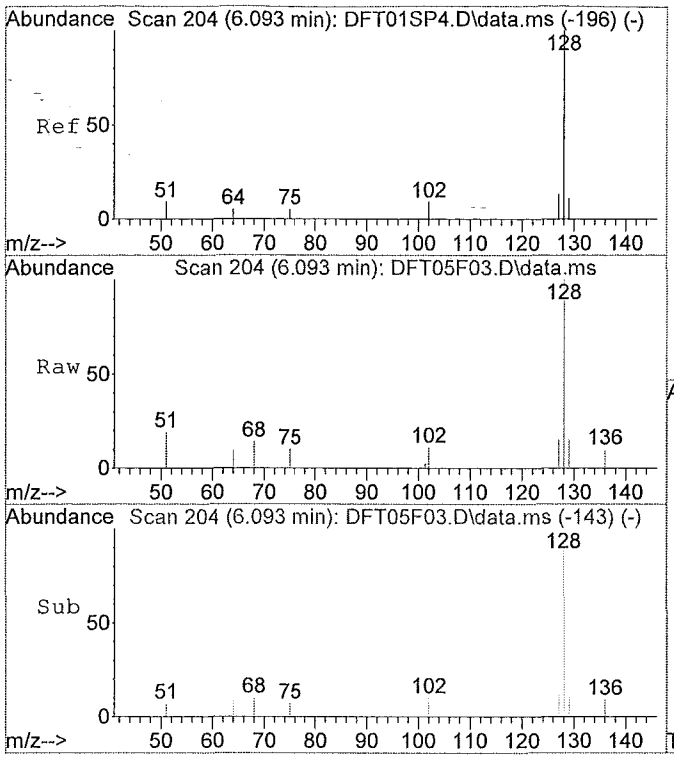
Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT05F03.D Vial: 5
Acq On : 06/04/2015 15:02 Operator: DJC
Sample : 1513978003 F9KW9 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 06:54:09 2015 Results File: DSOM_SIMJ2.RES

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	280982	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	204668	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	368788	0.40 ug/ml
15) Chrysene-d12	15.51	240	374088	0.40 ug/ml
19) Perylene-d12	18.01	264	407092	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	137987	0.304ug/mL
13) Fluoranthene-d10	13.50	212	300229	0.298ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	25291	0.035ug/ml	94
4) 2-Methylnaphthalene	7.05	142	17503	0.037ug/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	11.40	178	30145	0.028ug/ml	97
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	47052	0.039ug/ml	92
16) Pyrene	13.88	202	49144	0.042ug/ml	65
17) Benzo(a)anthracene	15.50	228	37248	0.037ug/ml	89
18) Chrysene	15.55	228	48101	0.046ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	74665	0.059ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.89	252	38632	0.032ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	35542	0.033ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

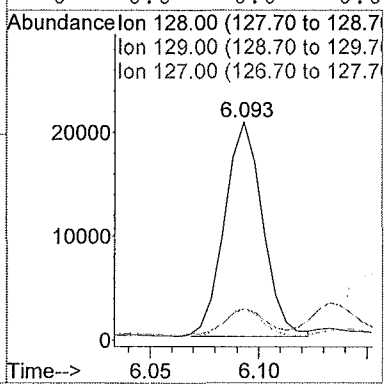
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

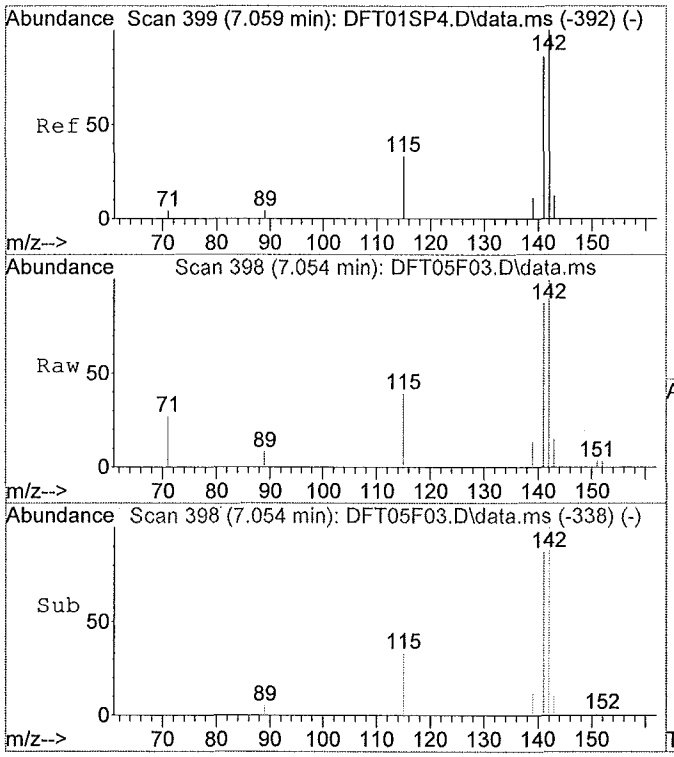


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:128 Resp: 25291

Ion	Ratio	Lower	Upper
128	100		
129	12.9	0.0	0.0#
127	13.3	11.1	20.5
0	0.0	0.0	0.0

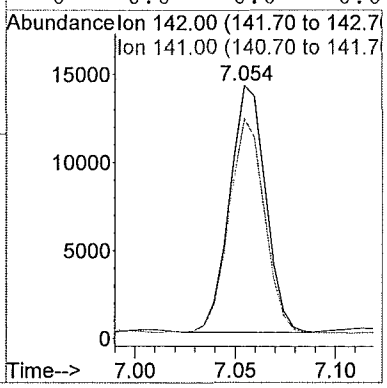


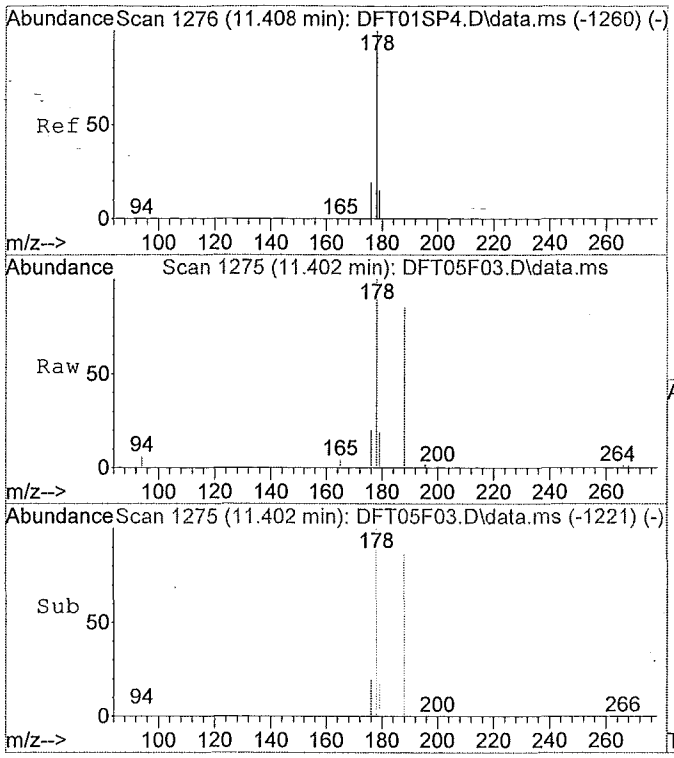


#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:142 Resp: 17503

Ion	Ratio	Lower	Upper
142	100		
141	85.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

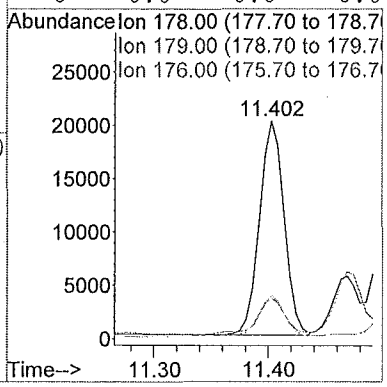


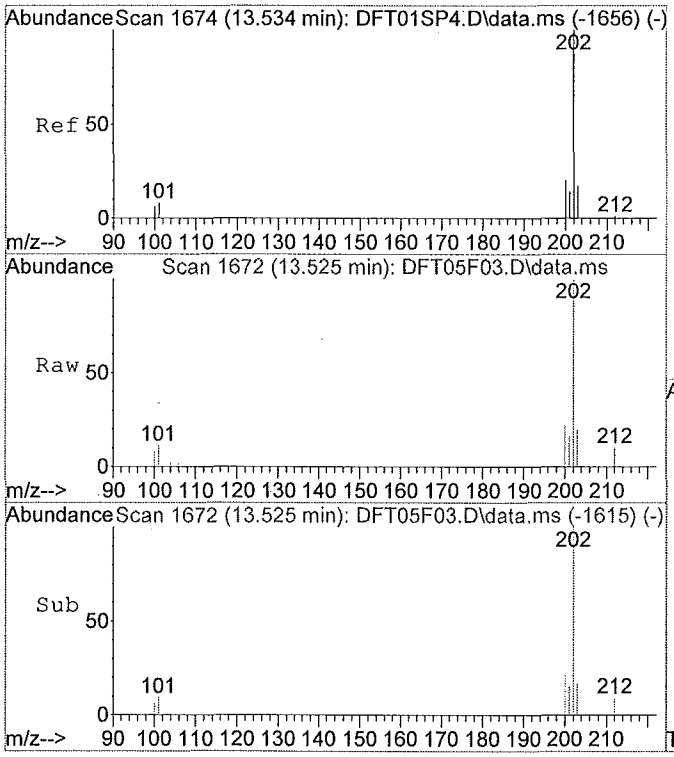


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:178 Resp: 30145

Ion	Ratio	Lower	Upper
178	100		
179	19.0	11.1	20.5
176	19.9	14.1	26.1
0	0.0	0.0	0.0

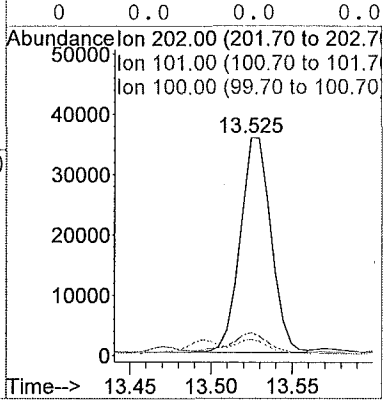


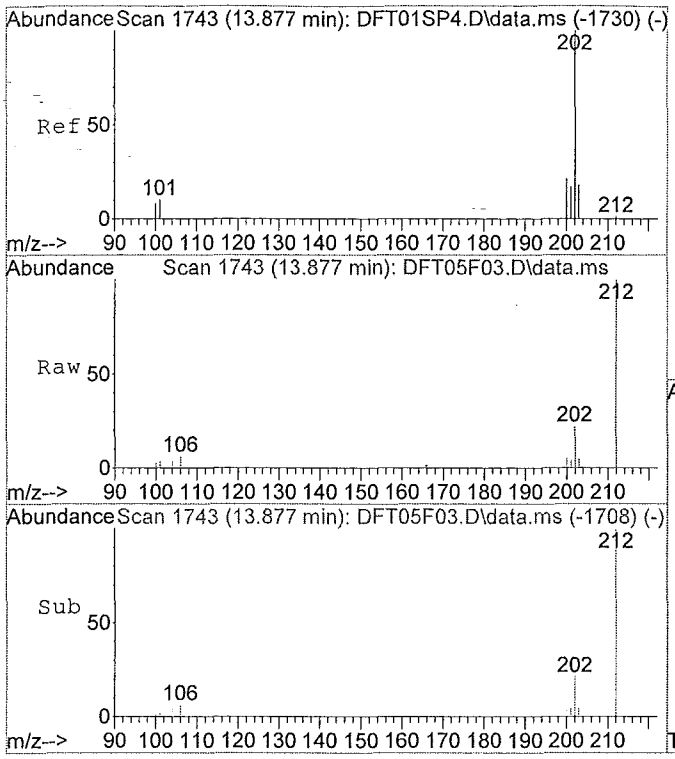


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:202 Resp: 47052

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	17.6
100	6.9	0.0	0.0#
0	0.0	0.0	0.0

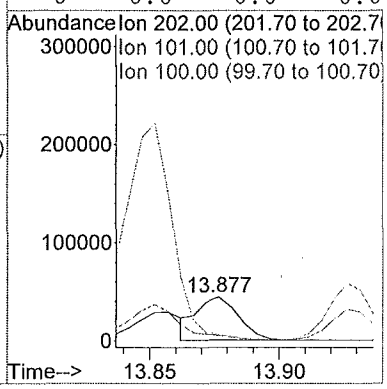


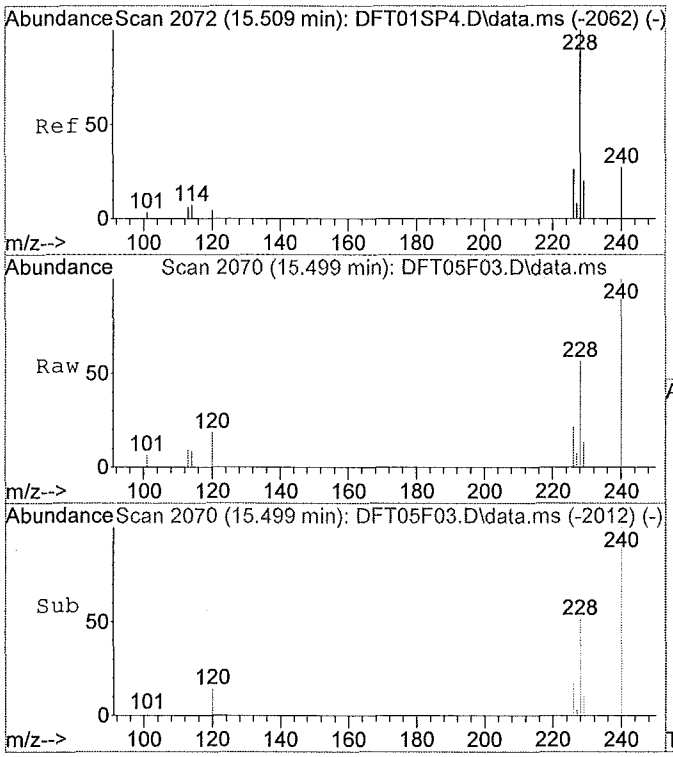


#16
Pyrene
Concen: 0.04 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:202 Resp: 49144

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

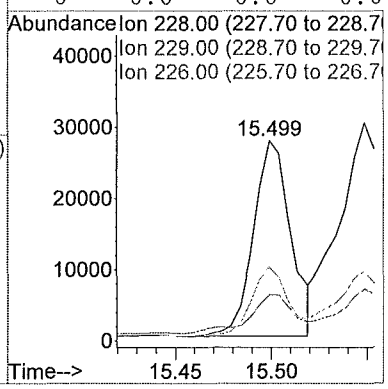


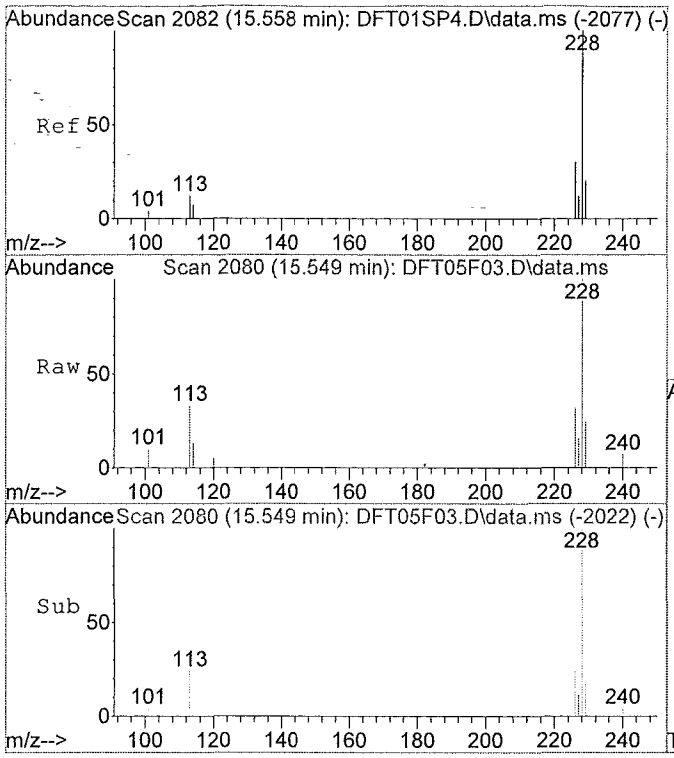


#17
Benzo(a)anthracene
Concen: 0.04 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:228 Resp: 37248

Ion	Ratio	Lower	Upper
228	100		
229	22.8	14.5	26.9
226	34.8	18.5	34.3#
0	0.0	0.0	0.0

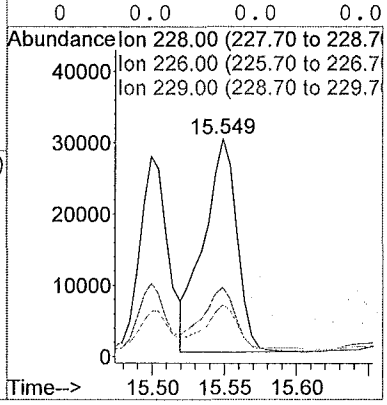


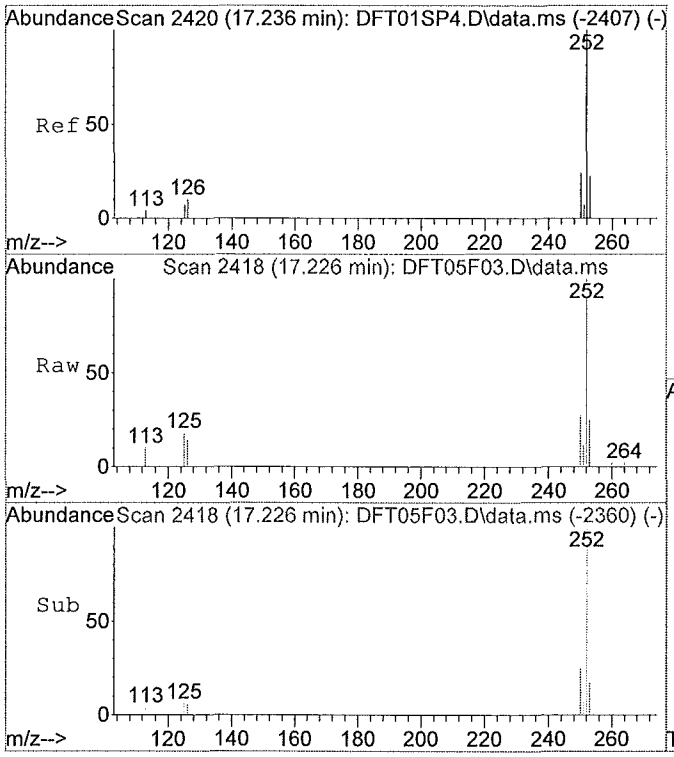


#18
Chrysene
Concen: 0.05 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:228 Resp: 48101

Ion	Ratio	Lower	Upper
228	100		
226	30.3	19.7	36.7
229	19.6	14.5	26.9
0	0.0	0.0	0.0

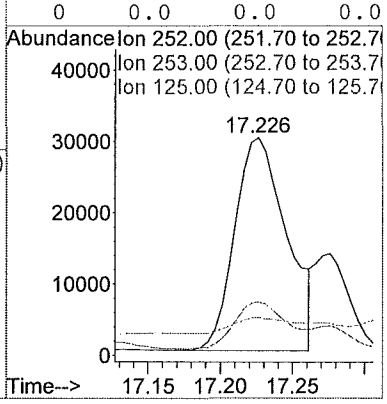


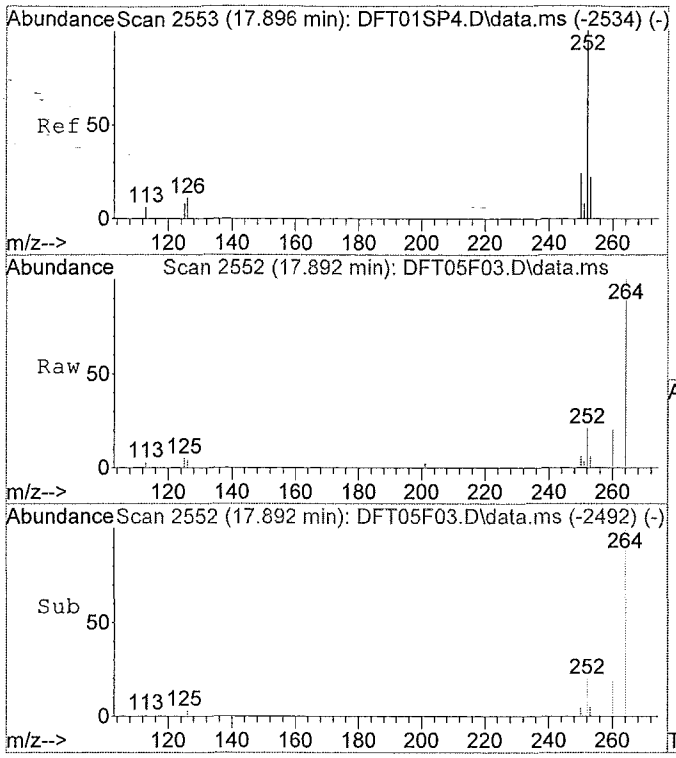


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:252 Resp: 74665

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

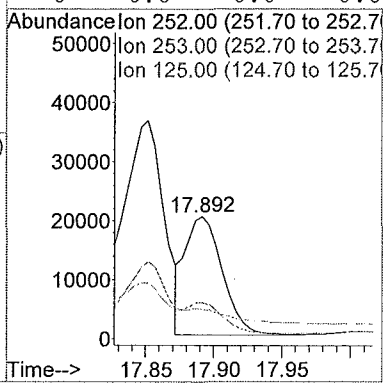


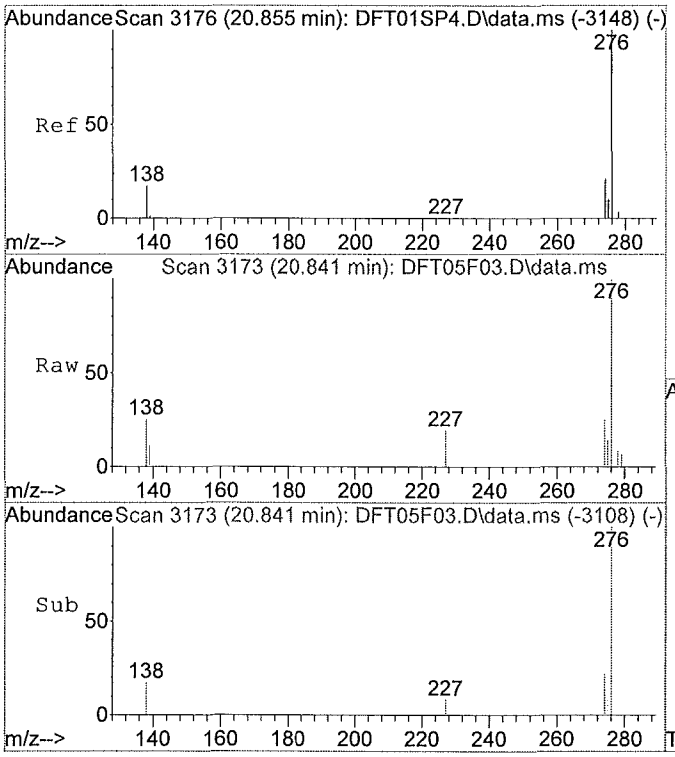


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:252 Resp: 38632

Ion	Ratio	Lower	Upper
252	100		
253	24.4	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

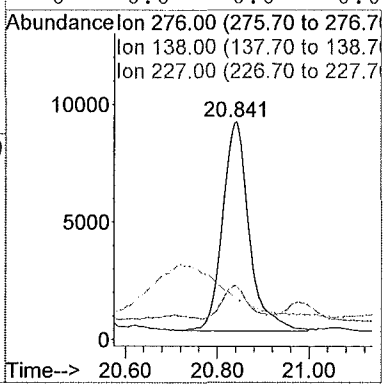




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.03 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFT05F03.D
Acq: 06/04/2015 15:02

Tgt Ion:276 Resp: 35542

Ion	Ratio	Lower	Upper
276	100		
138	14.3	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:

F9KX0

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978004

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFF09F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.3	J
91-57-6	2-Methylnaphthalene	4.4	
208-96-8	Acenaphthylene	5.1	
83-32-9	Acenaphthene	1.7	J
86-73-7	Fluorene	2.5	J
87-86-5	Pentachlorophenol	4.4	J
85-01-8	Phenanthrene	15.	
120-12-7	Anthracene	7.5	
206-44-0	Fluoranthene	16.	
129-00-0	Pyrene	24.	
56-55-3	Benzo(a)anthracene	16.	
218-01-9	Chrysene	22.	
205-99-2	Benzo(b)fluoranthene	23.	
207-08-9	Benzo(k)fluoranthene	6.7	
50-32-8	Benzo(a)pyrene	14.	
193-39-5	Indeno(1,2,3-cd)pyrene	13.	
53-70-3	Dibenzo(a,h)anthracene	3.6	J
191-24-2	Benzo(g,h,i)perylene	12.	

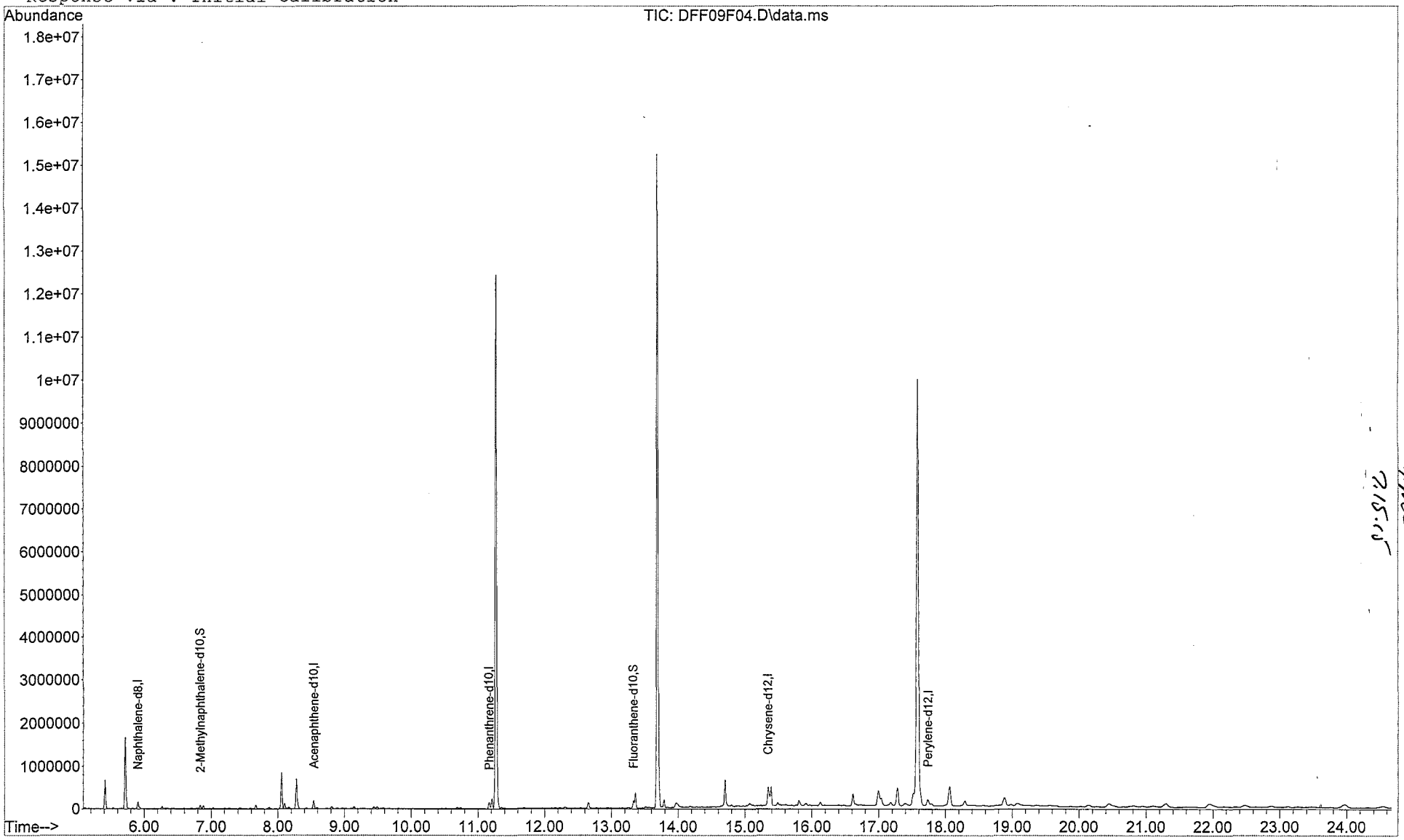
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF09F04.D
Acq On : 07/09/2015 16:16
Sample : 1513978004 F9KX0
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 9
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 13:58:44 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 13:38:19 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF09F04.D Vial: 9
Acq On : 07/09/2015 16:16 Operator: DJC
Sample : 1513978004 F9KX0 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 13:58:44 2015 Results File: DSOM_SIMJ2.RES

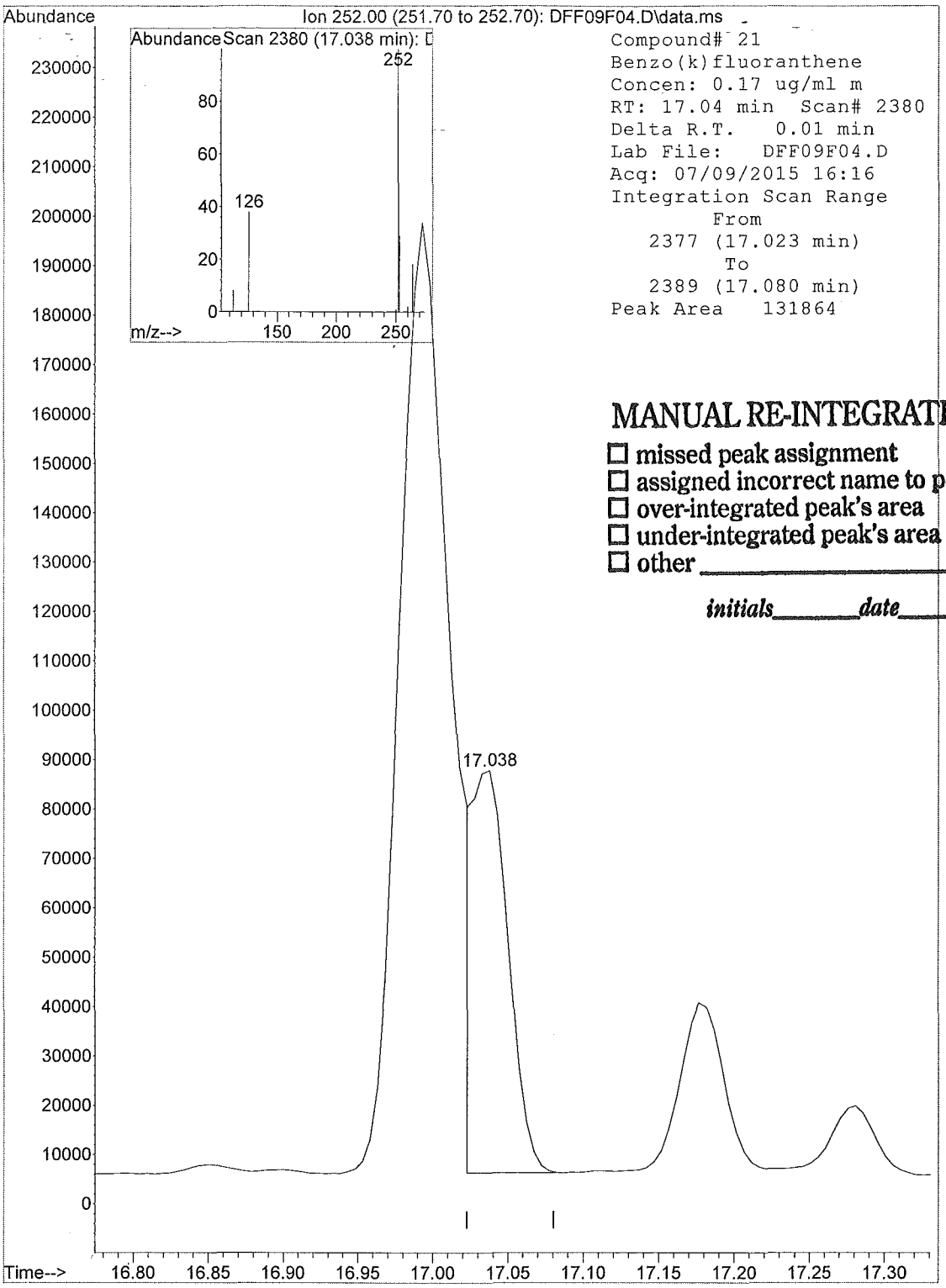
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	168328	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	122109	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	198021	0.40 ug/ml	
15) Chrysene-d12	15.35	240	223971	0.40 ug/ml	
19) Perylene-d12	17.73	264	240519	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	89094	0.328ug/mL	
13) Fluoranthene-d10	13.33	212	193432	0.357ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	26057	0.059ug/ml	95
4) 2-Methylnaphthalene	6.88	142	31797	0.113ug/ml	100
6) Acenaphthylene	8.30	152	69285	0.130ug/ml	92
7) Acenaphthene	8.59	153	14572	0.043ug/ml	95
8) Fluorene	9.49	166	25299	0.064ug/ml	94
10) Pentachlorophenol	10.85	266	3346	0.113ug/ml	100
11) Phenanthrene	11.21	178	218747	0.384ug/ml	99
12) Anthracene	11.30	178	105360	0.190ug/ml	95
14) Fluoranthene	13.36	202	267879	0.413ug/ml	91
16) Pyrene	13.71	202	436658	0.621ug/ml	76
17) Benzo(a)anthracene	15.35	228	237061	0.397ug/ml	79
18) Chrysene	15.39	228	349789	0.554ug/ml	94
20) Benzo(b)fluoranthene	16.99	252	445279	0.594ug/ml	98
21) Benzo(k)fluoranthene	17.04	252	131864	0.170ug/ml m	98 7.15.15
22) Benzo(a)pyrene	17.62	252	253509	0.354ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.44	276	205064	0.327ug/ml	100
24) Dibenzo(a,h)anthracene	20.51	278	63578	0.092ug/ml	79
25) Benzo(g,h,i)perylene	21.30	276	213120	0.302ug/ml	74

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

: 000021

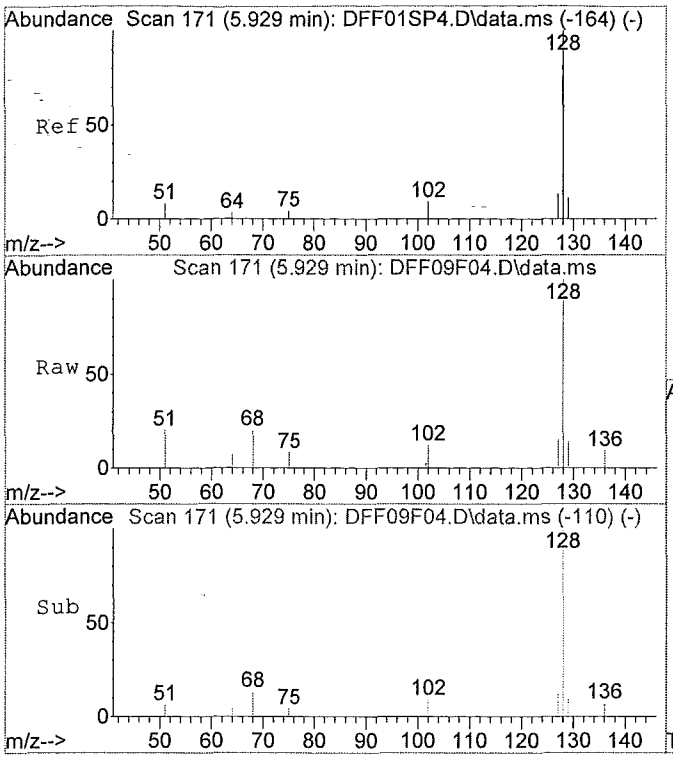
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

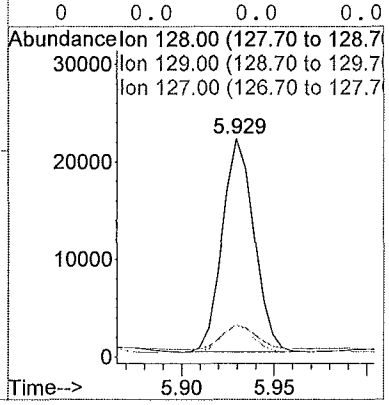
*initials*_____ *date*_____

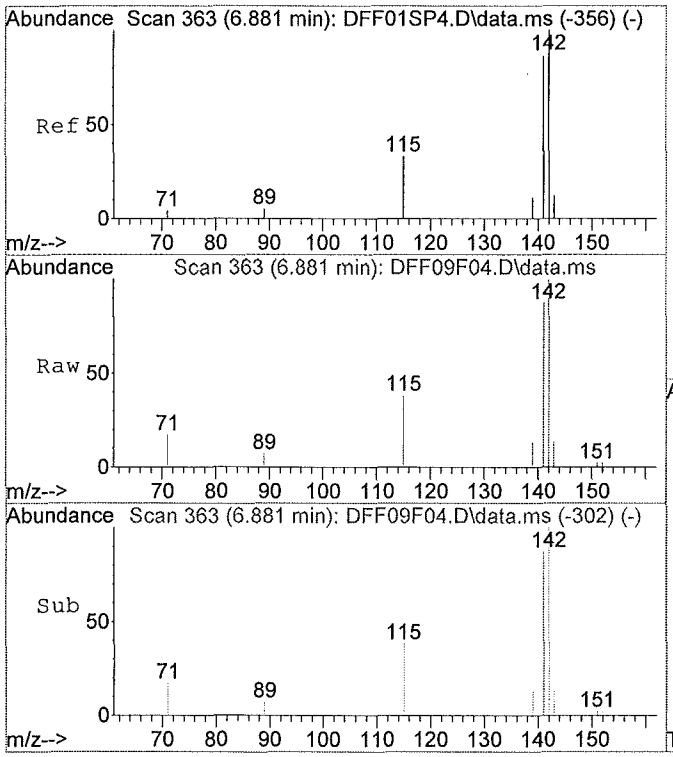


#2
Naphthalene
Concen: 0.06 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:128 Resp: 26057

Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	0.0#
127	13.9	11.1	20.5
0	0.0	0.0	0.0

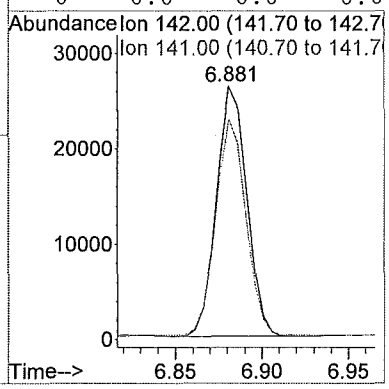


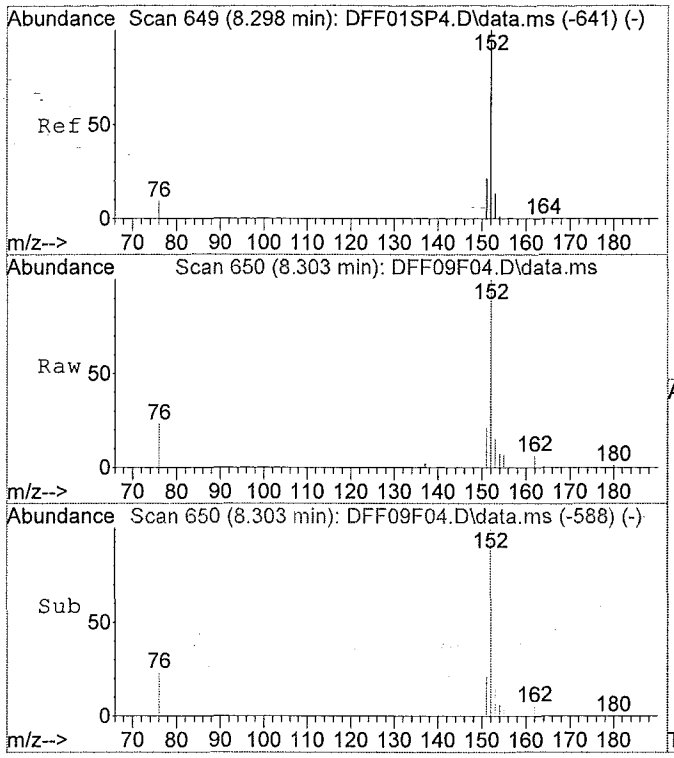


#4
2-Methylnaphthalene
Concen: 0.11 ug/ml
RT: 6.88 min Scan# 363
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:142 Resp: 31797

Ion	Ratio	Lower	Upper
142	100		
141	87.2	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

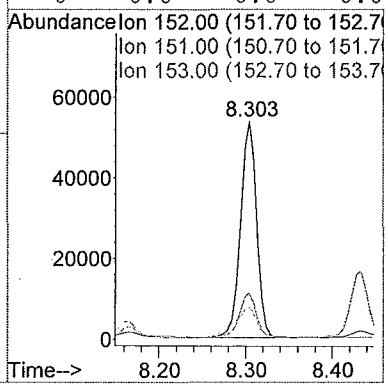


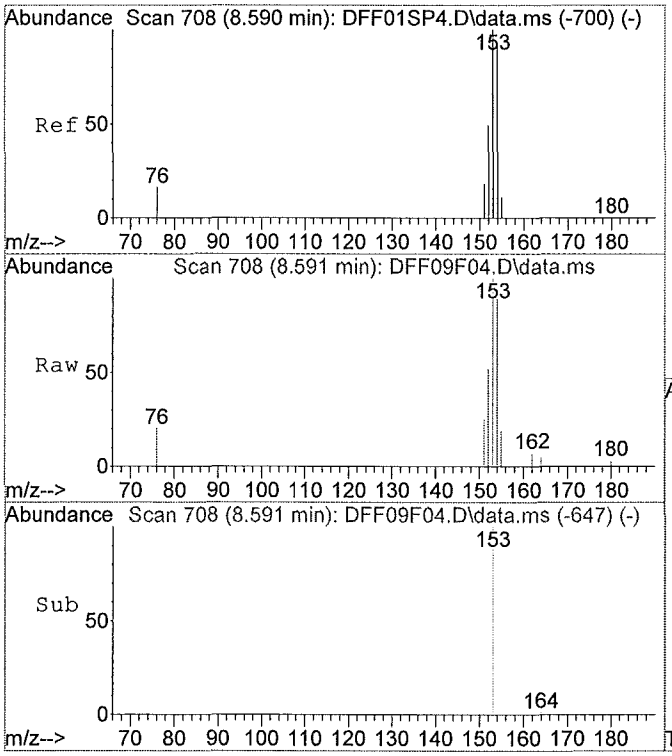


#6
Acenaphthylene
Concen: 0.13 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:152 Resp: 69285

Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.5	28.7
153	19.6	8.8	16.4#
0	0.0	0.0	0.0

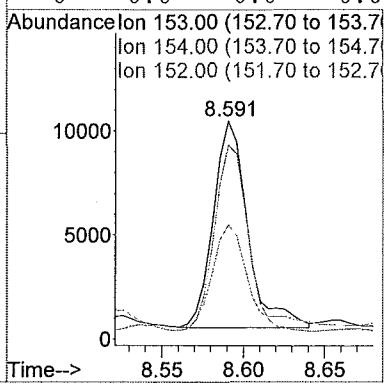


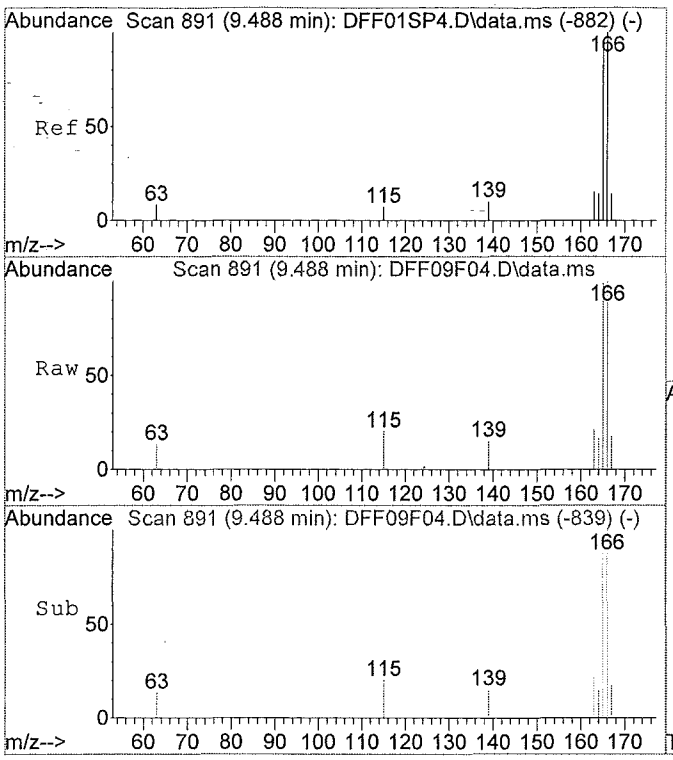


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.59 min Scan# 708
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:153 Resp: 14572

Ion	Ratio	Lower	Upper
153	100		
154	88.0	65.1	120.9
152	54.1	35.2	65.4
0	0.0	0.0	0.0

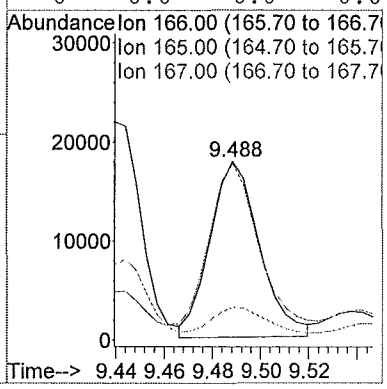


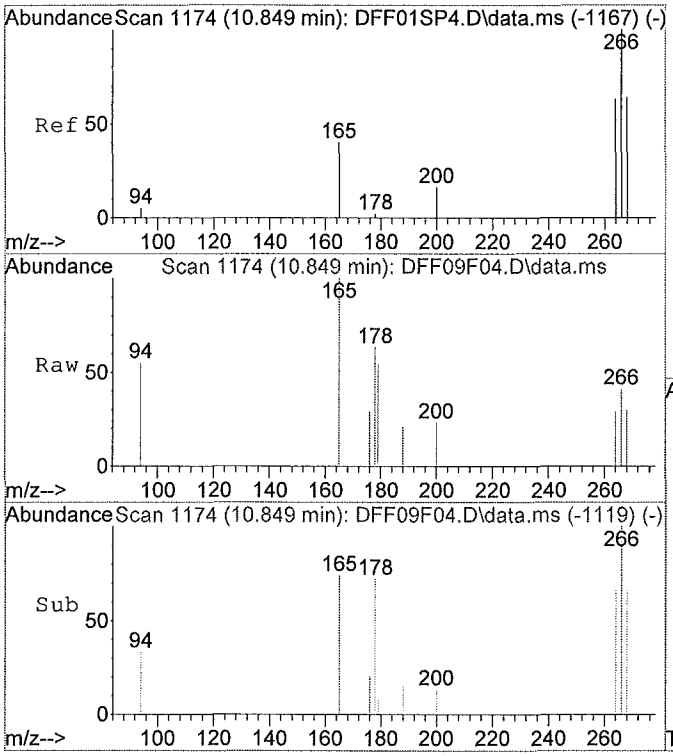


#8
Fluorene
Concen: 0.06 ug/ml
RT: 9.49 min Scan# 891
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:166 Resp: 25299

Ion	Ratio	Lower	Upper
166	100		
165	100.0	66.3	123.1
167	19.9	0.0	0.0#
0	0.0	0.0	0.0

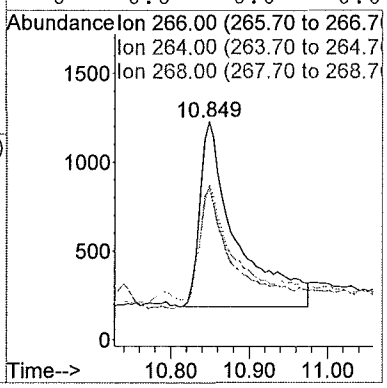


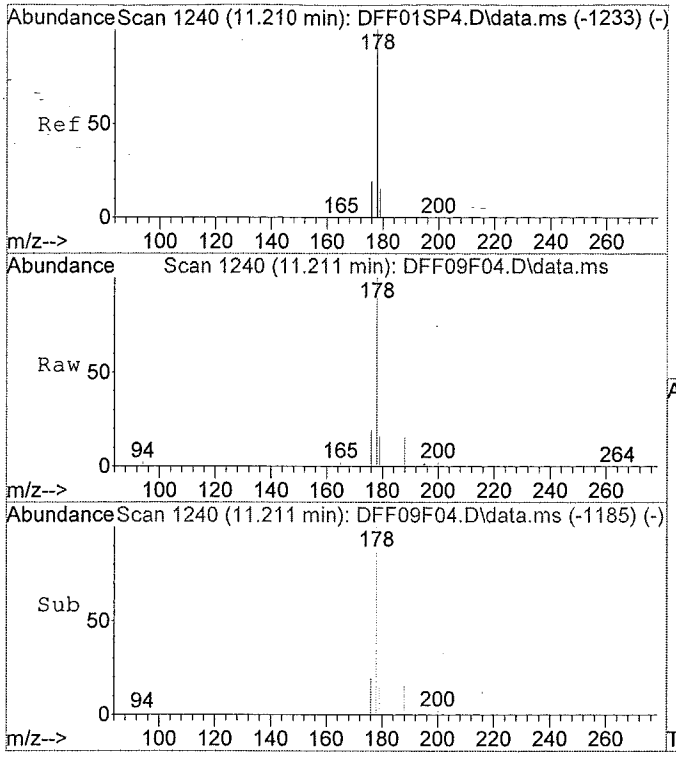


#10
Pentachlorophenol
Concen: 0.11 ug/ml
RT: 10.85 min Scan# 1174
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:266 Resp: 3346

Ion	Ratio	Lower	Upper
266	100		
264	61.5	0.0	0.0#
268	51.7	0.0	0.0#
0	0.0	0.0	0.0

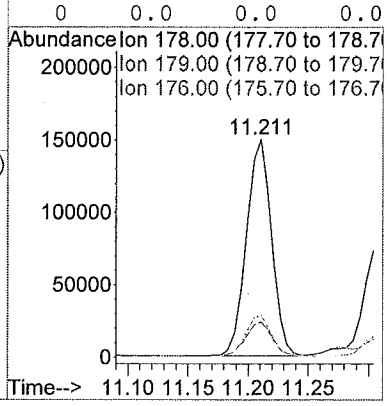


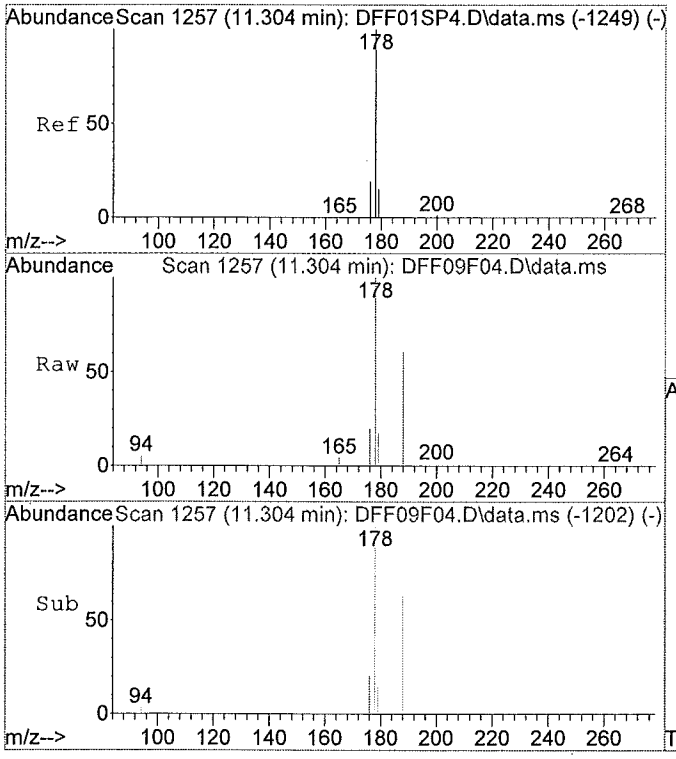


#11
Phenanthrene
Concen: 0.38 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:178 Resp: 218747

Ion	Ratio	Lower	Upper
178	100		
179	16.0	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

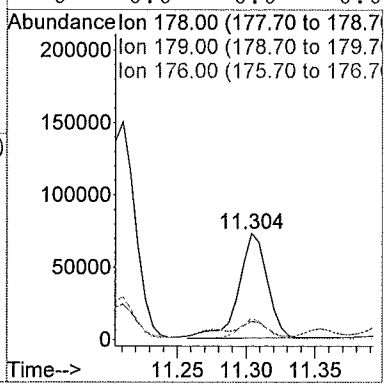


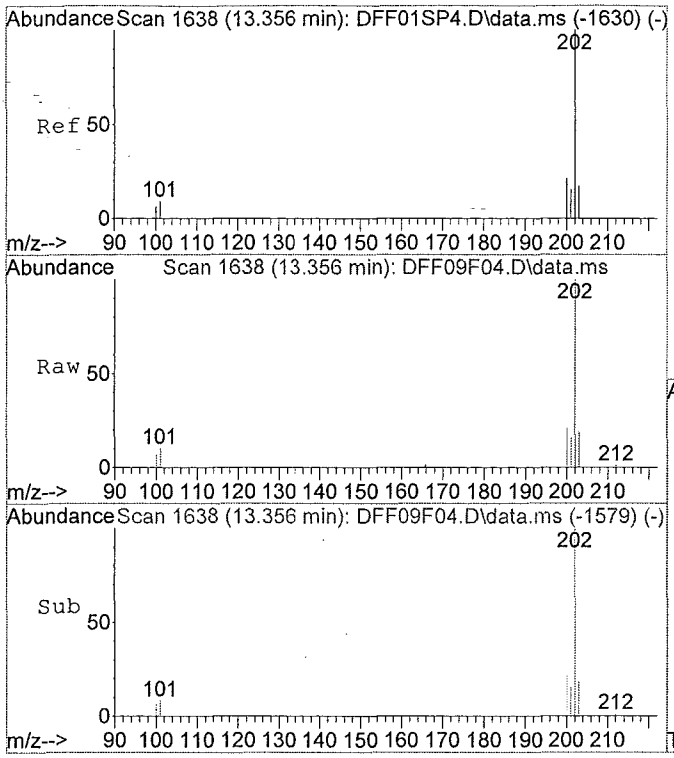


#12
Anthracene
Concen: 0.19 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:178 Resp: 105360

Ion	Ratio	Lower	Upper
178	100		
179	13.4	11.6	21.6
176	18.2	13.9	25.7
0	0.0	0.0	0.0

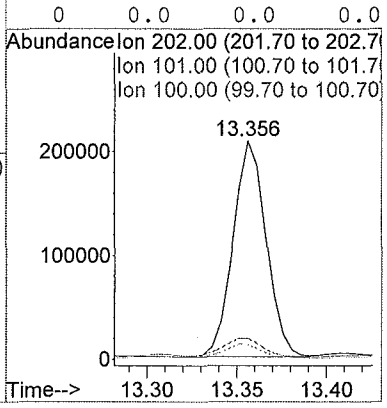


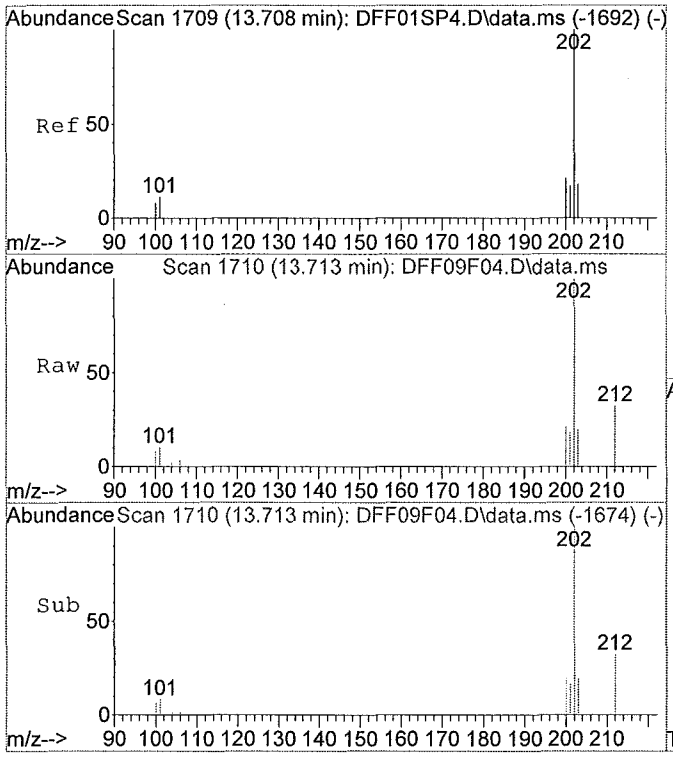


#14
Fluoranthene
Concen: 0.41 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:202 Resp: 267879

Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.4	17.6
100	8.1	0.0	0.0#
0	0.0	0.0	0.0

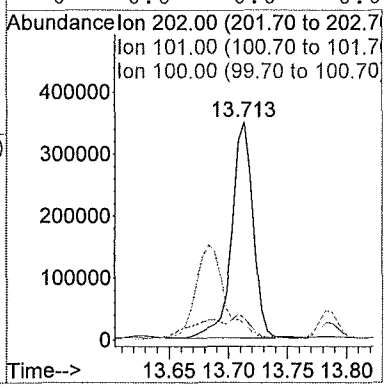


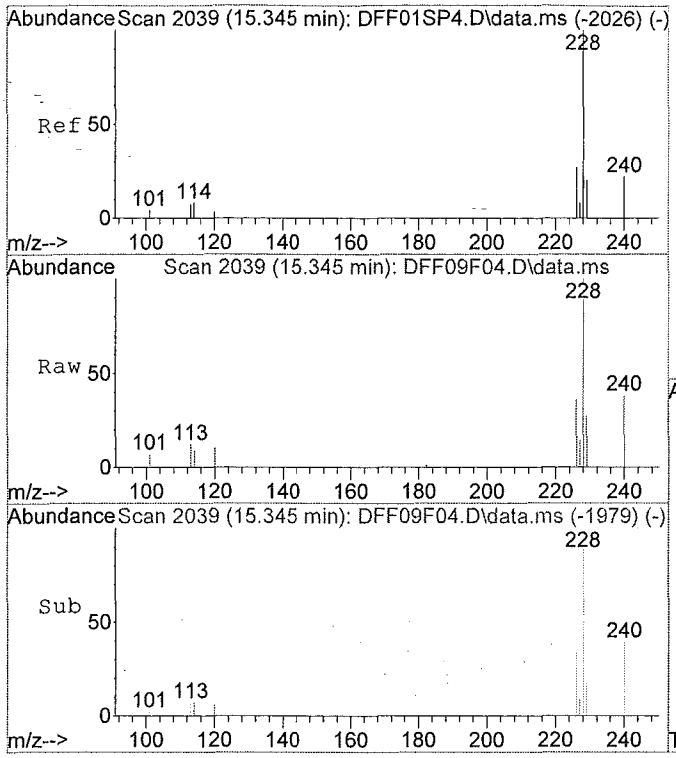


#16
Pyrene
Concen: 0.62 ug/ml
RT: 13.71 min Scan# 1710
Delta R.T. 0.01 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:202 Resp: 436658

Ion	Ratio	Lower	Upper
202	100		
101	8.9	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

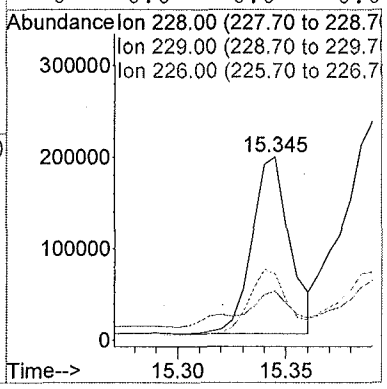


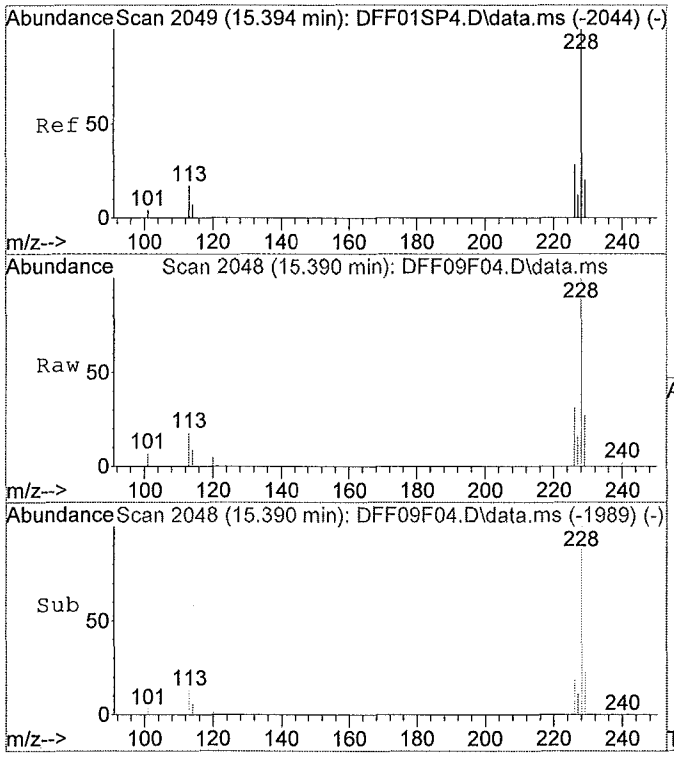


#17
Benzo(a)anthracene
Concen: 0.40 ug/ml
RT: 15.35 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:228 Resp: 237061

Ion	Ratio	Lower	Upper
228	100		
229	29.7	14.5	26.9#
226	38.0	18.5	34.3#
0	0.0	0.0	0.0

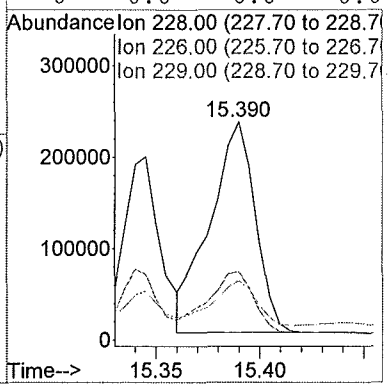


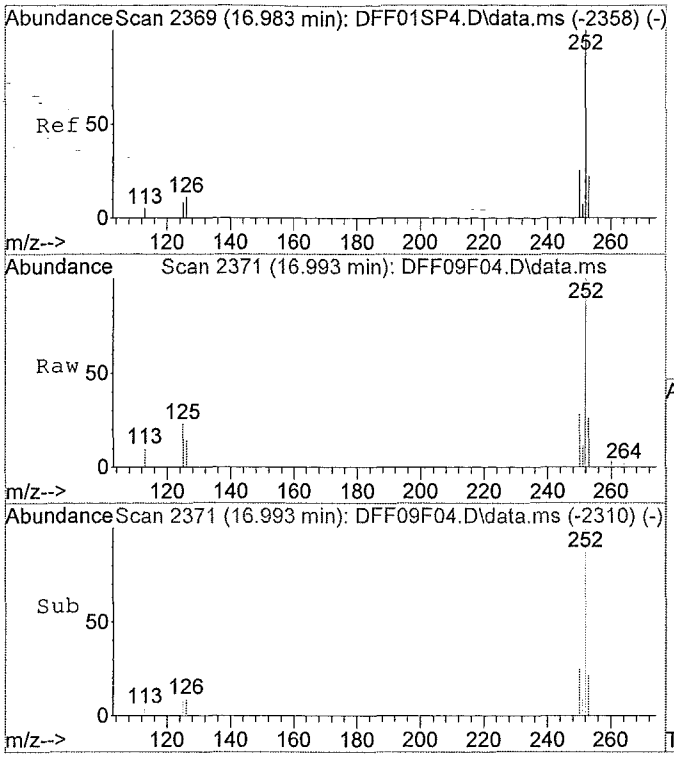


#18
Chrysene
Concen: 0.55 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:228 Resp: 349789

Ion	Ratio	Lower	Upper
228	100		
226	31.4	19.7	36.7
229	23.9	14.5	26.9
0	0.0	0.0	0.0

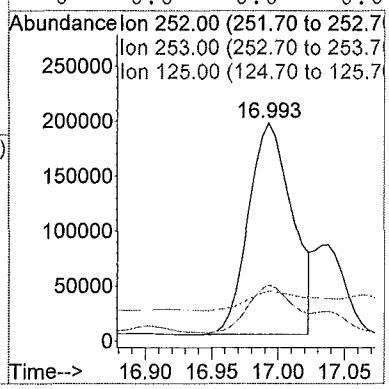


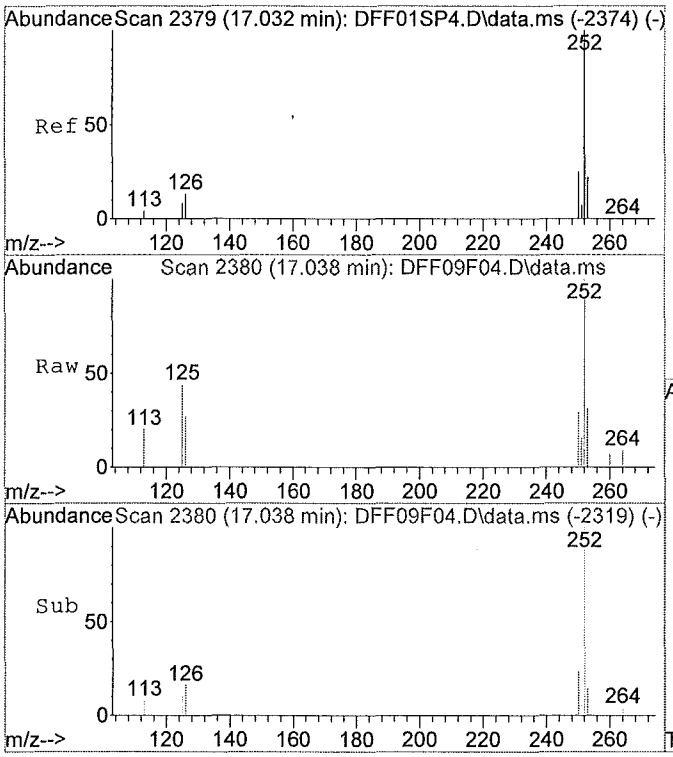


#20
Benzo(b)fluoranthene
Concen: 0.59 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:252 Resp: 445279

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	13.6	0.0	0.0#
0	0.0	0.0	0.0

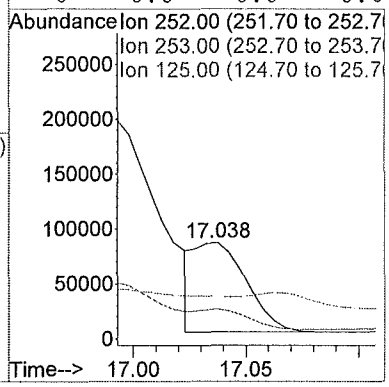


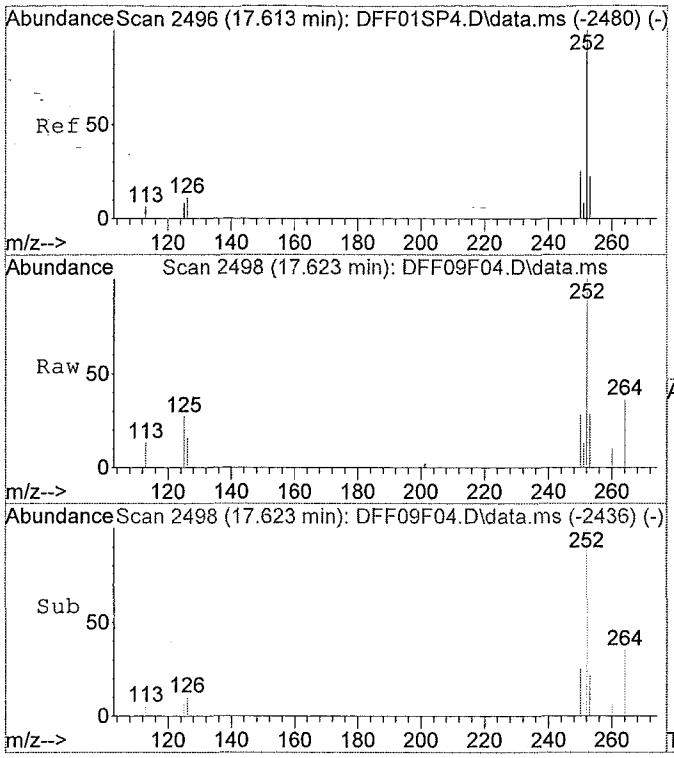


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.04 min Scan# 2380
Delta R.T. 0.01 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:252 Resp: 131864

Ion	Ratio	Lower	Upper
252	100		
253	76.1	15.0	27.8#
125	45.5	0.0	0.0#
0	0.0	0.0	0.0

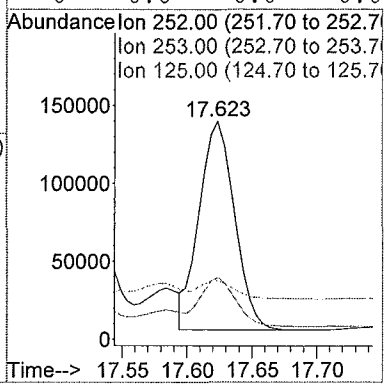


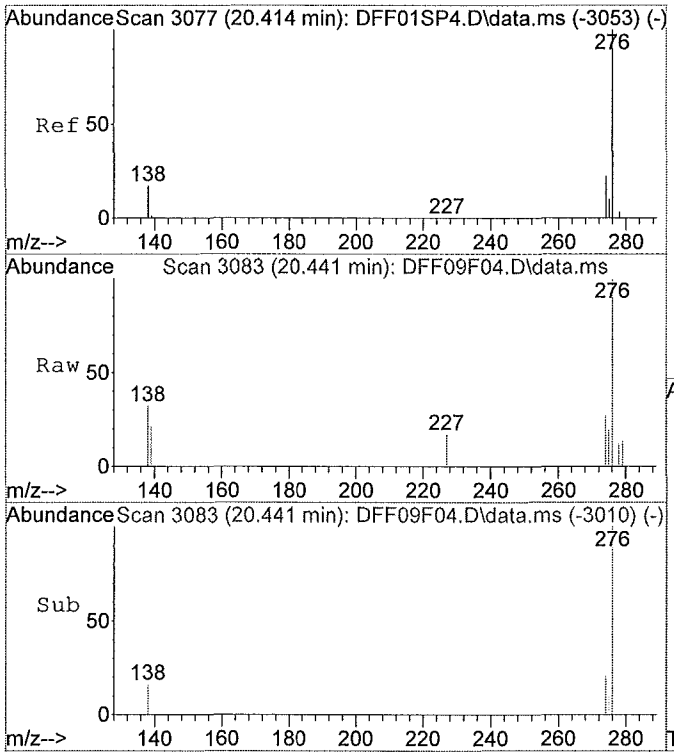


#22
Benzo(a)pyrene
Concen: 0.35 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:252 Resp: 253509

Ion	Ratio	Lower	Upper
252	100		
253	23.2	15.0	27.8
125	9.5	0.0	0.0#
0	0.0	0.0	0.0

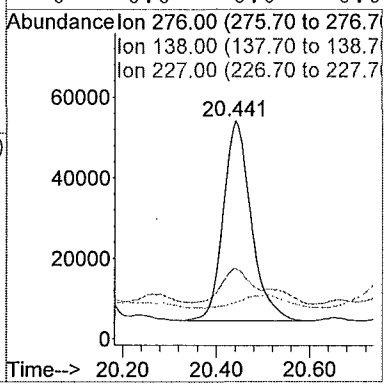


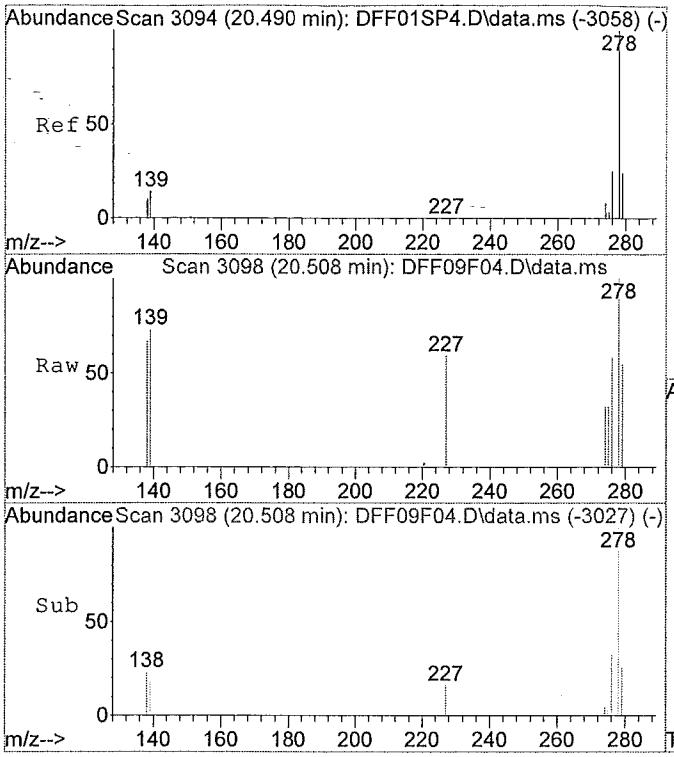


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.33 ug/ml
RT: 20.44 min Scan# 3083
Delta R.T. 0.03 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:276 Resp: 205064

Ion	Ratio	Lower	Upper
276	100		
138	16.5	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

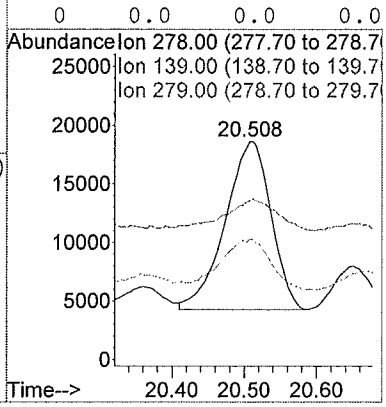


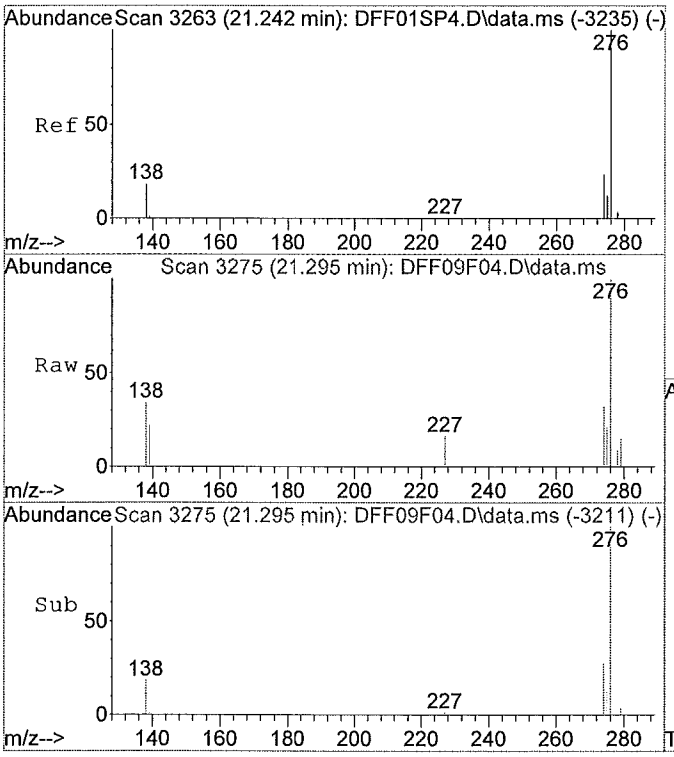


#24
Dibenzo(a,h)anthracene
Concen: 0.09 ug/ml
RT: 20.51 min Scan# 3098
Delta R.T. 0.02 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:278 Resp: 63578

Ion	Ratio	Lower	Upper
278	100		
139	21.3	0.0	0.0#
279	32.7	15.8	29.3#
0	0.0	0.0	0.0

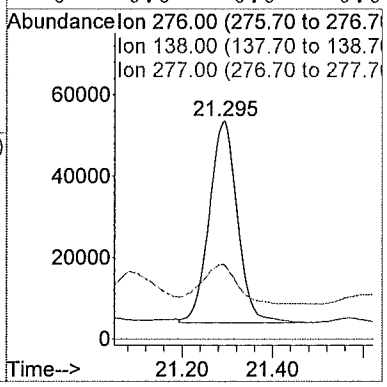




#25
Benzo(g,h,i)perylene
Concen: 0.30 ug/ml
RT: 21.30 min Scan# 3275
Delta R.T. 0.05 min
Lab File: DFF09F04.D
Acq: 07/09/2015 16:16

Tgt Ion:276 Resp: 213120

Ion	Ratio	Lower	Upper
276	100		
138	24.7	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:

F9KX1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFF10F05

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	3.1	J
208-96-8	Acenaphthylene	4.0	
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	0.84	J
87-86-5	Pentachlorophenol	0.85	J
85-01-8	Phenanthrene	25.	
120-12-7	Anthracene	6.2	
206-44-0	Fluoranthene	18.	
129-00-0	Pyrene	33.	
56-55-3	Benzo(a)anthracene	22.	
218-01-9	Chrysene	32.	
205-99-2	Benzo(b)fluoranthene	24.	
207-08-9	Benzo(k)fluoranthene	6.5	
50-32-8	Benzo(a)pyrene	15.	
193-39-5	Indeno(1,2,3-cd)pyrene	14.	
53-70-3	Dibenzo(a,h)anthracene	4.6	
191-24-2	Benzo(g,h,i)perylene	11.	

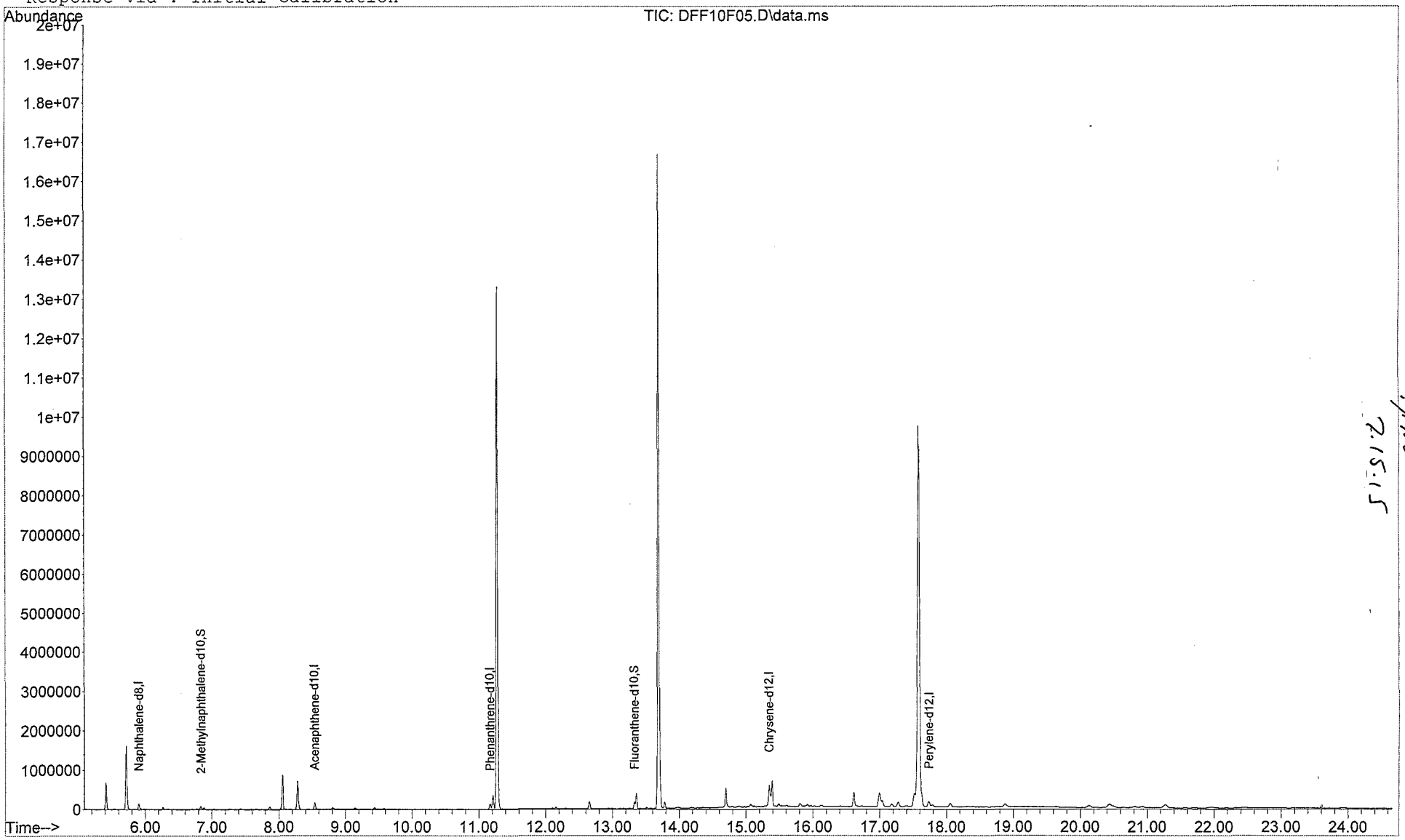
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF10F05.D
Acq On : 07/09/2015 16:46
Sample : 1513978005 F9KX1
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 10
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 13:59:35 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 13:38:19 2015
Response via : Initial Calibration



7.15.15

Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF10F05.D Vial: 10
Acq On : 07/09/2015 16:46 Operator: DJC
Sample : 1513978005 F9KX1 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 13:59:35 2015 Results File: DSOM_SIMJ2.RES

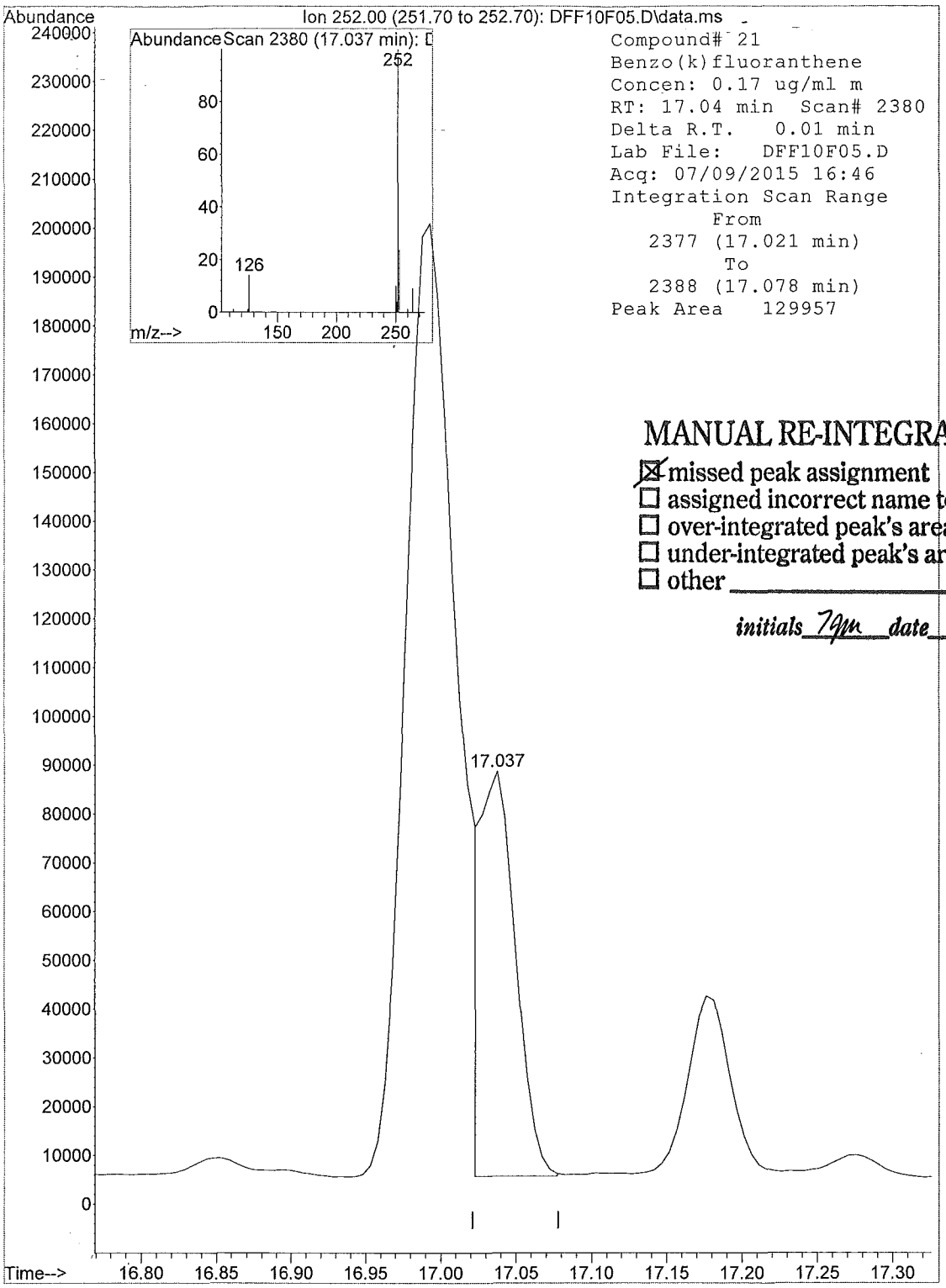
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.90	136	162144	0.40 ug/ml
5) Acenaphthene-d10	8.54	164	117935	0.40 ug/ml
9) Phenanthrene-d10	11.17	188	192199	0.40 ug/ml
15) Chrysene-d12	15.35	240	215524	0.40 ug/ml
19) Perylene-d12	17.73	264	230567	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.84	152	90494	0.346ug/mL
13) Fluoranthene-d10	13.33	212	201265	0.383ug/mL
Target Compounds				Qvalue
2) Naphthalene	5.93	128	19775	0.047ug/ml 95
4) 2-Methylnaphthalene	6.88	142	22470	0.083ug/ml 99
6) Acenaphthylene	8.30	152	55378	0.107ug/ml 92
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	9.49	166	8588	0.022ug/ml 89
10) Pentachlorophenol	10.85	266	655	0.023ug/ml 100
11) Phenanthrene	11.21	178	371496	0.671ug/ml 99
12) Anthracene	11.30	178	89114	0.166ug/ml 95
14) Fluoranthene	13.36	202	299350	0.475ug/ml 88
16) Pyrene	13.71	202	593529	0.878ug/ml 59
17) Benzo(a)anthracene	15.34	228	338411	0.589ug/ml 82
18) Chrysene	15.39	228	521352	0.858ug/ml 95
20) Benzo(b)fluoranthene	16.99	252	455590	0.634ug/ml 98
21) Benzo(k)fluoranthene	17.04	252	129957	0.175ug/ml m 97 7.15.15
22) Benzo(a)pyrene	17.62	252	281452	0.410ug/ml 95
23) Indeno(1,2,3-c,d)pyrene	20.43	276	226034	0.376ug/ml 100
24) Dibenzo(a,h)anthracene	20.49	278	81998	0.123ug/ml 91
25) Benzo(g,h,i)perylene	21.27	276	207016	0.306ug/ml 75

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

00834

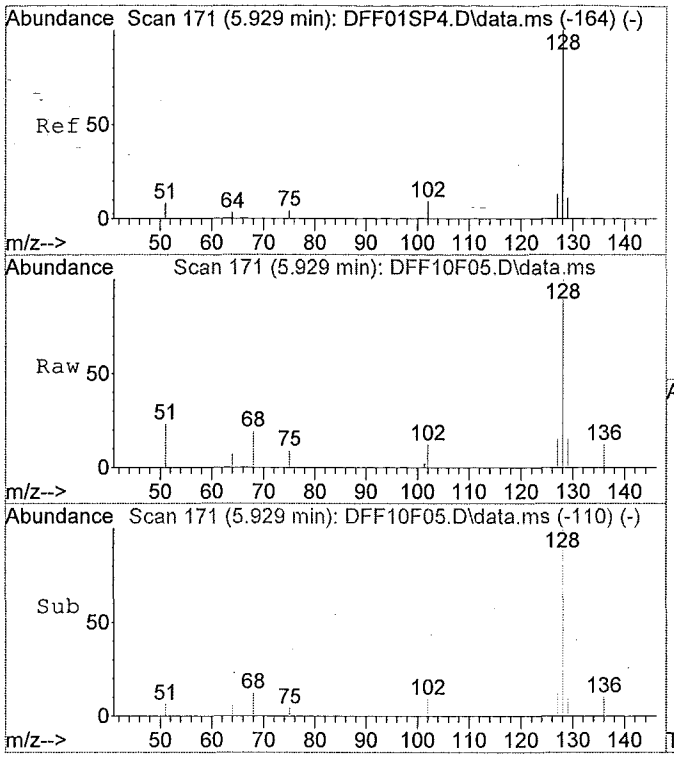
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

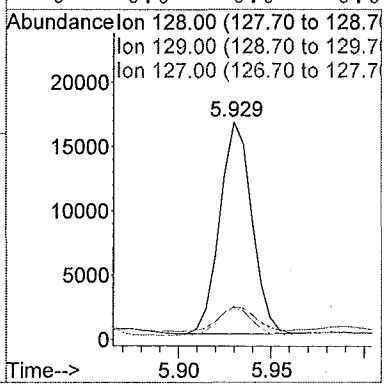
initials 7gm *date* 7.15.15

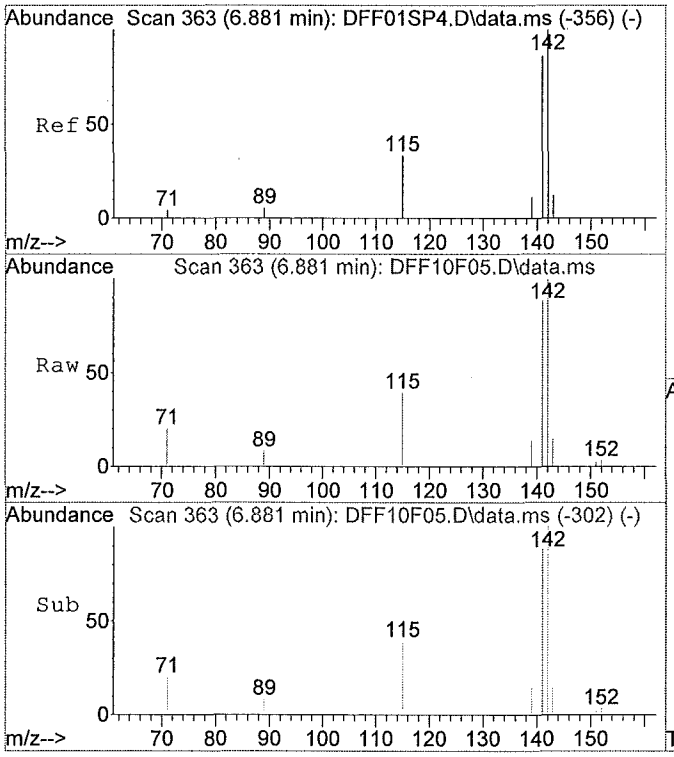


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:128 Resp: 19775

Ion	Ratio	Lower	Upper
128	100		
129	12.7	0.0	0.0#
127	13.8	11.1	20.5
0	0.0	0.0	0.0

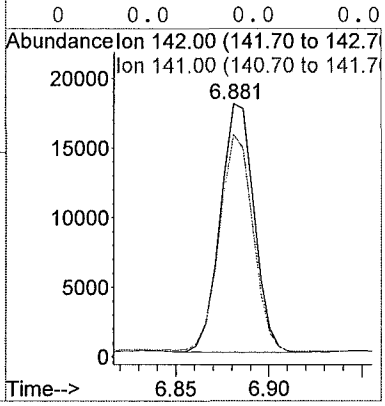


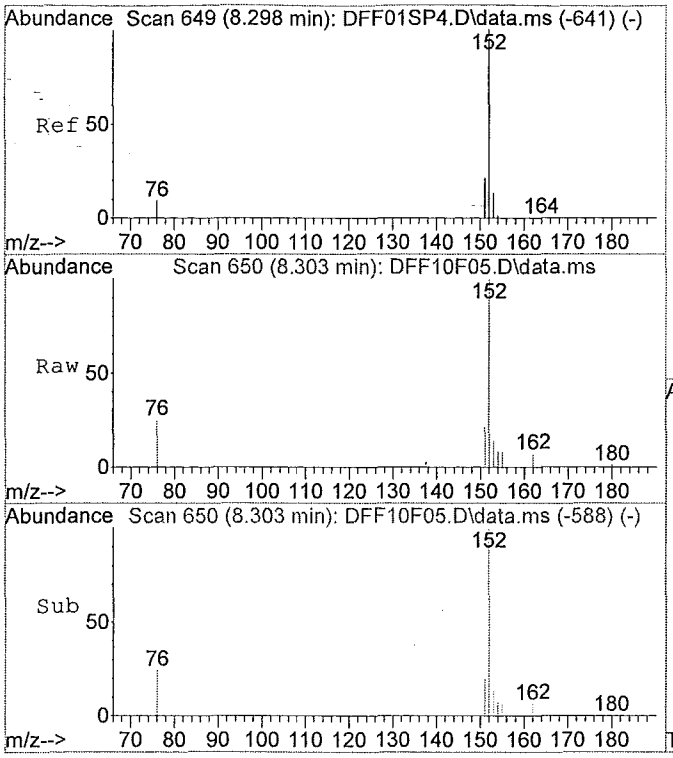


#4
2-Methylnaphthalene
Concen: 0.08 ug/ml
RT: 6.88 min Scan# 363
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:142 Resp: 22470

Ion	Ratio	Lower	Upper
142	100		
141	86.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

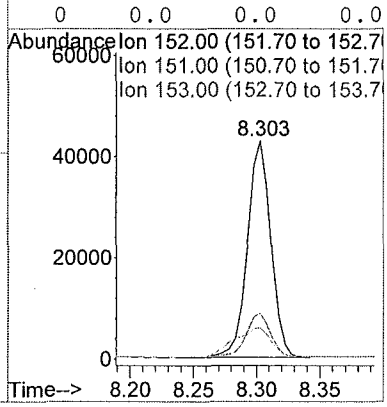


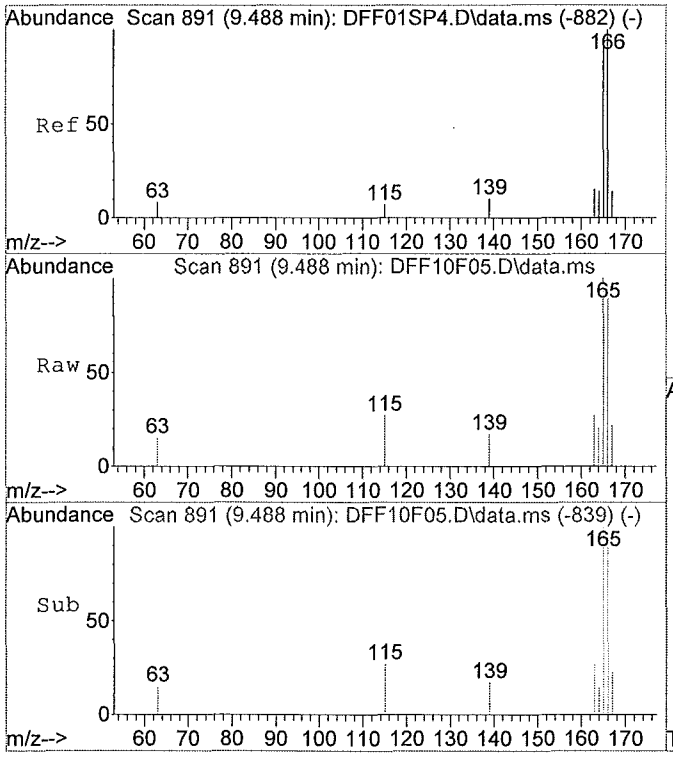


#6
Acenaphthylene
Concen: 0.11 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:152 Resp: 55378

Ion	Ratio	Lower	Upper
152	100		
151	21.6	15.5	28.7
153	20.9	8.8	16.4#
0	0.0	0.0	0.0

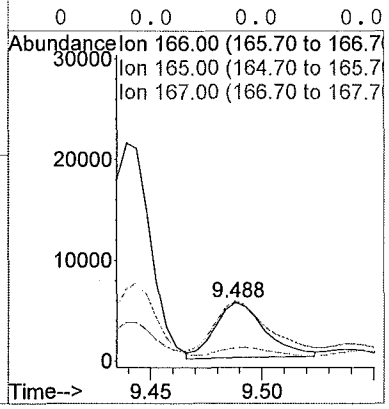


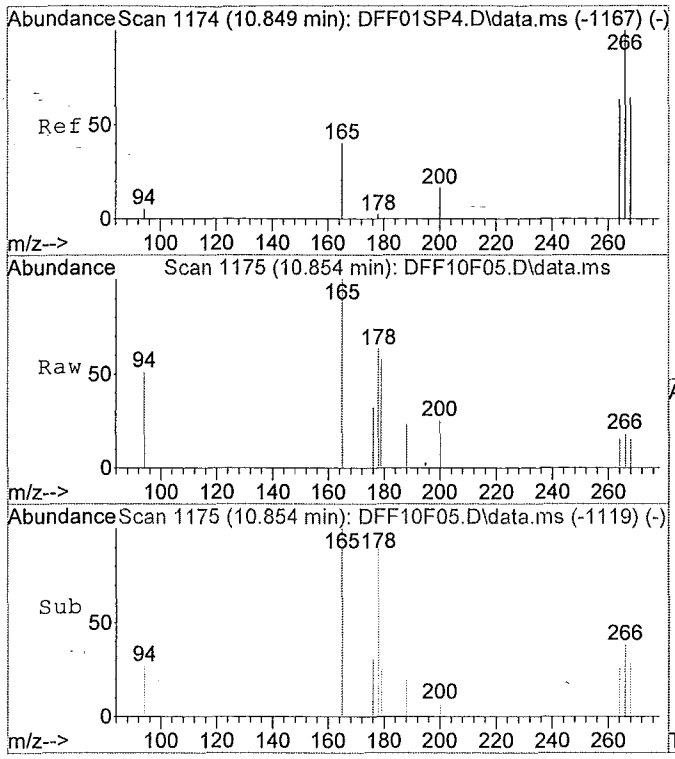


#8
Fluorene
Concen: 0.02 ug/ml
RT: 9.49 min Scan# 891
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:166 Resp: 8588

Ion	Ratio	Lower	Upper
166	100		
165	105.5	66.3	123.1
167	21.3	0.0	0.0#
0	0.0	0.0	0.0

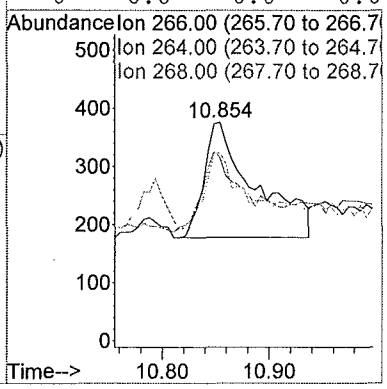


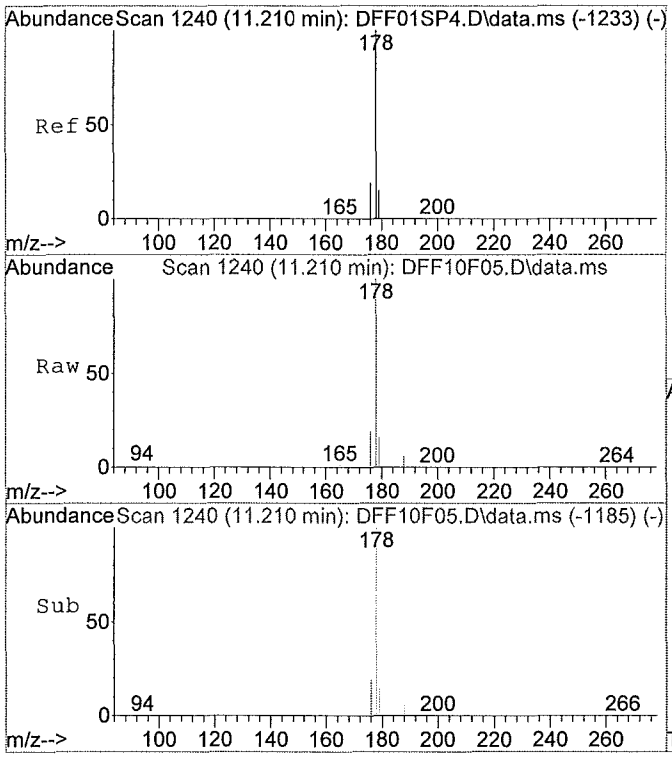


#10
Pentachlorophenol
Concen: 0.02 ug/ml
RT: 10.85 min Scan# 1175
Delta R.T. 0.01 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:266 Resp: 655

Ion	Ratio	Lower	Upper
266	100		
264	48.5	0.0	0.0#
268	52.7	0.0	0.0#
0	0.0	0.0	0.0

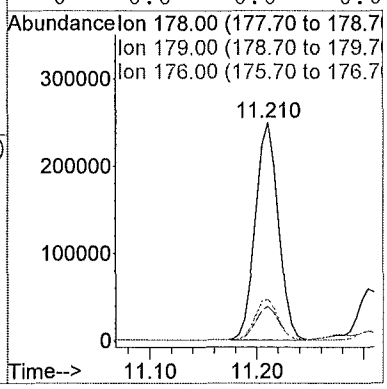


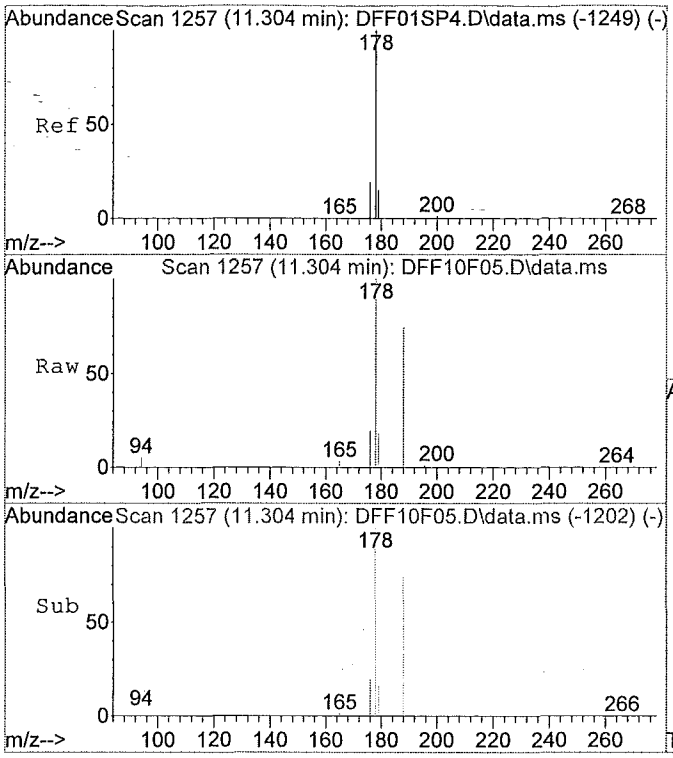


#11
Phenanthrene
Concen: 0.67 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:178 Resp: 371496

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

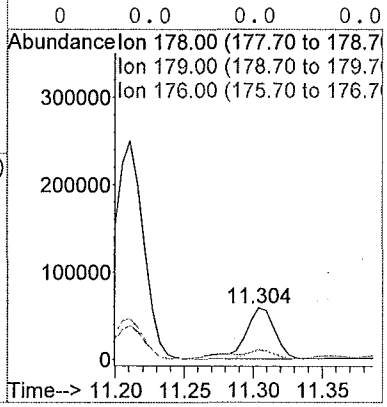


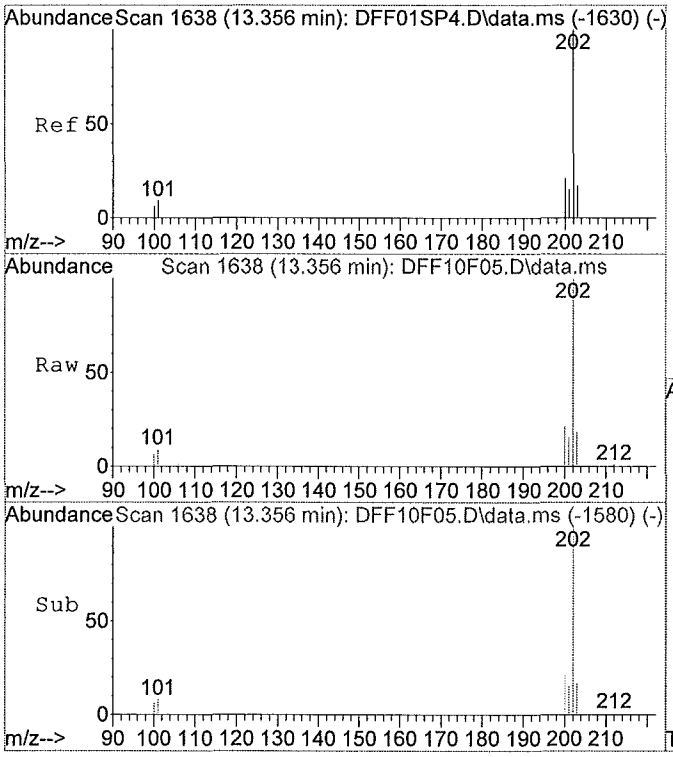


#12
Anthracene
Concen: 0.17 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:178 Resp: 89114

Ion	Ratio	Lower	Upper
178	100		
179	13.9	11.6	21.6
176	18.0	13.9	25.7
0	0.0	0.0	0.0

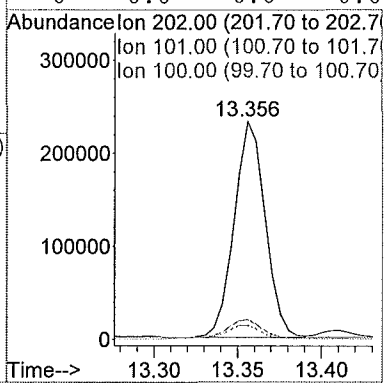


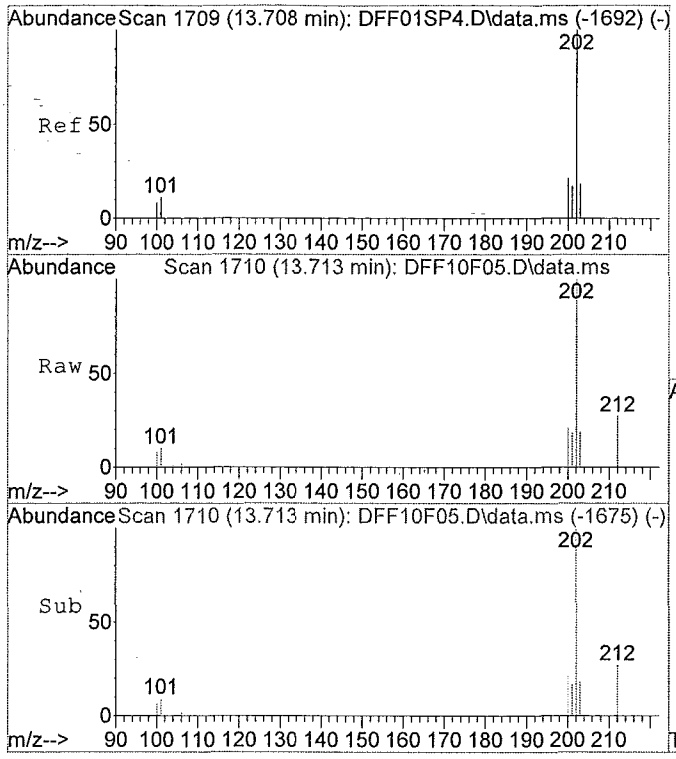


#14
Fluoranthene
Concen: 0.48 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:202 Resp: 299350

Ion	Ratio	Lower	Upper
202	100		
101	8.9	9.4	17.6#
100	7.2	0.0	0.0#
0	0.0	0.0	0.0

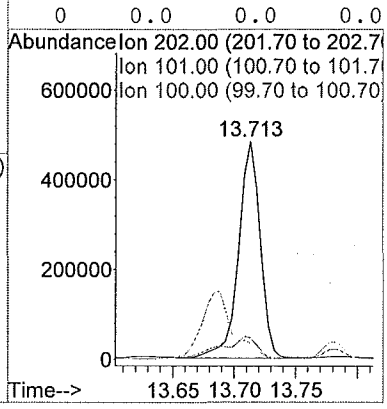


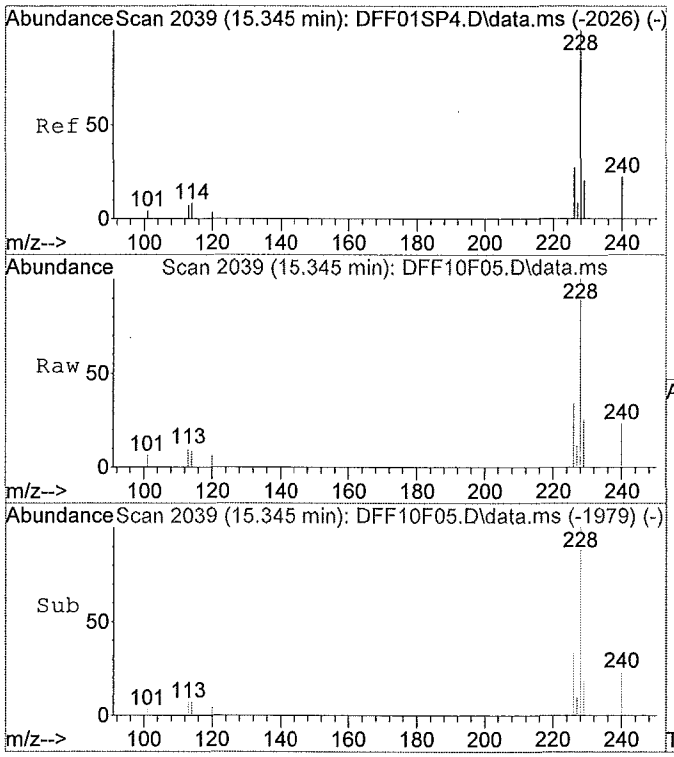


#16
Pyrene
Concen: 0.88 ug/ml
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:202 Resp: 593529

Ion	Ratio	Lower	Upper
202	100		
101	17.5	10.6	19.6
100	45.5	9.4	17.4#
0	0.0	0.0	0.0

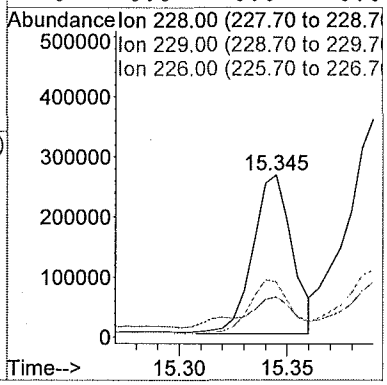


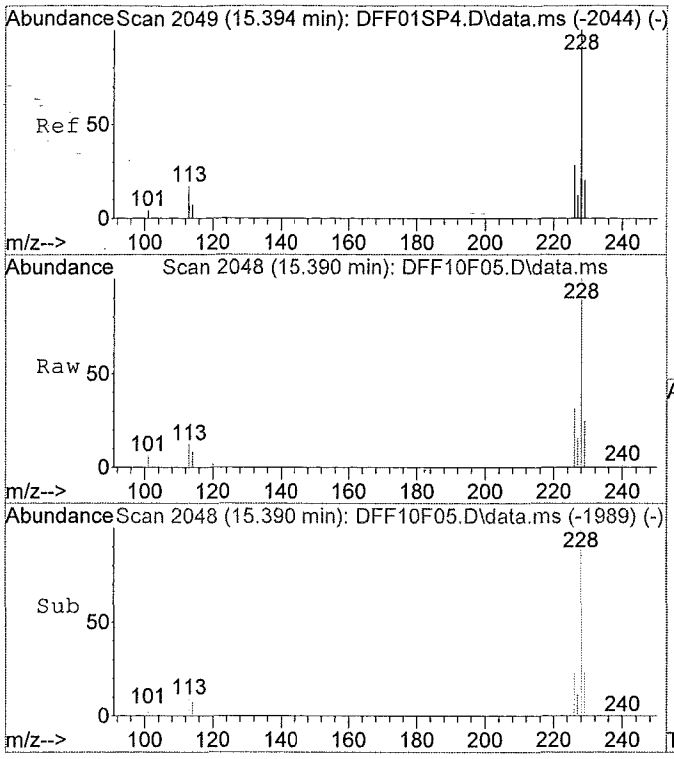


#17
Benzo(a)anthracene
Concen: 0.59 ug/ml
RT: 15.34 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:228 Resp: 338411

Ion	Ratio	Lower	Upper
228	100		
229	29.6	14.5	26.9#
226	34.8	18.5	34.3#
0	0.0	0.0	0.0

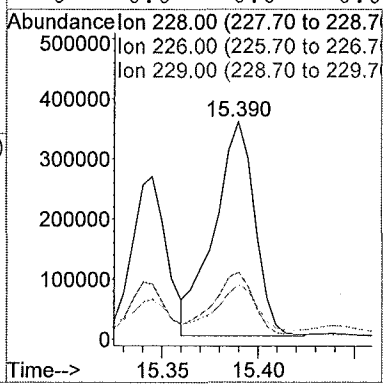


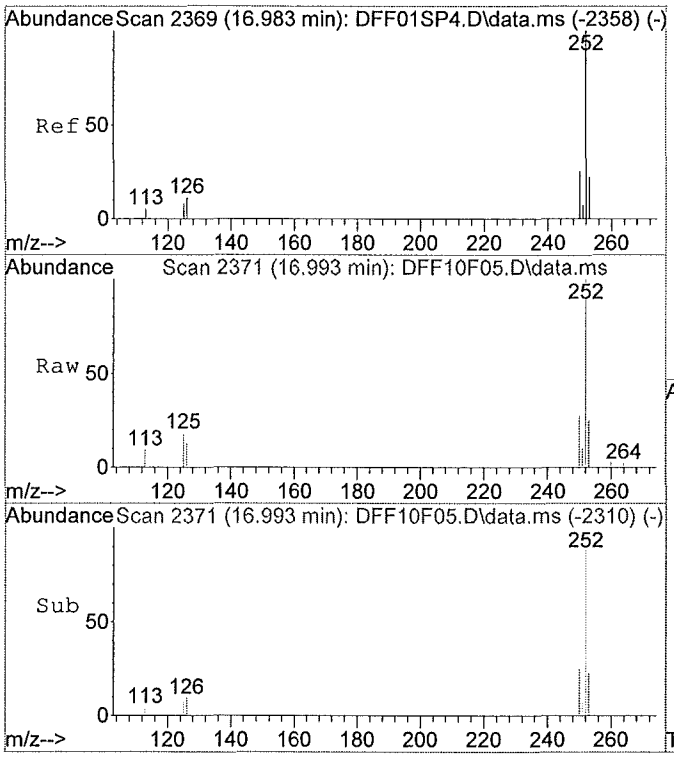


#18
Chrysene
Concen: 0.86 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:228 Resp: 521352

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	23.2	14.5	26.9
0	0.0	0.0	0.0

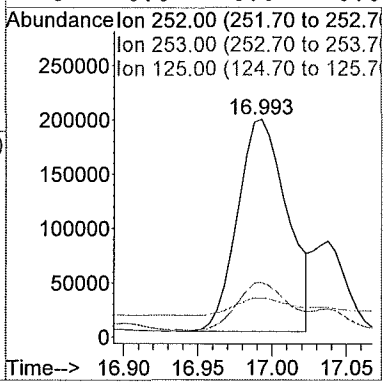


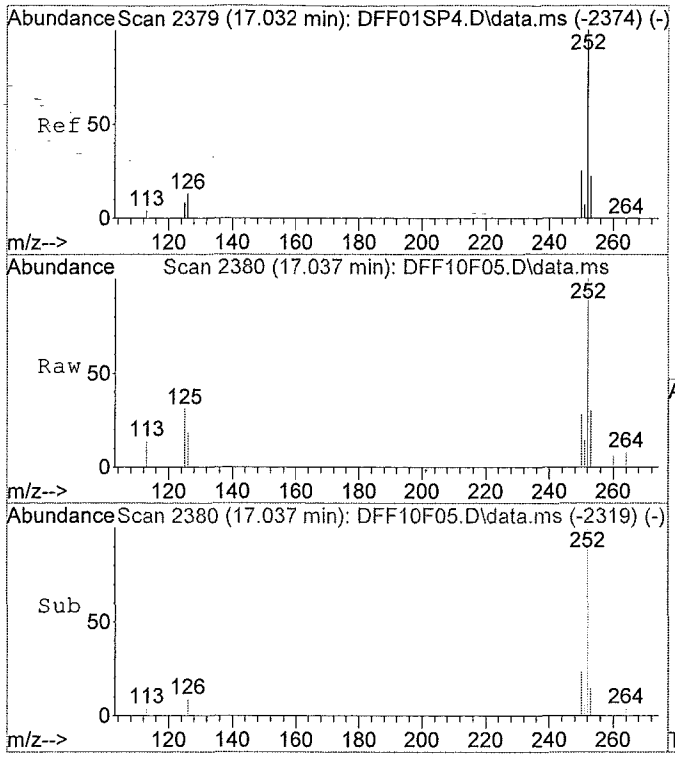


#20
Benzo(b)fluoranthene
Concen: 0.63 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:252 Resp: 455590

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	13.0	0.0	0.0#
0	0.0	0.0	0.0

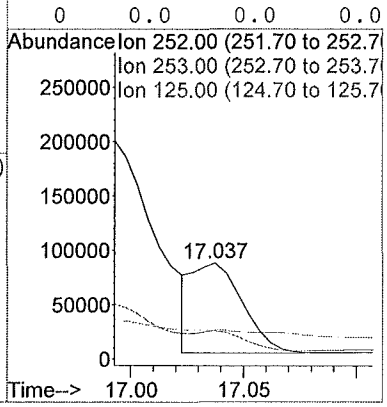


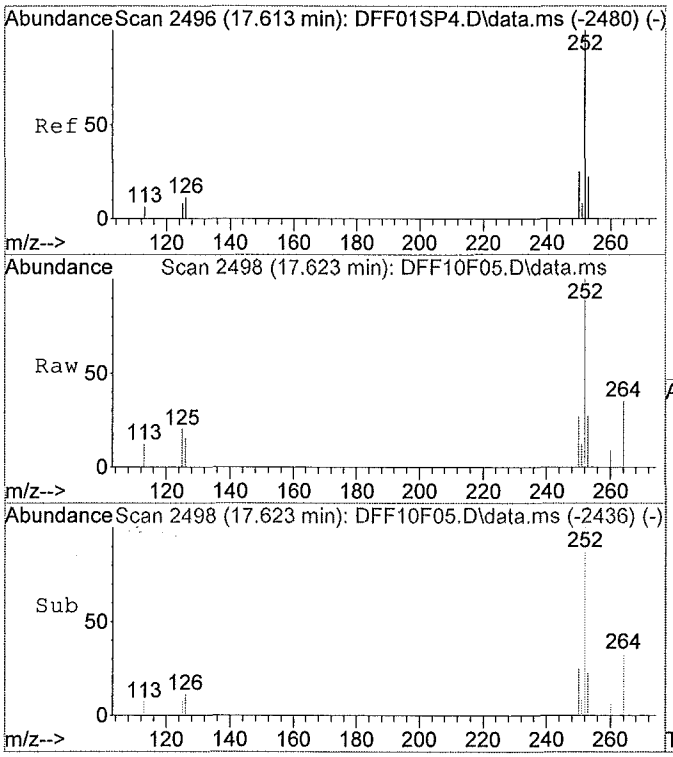


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.04 min Scan# 2380
Delta R.T. 0.01 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:252 Resp: 129957

Ion	Ratio	Lower	Upper
252	100		
253	79.9	15.0	27.8#
125	45.5	0.0	0.0#
0	0.0	0.0	0.0

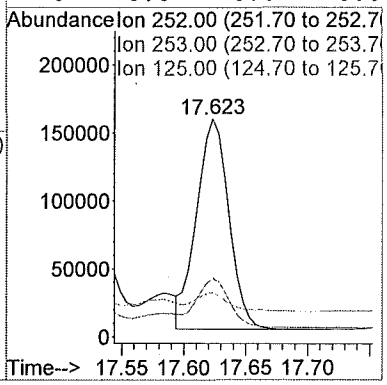


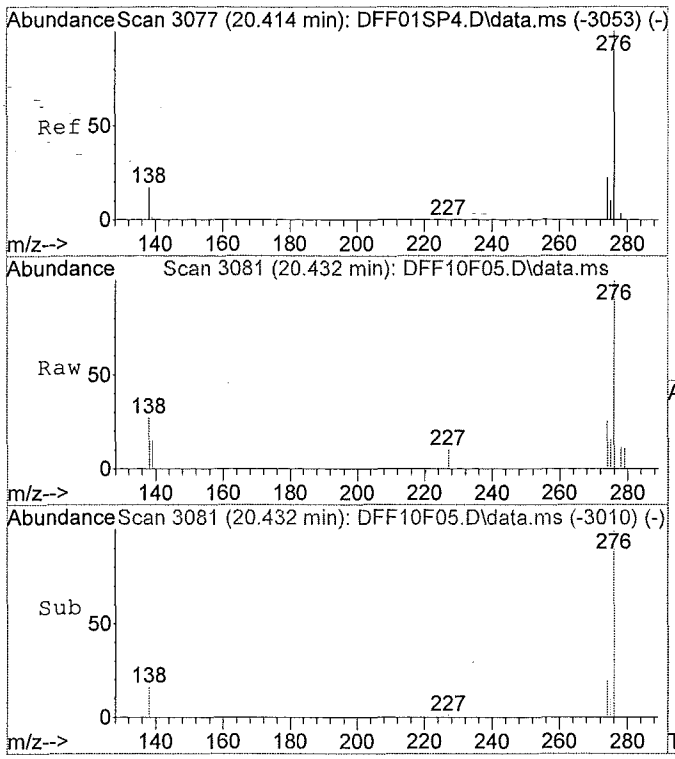


#22
Benzo(a)pyrene
Concen: 0.41 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:252 Resp: 281452

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.0	27.8
125	9.3	0.0	0.0#
0	0.0	0.0	0.0

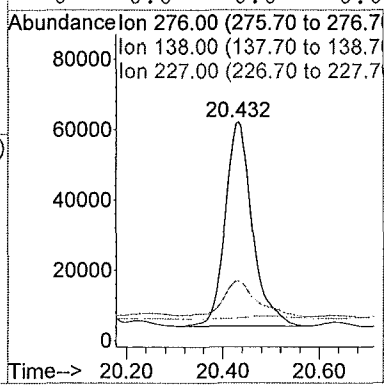


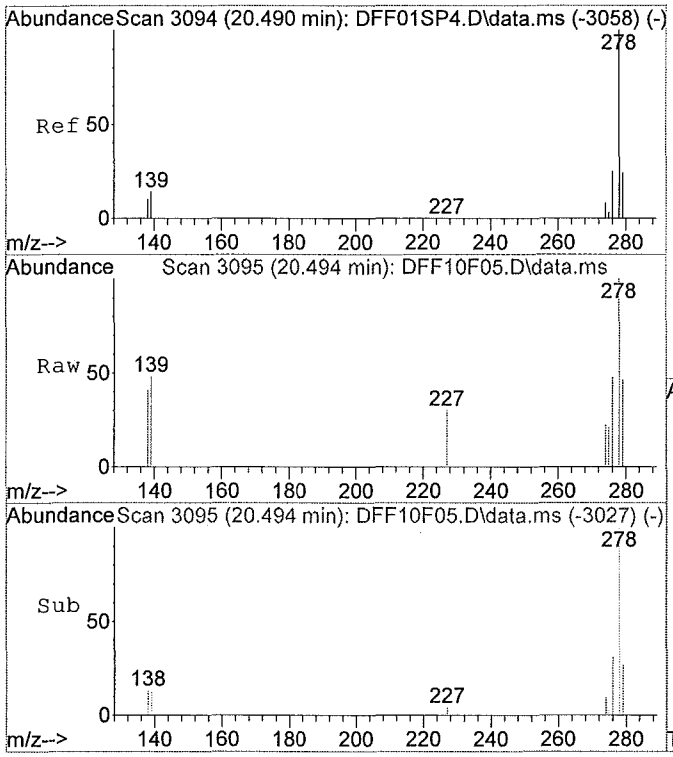


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.38 ug/ml
RT: 20.43 min Scan# 3081
Delta R.T. 0.02 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:276 Resp: 226034

Ion	Ratio	Lower	Upper
276	100		
138	21.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

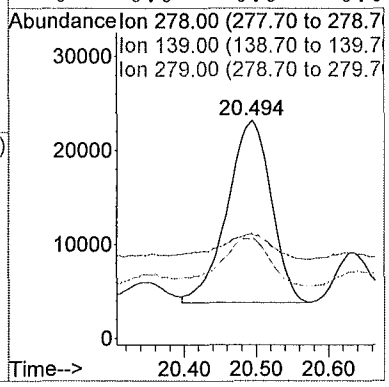


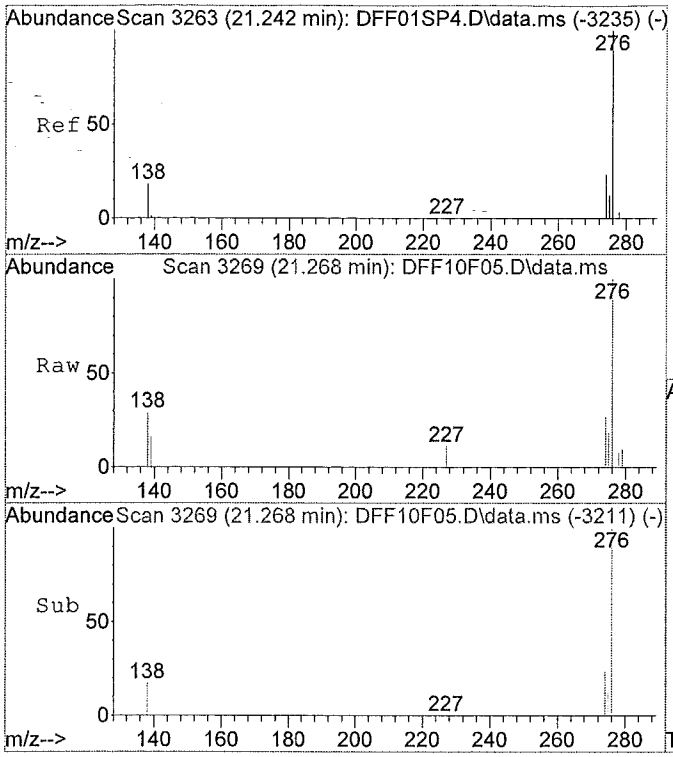


#24
Dibenzo(a,h)anthracene
Concen: 0.12 ug/ml
RT: 20.49 min Scan# 3095
Delta R.T. 0.00 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:278 Resp: 81998

Ion	Ratio	Lower	Upper
278	100		
139	16.2	0.0	0.0#
279	26.8	15.8	29.3
0	0.0	0.0	0.0

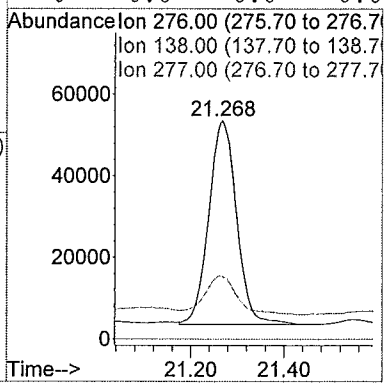




#25
Benzo(g,h,i)perylene
Concen: 0.31 ug/ml
RT: 21.27 min Scan# 3269
Delta R.T. 0.03 min
Lab File: DFF10F05.D
Acq: 07/09/2015 16:46

Tgt Ion:276 Resp: 207016

Ion	Ratio	Lower	Upper
276	100		
138	22.1	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.

F9KX4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514071002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFT13F02

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

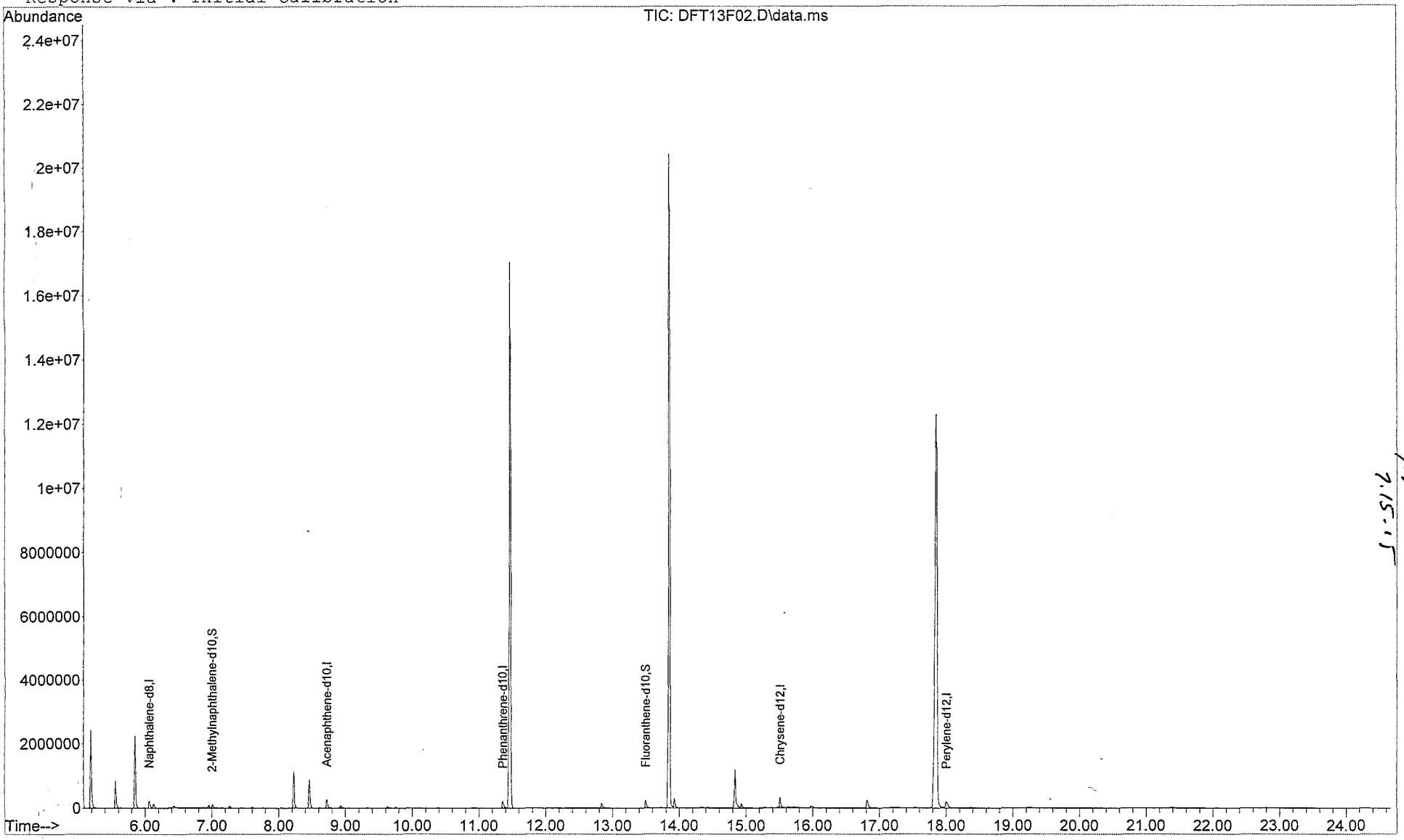
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT13F02.D Vial: 13
Acq On : 06/04/2015 19:03 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 07:02:39 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:\D\2015\JUN15\04JUN15\04JUN15\DFT13F02.D Vial: 13
Acq On : 06/04/2015 19:03 Operator: DJC
Sample : 1514071002 F9KX4 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 07:02:39 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	6.07	136	251813	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	178019	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	313250	0.40 ug/ml
15) Chrysene-d12	15.51	240	324697	0.40 ug/ml
19) Perylene-d12	18.01	264	355462	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	102823	0.253ug/mL
13) Fluoranthene-d10	13.50	212	266206	0.311ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

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

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9KX5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFT06F06

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

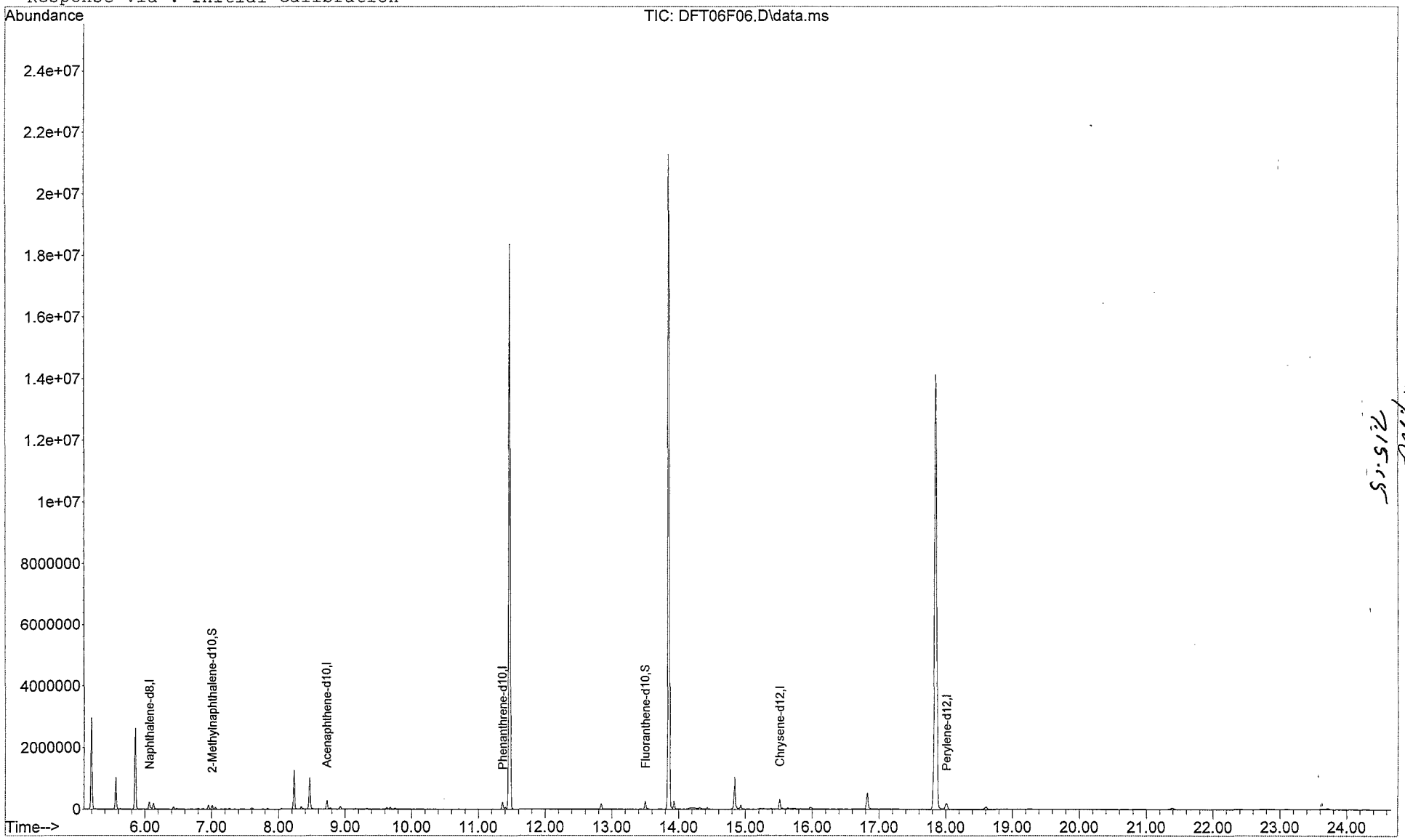
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.9	J
91-57-6	2-Methylnaphthalene	2.7	J
208-96-8	Acenaphthylene	1.5	J
83-32-9	Acenaphthene	1.6	J
86-73-7	Fluorene	2.0	J
87-86-5	Pentachlorophenol	1.5	J
85-01-8	Phenanthrene	2.6	J
120-12-7	Anthracene	1.6	J
206-44-0	Fluoranthene	0.96	J
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT06F06.D Vial: 6
Acq On : 06/04/2015 15:32 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 08:15:31 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

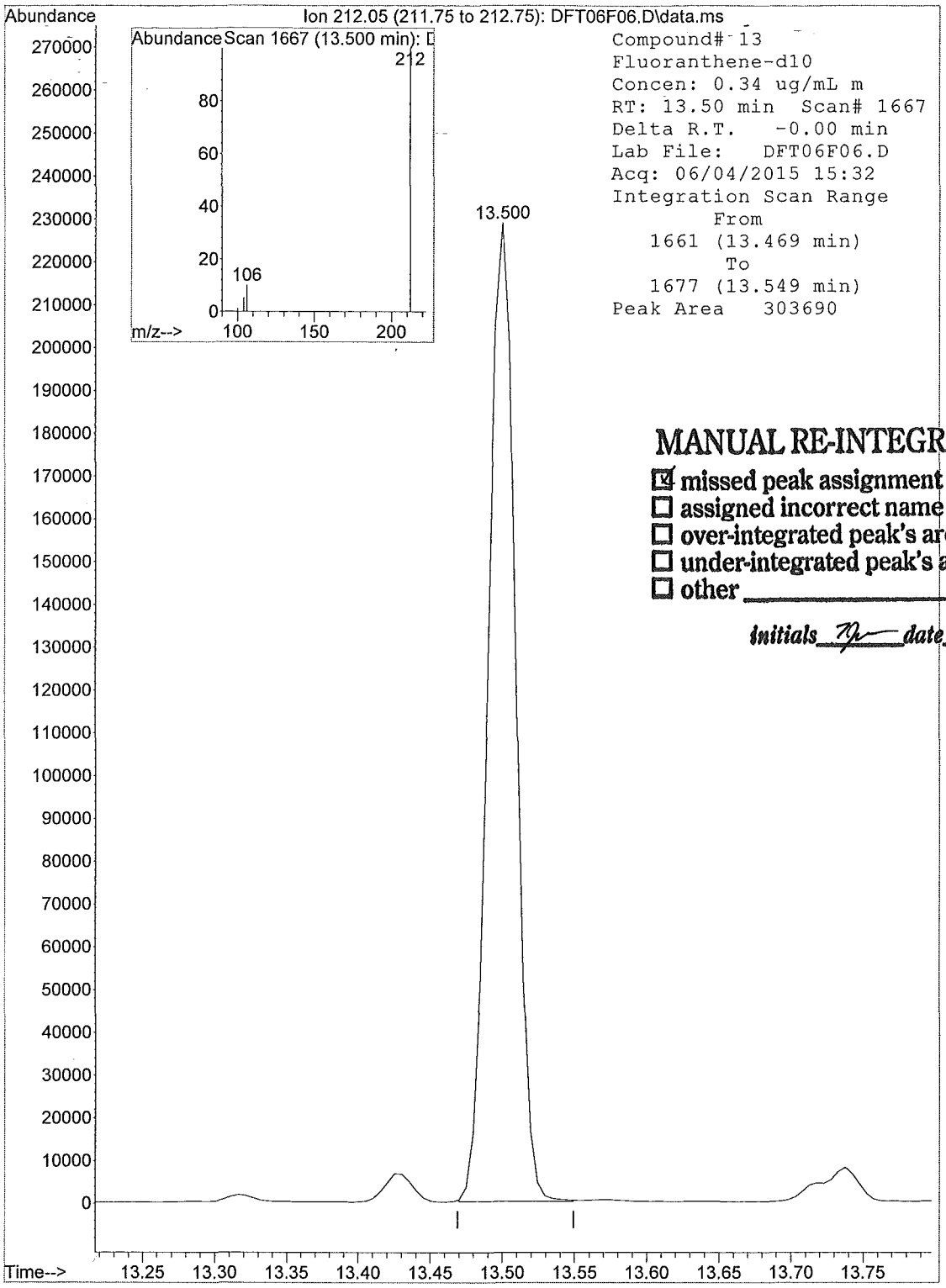
Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT06F06.D Vial: 6
Acq On : 06/04/2015 15:32 Operator: DJC
Sample : 1513978006 F9KX5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 08:15:31 2015 Results File: DSOM_SIMJ2.RES

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	6.07	136	272509	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	195273	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	325691	0.40 ug/ml
15) Chrysene-d12	15.51	240	347824	0.40 ug/ml
19) Perylene-d12	18.01	264	373432	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	134529	0.306ug/mL
13) Fluoranthene-d10	13.50	212	303690	0.341ug/mL m 7-15-15
Target Compounds				Qvalue
2) Naphthalene	6.09	128	34587	0.049ug/ml 94
4) 2-Methylnaphthalene	7.06	142	32357	0.071ug/ml 99
6) Acenaphthylene	8.49	152	33564	0.039ug/ml 77
7) Acenaphthene	8.78	153	22363	0.041ug/ml 94
8) Fluorene	9.68	166	33409	0.053ug/ml 99
10) Pentachlorophenol	11.02	266	1897	0.039ug/ml 100
11) Phenanthrene	11.40	178	63144	0.067ug/ml 99
12) Anthracene	11.50	178	38101	0.042ug/ml 96
14) Fluoranthene	13.53	202	26290	0.025ug/ml 97
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)

M A N U A L I N T E G R A T I O N FOR Fluoranthene-d10

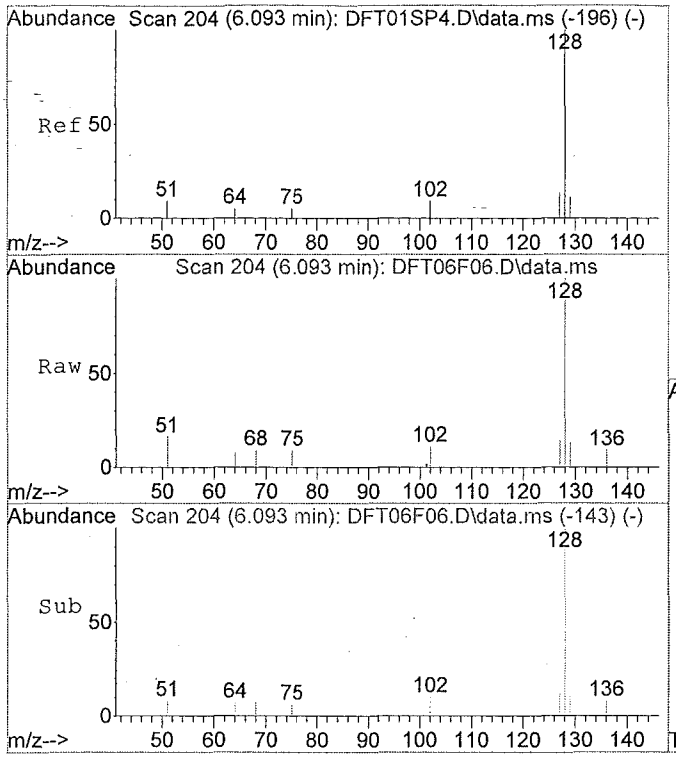


Compound# 13
Fluoranthene-d10
Concen: 0.34 ug/mL m
RT: 13.50 min Scan# 1667
Delta R.T. -0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32
Integration Scan Range
From
1661 (13.469 min)
To
1677 (13.549 min)
Peak Area 303690

MANUAL RE-INTEGRATION

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

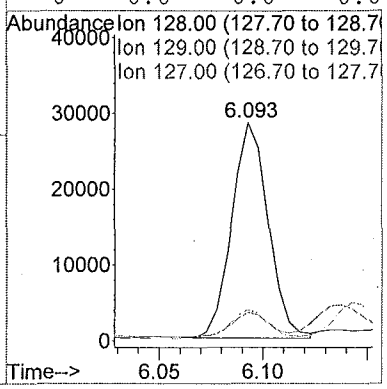
initials TP *date* 7.15.15

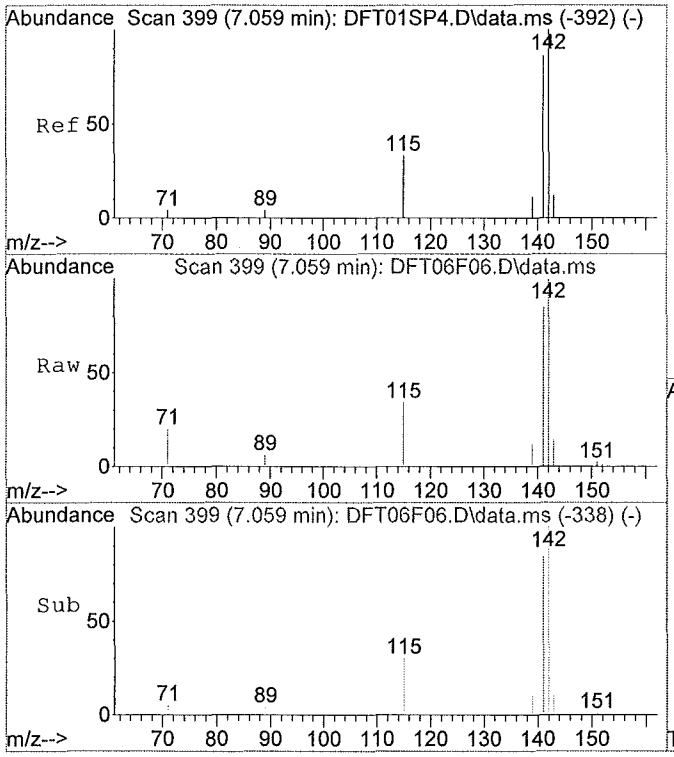


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:128 Resp: 34587

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	0.0#
127	13.4	11.1	20.5
0	0.0	0.0	0.0

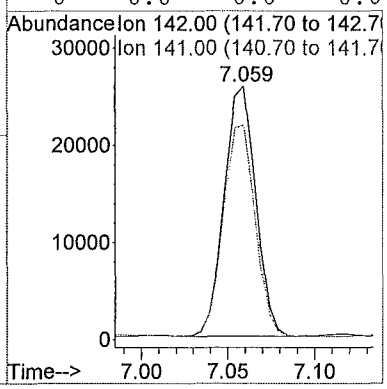


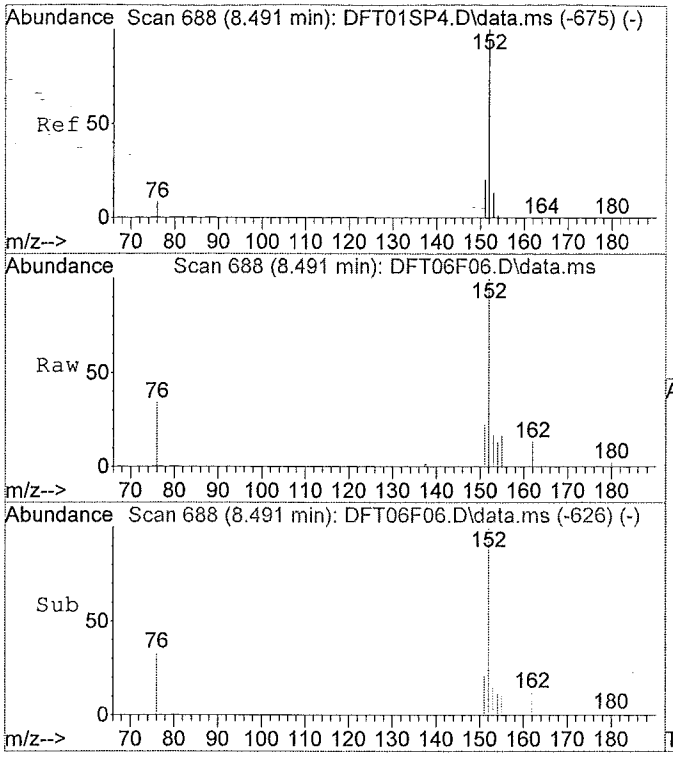


#4
2-Methylnaphthalene
Concen: 0.07 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:142 Resp: 32357

Ion	Ratio	Lower	Upper
142	100		
141	86.2	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

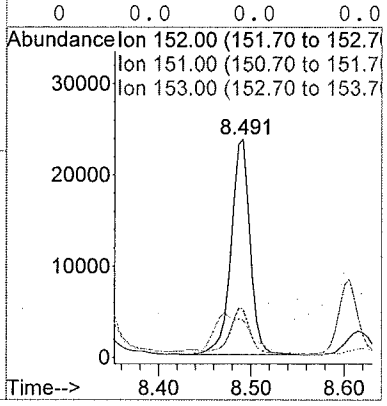


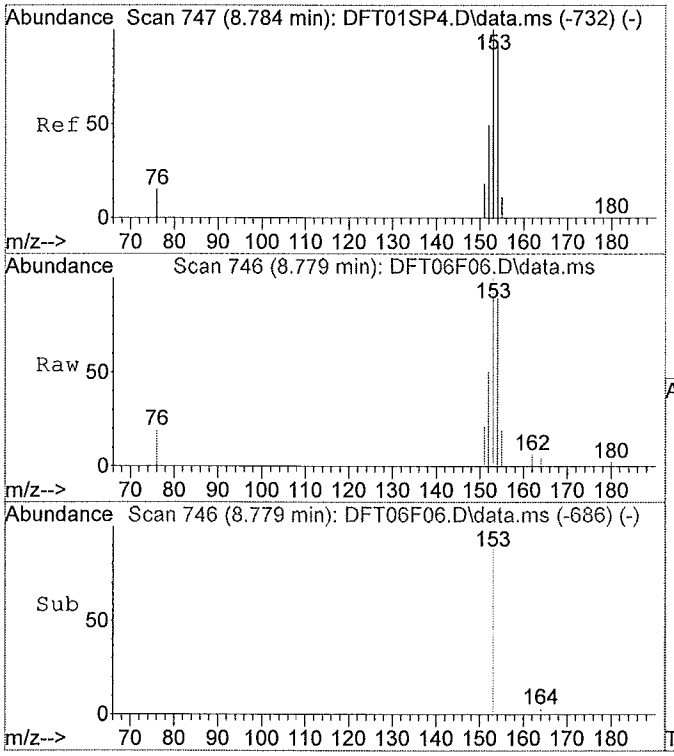


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 688
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:152 Resp: 33564

Ion	Ratio	Lower	Upper
152	100		
151	21.5	15.5	28.7
153	36.5	8.8	16.4#
0	0.0	0.0	0.0

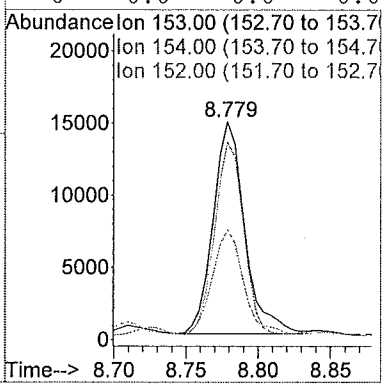


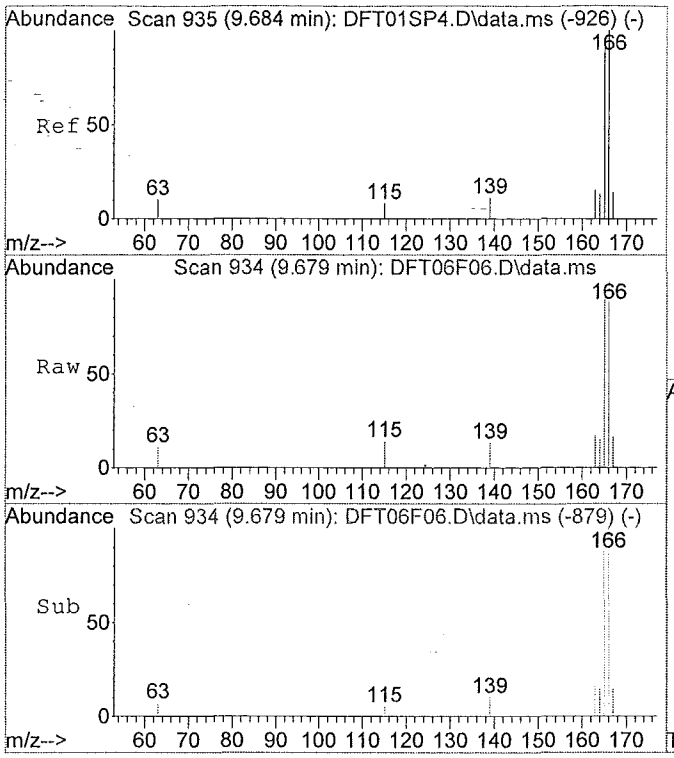


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:153 Resp: 22363

Ion	Ratio	Lower	Upper
153	100		
154	85.2	65.1	120.9
152	49.0	35.2	65.4
0	0.0	0.0	0.0

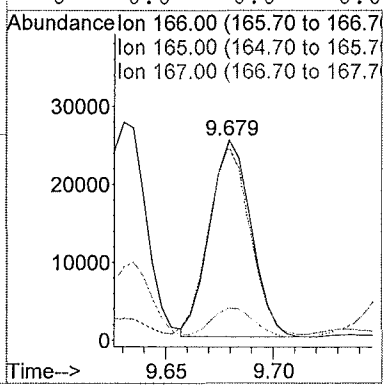


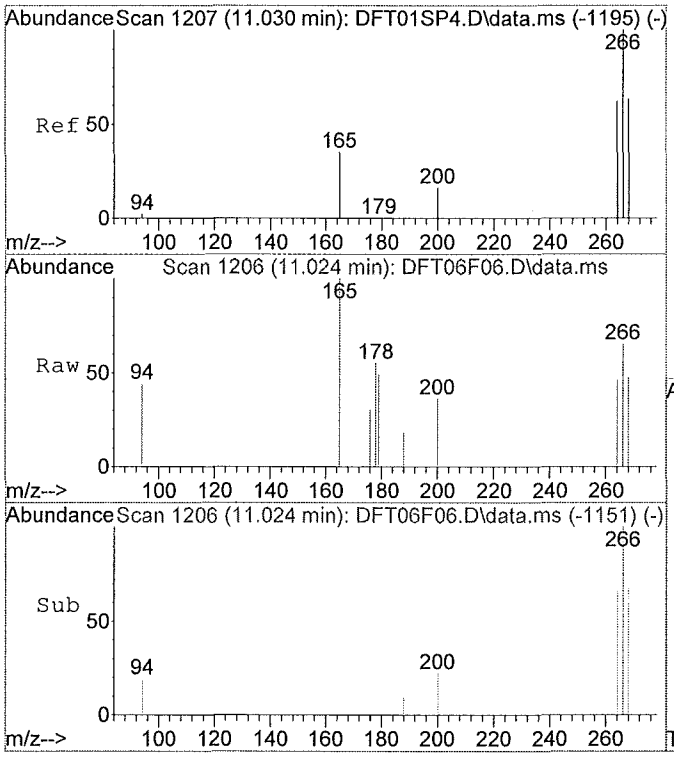


#8
Fluorene
Concen: 0.Q5 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:166 Resp: 33409

Ion	Ratio	Lower	Upper
166	100		
165	95.2	66.3	123.1
167	15.8	0.0	0.0#
0	0.0	0.0	0.0

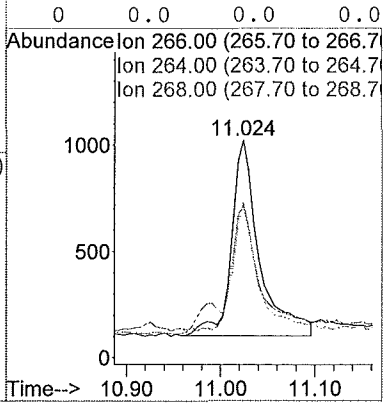


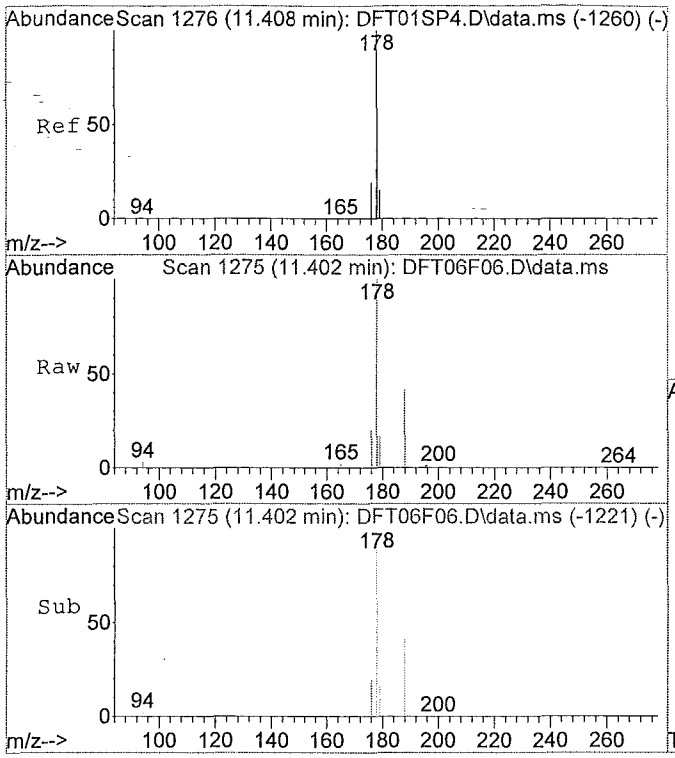


#10
Pentachlorophenol
Concen: 0.04 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:266 Resp: 1897

Ion	Ratio	Lower	Upper
266	100		
264	64.2	0.0	0.0#
268	57.7	0.0	0.0#
0	0.0	0.0	0.0

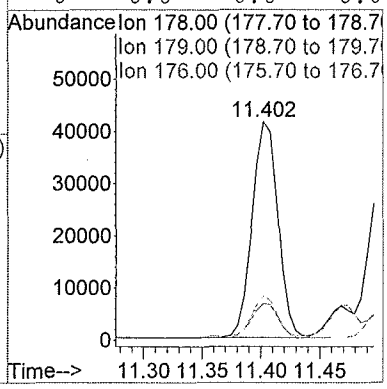


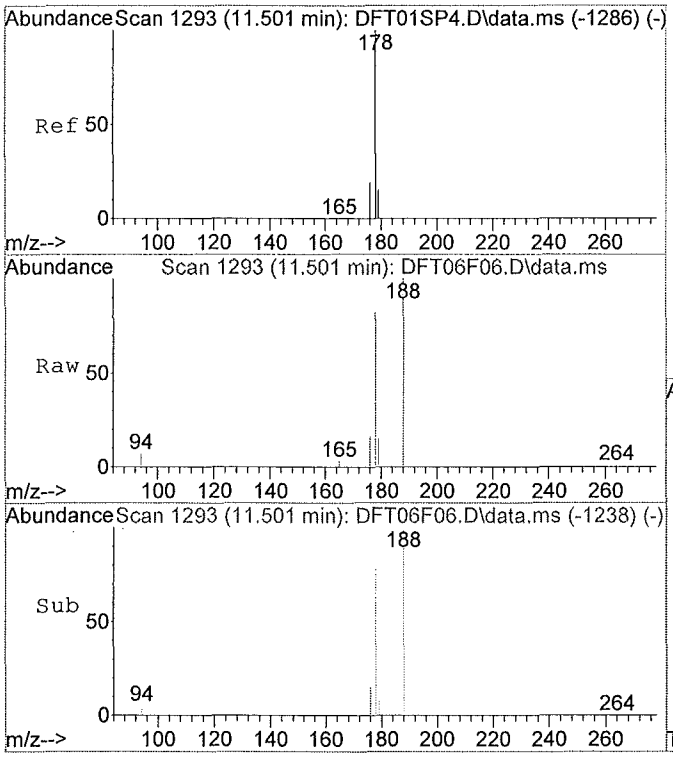


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:178 Resp: 63144

Ion	Ratio	Lower	Upper
178	100		
179	16.8	11.1	20.5
176	20.0	14.1	26.1
0	0.0	0.0	0.0

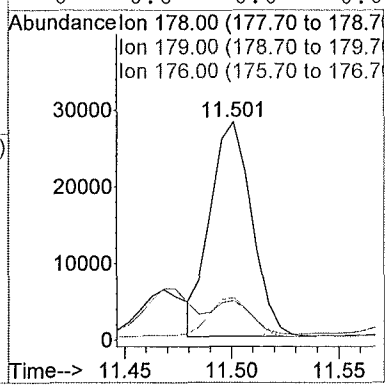


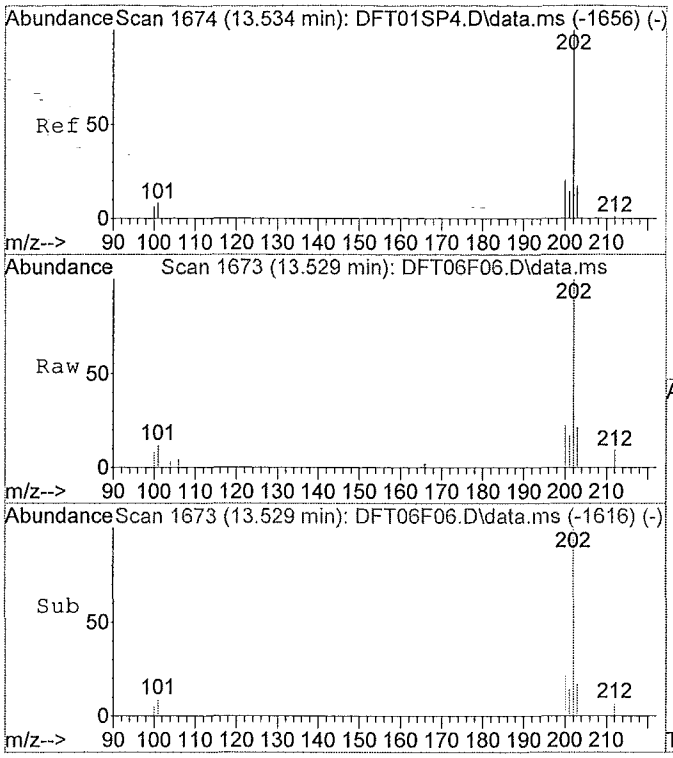


#12
Anthracene
Concen: 0.04 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:178 Resp: 38101

Ion	Ratio	Lower	Upper
178	100		
179	12.4	11.6	21.6
176	19.8	13.9	25.7
0	0.0	0.0	0.0

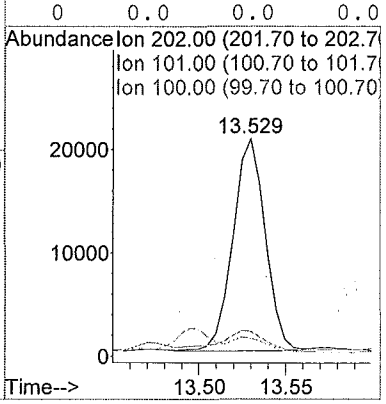




#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT06F06.D
Acq: 06/04/2015 15:32

Tgt Ion:202 Resp: 26290

Ion	Ratio	Lower	Upper
202	100		
101	12.5	9.4	17.6
100	7.9	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.

F9KY4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFF11F07

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	2.2	J
208-96-8	Acenaphthylene	2.6	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	0.76	J
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	4.6	
120-12-7	Anthracene	3.3	J
206-44-0	Fluoranthene	8.4	
129-00-0	Pyrene	11.	
56-55-3	Benzo(a)anthracene	8.4	
218-01-9	Chrysene	10.	
205-99-2	Benzo(b)fluoranthene	13.	
207-08-9	Benzo(k)fluoranthene	3.8	
50-32-8	Benzo(a)pyrene	7.2	
193-39-5	Indeno(1,2,3-cd)pyrene	7.0	
53-70-3	Dibenzo(a,h)anthracene	1.8	J
191-24-2	Benzo(g,h,i)perylene	4.1	

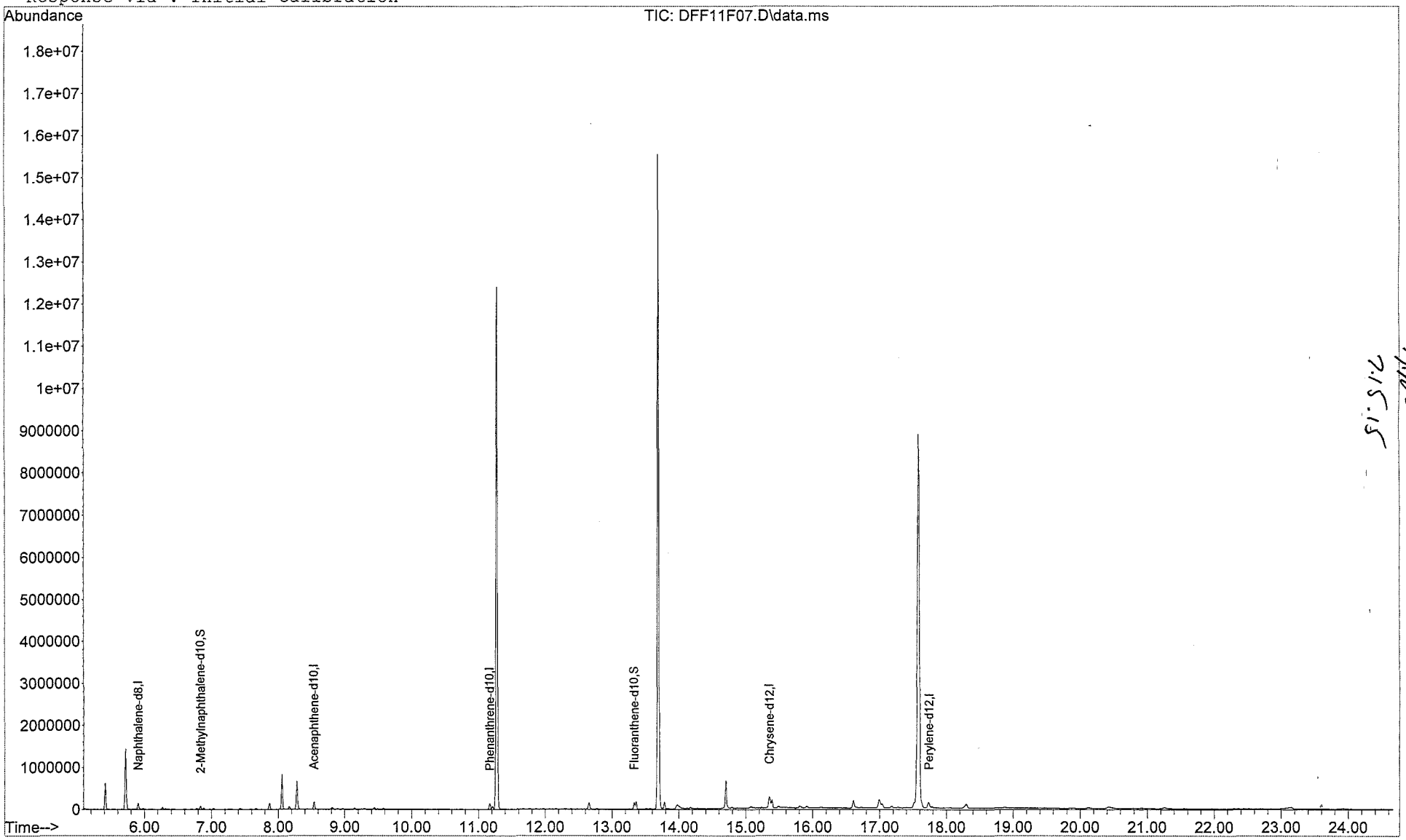
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF11F07.D
Acq On : 07/09/2015 17:17
Sample : 1513978007 F9KY4
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 11
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:01:36 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 13:38:19 2015
Response via : Initial Calibration



7.15.15

Quantitation Report

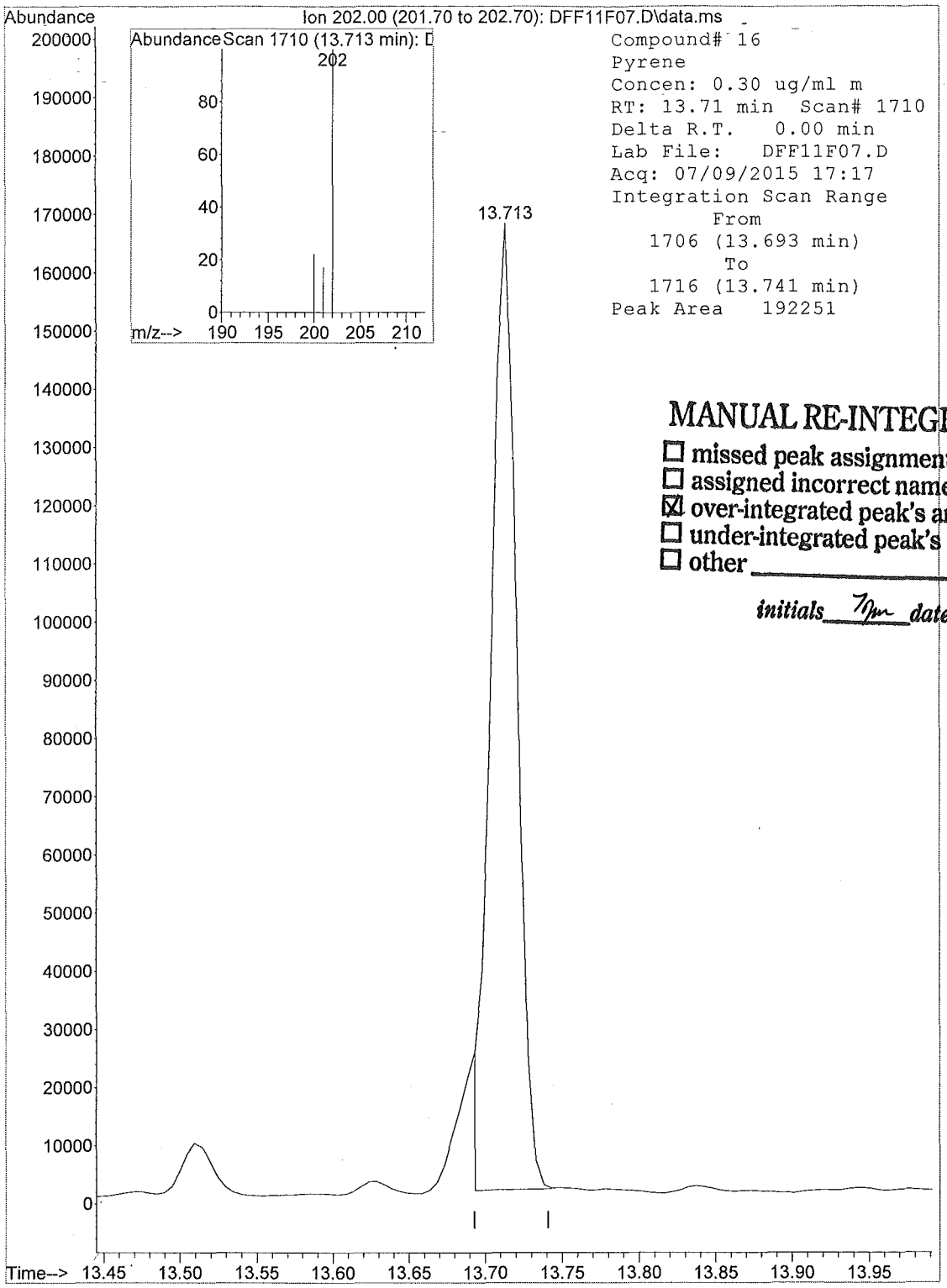
Data File : R:\D\2015\JUL15\09JUL15\DFF11F07.D Vial: 11
Acq On : 07/09/2015 17:17 Operator: DJC
Sample : 1513978007 F9KY4 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:01:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	162211	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	115835	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	187732	0.40 ug/ml	
15) Chrysene-d12	15.35	240	207094	0.40 ug/ml	
19) Perylene-d12	17.73	264	224084	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	81409	0.311ug/mL	
13) Fluoranthene-d10	13.33	212	178064	0.347ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	19542	0.046ug/ml	95
4) 2-Methylnaphthalene	6.88	142	15648	0.057ug/ml	98
6) Acenaphthylene	8.30	152	34556	0.068ug/ml	86
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.49	166	7677	0.020ug/ml	77
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.21	178	66038	0.122ug/ml	99
12) Anthracene	11.30	178	46173	0.088ug/ml	93
14) Fluoranthene	13.36	202	138649	0.225ug/ml	89
16) Pyrene	13.71	202	192251	0.296ug/ml m	1 7.15.15
17) Benzo(a)anthracene	15.34	228	123881	0.224ug/ml	77
18) Chrysene	15.39	228	160430	0.275ug/ml	95
20) Benzo(b)fluoranthene	16.99	252	251424	0.360ug/ml	99
21) Benzo(k)fluoranthene	17.03	252	73969	0.102ug/ml m	98 7.15.15
22) Benzo(a)pyrene	17.62	252	128965	0.193ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.42	276	108845	0.186ug/ml	100
24) Dibenzo(a,h)anthracene	20.49	278	31223	0.048ug/ml	88
25) Benzo(g,h,i)perylene	21.26	276	71960	0.110ug/ml	70

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

M A N U A L I N T E G R A T I O N FOR Pyrene



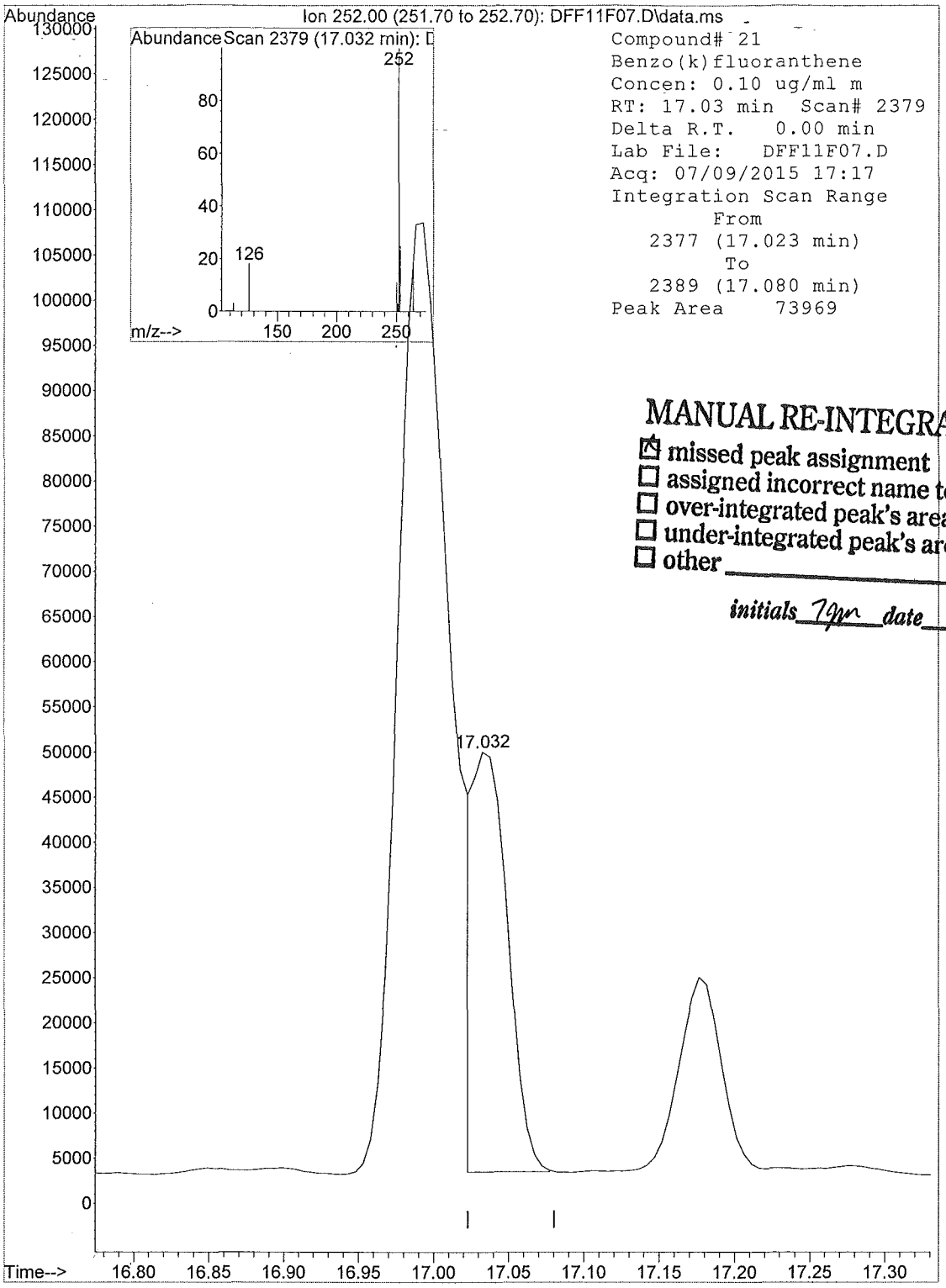
Compound# 16
Pyrene
Concen: 0.30 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17
Integration Scan Range
From
1706 (13.693 min)
To
1716 (13.741 min)
Peak Area 192251

MANUAL RE-INTEGRATION

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

initials Tpm *date* 7.15.15

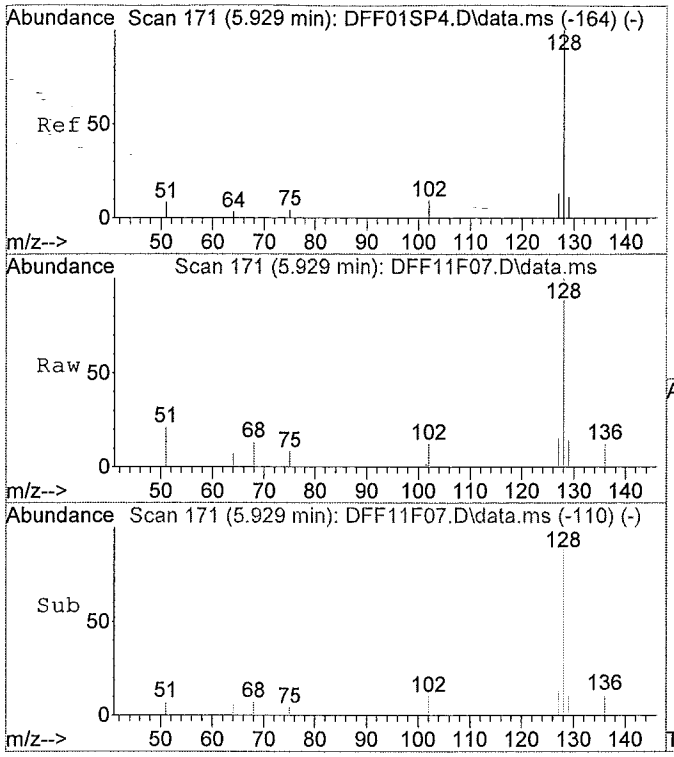
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

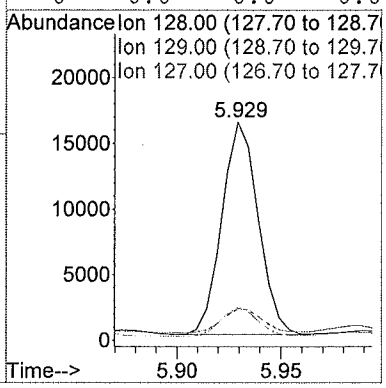
initials TJM *date* 7.15.15

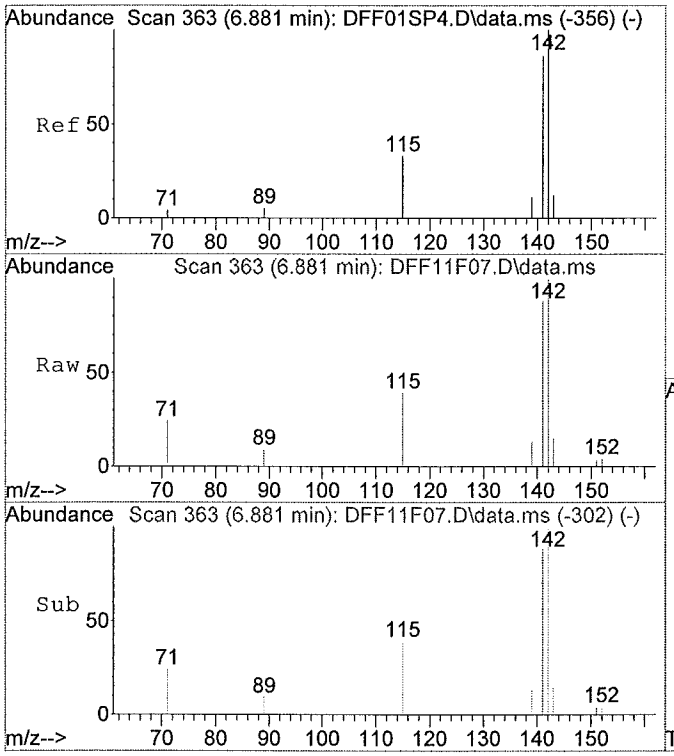


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:128 Resp: 19542

Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	0.0#
127	13.7	11.1	20.5
0	0.0	0.0	0.0

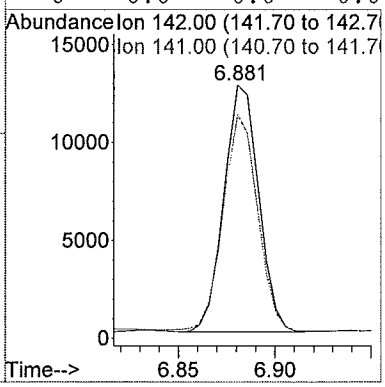


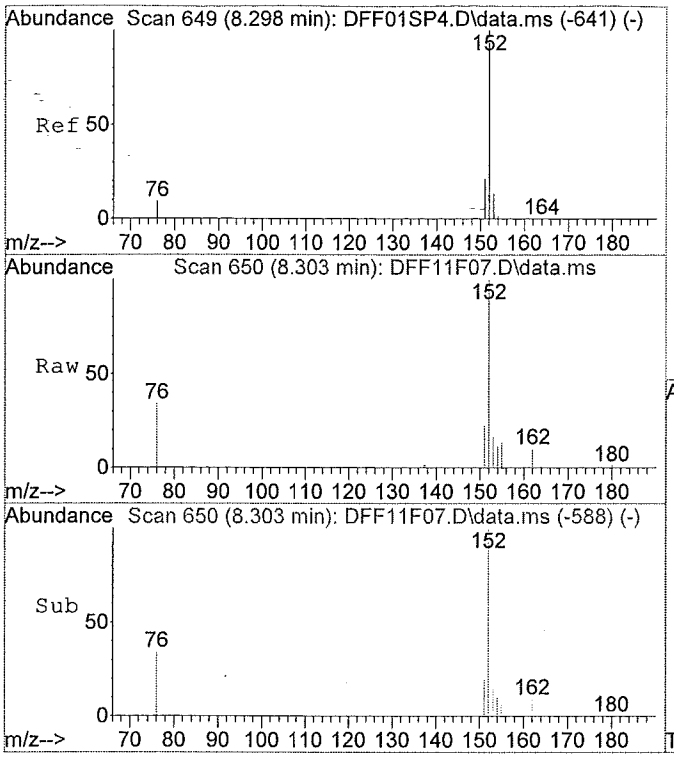


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 6.88 min Scan# 363
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:142 Resp: 15648

Ion	Ratio	Lower	Upper
142	100		
141	88.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

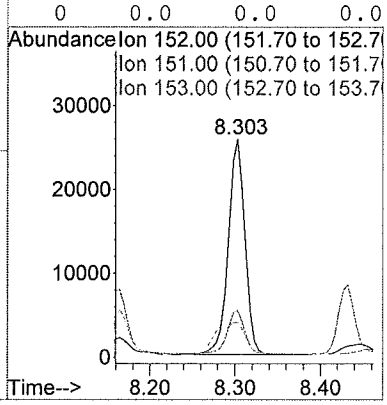


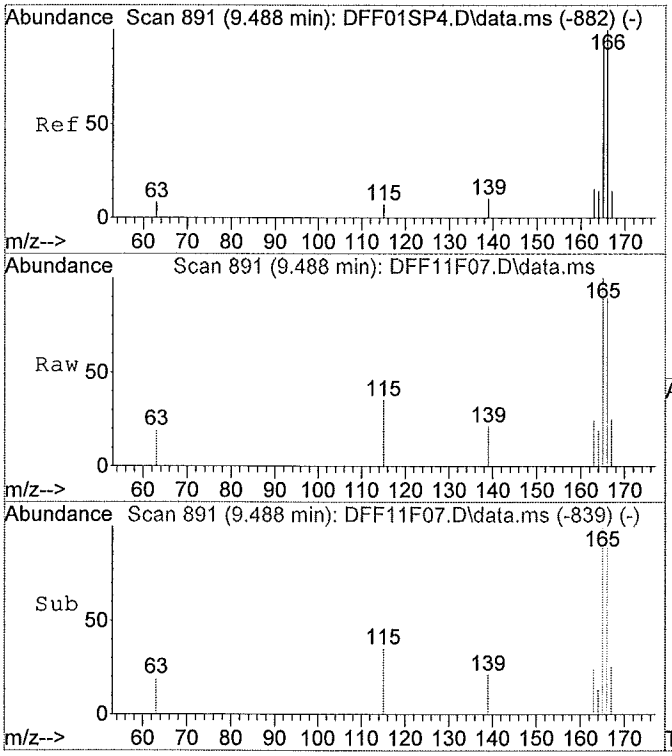


#6
Acenaphthylene
Concen: 0.07 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:152 Resp: 34556

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.5	28.7
153	27.0	8.8	16.4#
0	0.0	0.0	0.0

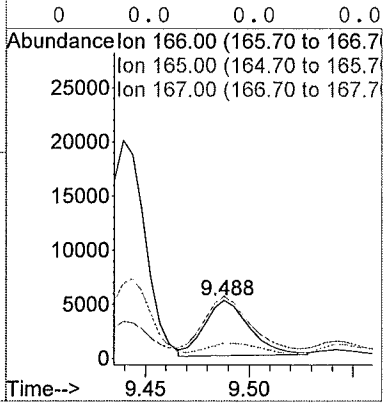


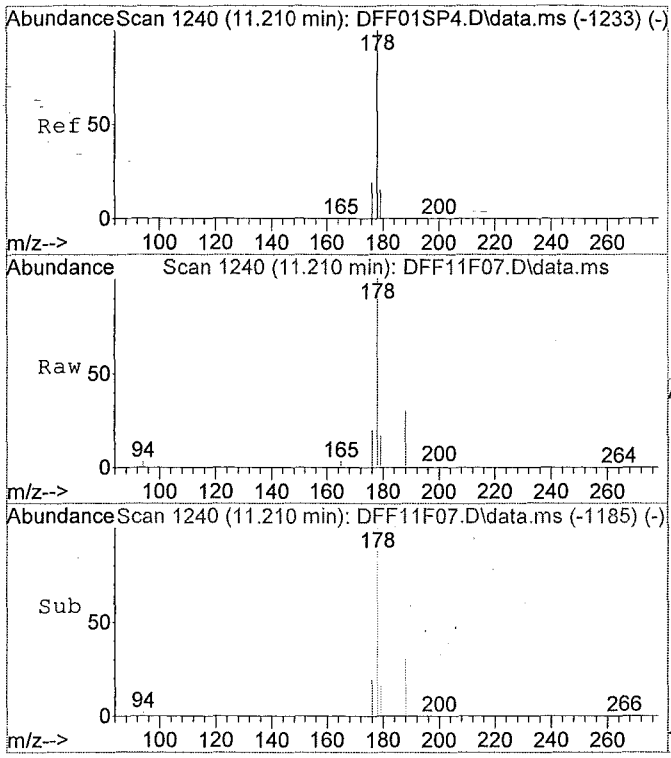


#8
Fluorene
Concen: 0.02 ug/ml
RT: 9.49 min Scan# 891
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:166 Resp: 7677

Ion	Ratio	Lower	Upper
166	100		
165	116.9	66.3	123.1
167	28.0	0.0	0.0#
0	0.0	0.0	0.0

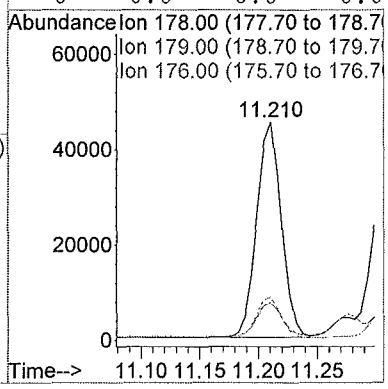


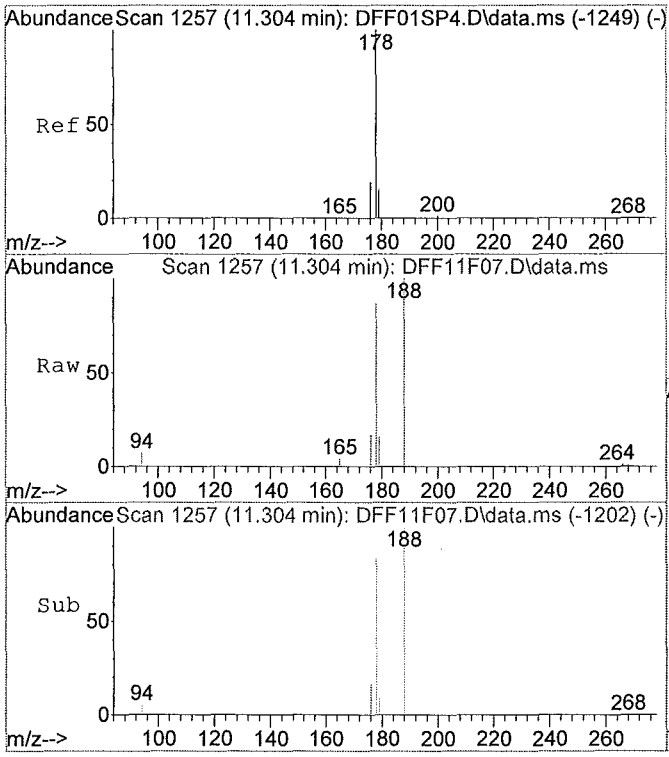


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:178 Resp: 66038

Ion	Ratio	Lower	Upper
178	100		
179	16.6	11.1	20.5
176	20.0	14.1	26.1
0	0.0	0.0	0.0

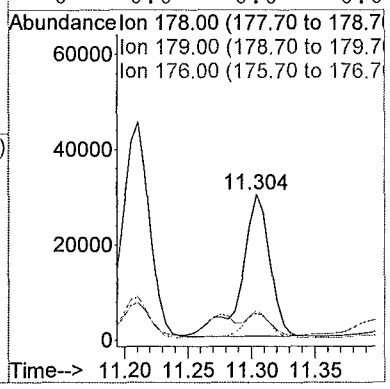


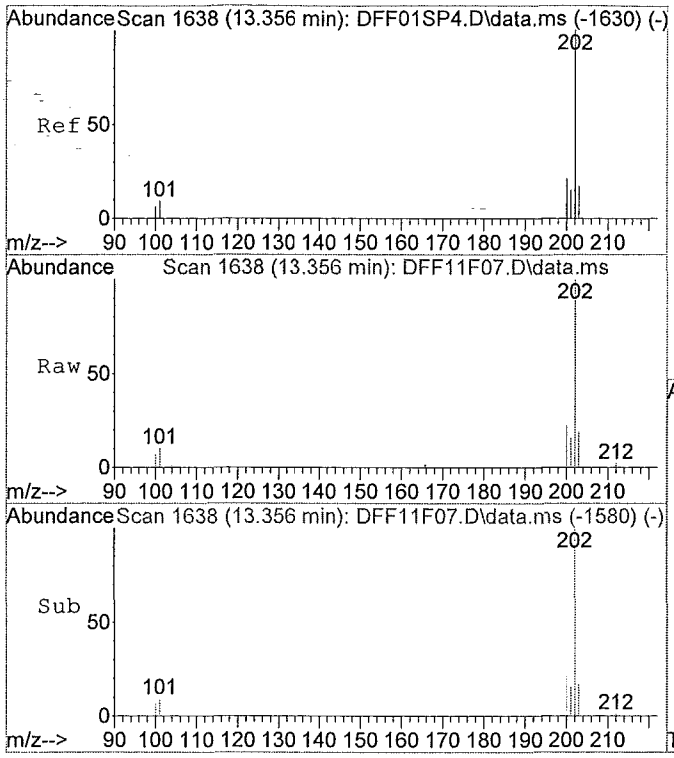


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:178 Resp: 46173

Ion	Ratio	Lower	Upper
178	100		
179	11.8	11.6	21.6
176	18.0	13.9	25.7
0	0.0	0.0	0.0

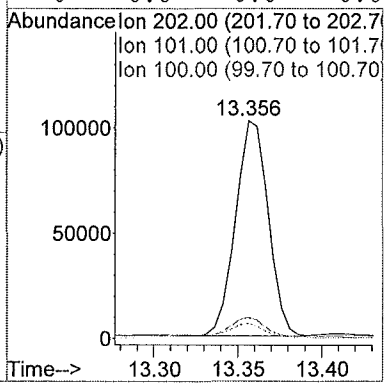


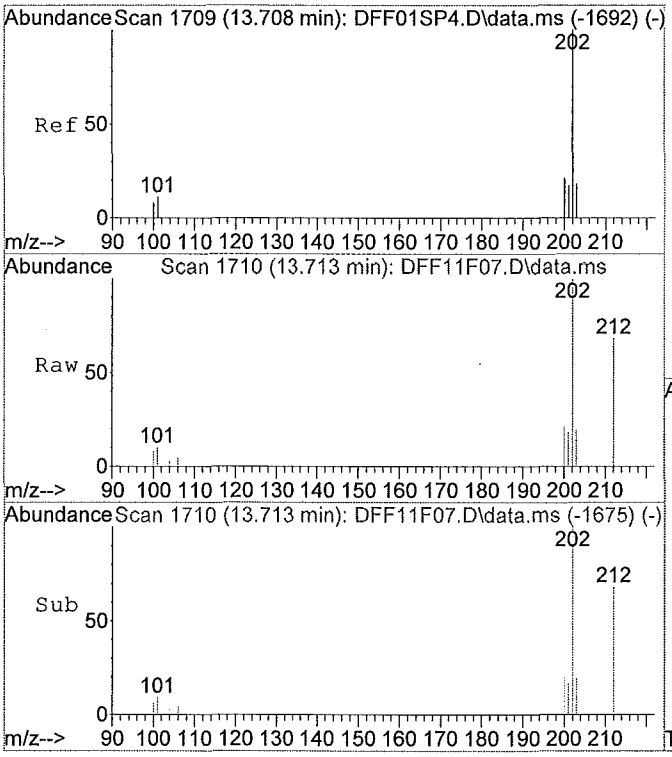


#14
Fluoranthene
Concen: 0.23 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:202 Resp: 138649

Ion	Ratio	Lower	Upper
202	100		
101	8.9	9.4	17.6#
100	8.5	0.0	0.0#
0	0.0	0.0	0.0

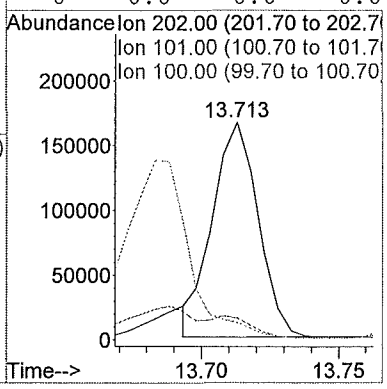


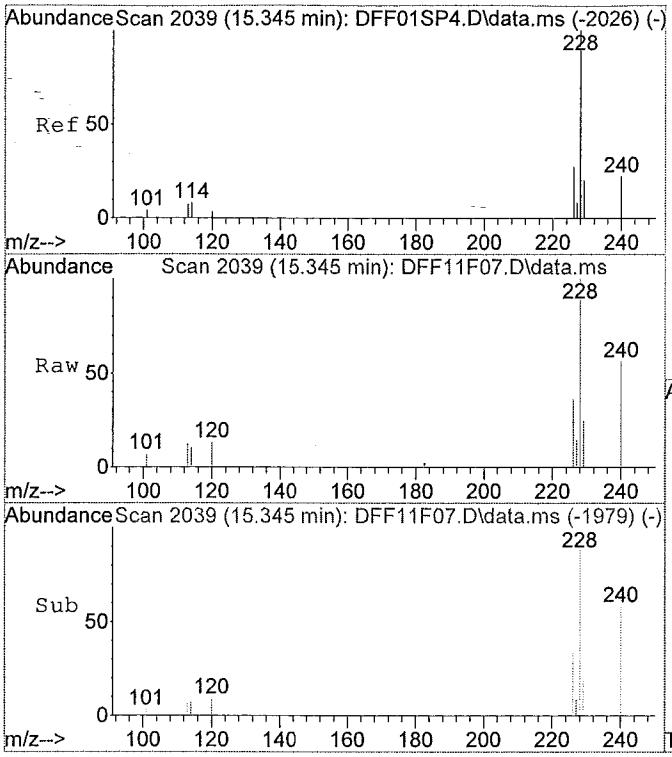


#16
Pyrene
Concen: 0.30 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:202 Resp: 192251

Ion	Ratio	Lower	Upper
202	100		
101	24.8	10.6	19.6#
100	119.7	9.4	17.4#
0	0.0	0.0	0.0

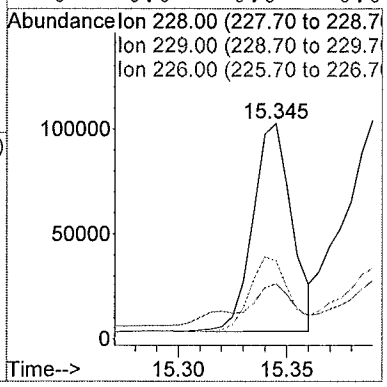


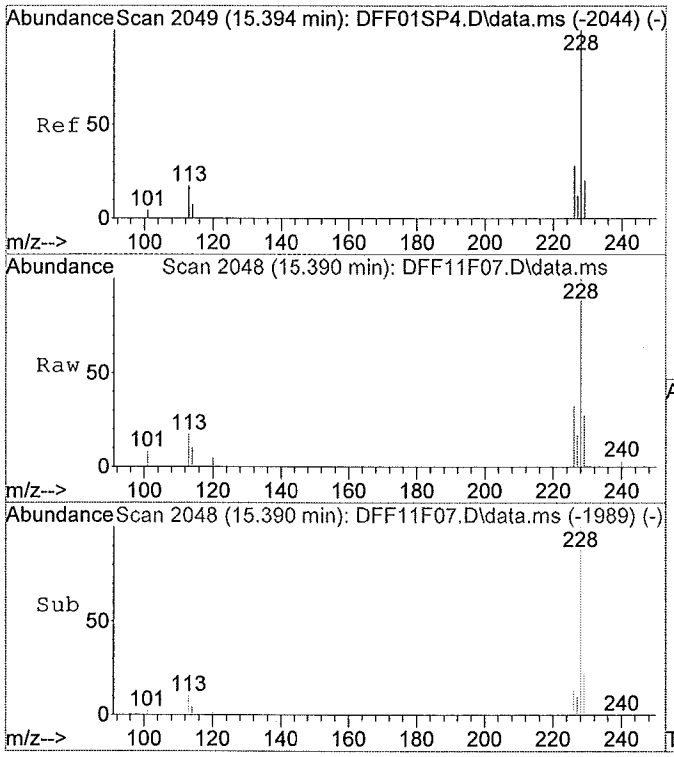


#17
Benzo(a)anthracene
Concen: 0.22 ug/ml
RT: 15.34 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:228 Resp: 123881

Ion	Ratio	Lower	Upper
228	100		
229	32.8	14.5	26.9#
226	36.8	18.5	34.3#
0	0.0	0.0	0.0

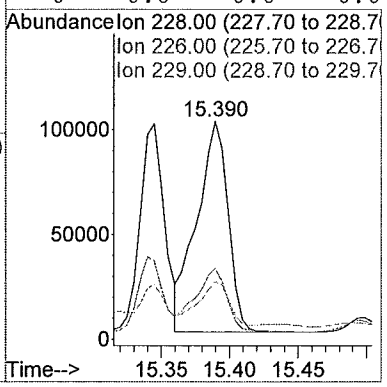


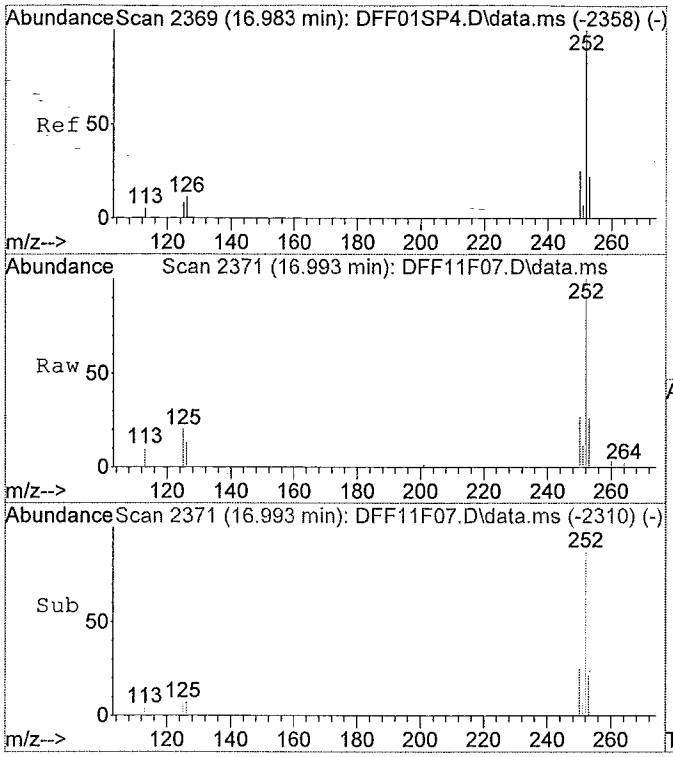


#18
Chrysene
Concen: 0.27 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:228 Resp: 160430

Ion	Ratio	Lower	Upper
228	100		
226	31.7	19.7	36.7
229	19.3	14.5	26.9
0	0.0	0.0	0.0

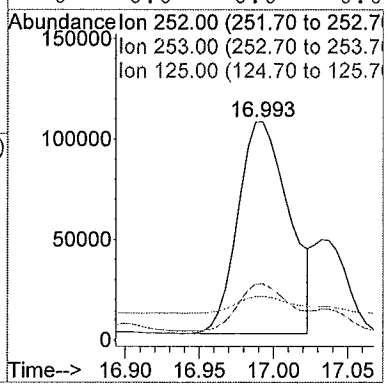


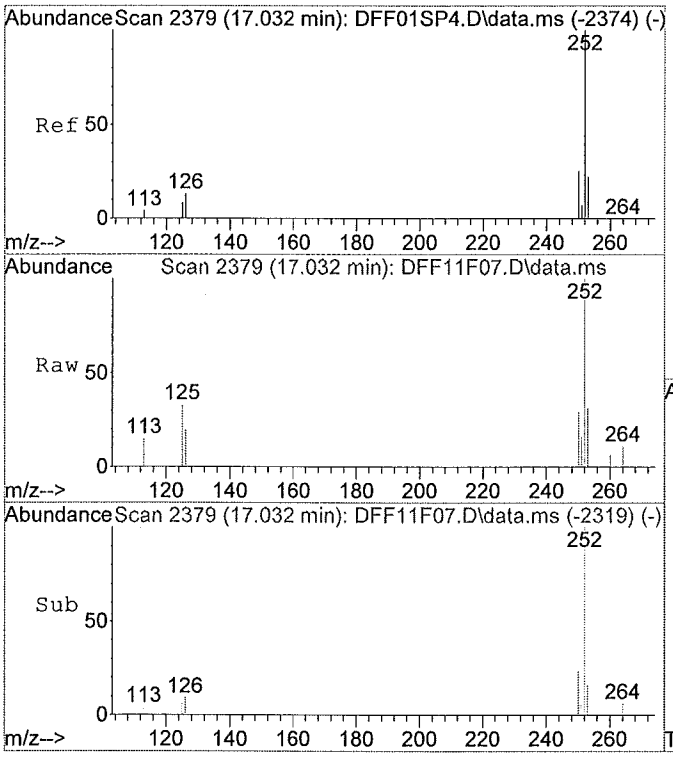


#20
Benzo(b)fluoranthene
Concen: 0.36 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:252 Resp: 251424

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	12.2	0.0	0.0#
0	0.0	0.0	0.0

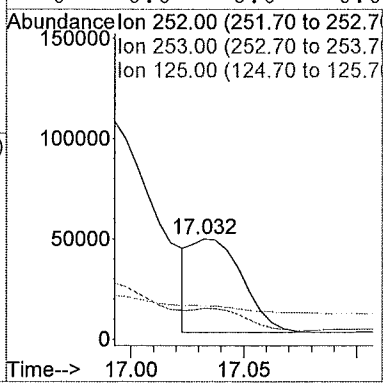


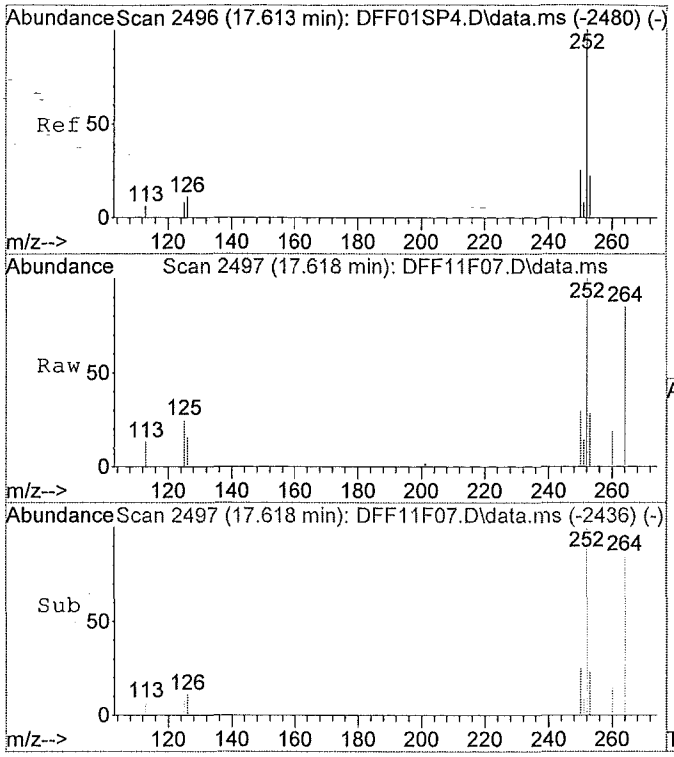


#21
Benzo(k)fluoranthene
Concen: 0.10 ug/ml m
RT: 17.03 min Scan# 2379
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:252 Resp: 73969

Ion	Ratio	Lower	Upper
252	100		
253	76.4	15.0	27.8#
125	41.4	0.0	0.0#
0	0.0	0.0	0.0

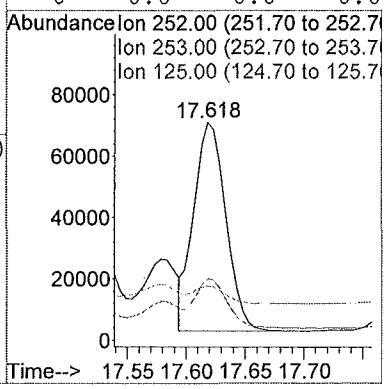


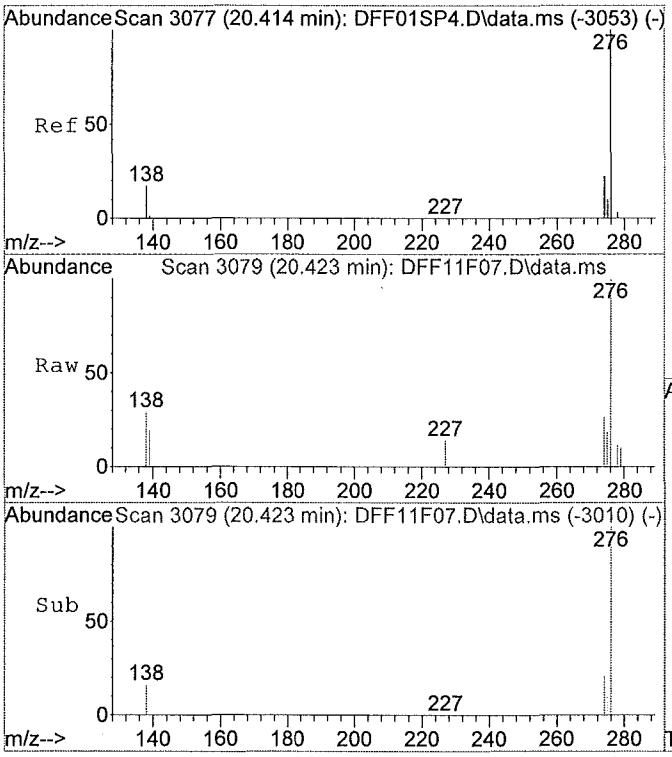


#22
Benzo(a)pyrene
Concen: 0.19 ug/ml
RT: 17.62 min Scan# 2497
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:252 Resp: 128965

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.0	27.8
125	8.0	0.0	0.0#
0	0.0	0.0	0.0

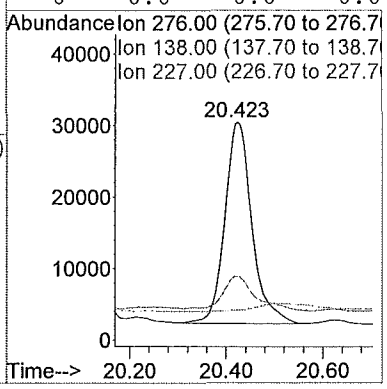


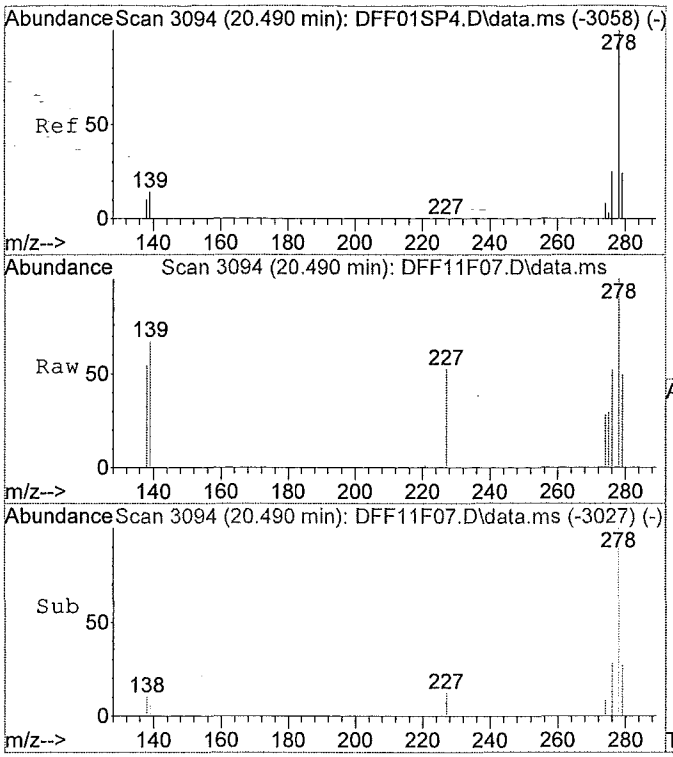


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.19 ug/ml
RT: 20.42 min Scan# 3079
Delta R.T. 0.01 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:276 Resp: 108845

Ion	Ratio	Lower	Upper
276	100		
138	20.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

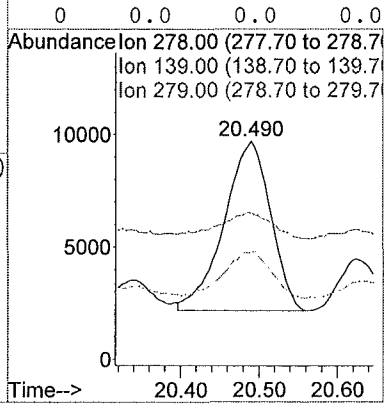


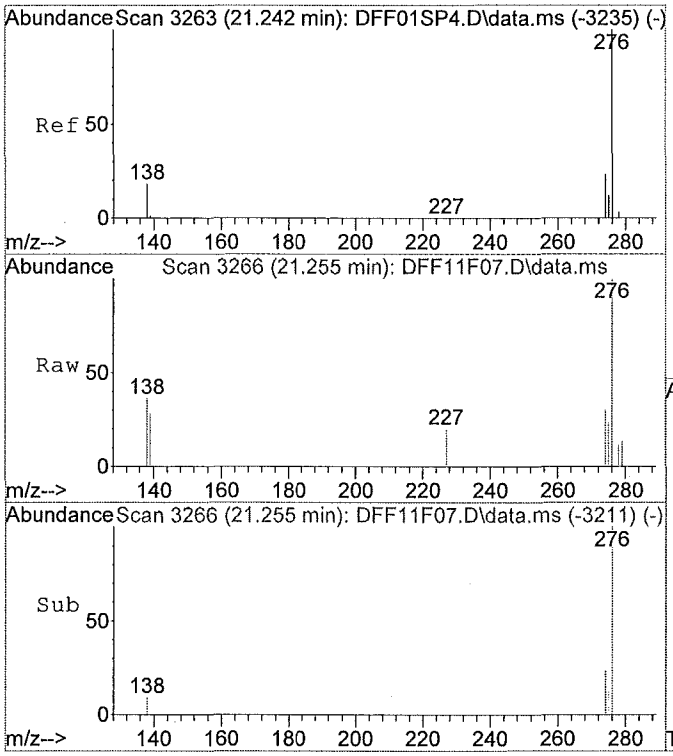


#24
Dibenzo(a,h)anthracene
Concen: 0.05 ug/ml
RT: 20.49 min Scan# 3094
Delta R.T. 0.00 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:278 Resp: 31223

Ion	Ratio	Lower	Upper
278	100		
139	17.3	0.0	0.0#
279	28.1	15.8	29.3
0	0.0	0.0	0.0

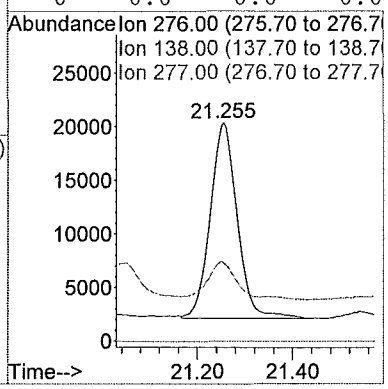




#25
Benzo(g,h,i)perylene
Concen: 0.11 ug/ml
RT: 21.26 min Scan# 3266
Delta R.T. 0.01 min
Lab File: DFF11F07.D
Acq: 07/09/2015 17:17

Tgt Ion:276 Resp: 71960

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:

F9KY5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT07F08

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

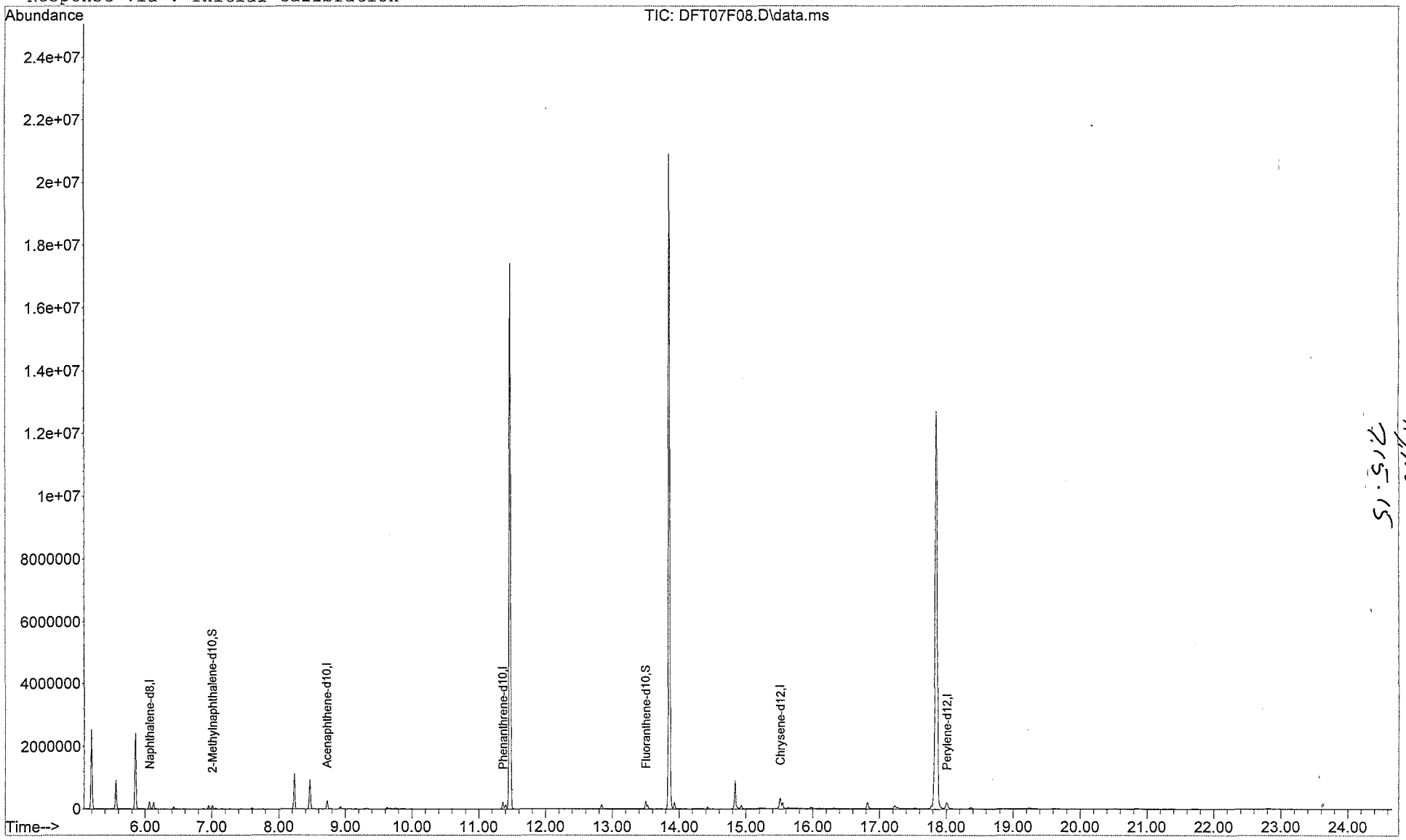
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.81	J
91-57-6	2-Methylnaphthalene	1.2	J
208-96-8	Acenaphthylene	1.0	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	5.4	
120-12-7	Anthracene	1.2	J
206-44-0	Fluoranthene	3.4	J
129-00-0	Pyrene	7.4	
56-55-3	Benzo(a)anthracene	3.9	
218-01-9	Chrysene	5.8	
205-99-2	Benzo(b)fluoranthene	4.0	
207-08-9	Benzo(k)fluoranthene	1.2	J
50-32-8	Benzo(a)pyrene	2.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.4	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT07F08.D Vial: 7
Acq On : 06/04/2015 16:03 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 06:55:59 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

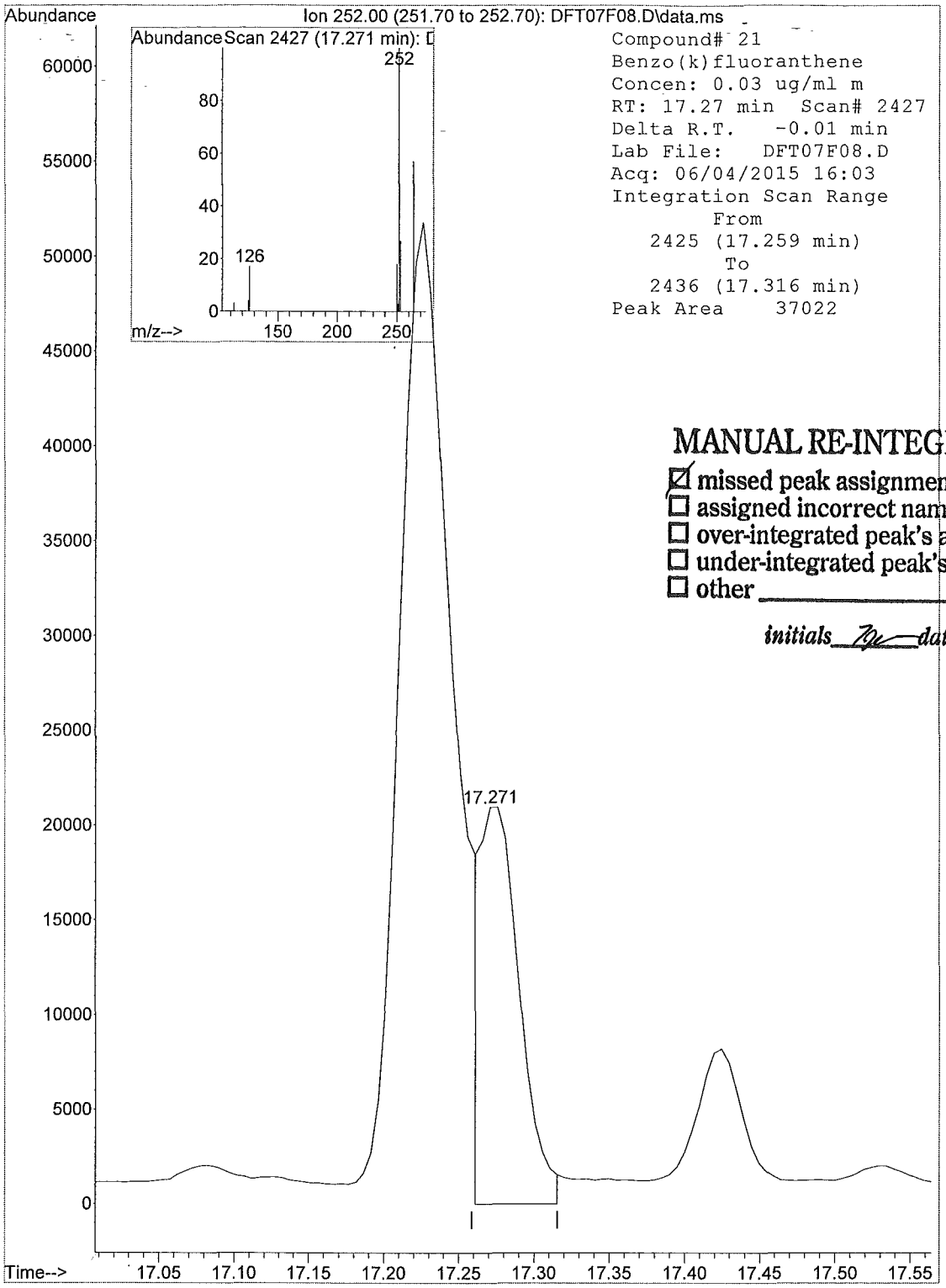
Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT07F08.D Vial: 7
Acq On : 06/04/2015 16:03 Operator: DJC
Sample : 1513978008 F9KY5 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 06:55:59 2015 Results File: DSOM_SIMJ2.RES

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	6.07	136	258373	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	182792	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	312057	0.40 ug/ml	
15) Chrysene-d12	15.51	240	330591	0.40 ug/ml	
19) Perylene-d12	18.01	264	367164	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	116257	0.279ug/mL	
13) Fluoranthene-d10	13.50	212	277065	0.325ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	14579	0.022ug/ml	93
4) 2-Methylnaphthalene	7.06	142	14407	0.033ug/ml	100
6) Acenaphthylene	8.49	152	21520	0.027ug/ml	77
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	129910	0.145ug/ml	99
12) Anthracene	11.50	178	27388	0.031ug/ml	82
14) Fluoranthene	13.53	202	92046	0.090ug/ml	94
16) Pyrene	13.88	202	203824	0.197ug/ml	1
17) Benzo(a)anthracene	15.50	228	92001	0.104ug/ml	87
18) Chrysene	15.55	228	145469	0.156ug/ml	94
20) Benzo(b)fluoranthene	17.23	252	122540	0.107ug/ml	98
21) Benzo(k)fluoranthene	17.27	252	37022	0.031ug/ml m	97 7.15.15
22) Benzo(a)pyrene	17.89	252	72938	0.067ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.84	276	60267	0.063ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	47867	0.044ug/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

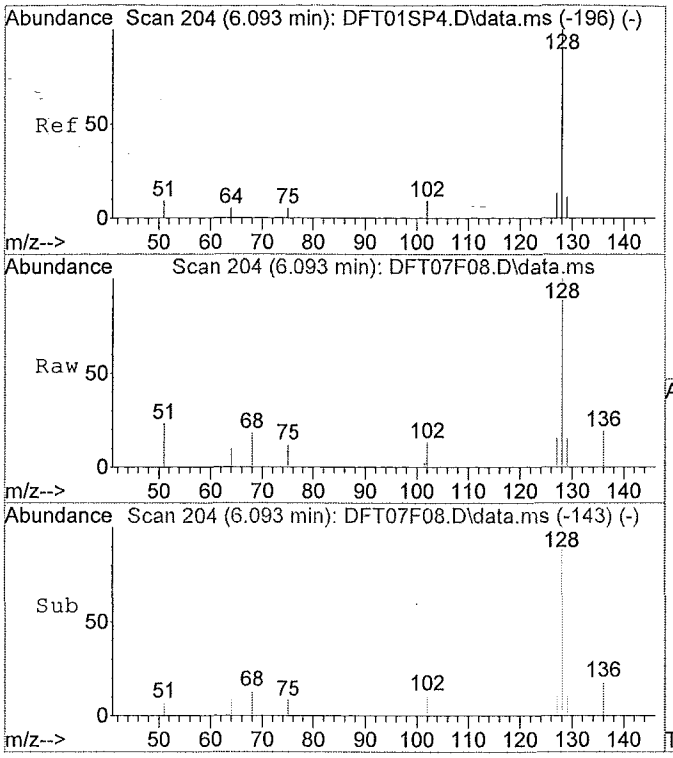


MANUAL RE-INTEGRATION

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

initials ___ *date* 7.15.15

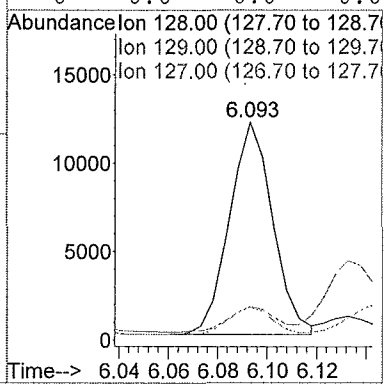
DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1513978008 F9KY5 . SOIL SIM

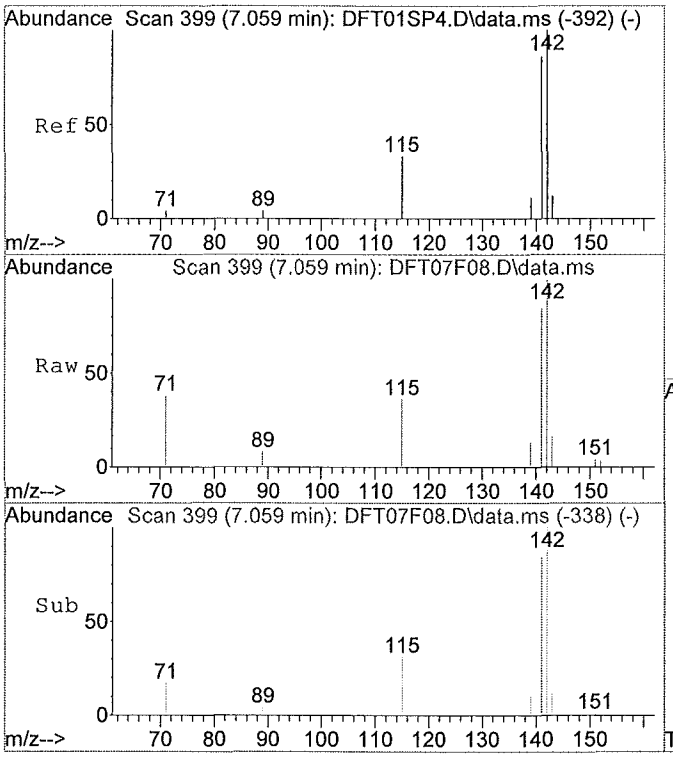


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:128 Resp: 14579

Ion	Ratio	Lower	Upper
128	100		
129	13.0	0.0	0.0#
127	12.7	11.1	20.5
0	0.0	0.0	0.0

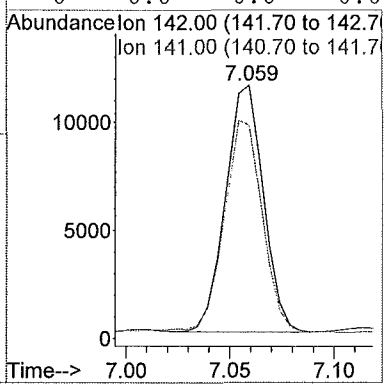


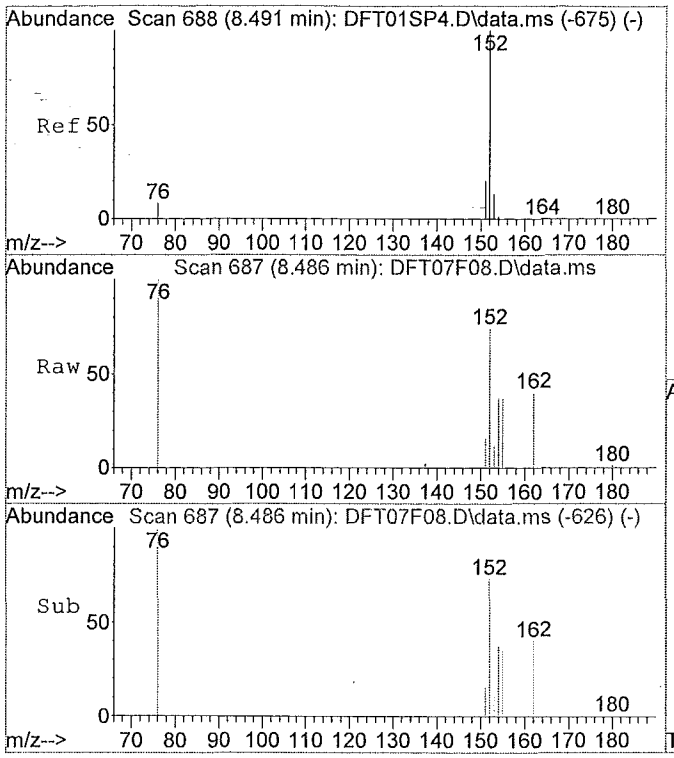


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 7.06 min Scan# 399
Delta R.T. 0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:142 Resp: 14407

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

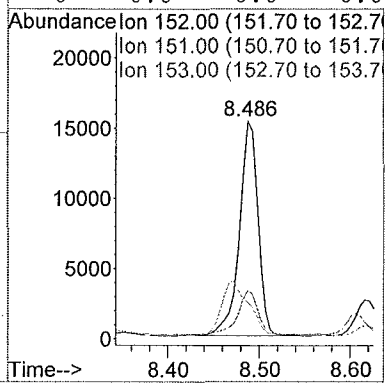


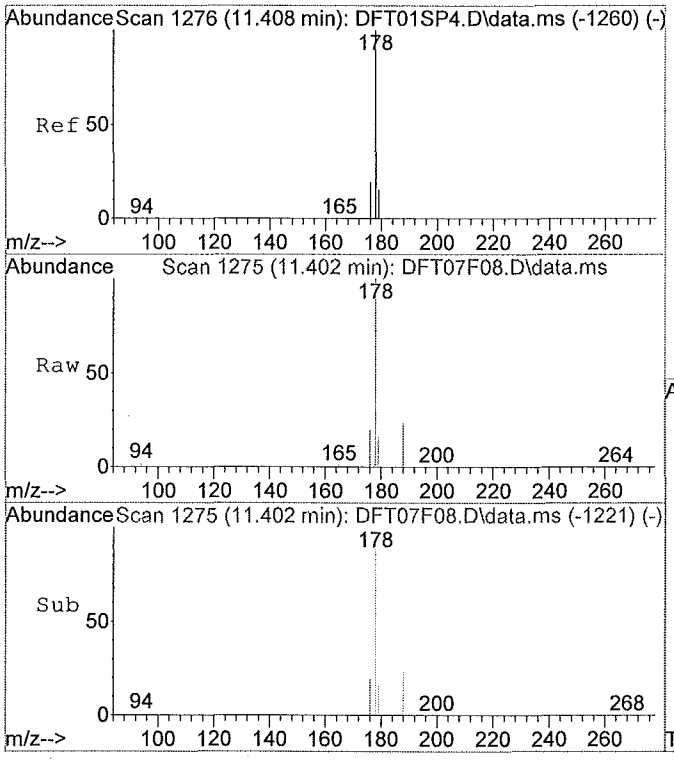


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:152 Resp: 21520

Ion	Ratio	Lower	Upper
152	100		
151	22.5	15.5	28.7
153	37.0	8.8	16.4#
0	0.0	0.0	0.0

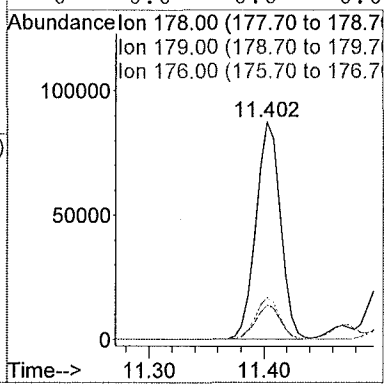


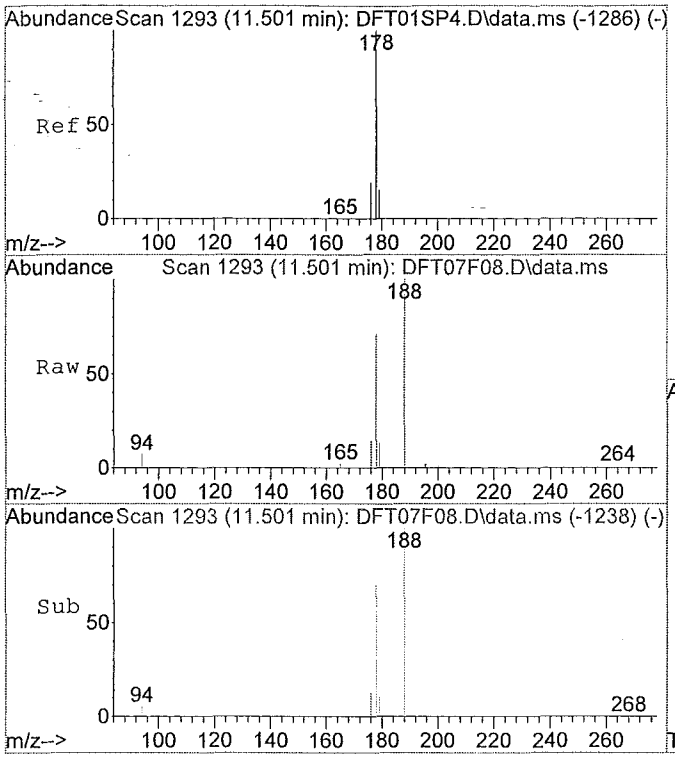


#11
Phenanthrene
Concen: 0.14 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:178 Resp: 129910

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

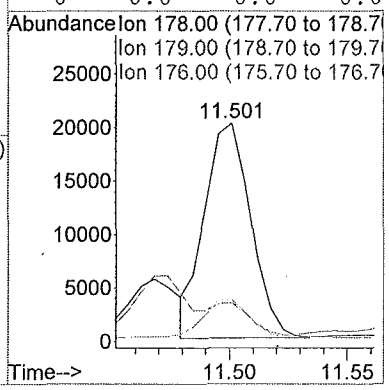


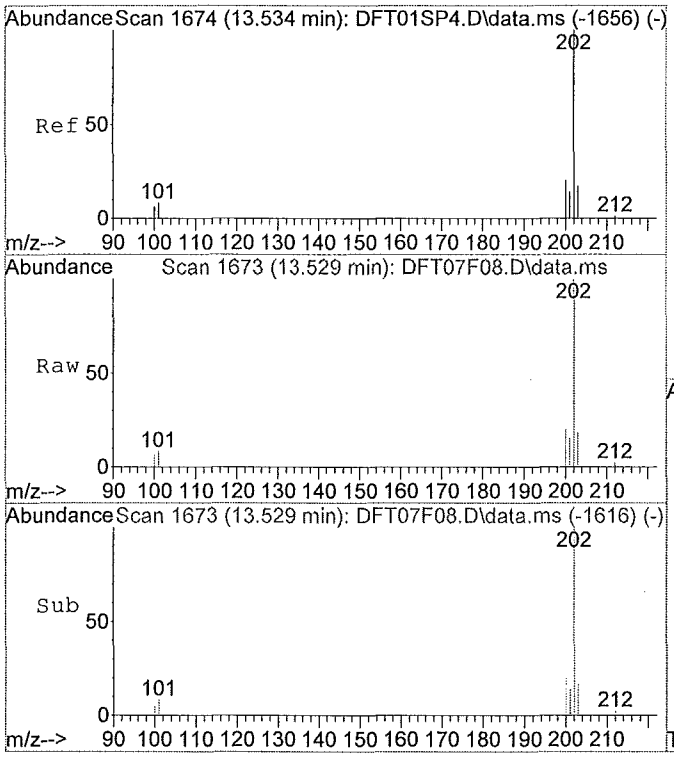


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:178 Resp: 27388

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	19.8	13.9	25.7
0	0.0	0.0	0.0

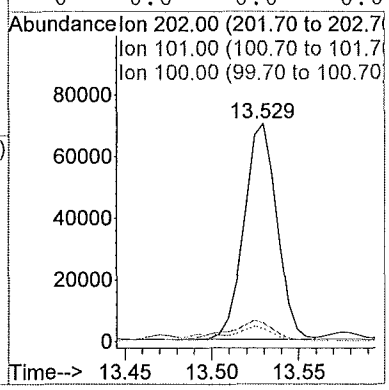


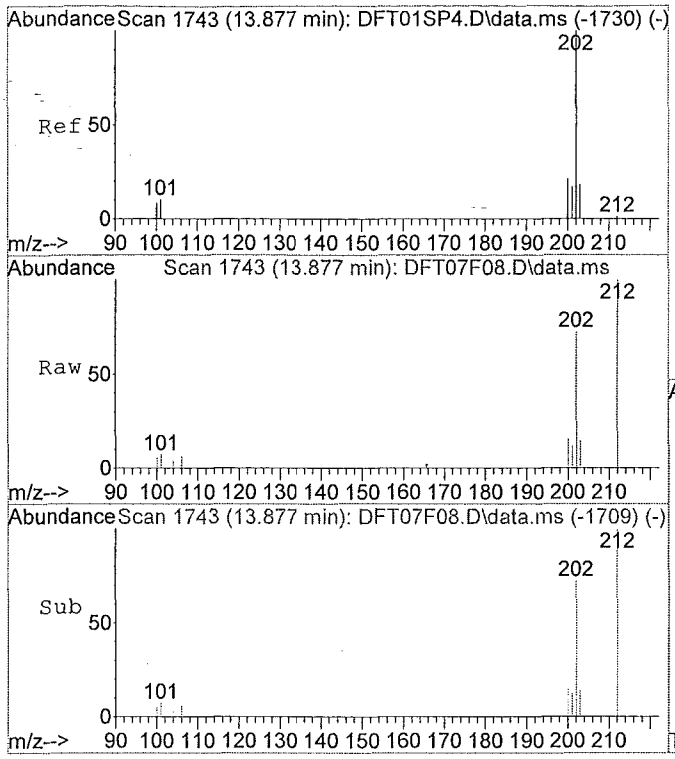


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:202 Resp: 92046

Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.4	17.6
100	5.9	0.0	0.0#
0	0.0	0.0	0.0

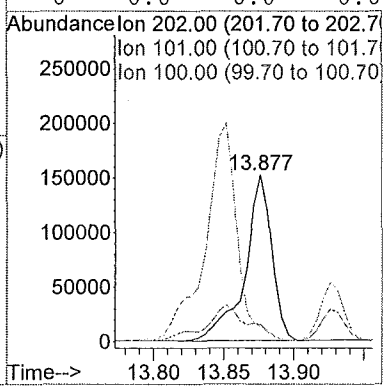


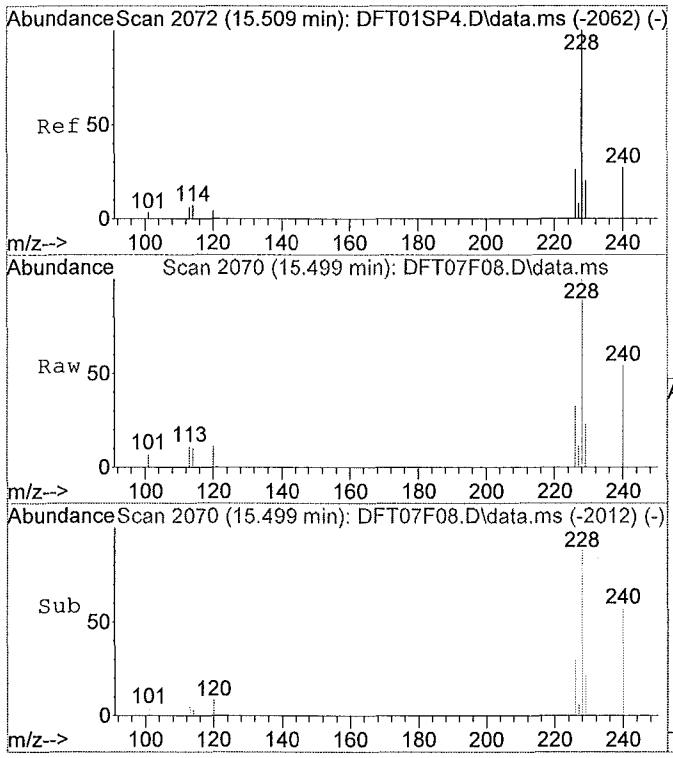


#16
Pyrene
Concen: 0.20 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:202 Resp: 203824

Ion	Ratio	Lower	Upper
202	100		
101	34.9	10.6	19.6#
100	156.3	9.4	17.4#
0	0.0	0.0	0.0

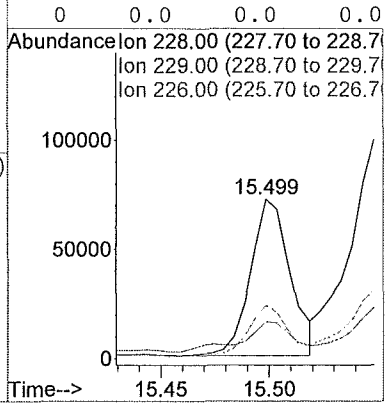


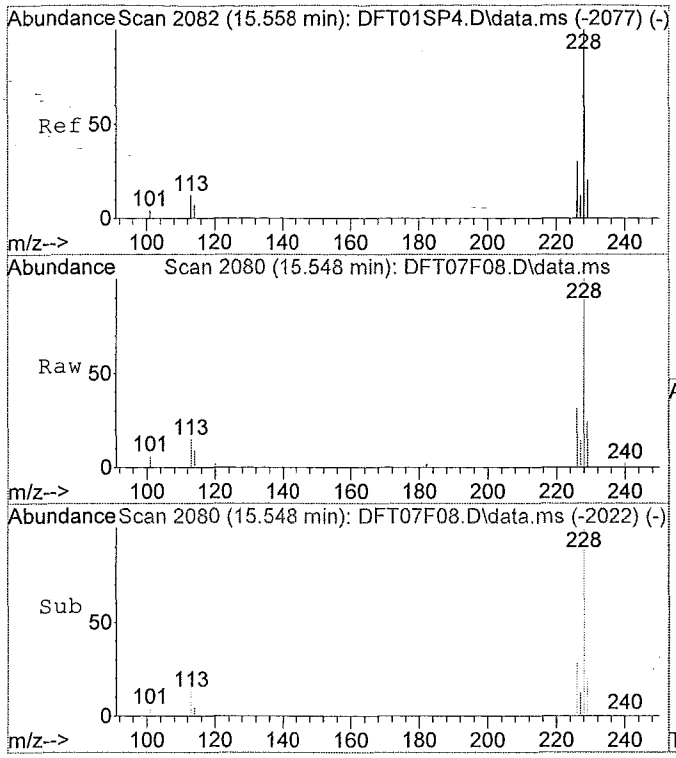


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:228 Resp: 92001

Ion	Ratio	Lower	Upper
228	100		
229	27.5	14.5	26.9#
226	32.5	18.5	34.3
0	0.0	0.0	0.0

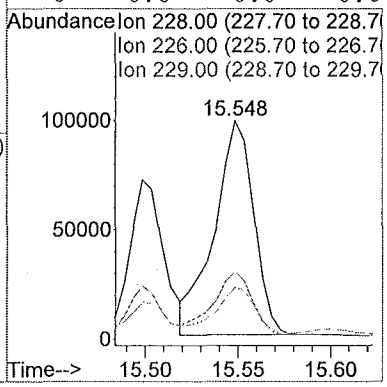


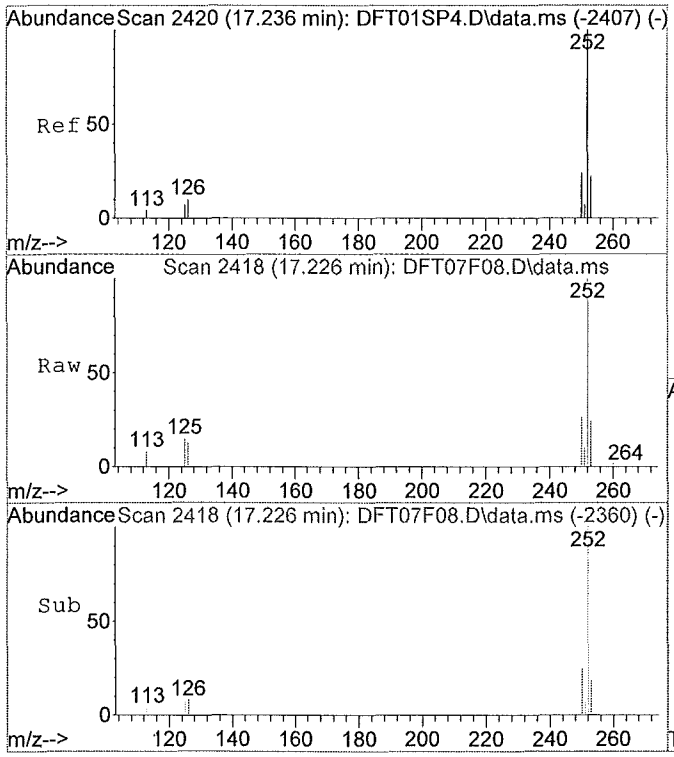


#18
Chrysene
Concen: 0.16 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:228 Resp: 145469

Ion	Ratio	Lower	Upper
228	100		
226	31.8	19.7	36.7
229	22.7	14.5	26.9
0	0.0	0.0	0.0

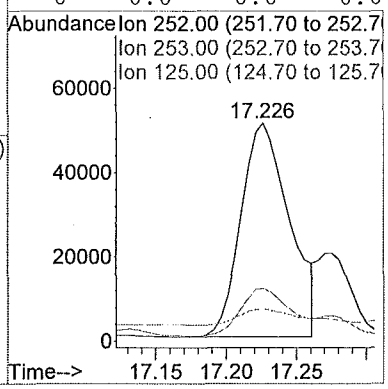


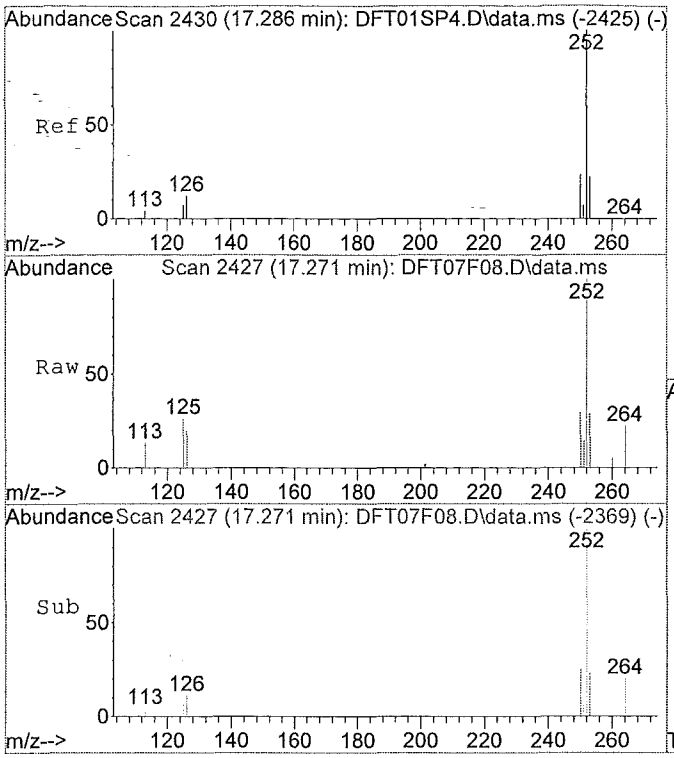


#20
Benzo(b)fluoranthene
Concen: 0.11 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:252 Resp: 122540

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	10.0	0.0	0.0#
0	0.0	0.0	0.0

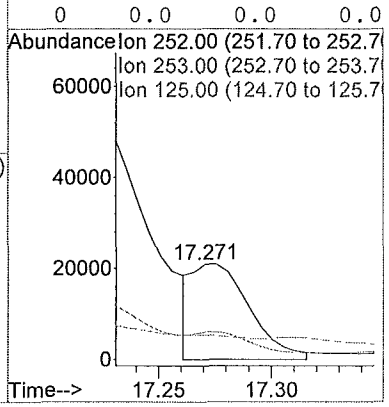


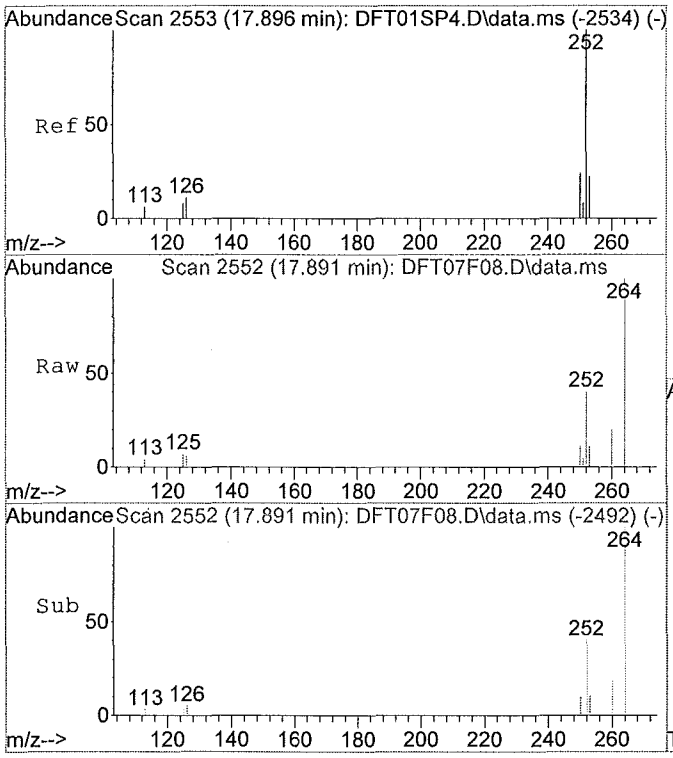


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:252 Resp: 37022

Ion	Ratio	Lower	Upper
252	100		
253	74.9	15.0	27.8#
125	33.1	0.0	0.0#
0	0.0	0.0	0.0

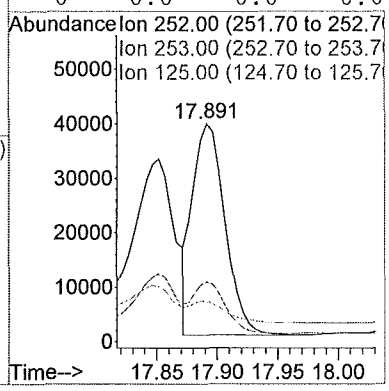


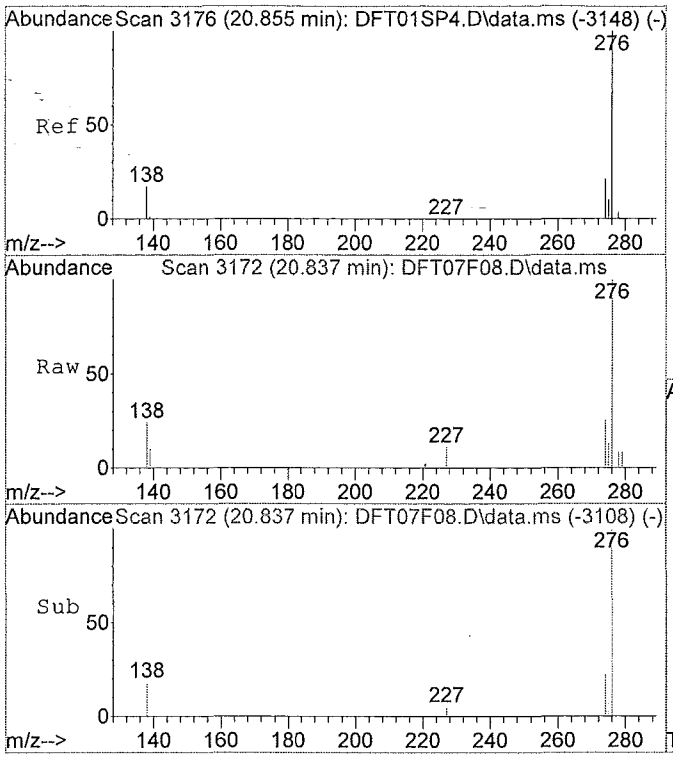


#22
Benzo(a)pyrene
Concen: 0.07 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. -0.00 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:252 Resp: 72938

Ion	Ratio	Lower	Upper
252	100		
253	24.9	15.0	27.8
125	9.8	0.0	0.0#
0	0.0	0.0	0.0

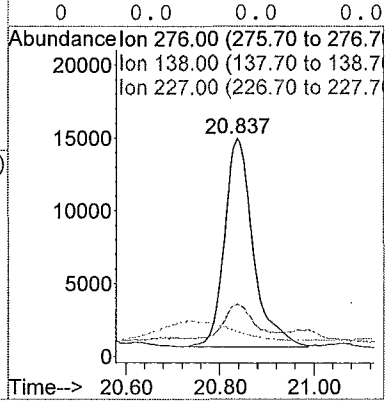


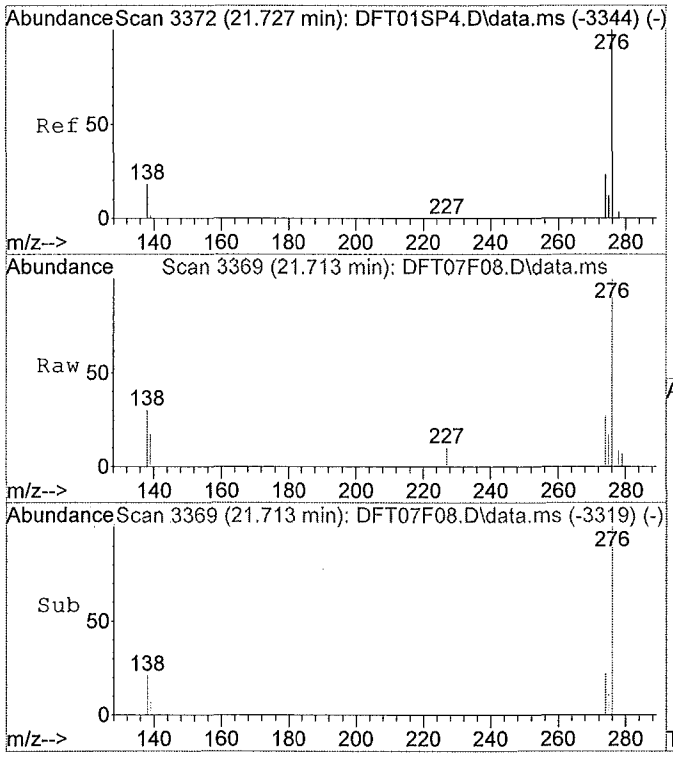


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:276 Resp: 60267

Ion	Ratio	Lower	Upper
276	100		
138	15.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

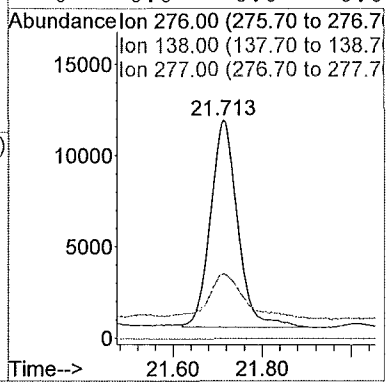




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFT07F08.D
Acq: 06/04/2015 16:03

Tgt Ion:276 Resp: 47867

Ion	Ratio	Lower	Upper
276	100		
138	19.5	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9KY6

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFF12F09

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

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
91-20-3	Naphthalene	0.83	J
91-57-6	2-Methylnaphthalene	4.0	U
208-96-8	Acenaphthylene	1.5	J
83-32-9	Acenaphthene	4.0	U
86-73-7	Fluorene	4.0	U
87-86-5	Pentachlorophenol	1.4	J
85-01-8	Phenanthrene	2.7	J
120-12-7	Anthracene	2.3	J
206-44-0	Fluoranthene	7.7	
129-00-0	Pyrene	8.6	
56-55-3	Benzo(a)anthracene	7.2	
218-01-9	Chrysene	11.	
205-99-2	Benzo(b)fluoranthene	12.	
207-08-9	Benzo(k)fluoranthene	2.6	J
50-32-8	Benzo(a)pyrene	12.	
193-39-5	Indeno(1,2,3-cd)pyrene	9.7	
53-70-3	Dibenzo(a,h)anthracene	3.7	J
191-24-2	Benzo(g,h,i)perylene	19.	

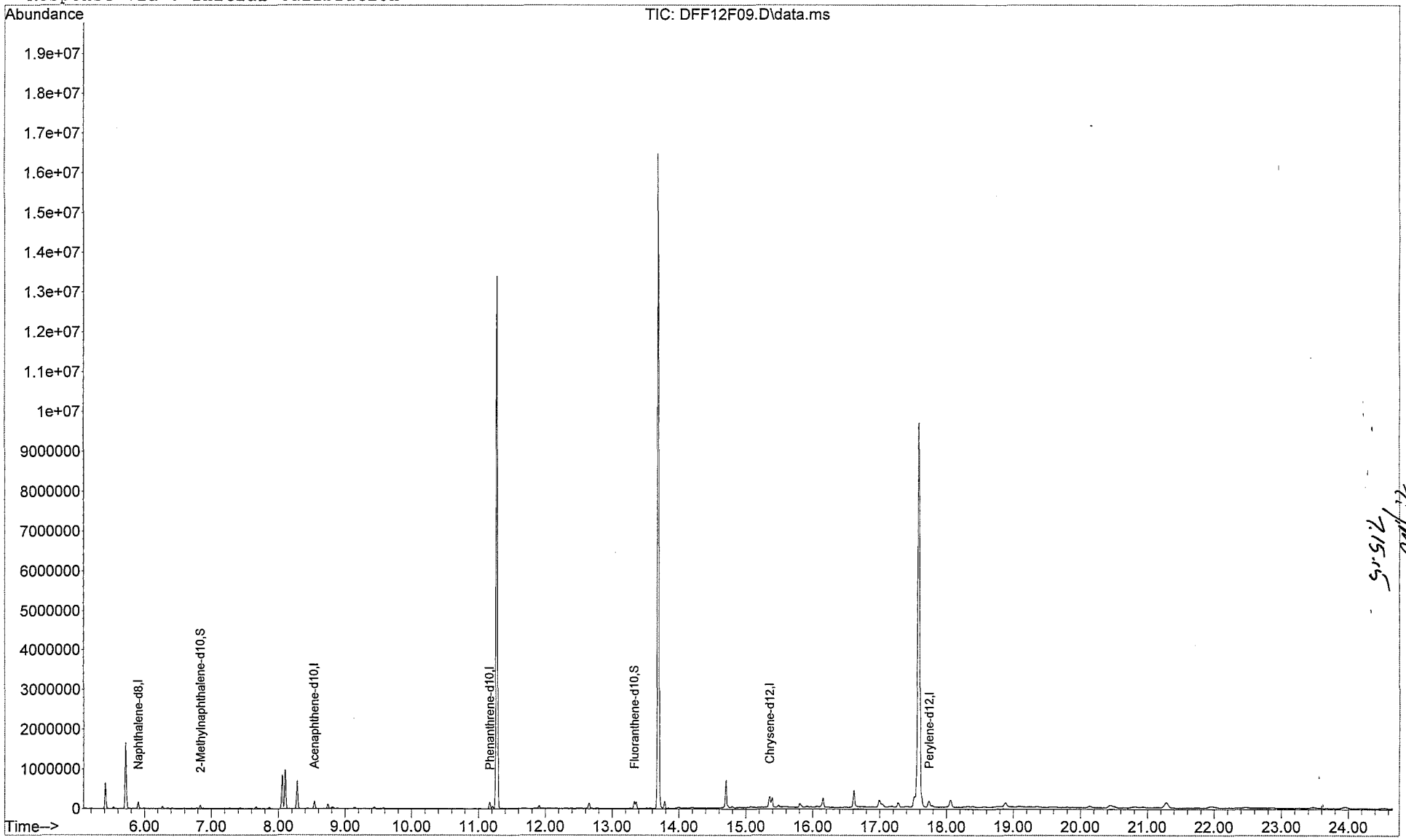
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF12F09.D
Acq On : 07/09/2015 17:47
Sample : 1513978009 F9KY6
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 12
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:03:28 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 13:38:19 2015
Response via : Initial Calibration



7/15/15

Quantitation Report

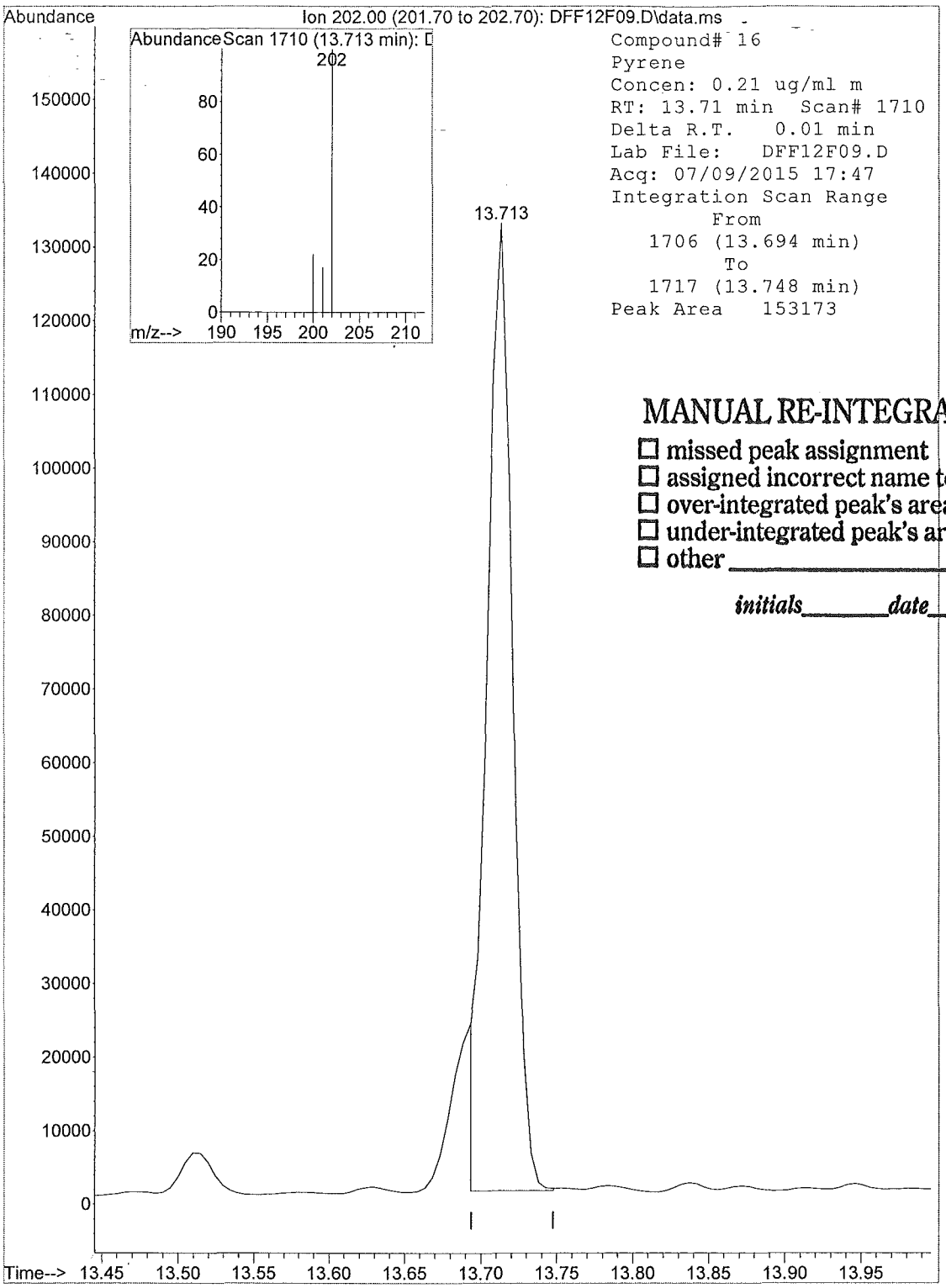
Data File : R:\D\2015\JUL15\09JUL15\DFF12F09.D Vial: 12
Acq On : 07/09/2015 17:47 Operator: DJC
Sample : 1513978009 F9KY6 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:03:28 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	177298	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	125994	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	206701	0.40 ug/ml	
15) Chrysene-d12	15.36	240	228214	0.40 ug/ml	
19) Perylene-d12	17.74	264	248200	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	85806	0.300ug/mL	
13) Fluoranthene-d10	13.33	212	197171	0.349ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	9469	0.020ug/ml	95
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.30	152	20603	0.037ug/ml	74
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	10.85	266	1066	0.034ug/ml	100
11) Phenanthrene	11.21	178	40114	0.067ug/ml	97
12) Anthracene	11.30	178	33109	0.057ug/ml	86
14) Fluoranthene	13.36	202	129683	0.191ug/ml	97
16) Pyrene	13.71	202	153173	0.214ug/ml m	1 7.15.15
17) Benzo(a)anthracene	15.35	228	109001	0.179ug/ml	83
18) Chrysene	15.39	228	174761	0.272ug/ml	95
20) Benzo(b)fluoranthene	16.99	252	225383	0.291ug/ml	98
21) Benzo(k)fluoranthene	17.04	252	52460	0.065ug/ml m	97 7.15.15
22) Benzo(a)pyrene	17.62	252	213107	0.288ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.44	276	155610	0.241ug/ml	100
24) Dibenzo(a,h)anthracene	20.50	278	65064	0.091ug/ml	75
25) Benzo(g,h,i)perylene	21.28	276	339645	0.467ug/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 Pyrene



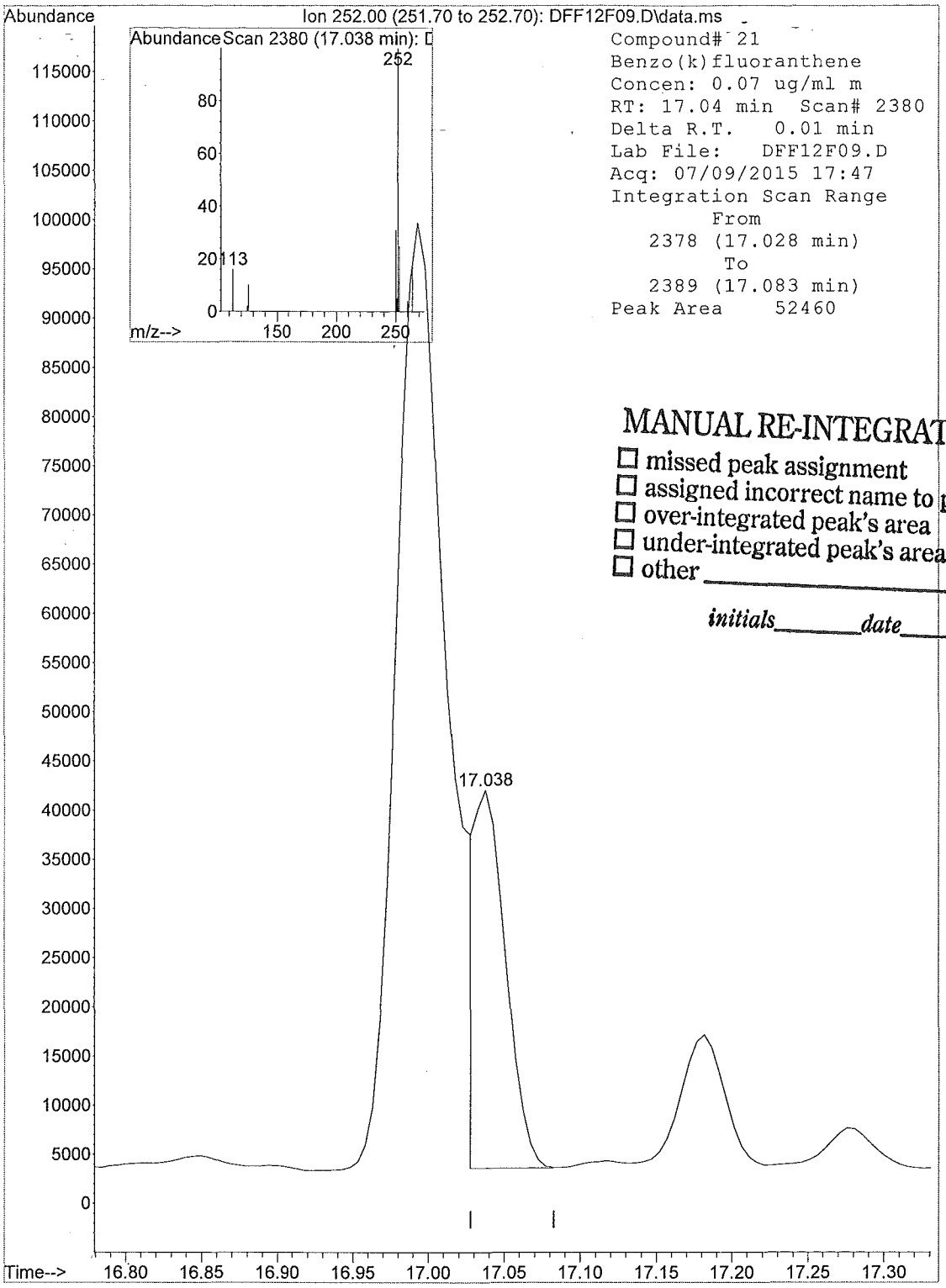
Compound# 16
Pyrene
Concen: 0.21 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47
Integration Scan Range
From
1706 (13.694 min)
To
1717 (13.748 min)
Peak Area 153173

MANUAL RE-INTEGRATION

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

*initials*_____ *date*_____

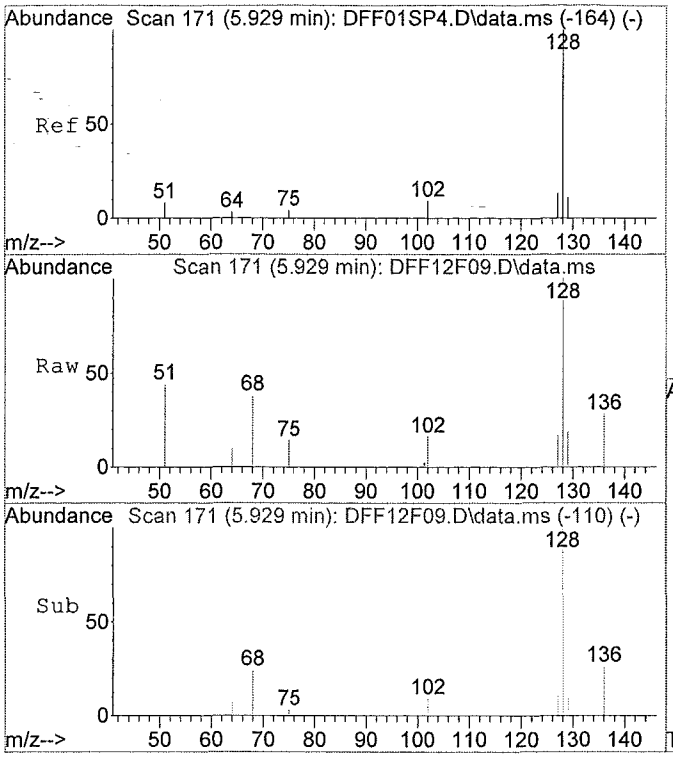
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

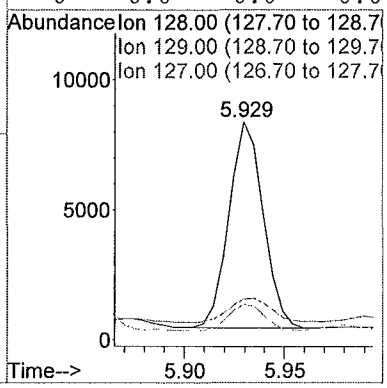
*initials*_____ *date*_____

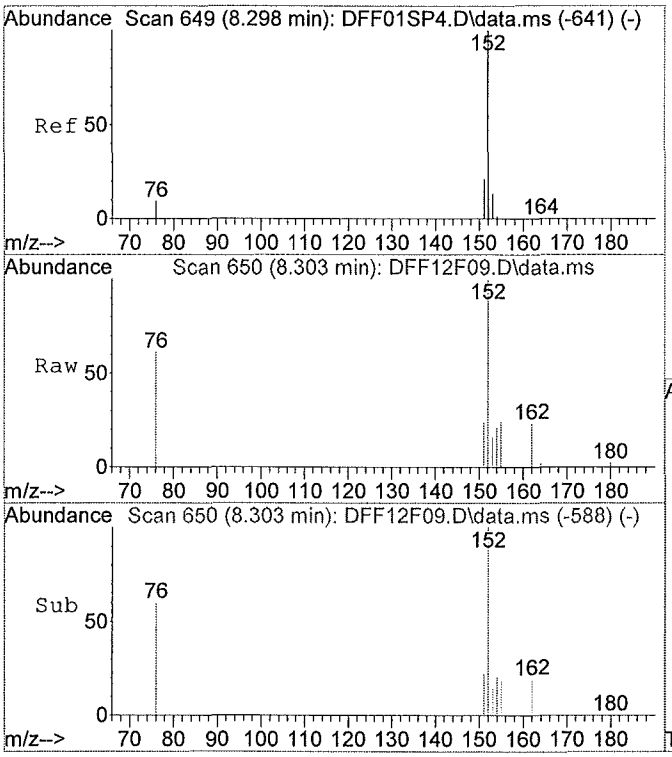


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:128 Resp: 9469

Ion	Ratio	Lower	Upper
128	100		
129	14.8	0.0	0.0#
127	13.5	11.1	20.5
0	0.0	0.0	0.0

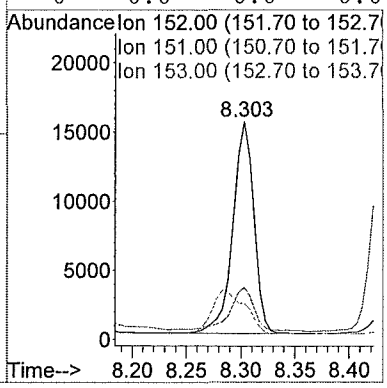


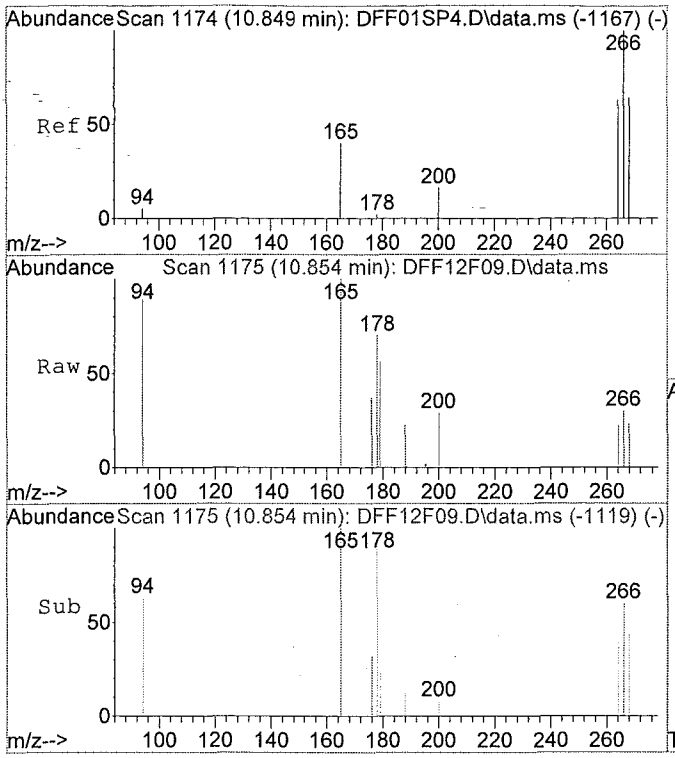


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:152 Resp: 20603

Ion	Ratio	Lower	Upper
152	100		
151	28.2	15.5	28.7
153	32.2	8.8	16.4#
0	0.0	0.0	0.0

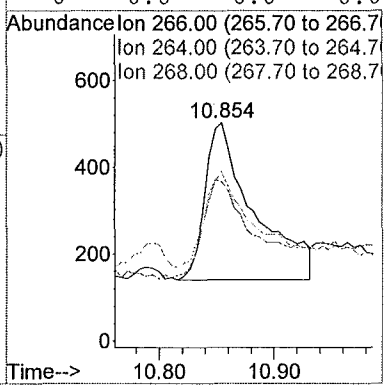


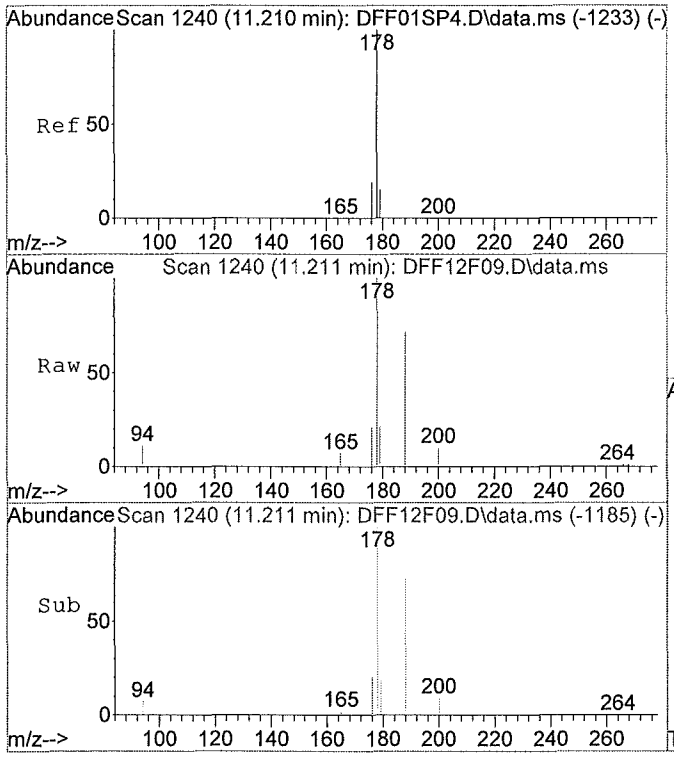


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 10.85 min Scan# 1175
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:266 Resp: 1066

Ion	Ratio	Lower	Upper
266	100		
264	63.1	0.0	0.0#
268	62.8	0.0	0.0#
0	0.0	0.0	0.0

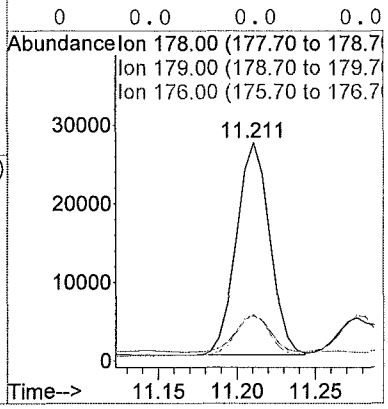


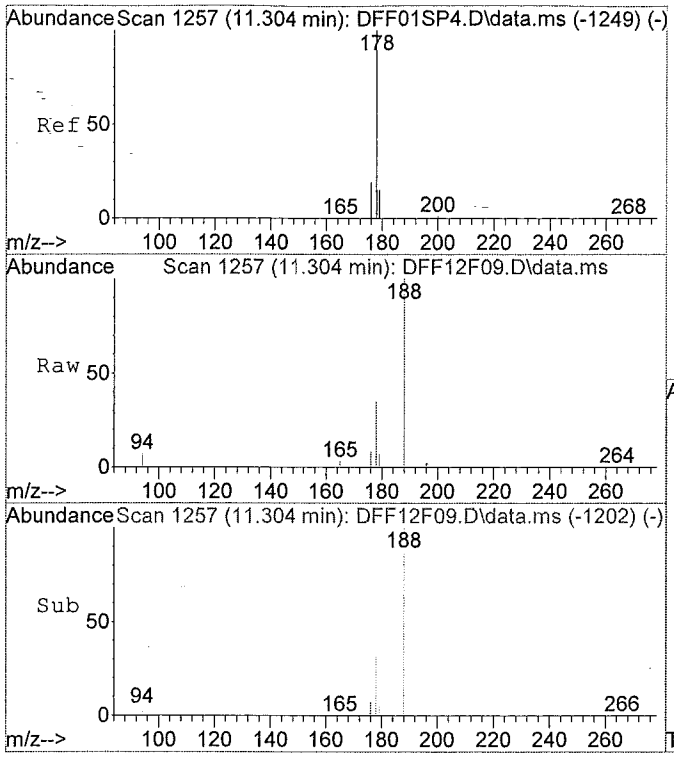


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:178 Resp: 40114

Ion	Ratio	Lower	Upper
178	100		
179	17.5	11.1	20.5
176	21.3	14.1	26.1
0	0.0	0.0	0.0

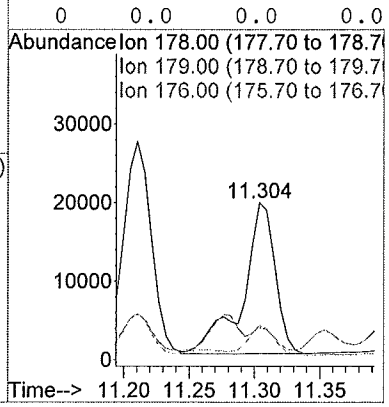


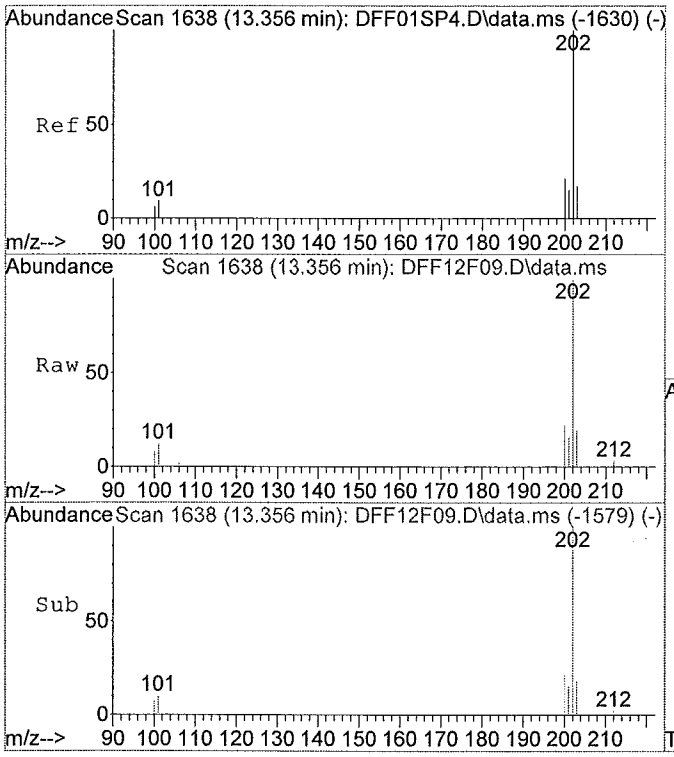


#12
Anthracene
Concen: 0.Q6 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:178 Resp: 33109

Ion	Ratio	Lower	Upper
178	100		
179	8.0	11.6	21.6#
176	15.7	13.9	25.7
0	0.0	0.0	0.0

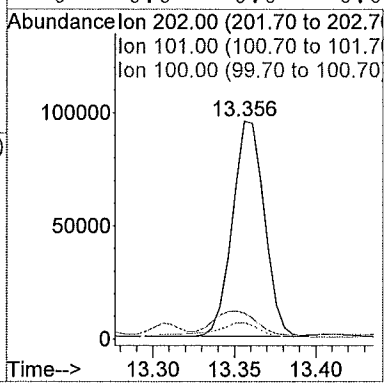


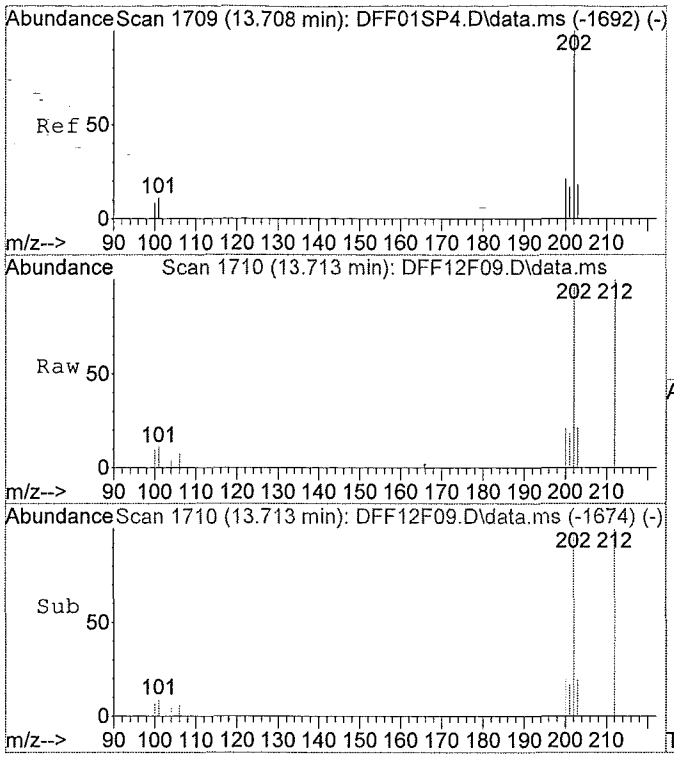


#14
Fluoranthene
Concen: 0.19 ug/ml
RT: 13.36 min Scan# 1638
Delta R.T. 0.00 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:202 Resp: 129683

Ion	Ratio	Lower	Upper
202	100		
101	14.6	9.4	17.6
100	10.5	0.0	0.0#
0	0.0	0.0	0.0

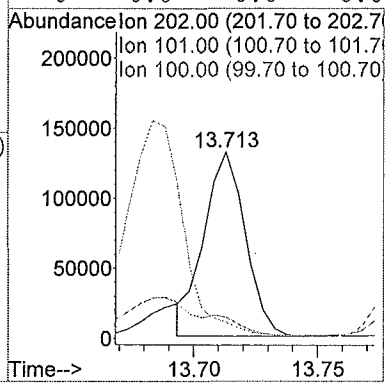


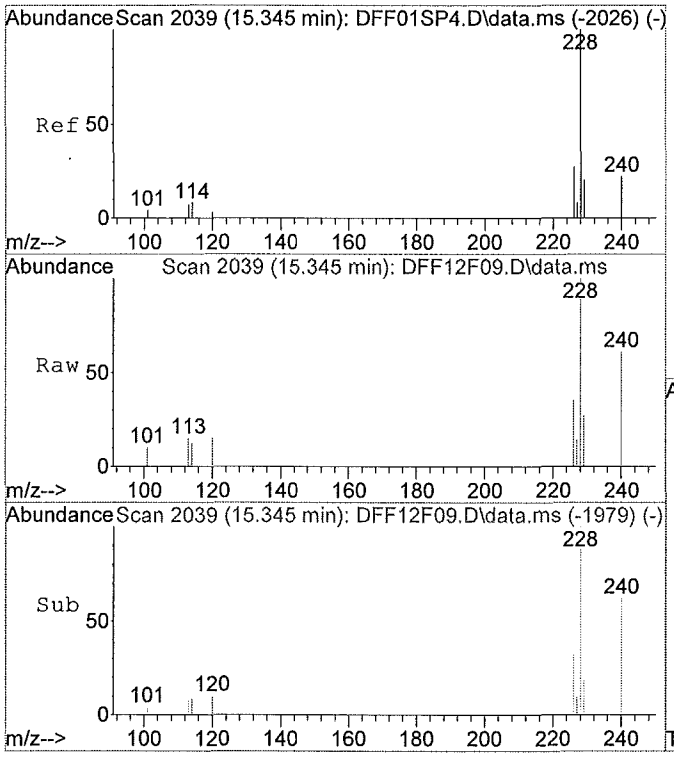


#16
Pyrene
Concen: 0.21 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:202 Resp: 153173

Ion	Ratio	Lower	Upper
202	100		
101	42.7	10.6	19.6#
100	162.9	9.4	17.4#
0	0.0	0.0	0.0

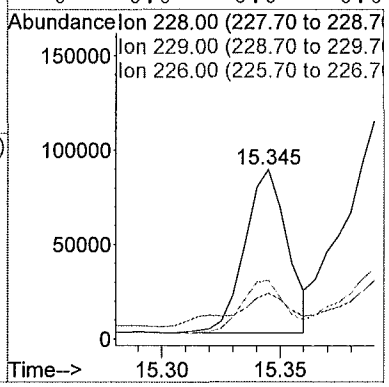


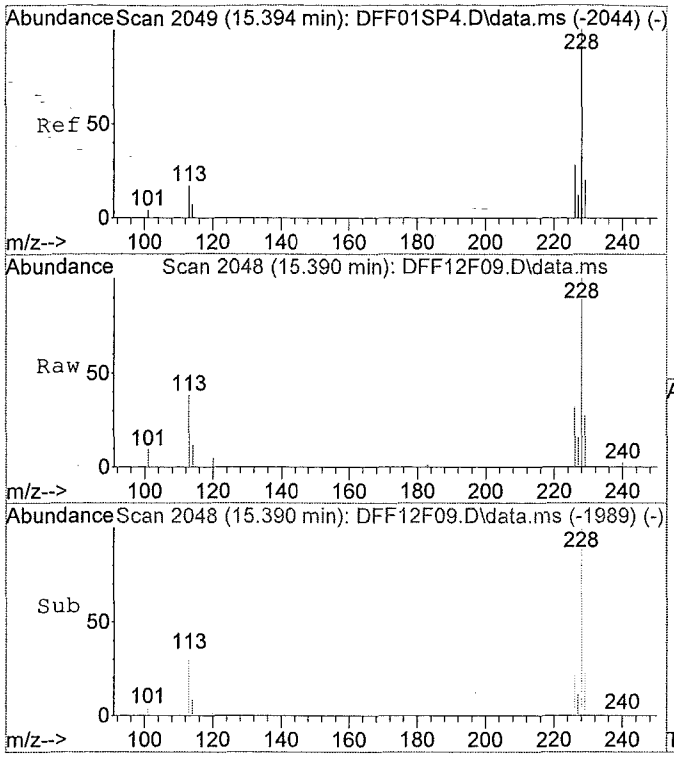


#17
Benzo(a)anthracene
Concen: 0.18 ug/ml
RT: 15.35 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:228 Resp: 109001

Ion	Ratio	Lower	Upper
228	100		
229	29.7	14.5	26.9#
226	34.0	18.5	34.3
0	0.0	0.0	0.0

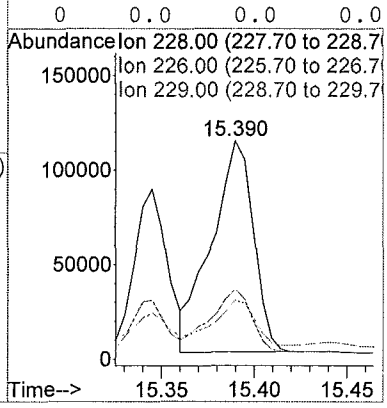


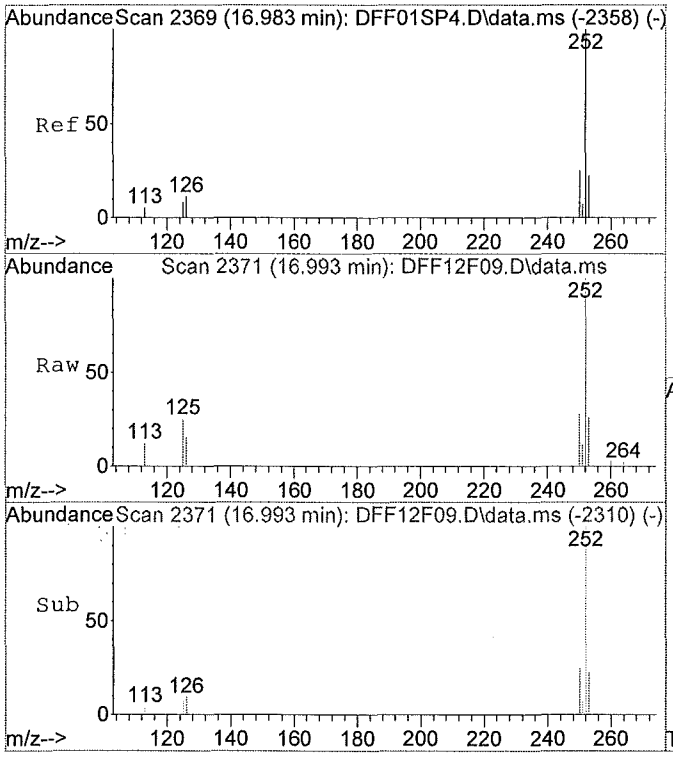


#18
Chrysene
Concen: 0.27 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:228 Resp: 174761

Ion	Ratio	Lower	Upper
228	100		
226	31.6	19.7	36.7
229	21.6	14.5	26.9
0	0.0	0.0	0.0

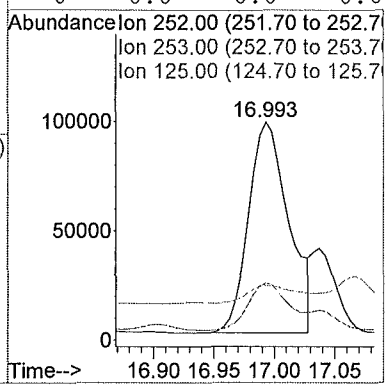


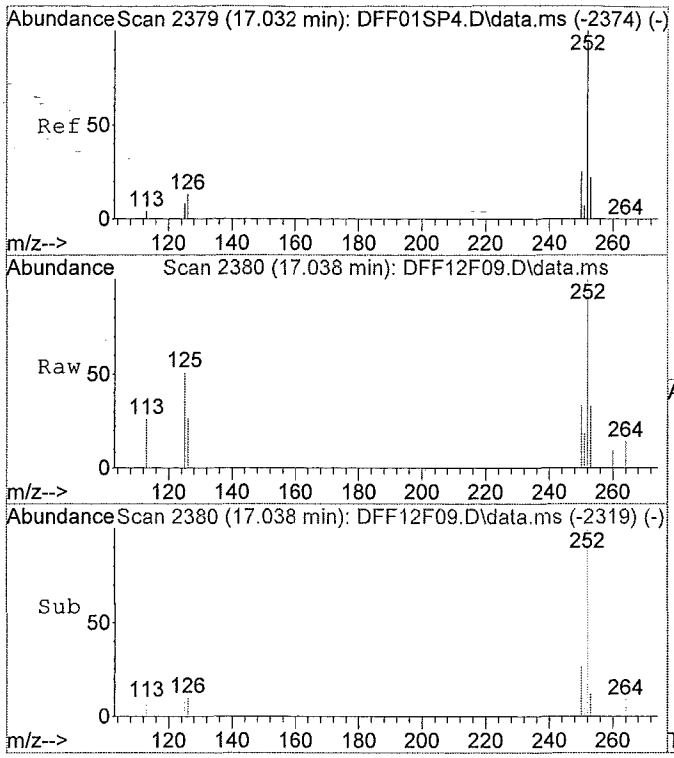


#20
Benzo(b)fluoranthene
Concen: 0.29 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:252 Resp: 225383

Ion	Ratio	Lower	Upper
252	100		
253	22.9	15.3	28.3
125	10.6	0.0	0.0#
0	0.0	0.0	0.0

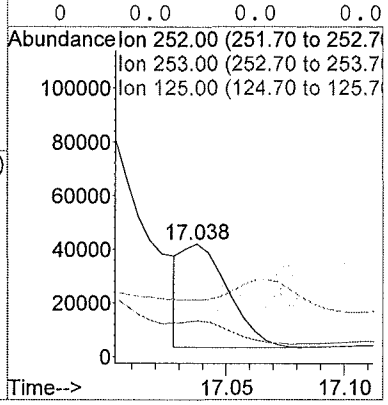


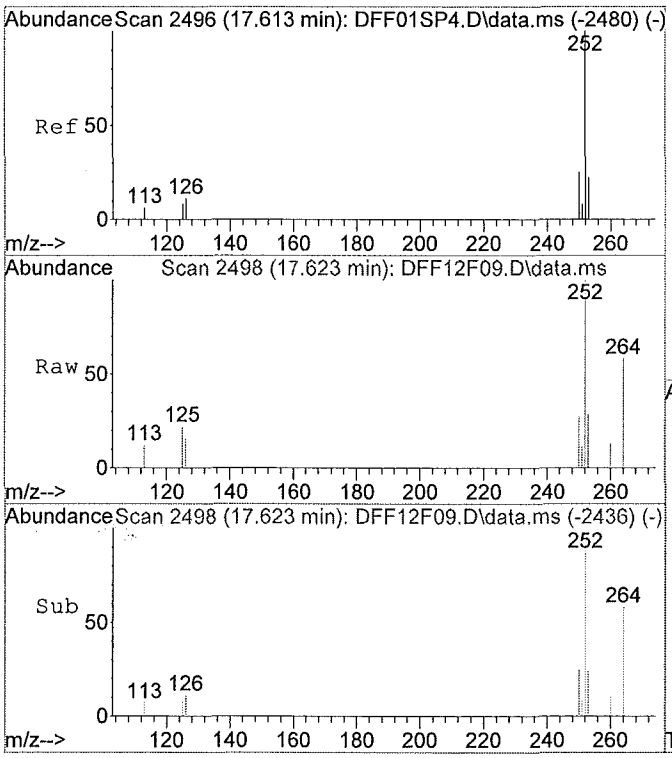


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.04 min Scan# 2380
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:252 Resp: 52460

Ion	Ratio	Lower	Upper
252	100		
253	98.3	15.0	27.8#
125	45.9	0.0	0.0#
0	0.0	0.0	0.0

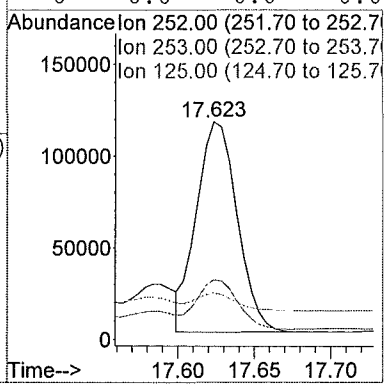


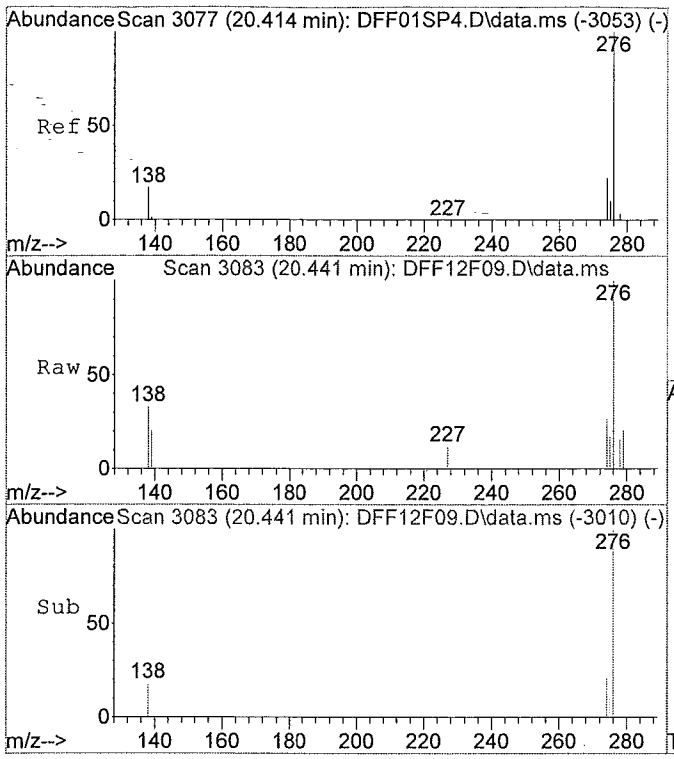


#22
Benzo(a)pyrene
Concen: 0.29 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:252 Resp: 213107

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

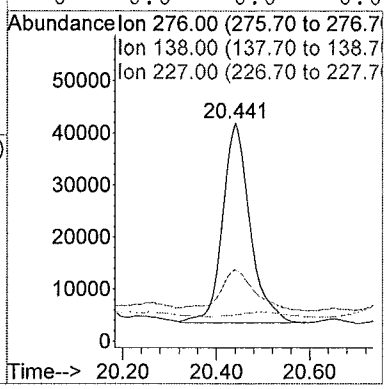


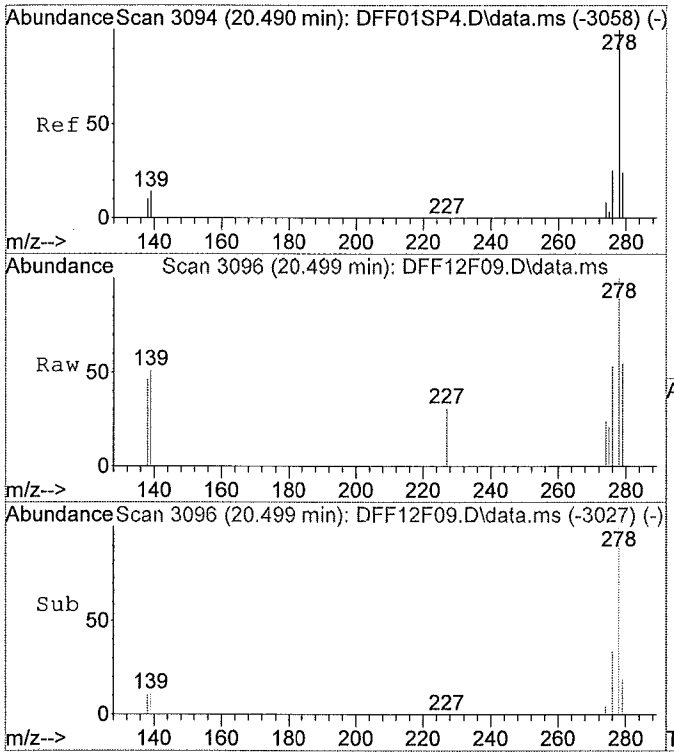


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.24 ug/ml
RT: 20.44 min Scan# 3083
Delta R.T. 0.03 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:276 Resp: 155610

Ion	Ratio	Lower	Upper
276	100		
138	24.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

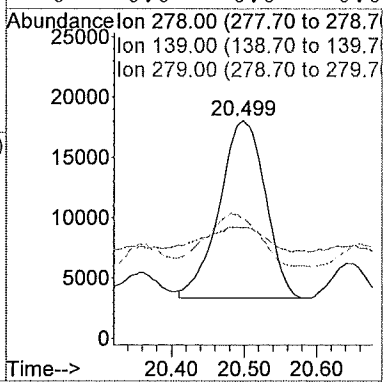


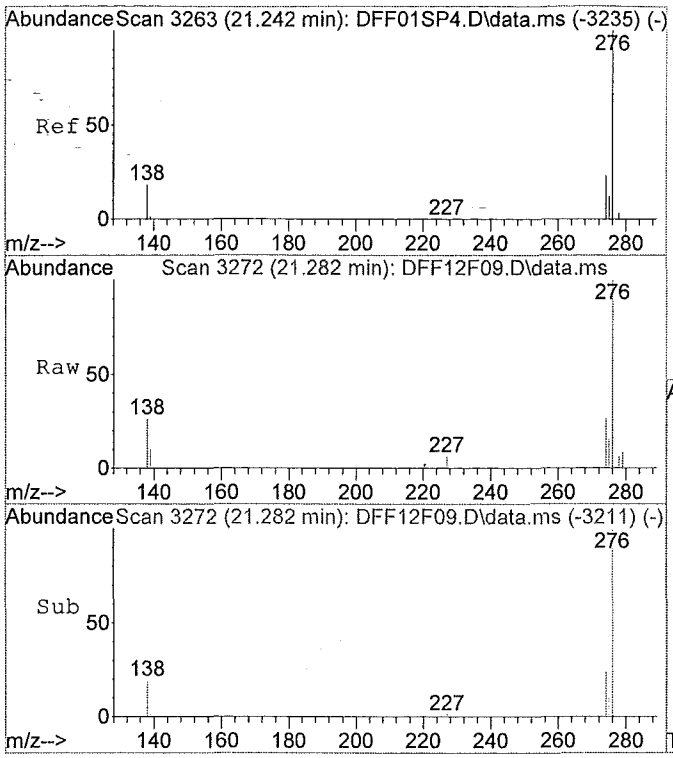


#24
Dibenzo(a,h)anthracene
Concen: 0.09 ug/ml
RT: 20.50 min Scan# 3096
Delta R.T. 0.01 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:278 Resp: 65064

Ion	Ratio	Lower	Upper
278	100		
139	18.0	0.0	0.0#
279	34.7	15.8	29.3#
0	0.0	0.0	0.0

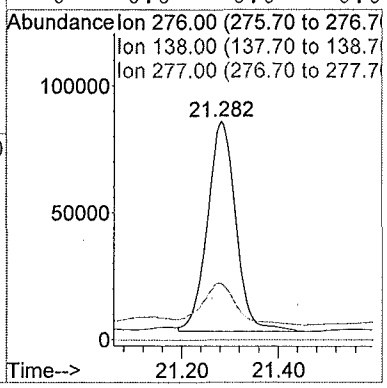




#25
Benzo(g,h,i)perylene
Concen: 0.47 ug/ml
RT: 21.28 min Scan# 3272
Delta R.T. 0.04 min
Lab File: DFF12F09.D
Acq: 07/09/2015 17:47

Tgt Ion:276 Resp: 339645

Ion	Ratio	Lower	Upper
276	100		
138	24.1	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.

F9KY7

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978010

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFF13F10

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

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
91-20-3	Naphthalene	2.1	J
91-57-6	2-Methylnaphthalene	3.3	J
208-96-8	Acenaphthylene	2.6	J
83-32-9	Acenaphthene	1.3	J
86-73-7	Fluorene	1.5	J
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	4.3	
120-12-7	Anthracene	3.1	J
206-44-0	Fluoranthene	8.0	
129-00-0	Pyrene	9.6	
56-55-3	Benzo(a)anthracene	6.0	
218-01-9	Chrysene	8.0	
205-99-2	Benzo(b)fluoranthene	10.	
207-08-9	Benzo(k)fluoranthene	2.6	J
50-32-8	Benzo(a)pyrene	5.6	
193-39-5	Indeno(1,2,3-cd)pyrene	5.9	
53-70-3	Dibenzo(a,h)anthracene	1.6	J
191-24-2	Benzo(g,h,i)perylene	6.5	

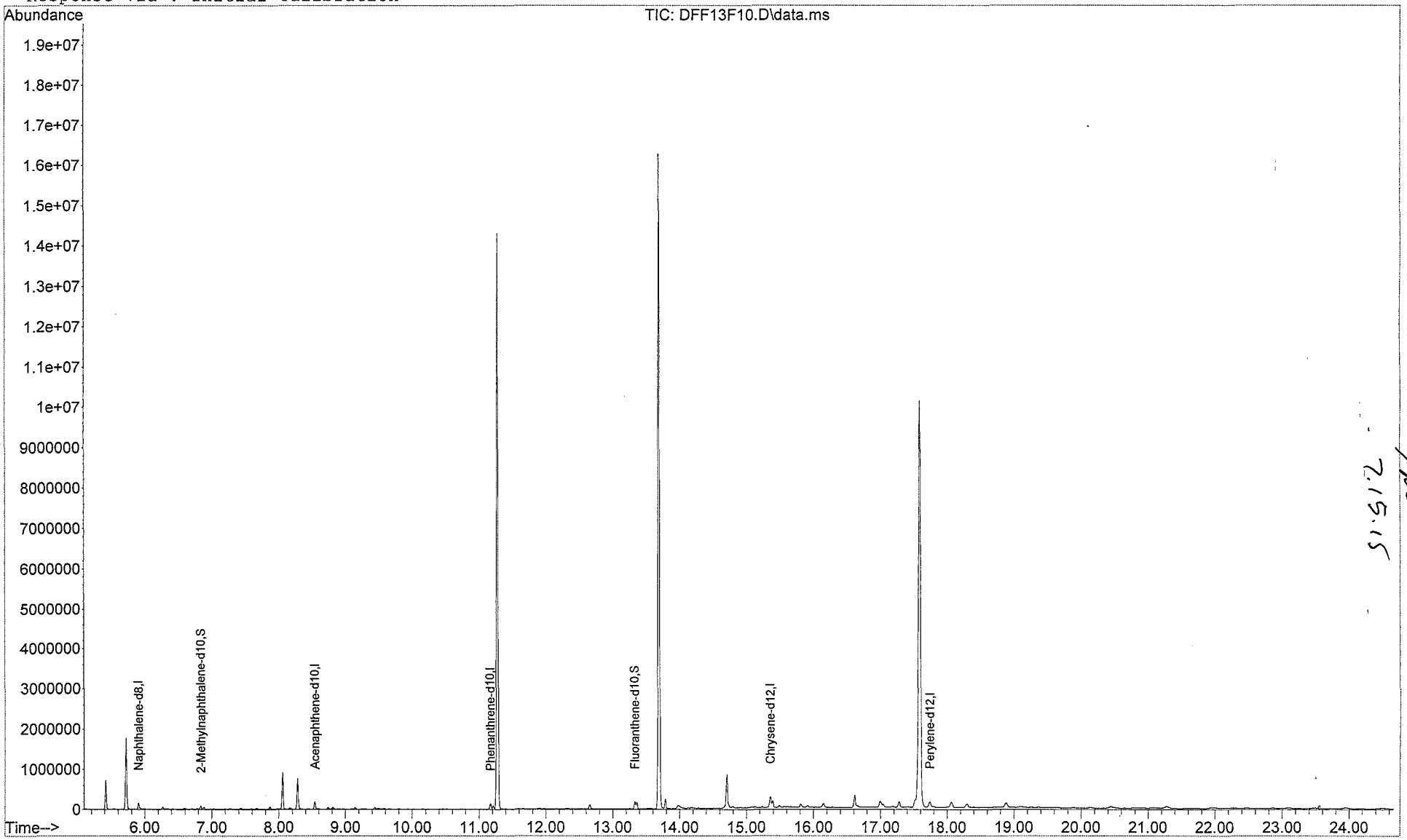
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF13F10.D
Acq On : 07/09/2015 18:17
Sample : 1513978010 F9KY7
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 13
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:05:21 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 13:38:19 2015
Response via : Initial Calibration



7.15.15

Quantitation Report

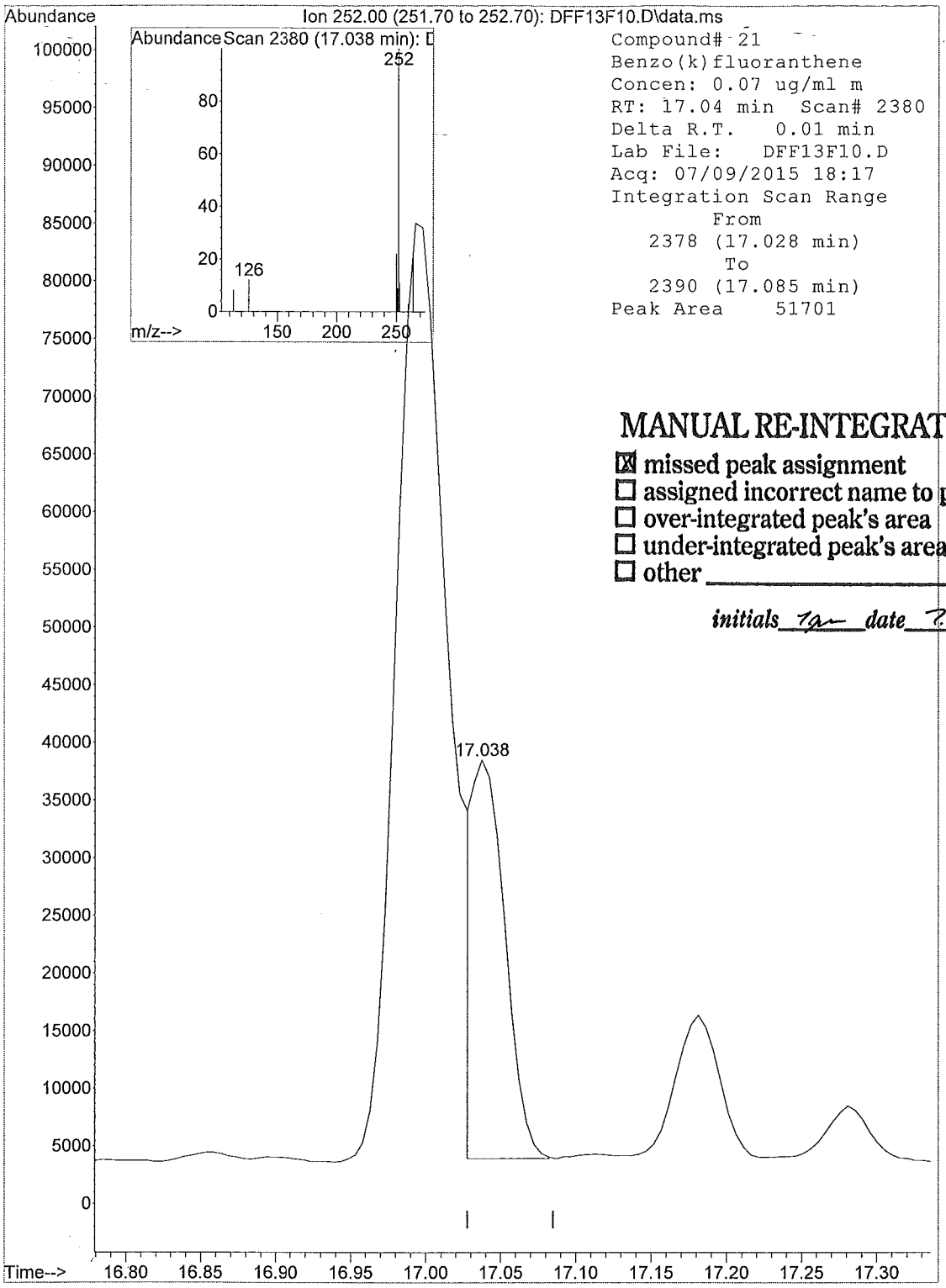
Data File : R:\D\2015\JUL15\09JUL15\DFF13F10.D Vial: 13
Acq On : 07/09/2015 18:17 Operator: DJC
Sample : 1513978010 F9KY7 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:05:21 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	168275	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	121662	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	196009	0.40 ug/ml	
15) Chrysene-d12	15.36	240	222654	0.40 ug/ml	
19) Perylene-d12	17.74	264	239830	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	93413	0.344ug/mL	
13) Fluoranthene-d10	13.33	212	201577	0.376ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	23937	0.055ug/ml	94
4) 2-Methylnaphthalene	6.88	142	24623	0.087ug/ml	99
6) Acenaphthylene	8.30	152	36185	0.068ug/ml	87
7) Acenaphthene	8.59	153	11210	0.033ug/ml	93
8) Fluorene	9.49	166	15882	0.040ug/ml	92
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.21	178	63948	0.113ug/ml	98
12) Anthracene	11.31	178	44610	0.081ug/ml	92
14) Fluoranthene	13.36	202	134521	0.209ug/ml	96
16) Pyrene	13.71	202	175719	0.252ug/ml	1
17) Benzo(a)anthracene	15.34	228	93365	0.157ug/ml	84
18) Chrysene	15.39	228	131096	0.209ug/ml	95
20) Benzo(b)fluoranthene	16.99	252	194818	0.261ug/ml	95
21) Benzo(k)fluoranthene	17.04	252	51701	0.067ug/ml m	94 7.15.15
22) Benzo(a)pyrene	17.63	252	104949	0.147ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.44	276	97036	0.155ug/ml	100
24) Dibenzo(a,h)anthracene	20.50	278	28711	0.042ug/ml	78
25) Benzo(g,h,i)perylene	21.28	276	119065	0.169ug/ml	68

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

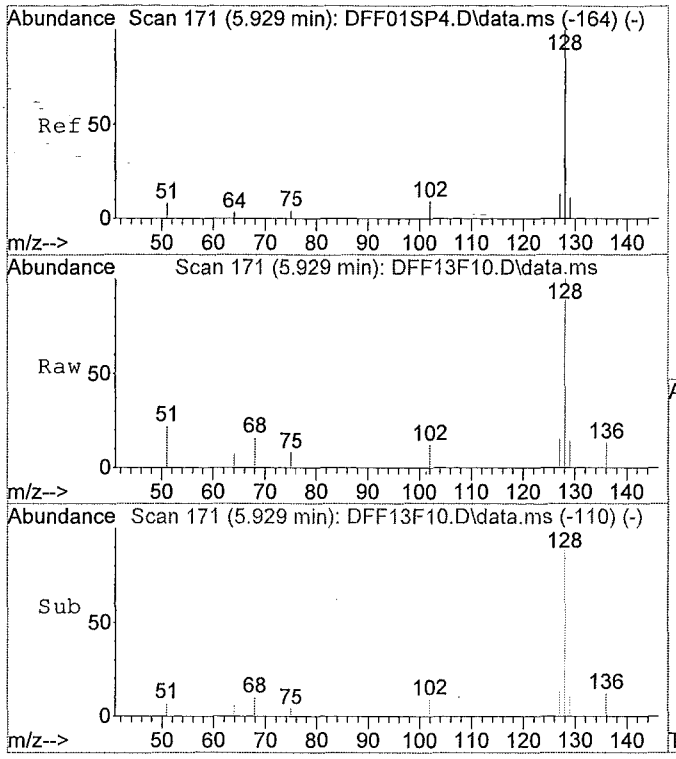
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

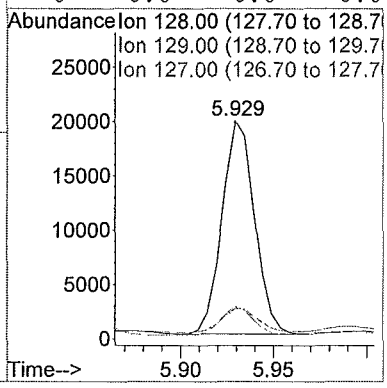
initials Ta *date* 7.15.15

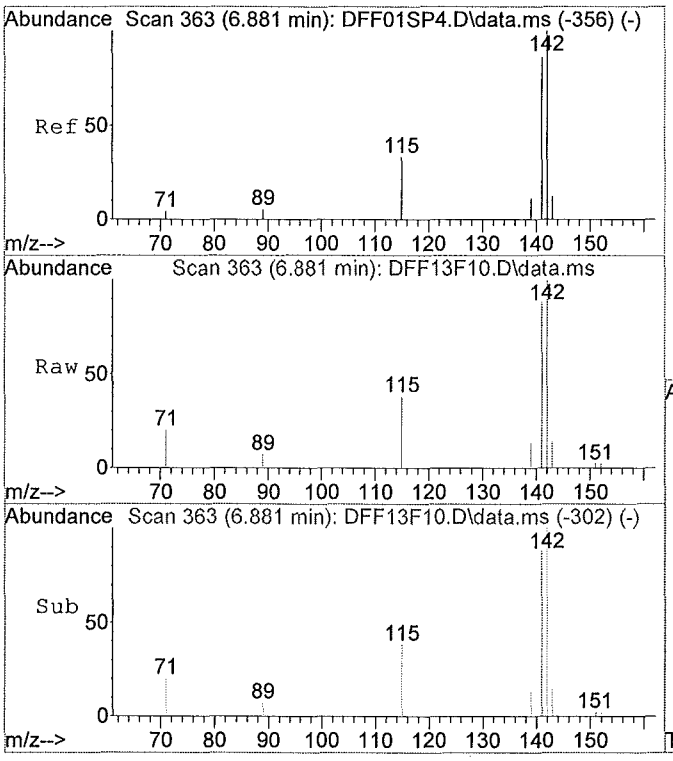


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:128 Resp: 23937

Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	0.0#
127	13.3	11.1	20.5
0	0.0	0.0	0.0

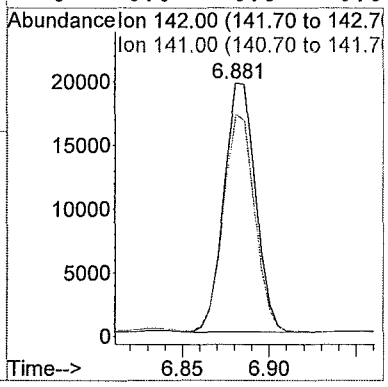


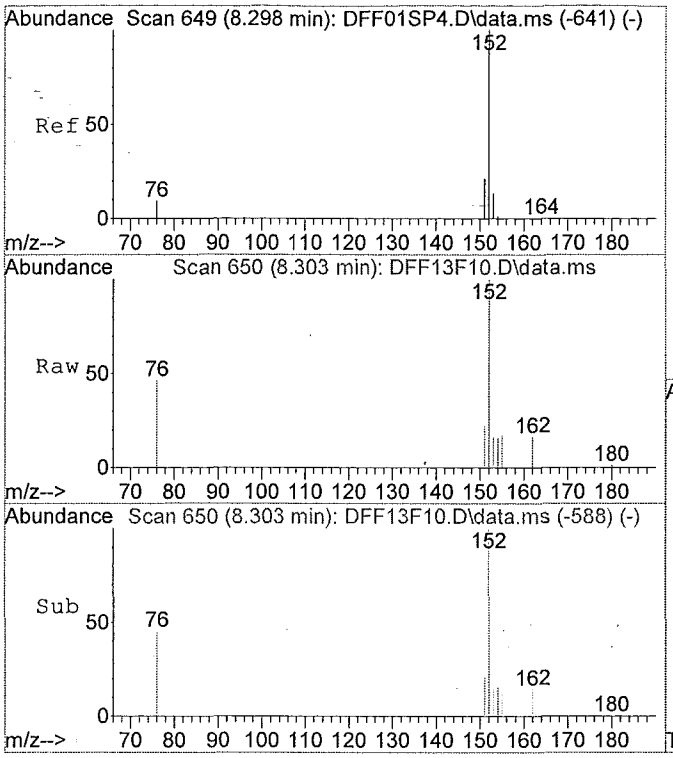


#4
2-Methylnaphthalene
Concen: 0.09 ug/ml
RT: 6.88 min Scan# 363
Delta R.T. 0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:142 Resp: 24623

Ion	Ratio	Lower	Upper
142	100		
141	88.3	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

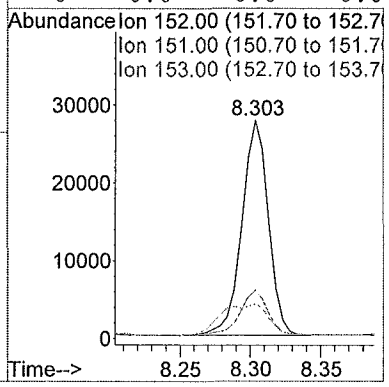


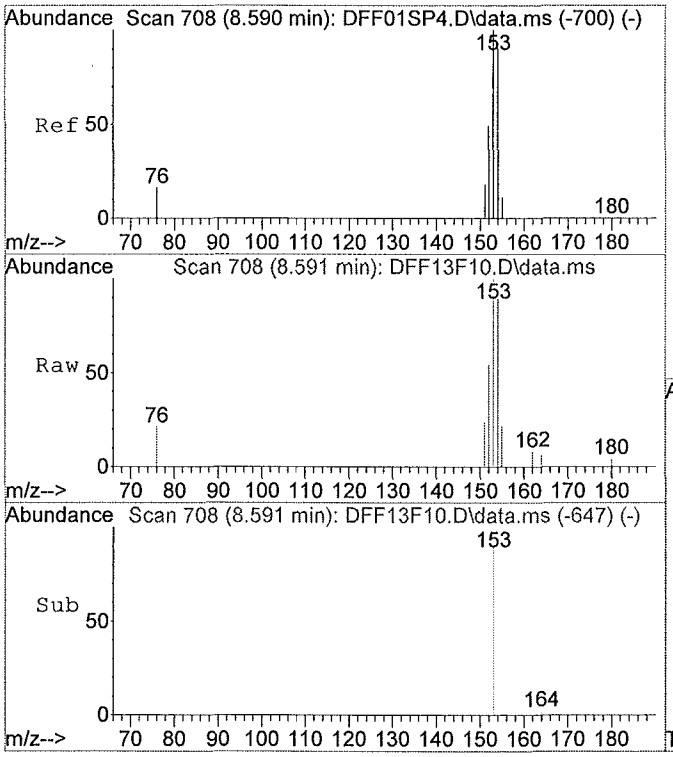


#6
Acenaphthylene
Concen: 0.07 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:152 Resp: 36185

Ion	Ratio	Lower	Upper
152	100		
151	22.3	15.5	28.7
153	27.0	8.8	16.4#
0	0.0	0.0	0.0

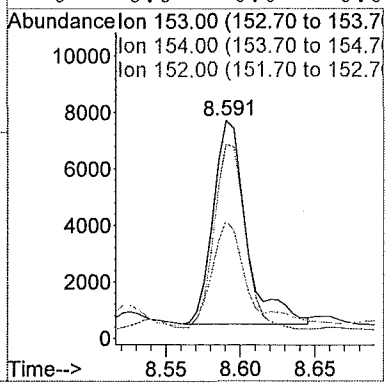


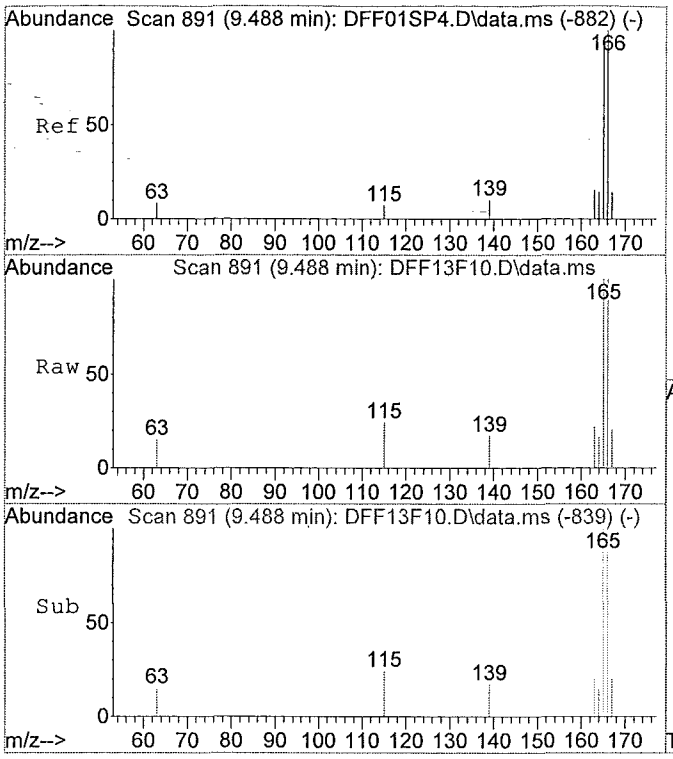


#7
Acenaphthene
Concen: 0.03 ug/ml
RT: 8.59 min Scan# 708
Delta R.T. 0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:153 Resp: 11210

Ion	Ratio	Lower	Upper
153	100		
154	85.6	65.1	120.9
152	53.5	35.2	65.4
0	0.0	0.0	0.0

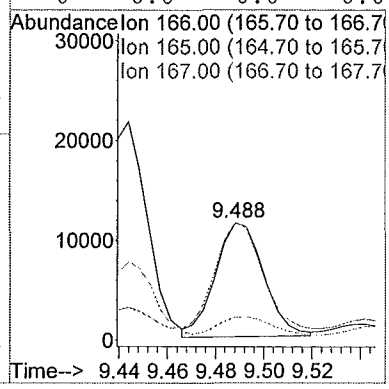


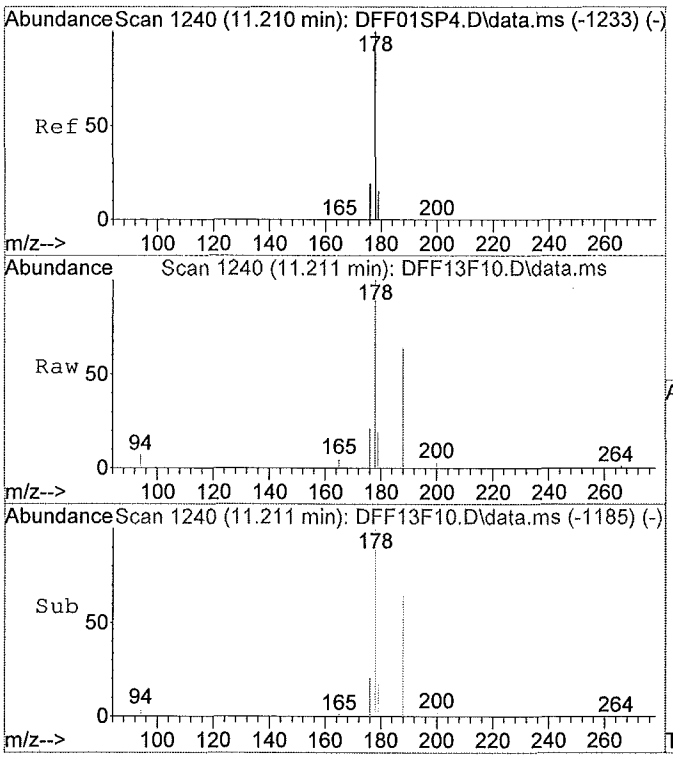


#8
Fluorene
Concen: 0.04 ug/ml
RT: 9.49 min Scan# 891
Delta R.T. 0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:166 Resp: 15882

Ion	Ratio	Lower	Upper
166	100		
165	102.1	66.3	123.1
167	21.7	0.0	0.0#
0	0.0	0.0	0.0

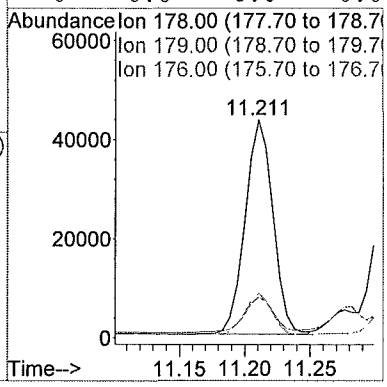


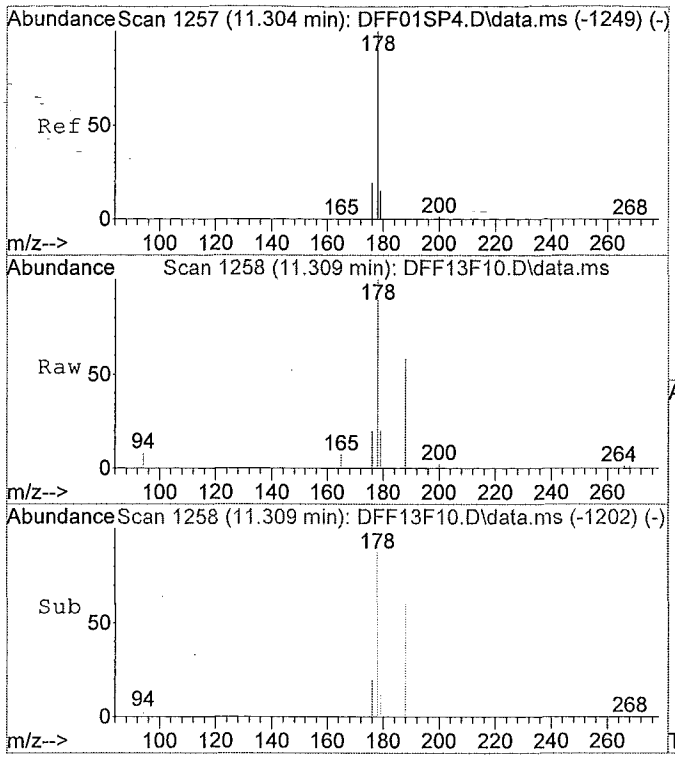


#11
Phenanthrene
Concen: 0.11 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:178 Resp: 63948

Ion	Ratio	Lower	Upper
178	100		
179	17.6	11.1	20.5
176	20.6	14.1	26.1
0	0.0	0.0	0.0

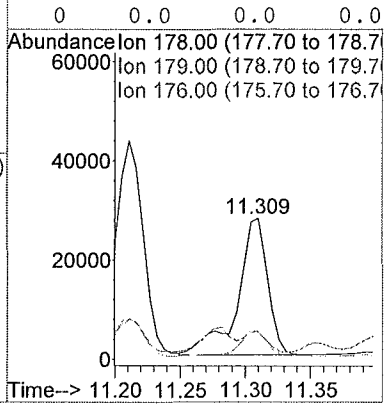


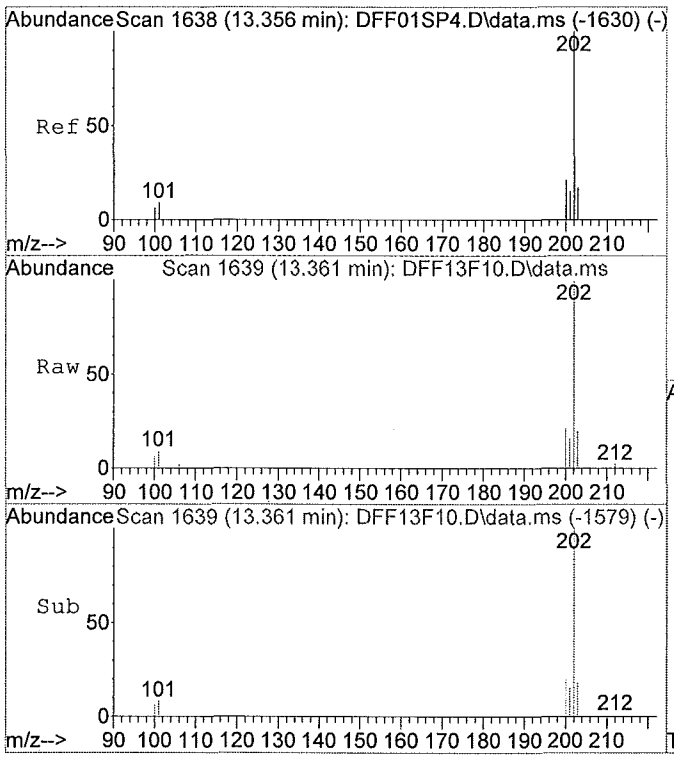


#12
Anthracene
Concen: 0.08 ug/ml
RT: 11.31 min Scan# 1258
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:178 Resp: 44610

Ion	Ratio	Lower	Upper
178	100		
179	11.7	11.6	21.6
176	17.6	13.9	25.7
0	0.0	0.0	0.0

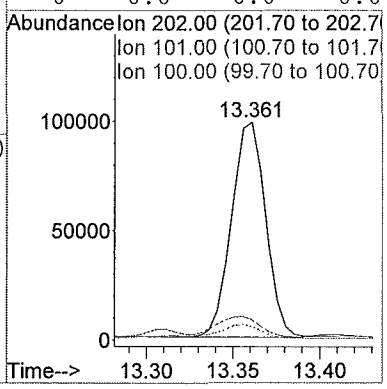


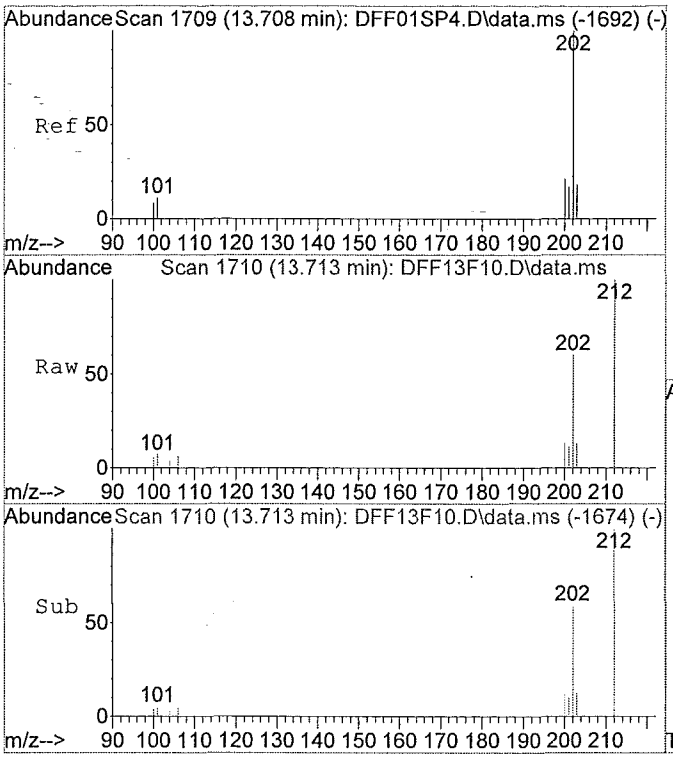


#14
Fluoranthene
Concen: 0.21 ug/ml
RT: 13.36 min Scan# 1639
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:202 Resp: 134521

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.4	17.6
100	9.6	0.0	0.0#
0	0.0	0.0	0.0

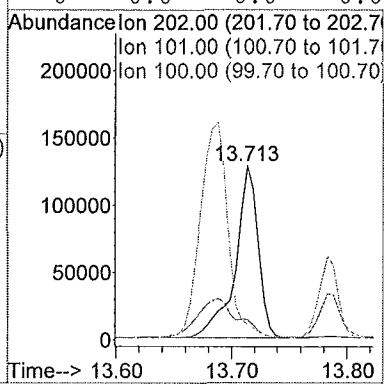


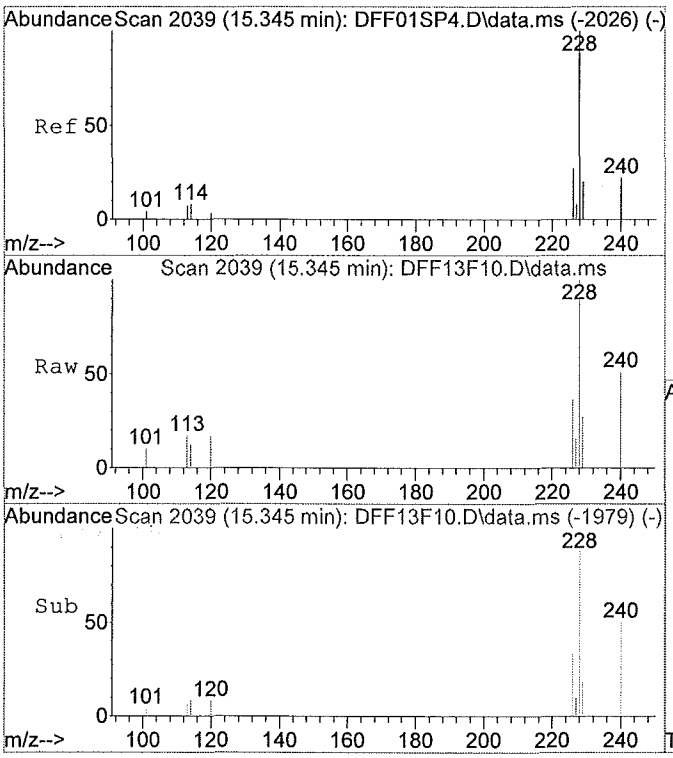


#16
Pyrene
Concen: 0.25 ug/ml
RT: 13.71 min Scan# 1710
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:202 Resp: 175719

Ion	Ratio	Lower	Upper
202	100		
101	40.9	10.6	19.6#
100	155.8	9.4	17.4#
0	0.0	0.0	0.0

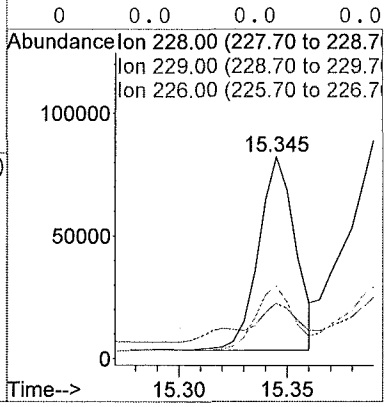


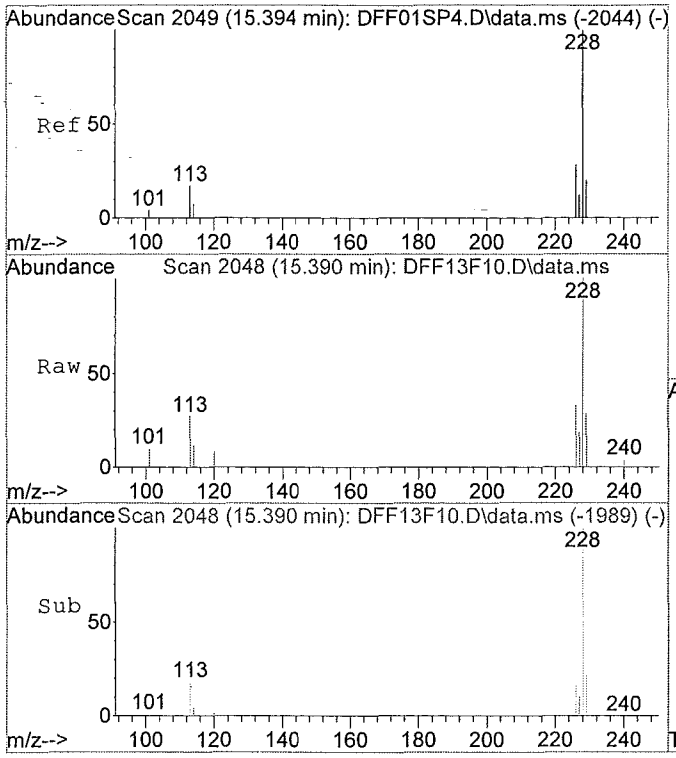


#17
Benzo(a)anthracene
Concen: 0.16 ug/ml
RT: 15.34 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:228 Resp: 93365

Ion	Ratio	Lower	Upper
228	100		
229	28.5	14.5	26.9#
226	34.4	18.5	34.3#
0	0.0	0.0	0.0

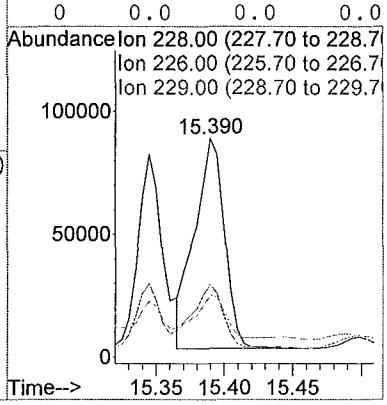


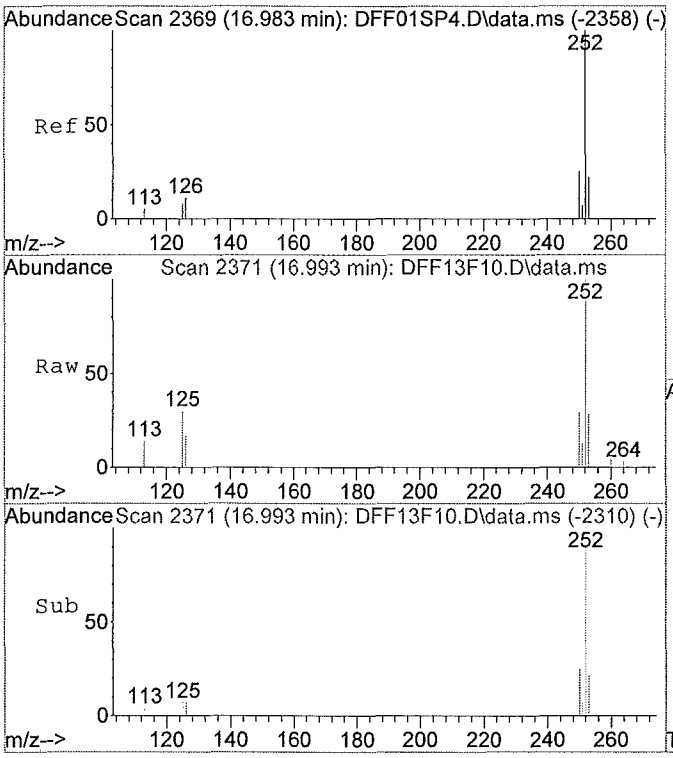


#18
Chrysene
Concen: 0.21 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:228 Resp: 131096

Ion	Ratio	Lower	Upper
228	100		
226	32.4	19.7	36.7
229	20.4	14.5	26.9
0	0.0	0.0	0.0

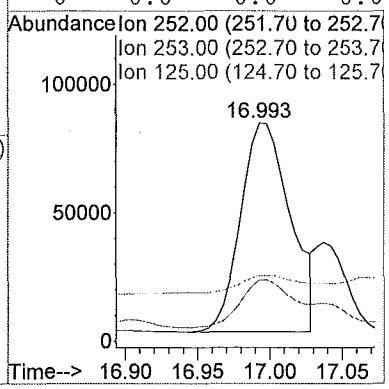


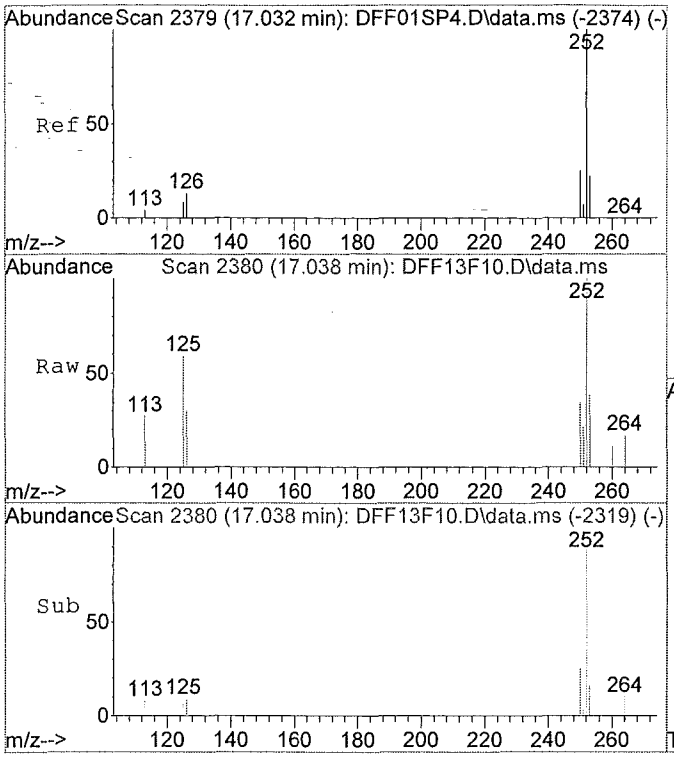


#20
Benzo(b)fluoranthene
Concen: 0.26 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:252 Resp: 194818

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.3	28.3
125	13.2	0.0	0.0#
0	0.0	0.0	0.0

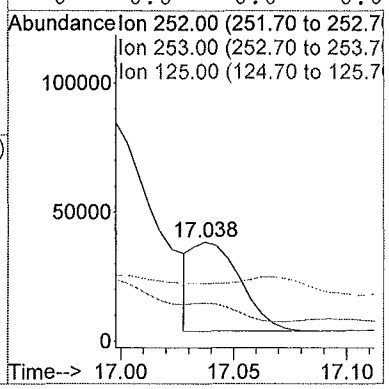


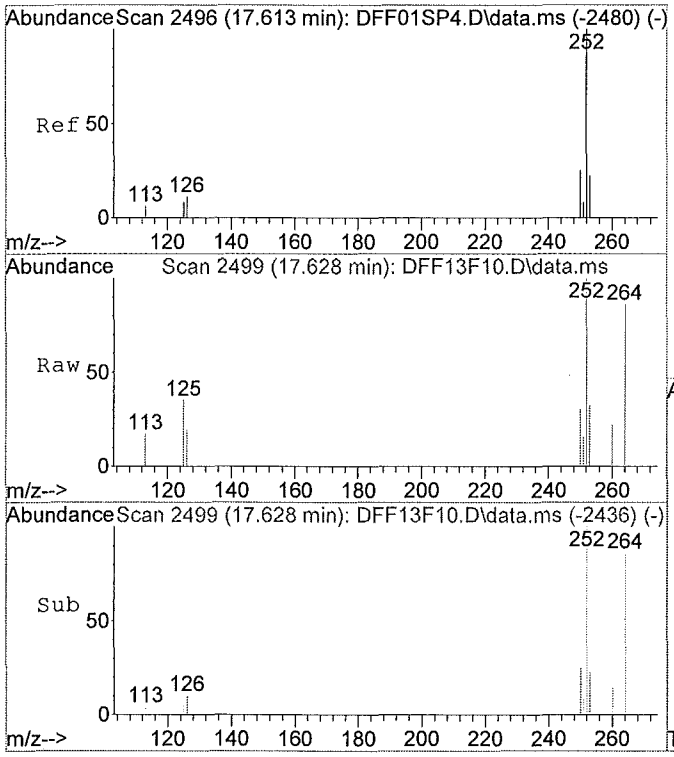


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.04 min Scan# 2380
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:252 Resp: 51701

Ion	Ratio	Lower	Upper
252	100		
253	91.0	15.0	27.8#
125	48.6	0.0	0.0#
0	0.0	0.0	0.0

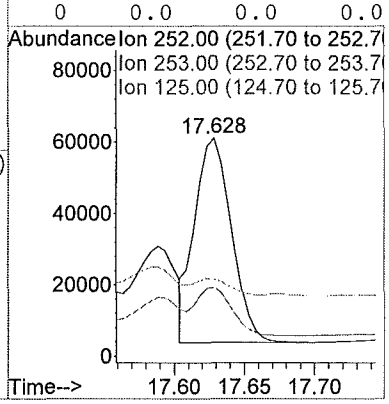


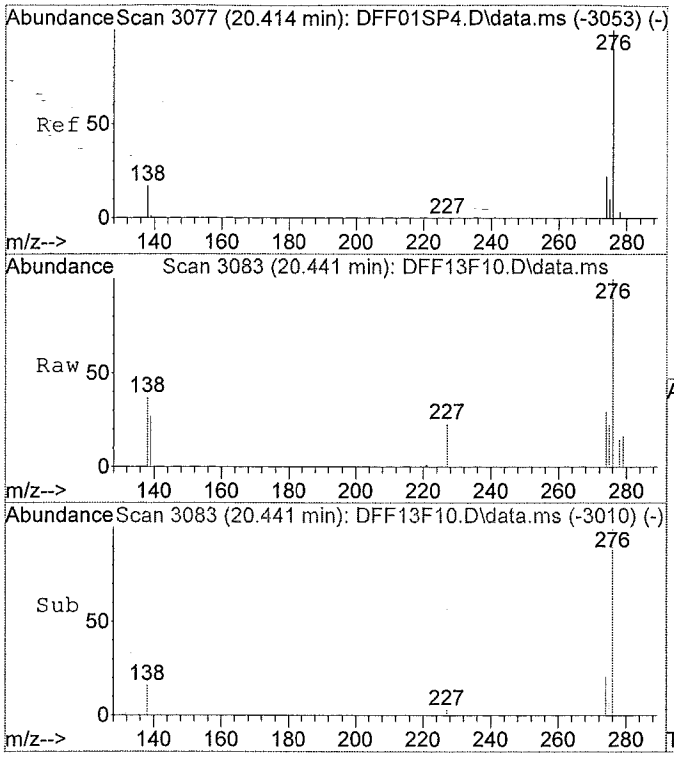


#22
Benzo(a)pyrene
Concen: 0.15 ug/ml
RT: 17.63 min Scan# 2499
Delta R.T. 0.02 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:252 Resp: 104949

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.0	27.8
125	7.4	0.0	0.0#
0	0.0	0.0	0.0

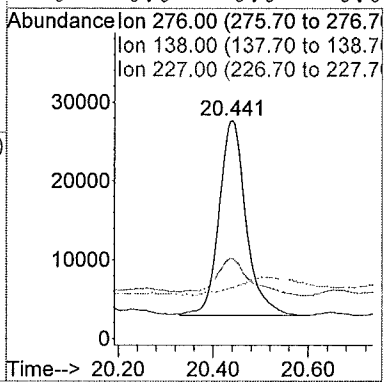


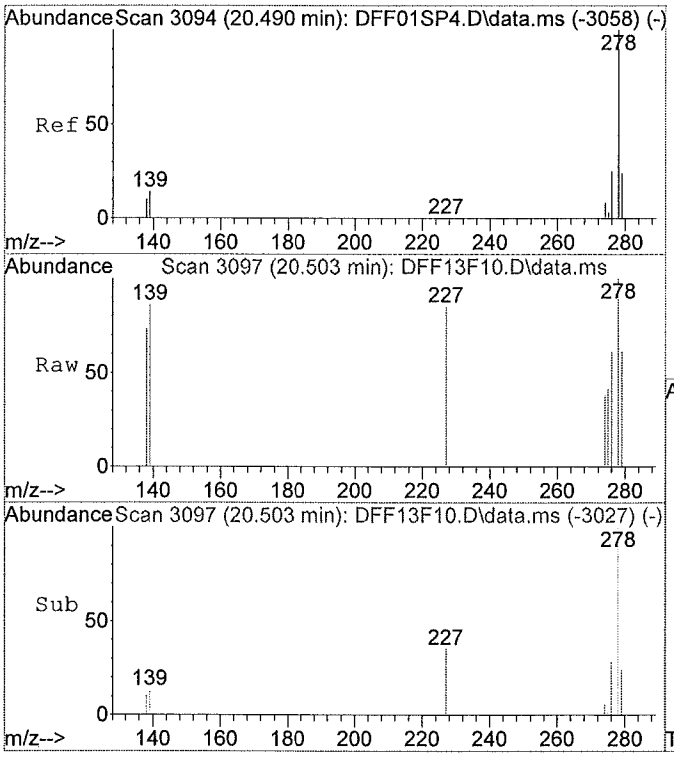


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.16 ug/ml
RT: 20.44 min Scan# 3083
Delta R.T. 0.03 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:276 Resp: 97036

Ion	Ratio	Lower	Upper
276	100		
138	23.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

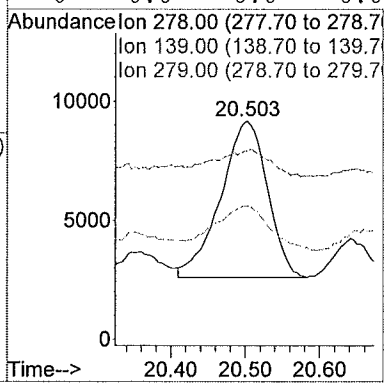


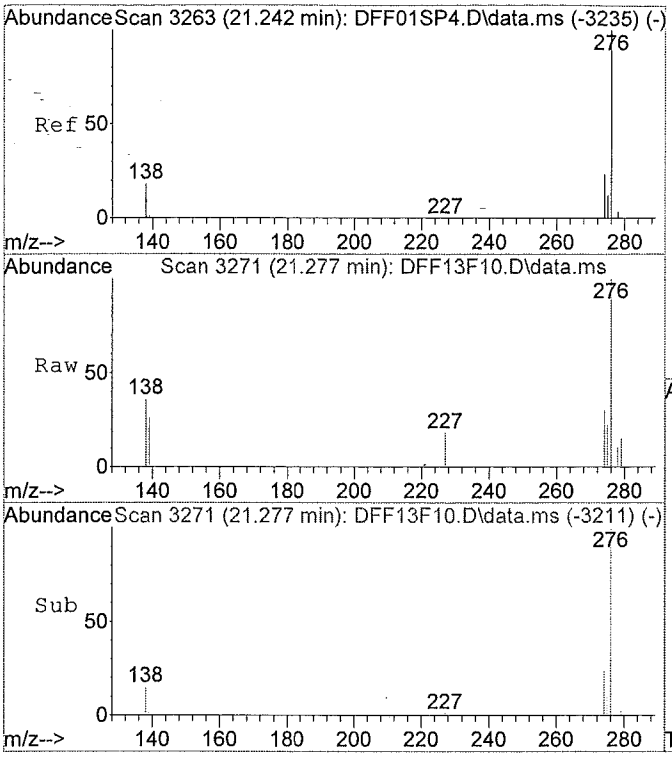


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.50 min Scan# 3097
Delta R.T. 0.01 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:278 Resp: 28711

Ion	Ratio	Lower	Upper
278	100		
139	19.4	0.0	0.0#
279	33.0	15.8	29.3#
0	0.0	0.0	0.0

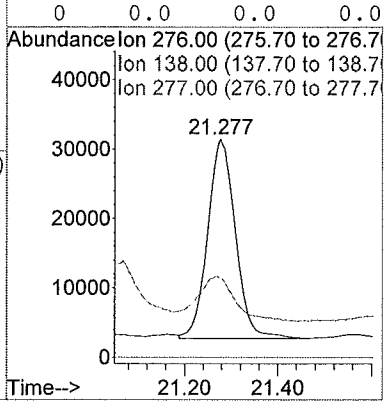




#25
Benzo(g,h,i)perylene
Concen: 0.17 ug/ml
RT: 21.28 min Scan# 3271
Delta R.T. 0.04 min
Lab File: DFF13F10.D
Acq: 07/09/2015 18:17

Tgt Ion:276 Resp: 119065

Ion	Ratio	Lower	Upper
276	100		
138	30.4	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:

F9L28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFF14F11

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.3	J
91-57-6	2-Methylnaphthalene	1.7	J
208-96-8	Acenaphthylene	1.8	J
83-32-9	Acenaphthene	4.0	U
86-73-7	Fluorene	4.0	U
87-86-5	Pentachlorophenol	1.2	J
85-01-8	Phenanthrene	2.5	J
120-12-7	Anthracene	2.5	J
206-44-0	Fluoranthene	8.2	
129-00-0	Pyrene	7.9	
56-55-3	Benzo(a)anthracene	6.3	
218-01-9	Chrysene	9.1	
205-99-2	Benzo(b)fluoranthene	11.	
207-08-9	Benzo(k)fluoranthene	2.5	J
50-32-8	Benzo(a)pyrene	5.9	
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	
53-70-3	Dibenzo(a,h)anthracene	1.5	J
191-24-2	Benzo(g,h,i)perylene	3.9	J

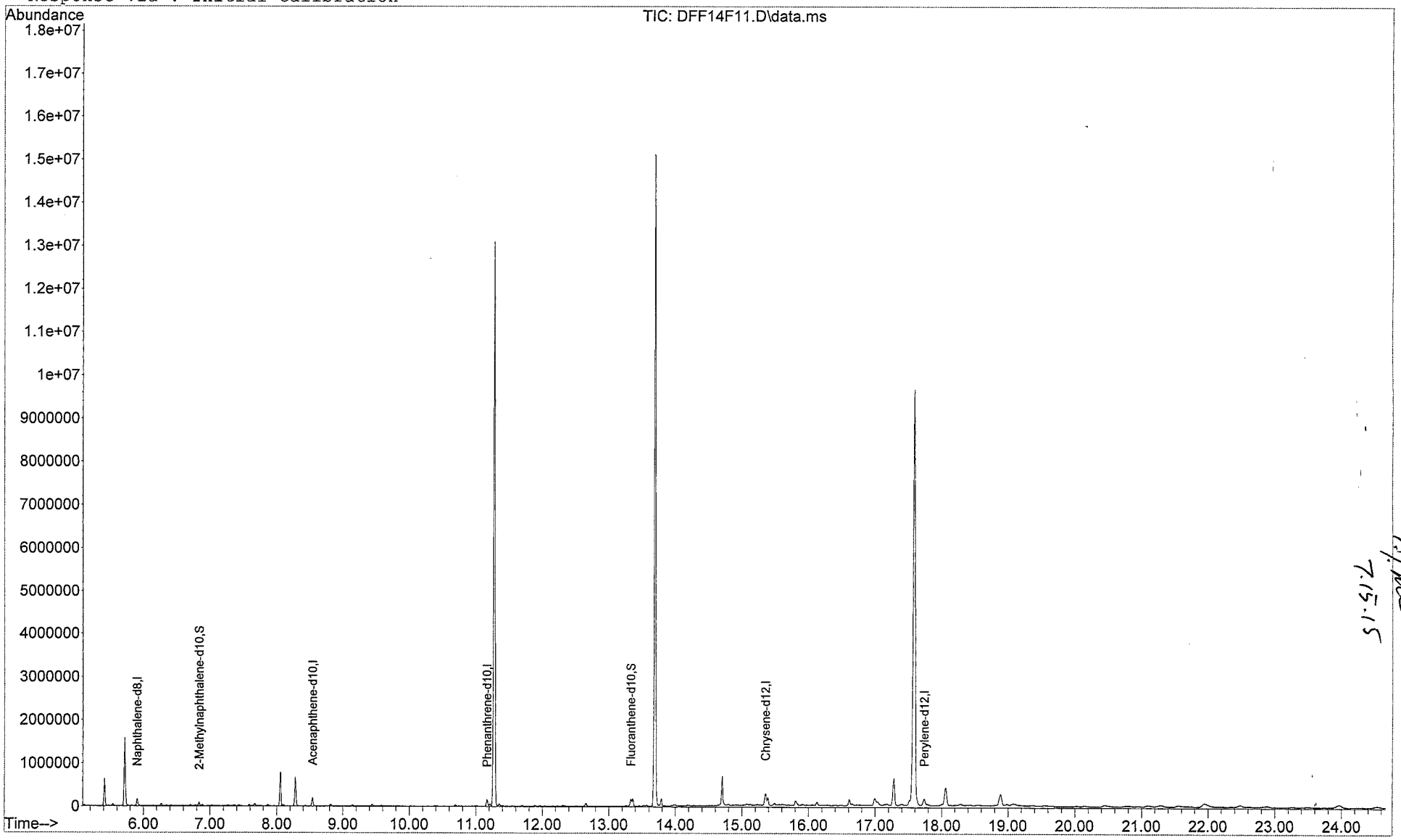
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF14F11.D
Acq On : 07/09/2015 18:47
Sample : 1513978011 F9L28
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 14
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:06:35 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 13:38:19 2015
Response via : Initial Calibration



7.15.15

Quantitation Report

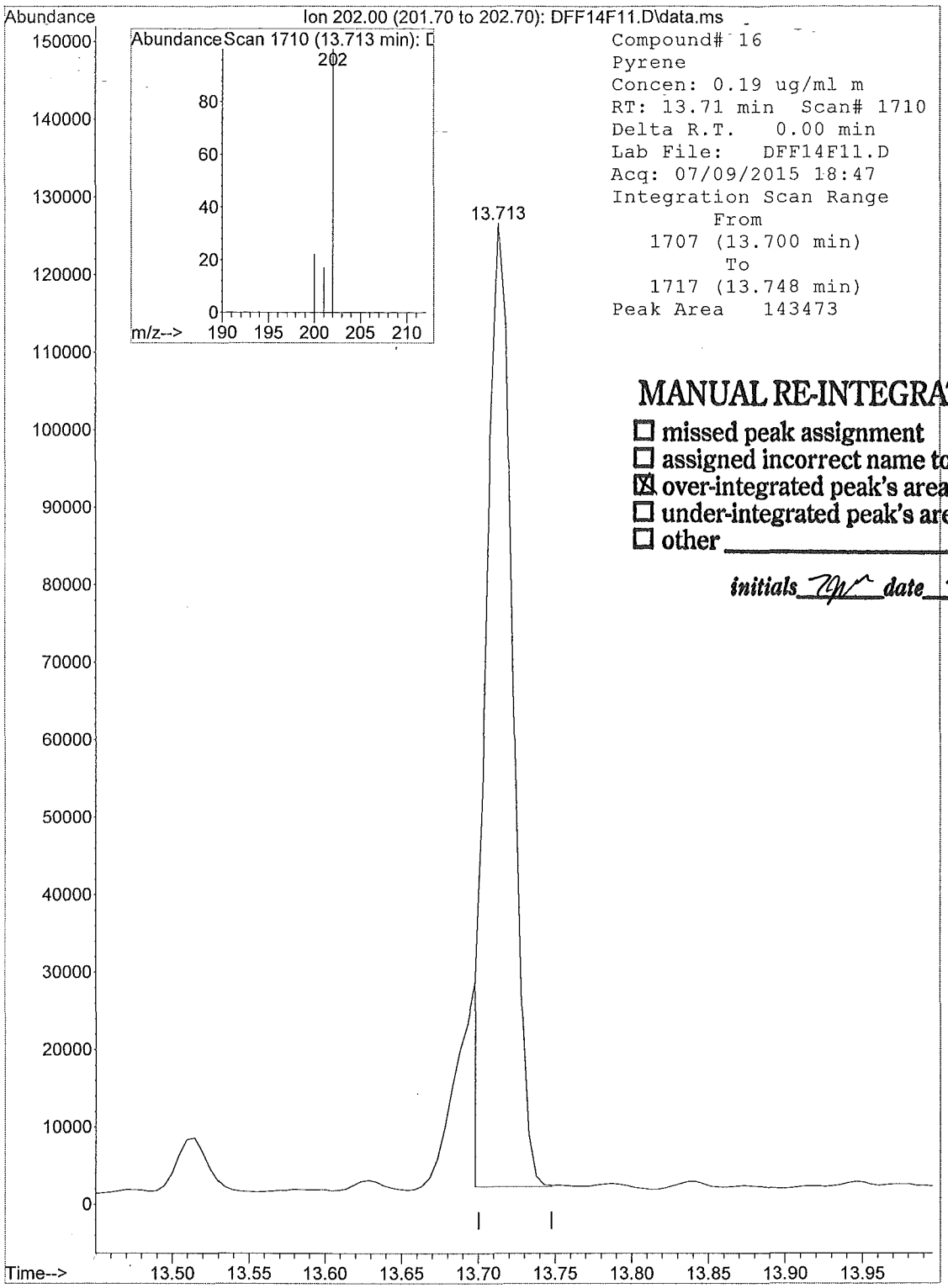
Data File : R:\D\2015\JUL15\09JUL15\DFF14F11.D Vial: 14
Acq On : 07/09/2015 18:47 Operator: DJC
Sample : 1513978011 F9L28 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:06:35 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	178358	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	126879	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	206742	0.40 ug/ml	
15) Chrysene-d12	15.36	240	235908	0.40 ug/ml	
19) Perylene-d12	17.74	264	257880	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	82909	0.288ug/mL	
13) Fluoranthene-d10	13.33	212	185340	0.328ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	14335	0.031ug/ml	96
4) 2-Methylnaphthalene	6.89	142	12619	0.042ug/ml	99
6) Acenaphthylene	8.30	152	24417	0.044ug/ml	83
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	10.85	266	894	0.029ug/ml	100
11) Phenanthrene	11.21	178	35764	0.060ug/ml	98
12) Anthracene	11.31	178	35573	0.061ug/ml	90
14) Fluoranthene	13.36	202	136397	0.201ug/ml	92
16) Pyrene	13.71	202	143473	0.194ug/ml m 7/1	1 7.15.15
17) Benzo(a)anthracene	15.34	228	96885	0.154ug/ml	84
18) Chrysene	15.39	228	148262	0.223ug/ml	96
20) Benzo(b)fluoranthene	16.99	252	207384	0.258ug/ml	98
21) Benzo(k)fluoranthene	17.04	252	51481	0.062ug/ml m 7/1	98 7.15.15
22) Benzo(a)pyrene	17.62	252	111489	0.145ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.45	276	91343	0.136ug/ml	100
24) Dibenzo(a,h)anthracene	20.51	278	26766	0.036ug/ml	71
25) Benzo(g,h,i)perylene	21.30	276	72850	0.096ug/ml	52

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

M A N U A L I N T E G R A T I O N FOR Pyrene



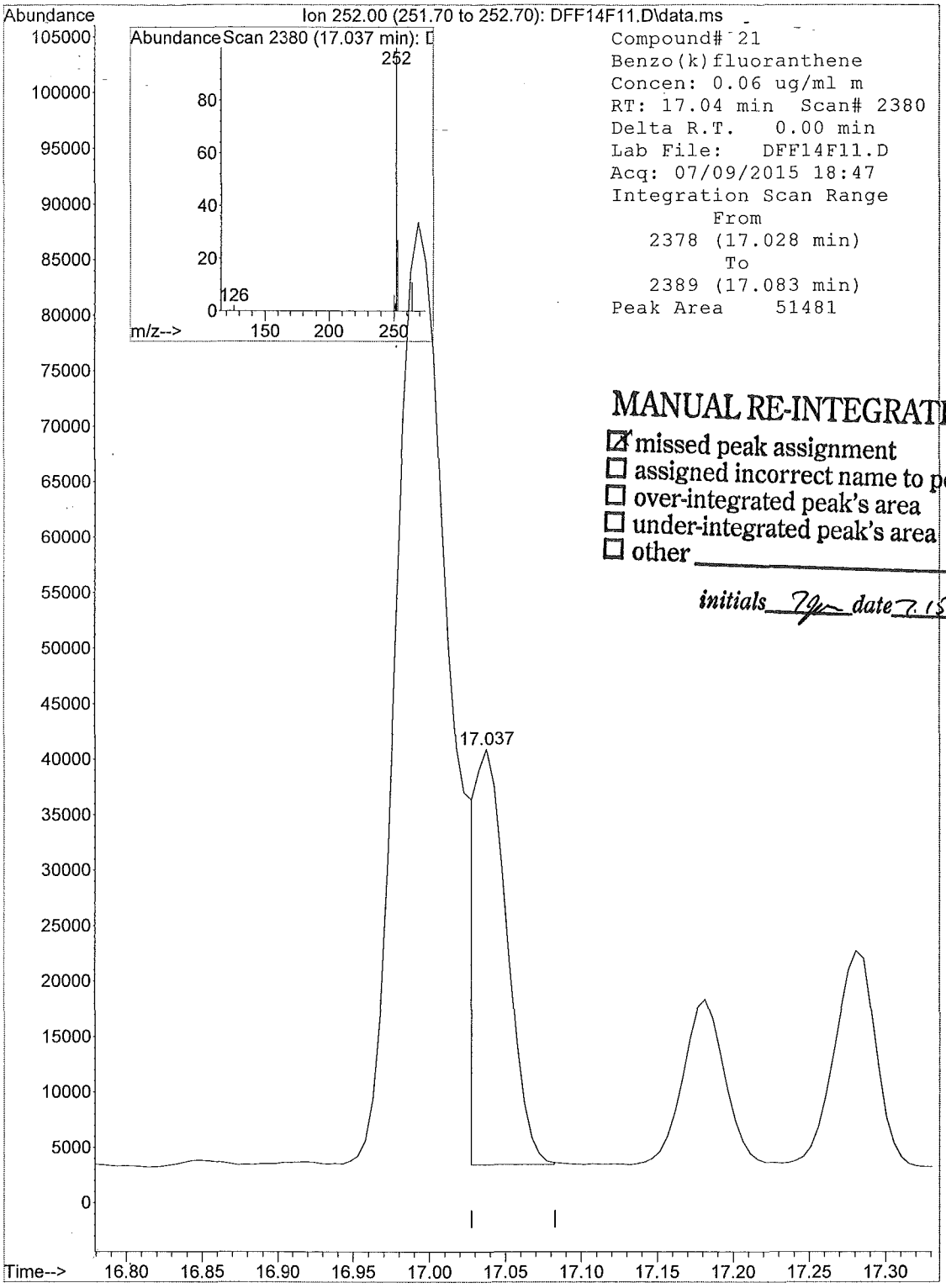
Compound# 16
Pyrene
Concen: 0.19 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47
Integration Scan Range
From
1707 (13.700 min)
To
1717 (13.748 min)
Peak Area 143473

MANUAL RE-INTEGRATION

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

initials TJM *date* 7.15.15

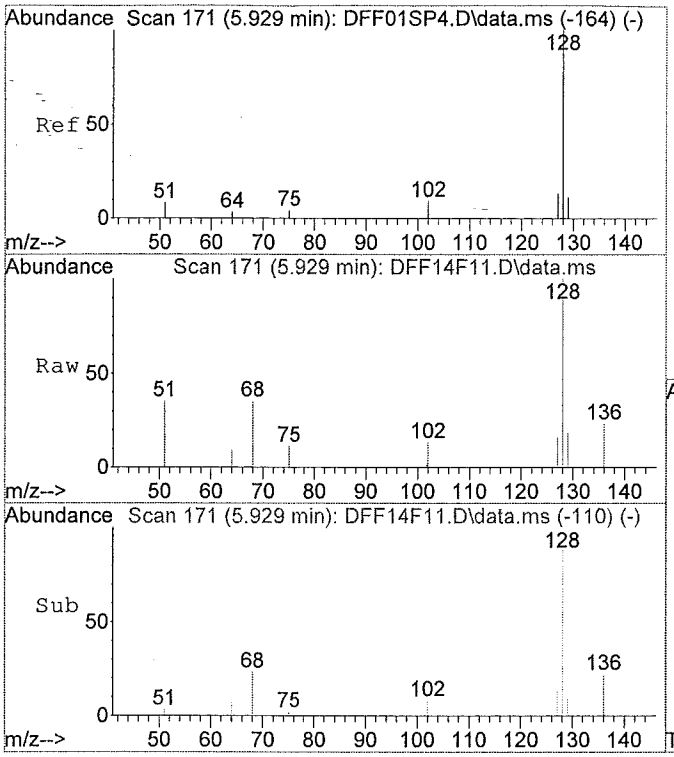
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

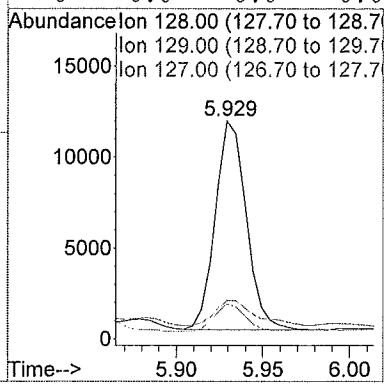
initials TJ *date* 7.15.15

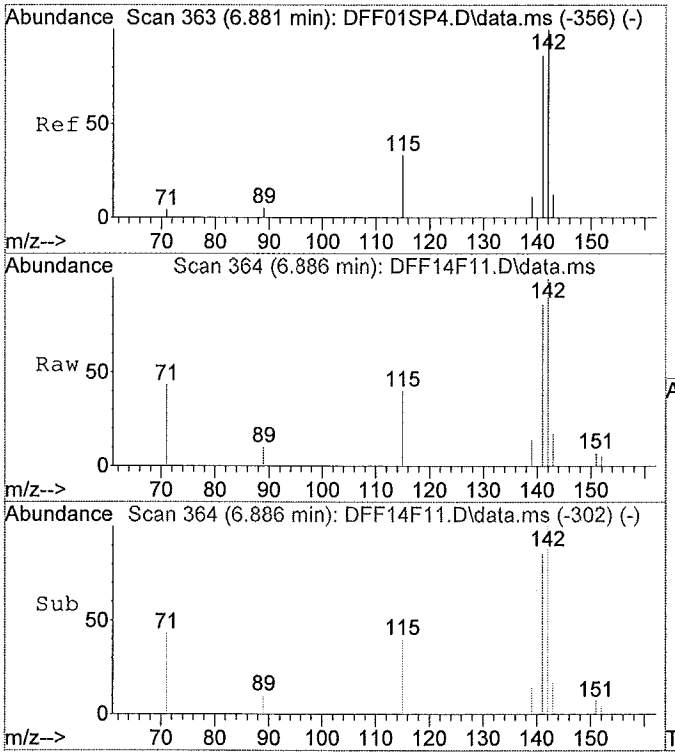


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:128 Resp: 14335

Ion	Ratio	Lower	Upper
128	100		
129	16.6	0.0	0.0#
127	14.0	11.1	20.5
0	0.0	0.0	0.0

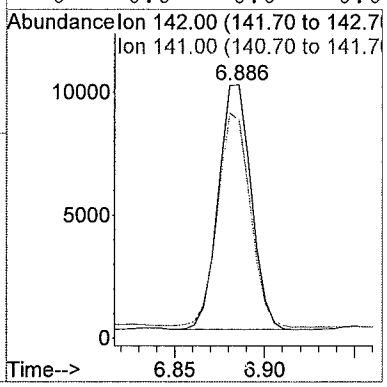


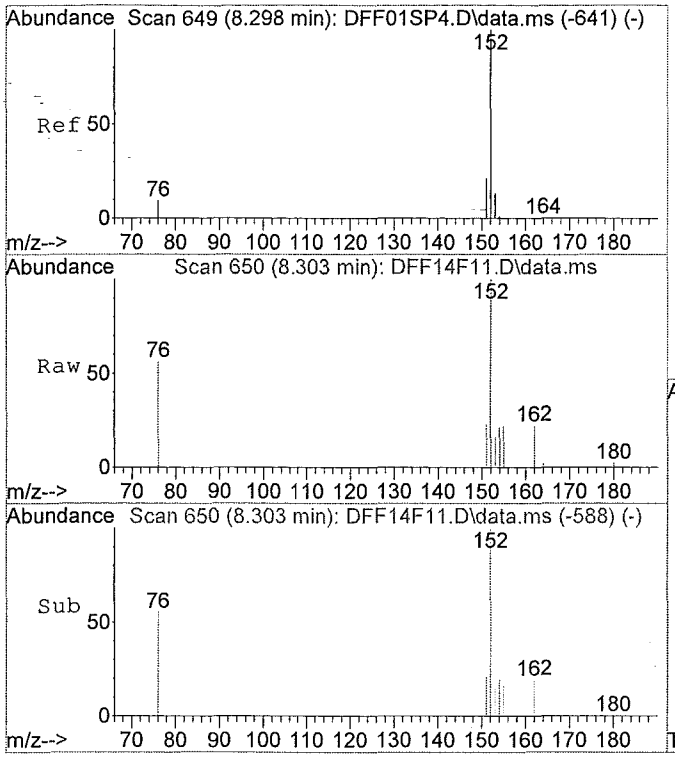


#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 6.89 min Scan# 364
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:142 Resp: 12619

Ion	Ratio	Lower	Upper
142	100		
141	86.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

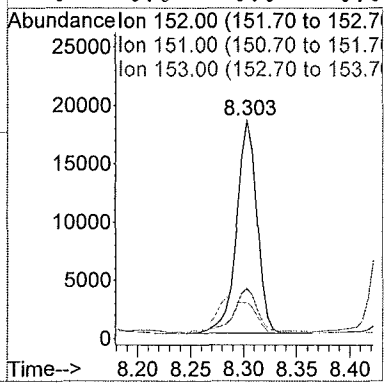


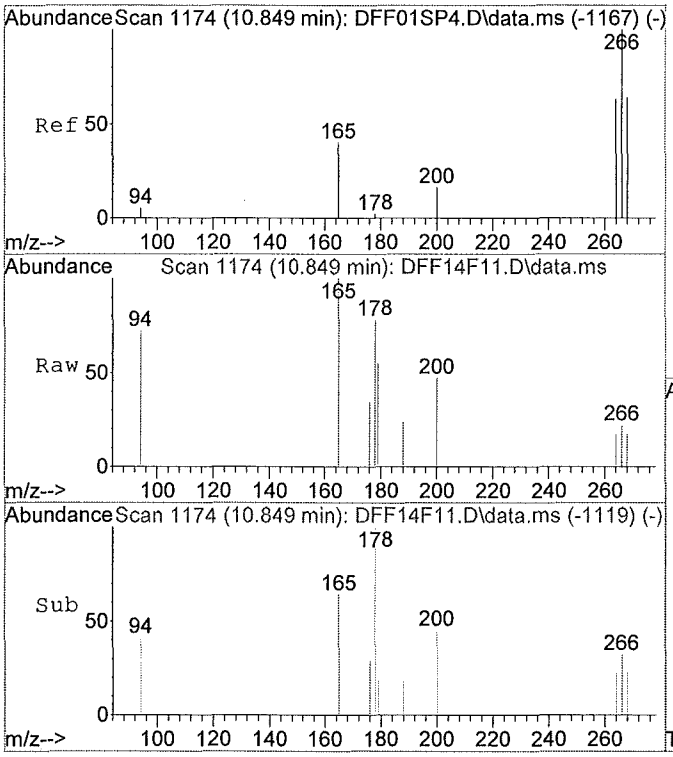


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:152 Resp: 24417

Ion	Ratio	Lower	Upper
152	100		
151	23.0	15.5	28.7
153	29.4	8.8	16.4#
0	0.0	0.0	0.0

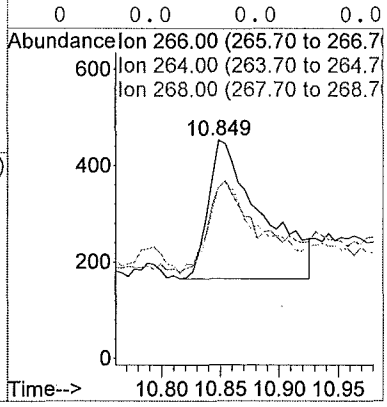


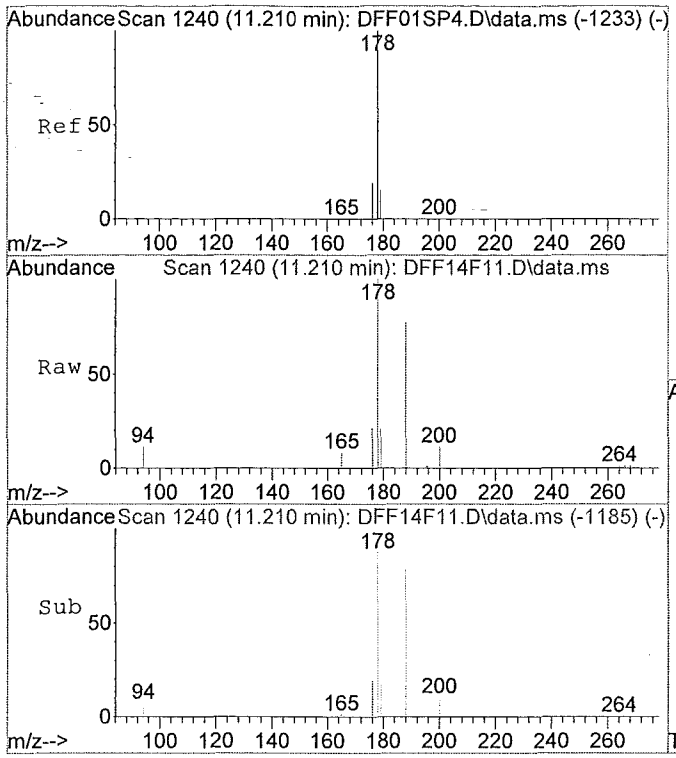


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 10.85 min Scan# 1174
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:266 Resp: 894

Ion	Ratio	Lower	Upper
266	100		
264	56.6	0.0	0.0#
268	64.5	0.0	0.0#
0	0.0	0.0	0.0

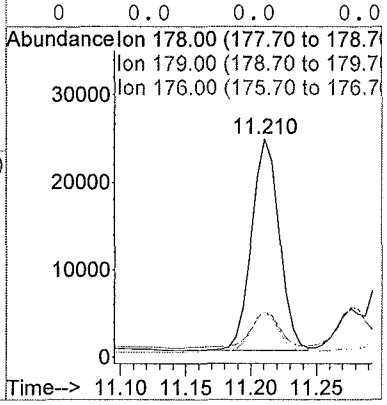


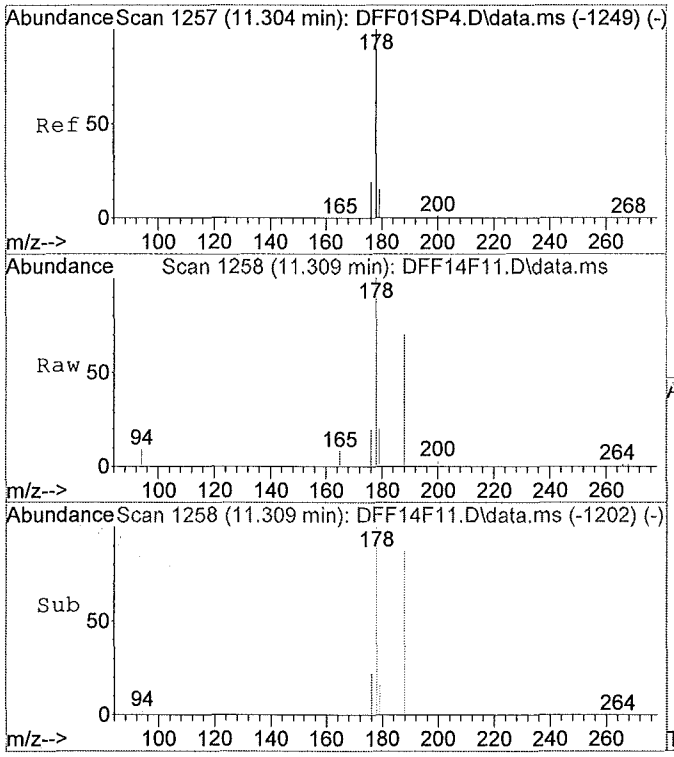


#11
Phenanthrene
Concen: 0.06 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:178 Resp: 35764

Ion	Ratio	Lower	Upper
178	100		
179	18.1	11.1	20.5
176	20.1	14.1	26.1
0	0.0	0.0	0.0

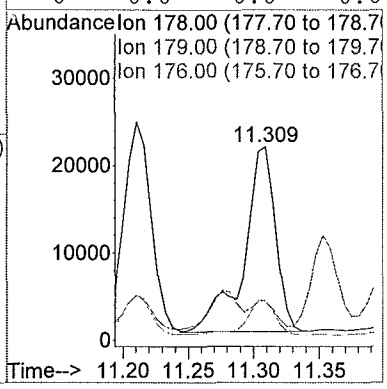


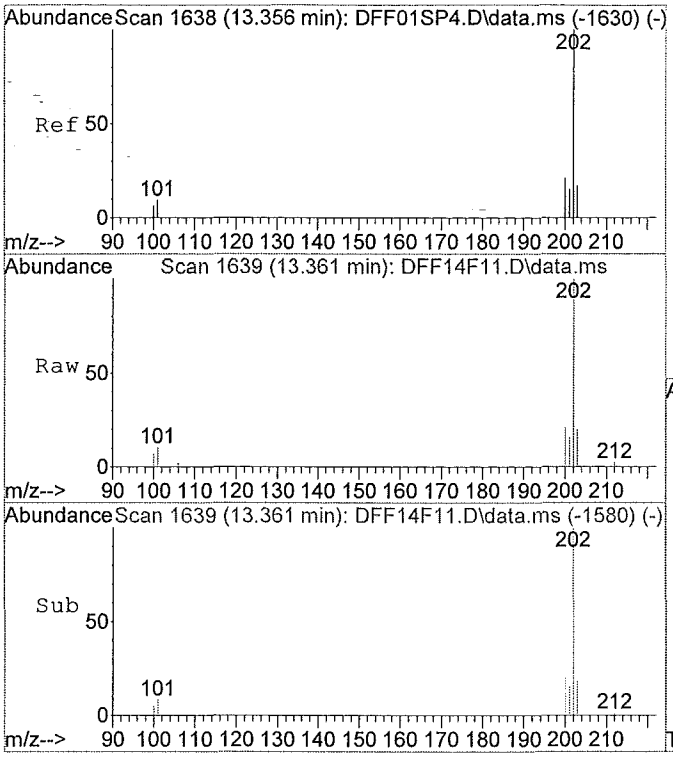


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.31 min Scan# 1258
Delta R.T. 0.01 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:178 Resp: 35573

Ion	Ratio	Lower	Upper
178	100		
179	9.9	11.6	21.6#
176	17.1	13.9	25.7
0	0.0	0.0	0.0

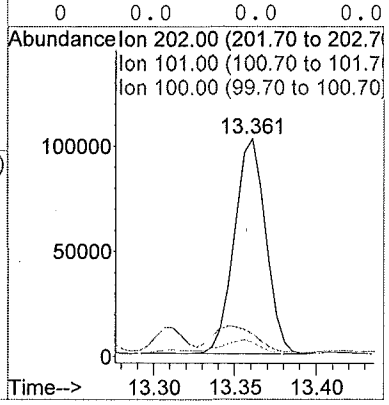


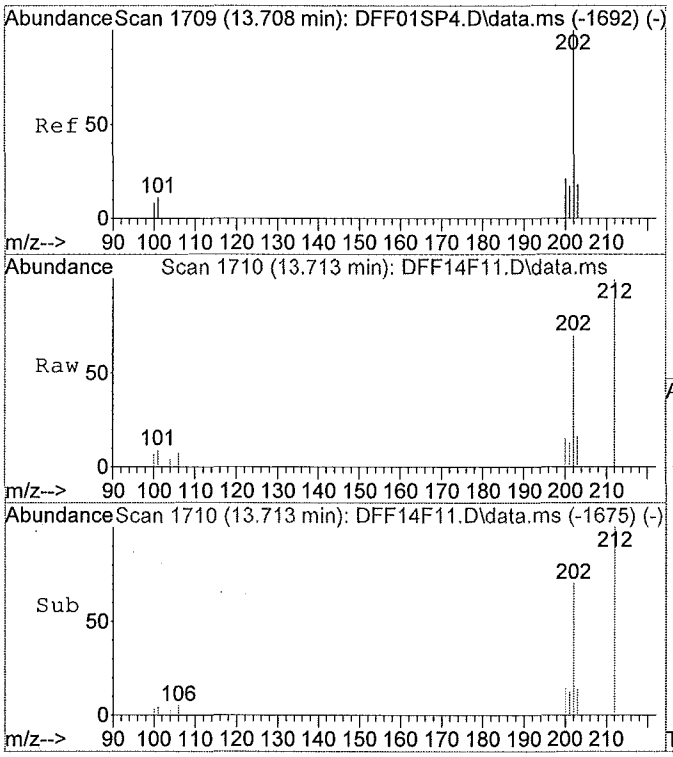


#14
Fluoranthene
Concen: 0.20 ug/ml
RT: 13.36 min Scan# 1639
Delta R.T. 0.01 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:202 Resp: 136397

Ion	Ratio	Lower	Upper
202	100		
101	16.8	9.4	17.6
100	8.7	0.0	0.0#
0	0.0	0.0	0.0

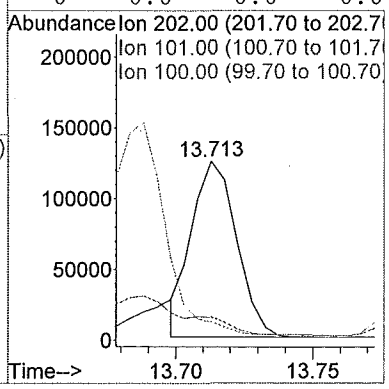


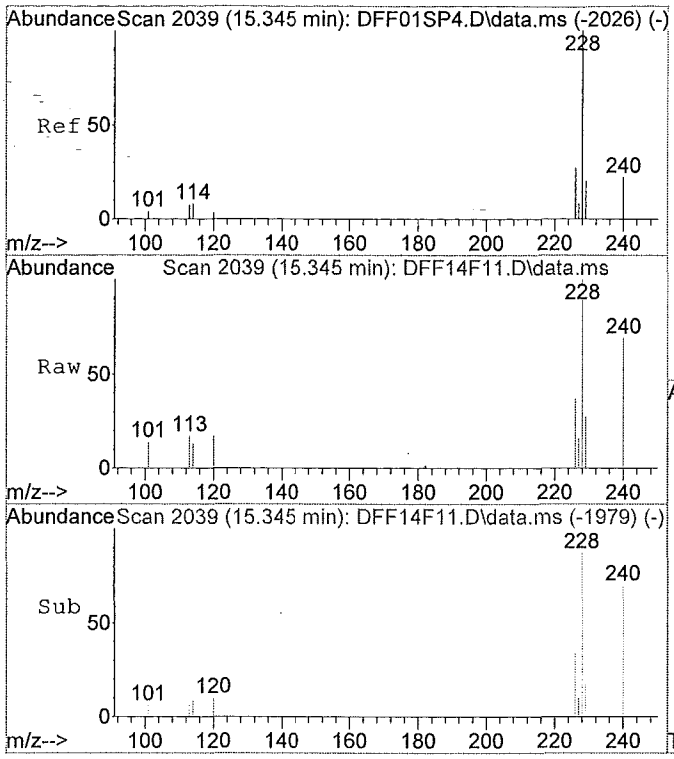


#16
Pyrene
Concen: 0.19 ug/ml m
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:202 Resp: 143473

Ion	Ratio	Lower	Upper
202	100		
101	51.6	10.6	19.6#
100	166.7	9.4	17.4#
0	0.0	0.0	0.0

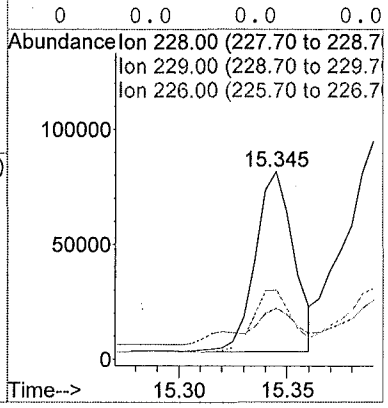


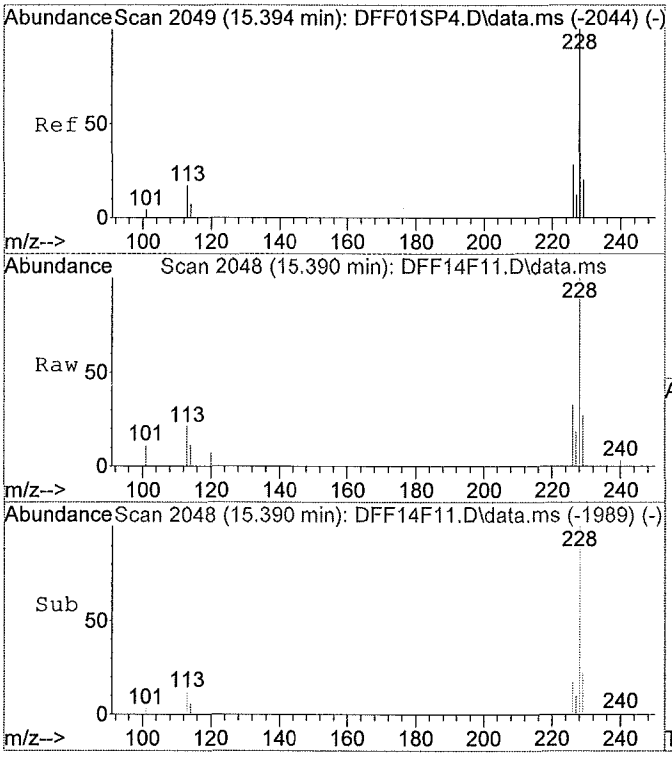


#17
Benzo(a)anthracene
Concen: 0.15 ug/ml
RT: 15.34 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:228 Resp: 96885

Ion	Ratio	Lower	Upper
228	100		
229	26.9	14.5	26.9#
226	35.8	18.5	34.3#
0	0.0	0.0	0.0

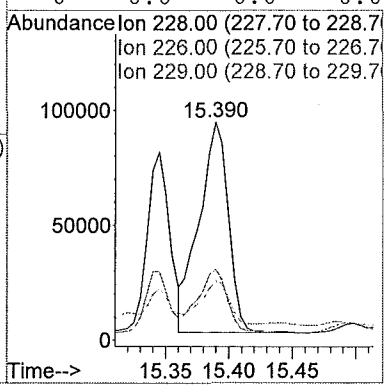


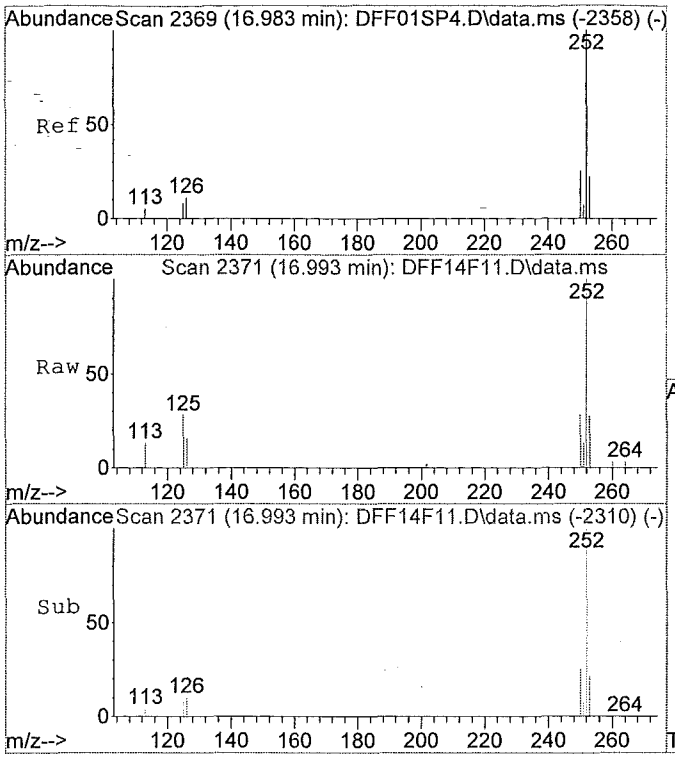


#18
Chrysene
Concen: 0.22 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:228 Resp: 148262

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	19.4	14.5	26.9
0	0.0	0.0	0.0

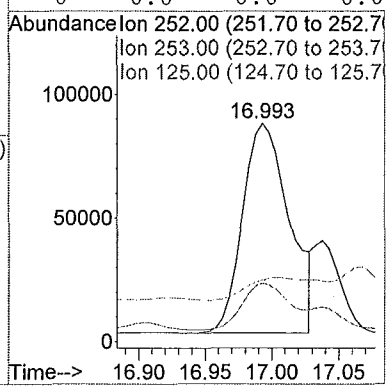


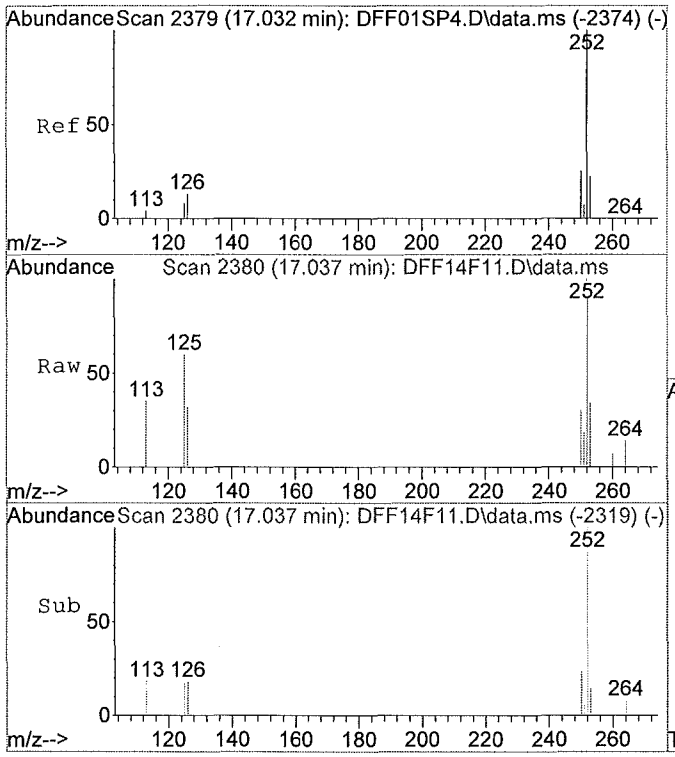


#20
Benzo(b)fluoranthene
Concen: 0.26 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:252 Resp: 207384

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	17.2	0.0	0.0#
0	0.0	0.0	0.0

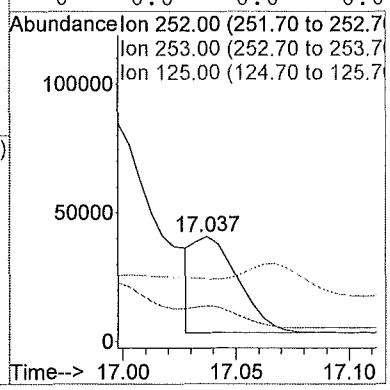


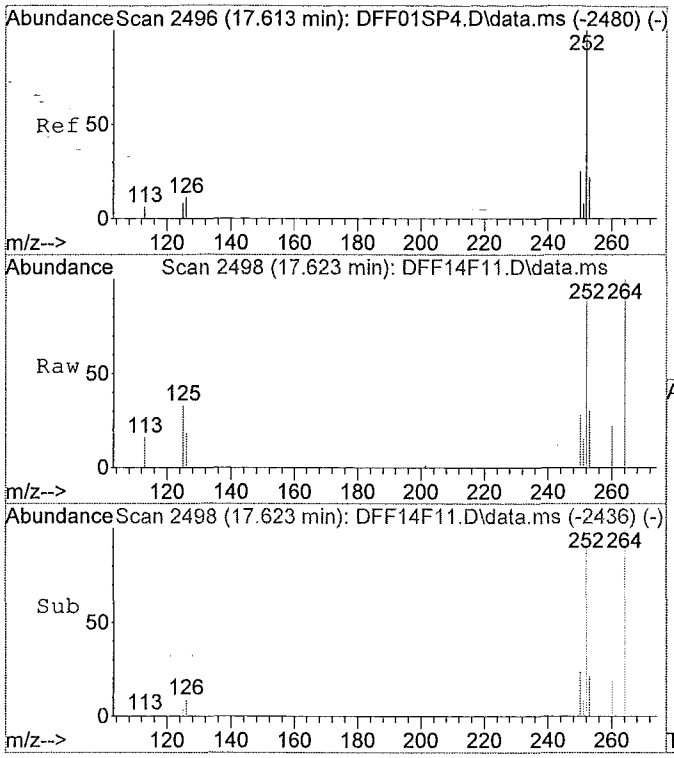


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.04 min Scan# 2380
Delta R.T. 0.00 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:252 Resp: 51481

Ion	Ratio	Lower	Upper
252	100		
253	90.7	15.0	27.8#
125	66.4	0.0	0.0#
0	0.0	0.0	0.0

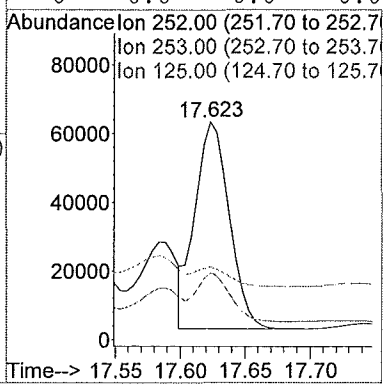


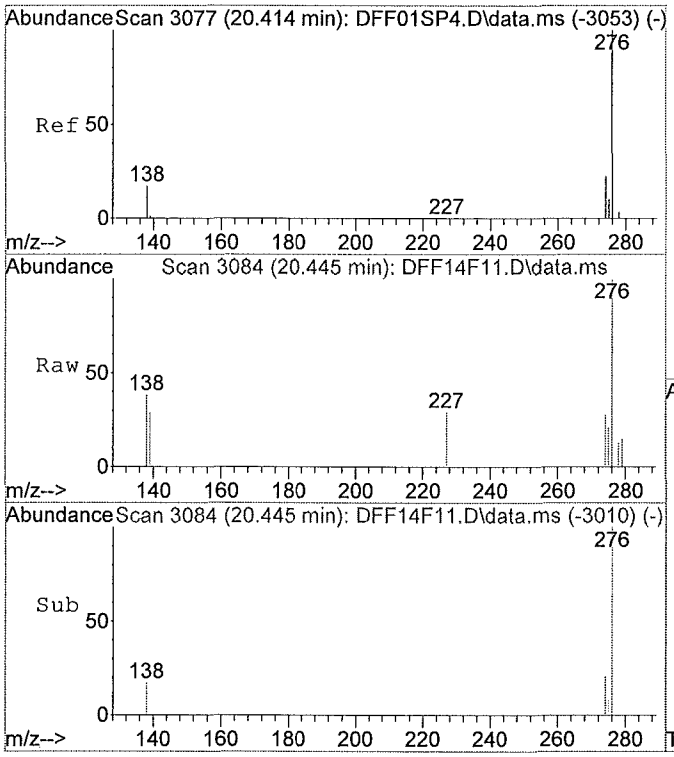


#22
Benzo(a)pyrene
Concen: 0.15 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:252 Resp: 111489

Ion	Ratio	Lower	Upper
252	100		
253	24.5	15.0	27.8
125	9.1	0.0	0.0#
0	0.0	0.0	0.0

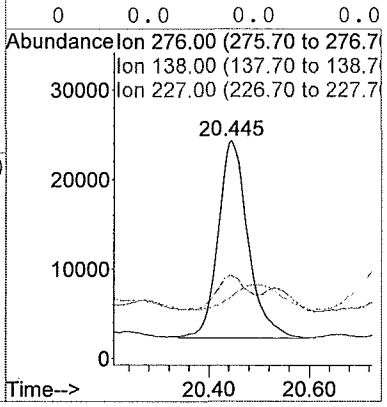


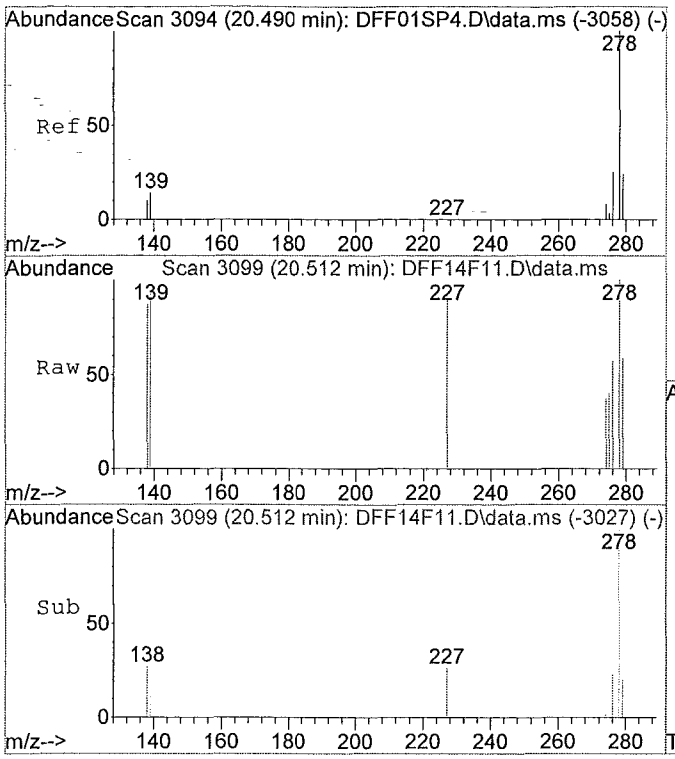


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.14 ug/ml
RT: 20.45 min Scan# 3084
Delta R.T. 0.03 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:276 Resp: 91343

Ion	Ratio	Lower	Upper
276	100		
138	16.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

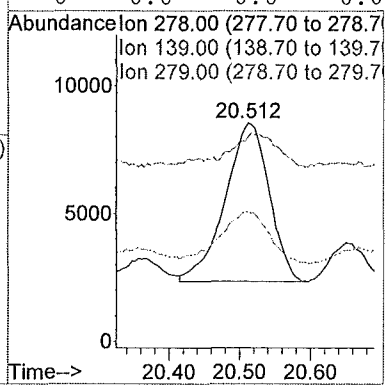


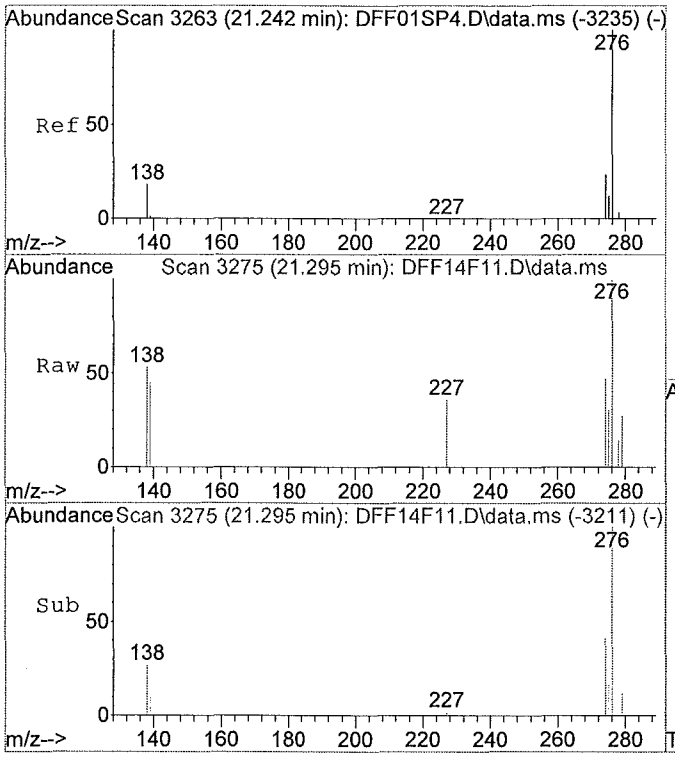


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.51 min Scan# 3099
Delta R.T. 0.02 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:278 Resp: 26766

Ion	Ratio	Lower	Upper
278	100		
139	20.4	0.0	0.0#
279	36.4	15.8	29.3#
0	0.0	0.0	0.0

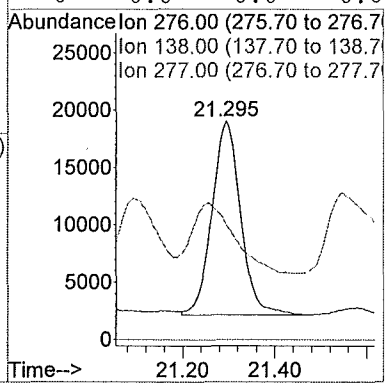




#25
Benzo(g,h,i)perylene
Concen: 0.10 ug/ml
RT: 21.30 min Scan# 3275
Delta R.T. 0.05 min
Lab File: DFF14F11.D
Acq: 07/09/2015 18:47

Tgt Ion:276 Resp: 72850

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.

F9L29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978012

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFT08F12

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

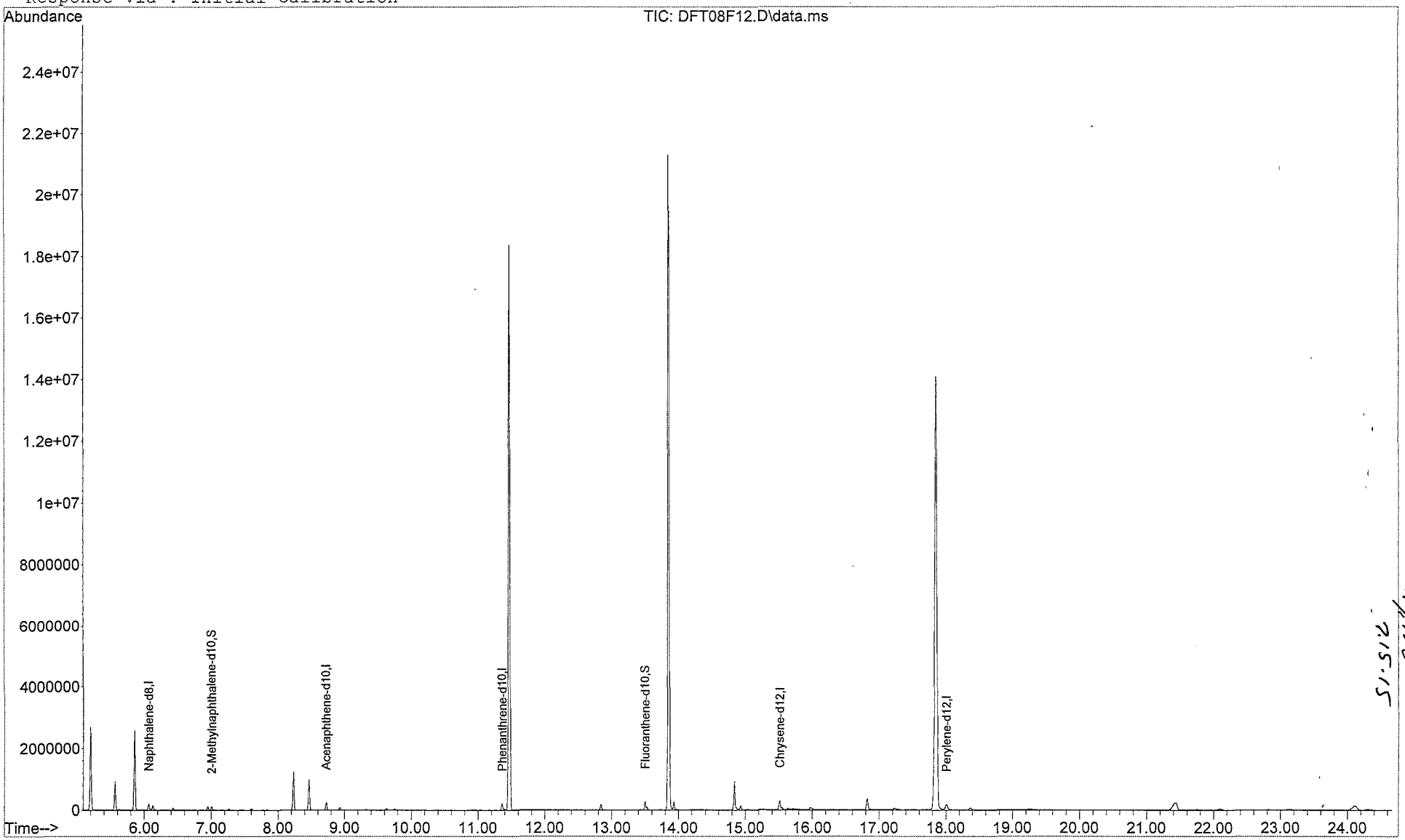
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	2.9	J
129-00-0	Pyrene	4.2	
56-55-3	Benzo(a)anthracene	2.2	J
218-01-9	Chrysene	2.3	J
205-99-2	Benzo(b)fluoranthene	2.4	J
207-08-9	Benzo(k)fluoranthene	0.78	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT08F12.D Vial: 8
Acq On : 06/04/2015 16:33 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 06:56:33 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

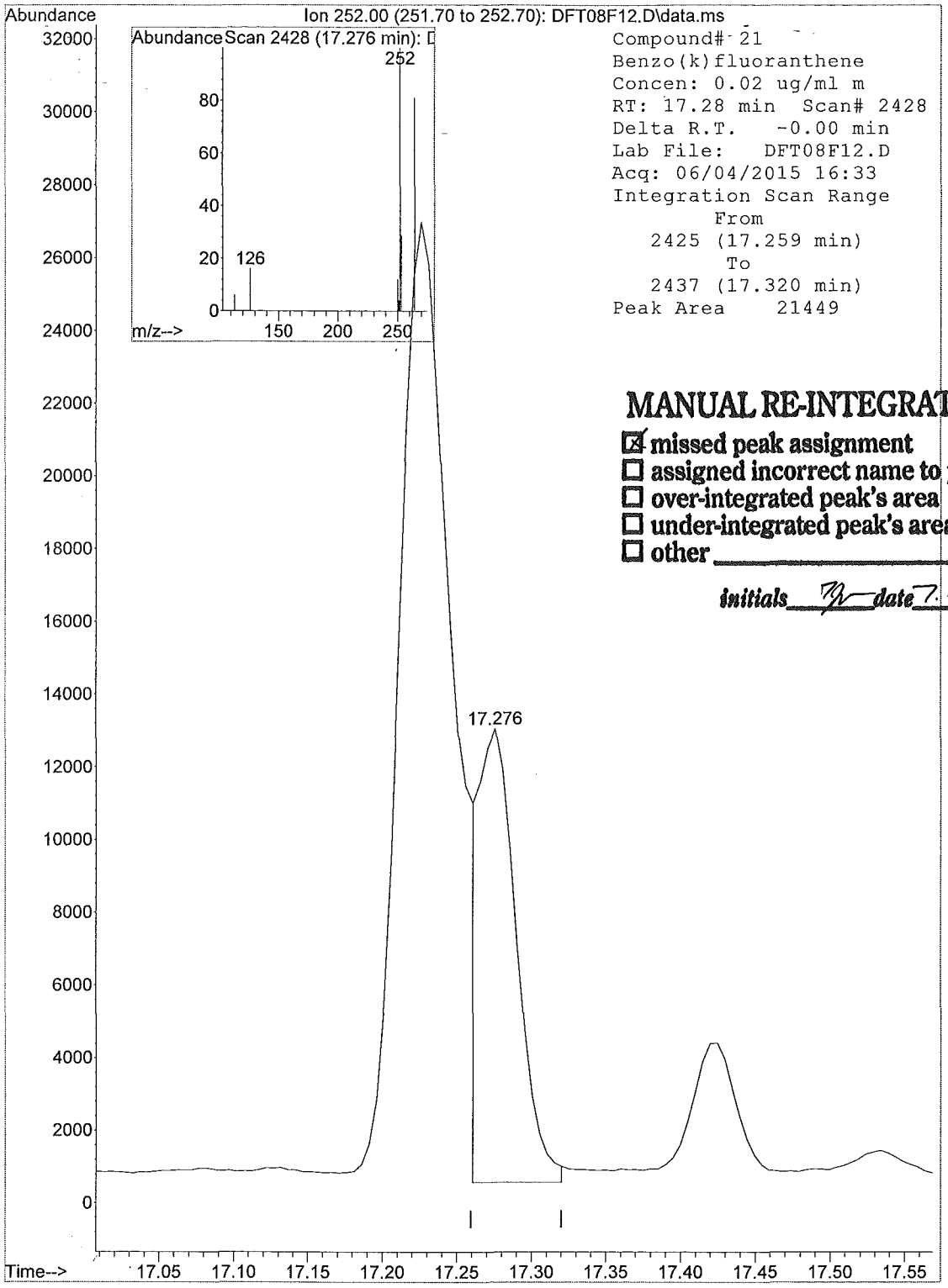
Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT08F12.D Vial: 8
Acq On : 06/04/2015 16:33 Operator: DJC
Sample : 1513978012 F9L29 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 06:56:33 2015 Results File: DSOM_SIMJ2.RES

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	6.07	136	236127	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	169441	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	285126	0.40 ug/ml	
15) Chrysene-d12	15.51	240	301168	0.40 ug/ml	
19) Perylene-d12	18.01	264	328021	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	125362	0.329ug/mL	
13) Fluoranthene-d10	13.50	212	301205	0.386ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	70410	0.075ug/ml	91
16) Pyrene	13.88	202	102429	0.108ug/ml	1
17) Benzo(a)anthracene	15.50	228	46113	0.057ug/ml	85
18) Chrysene	15.55	228	50331	0.059ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	64251	0.063ug/ml	98
21) Benzo(k)fluoranthene	17.28	252	21449	0.020ug/ml m	97 7.15.15
22) Benzo(a)pyrene	17.89	252	34031	0.035ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	28390	0.033ug/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)

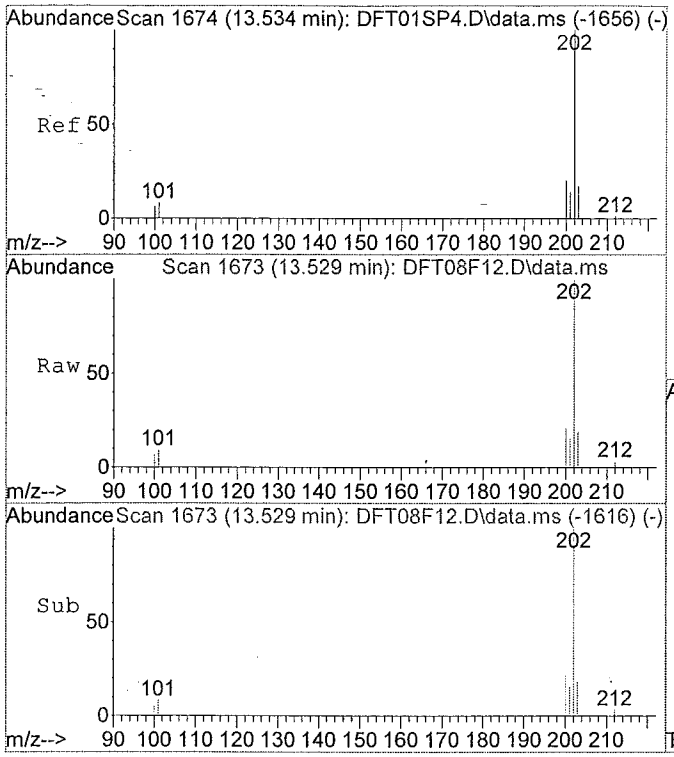
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

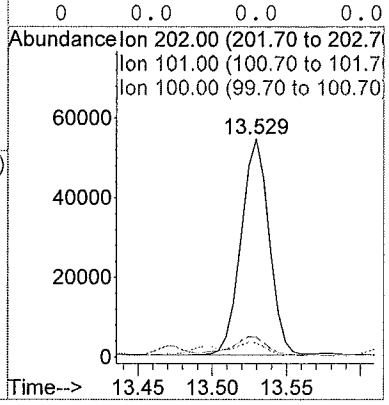
initials TN *date* 7.15.15

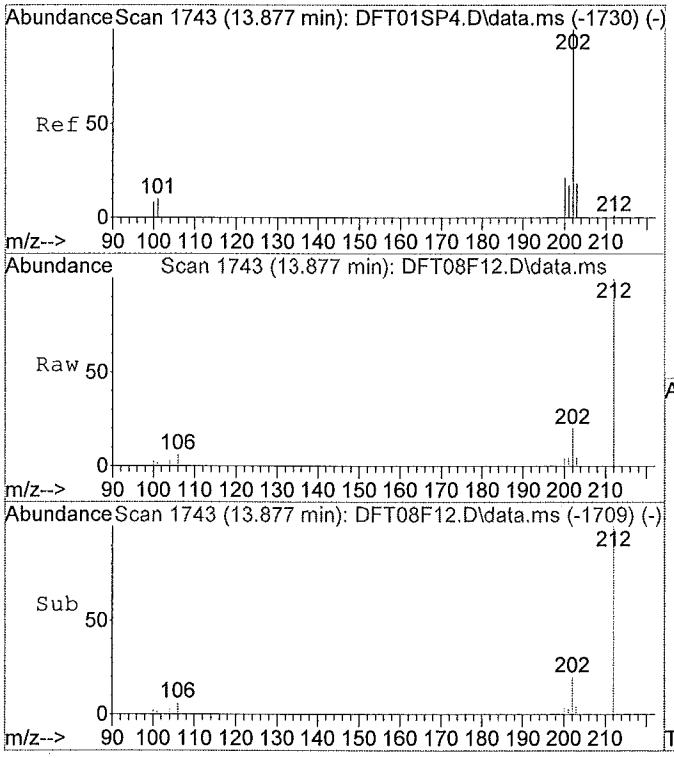


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:202 Resp: 70410

Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.4	17.6
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

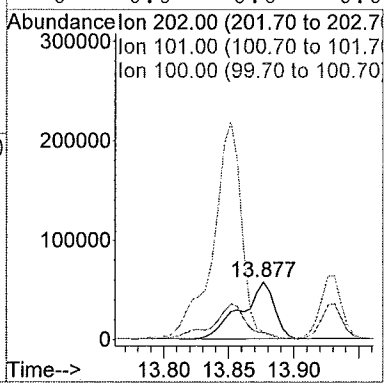


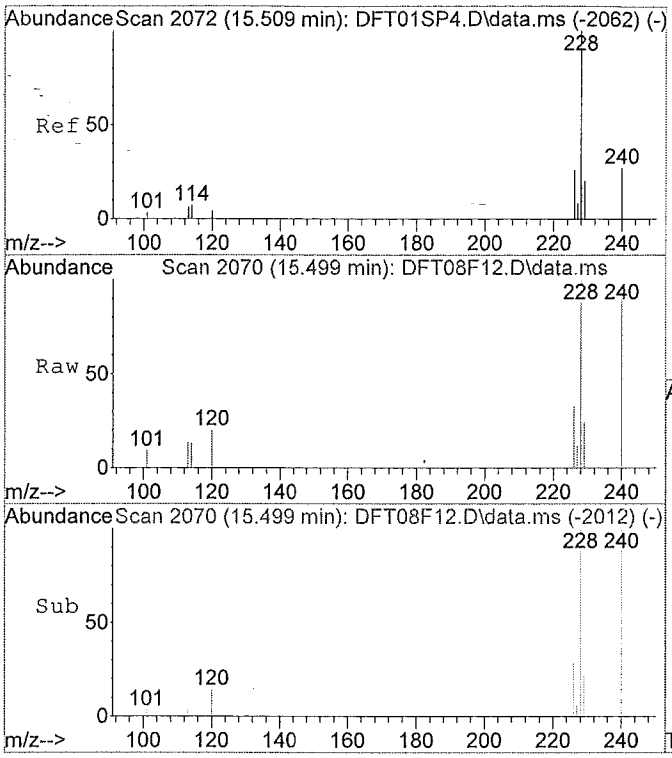


#16
Pyrene
Concen: 0.11 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:202 Resp: 102429

Ion	Ratio	Lower	Upper
202	100		
101	63.2	10.6	19.6#
100	329.5	9.4	17.4#
0	0.0	0.0	0.0

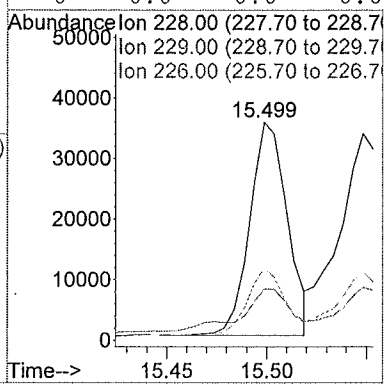


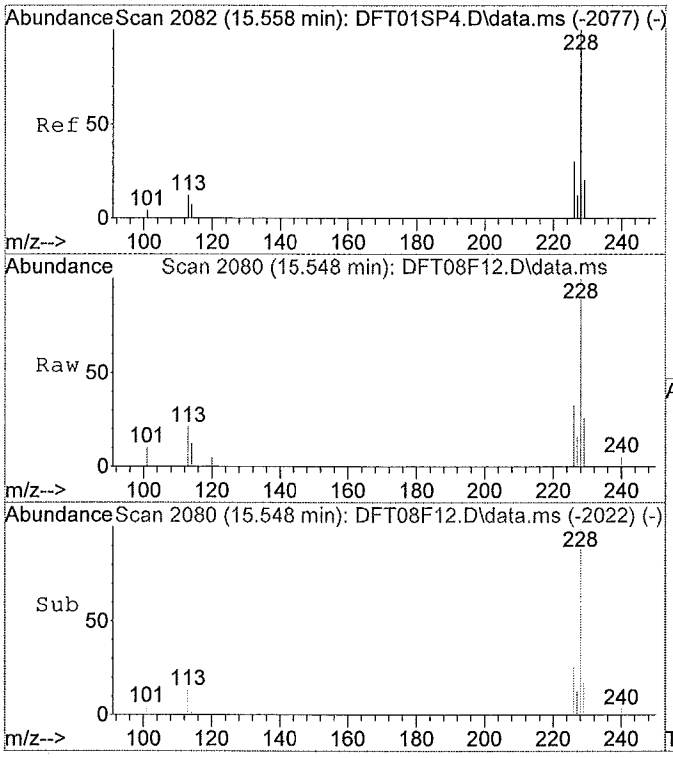


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:228 Resp: 46113

Ion	Ratio	Lower	Upper
228	100		
229	32.0	14.5	26.9#
226	30.8	18.5	34.3
0	0.0	0.0	0.0

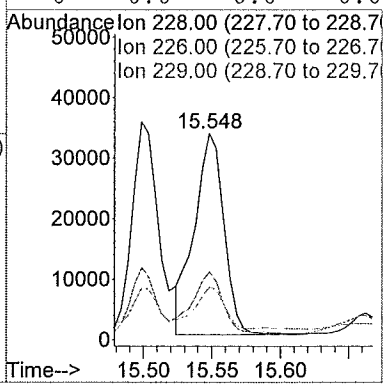


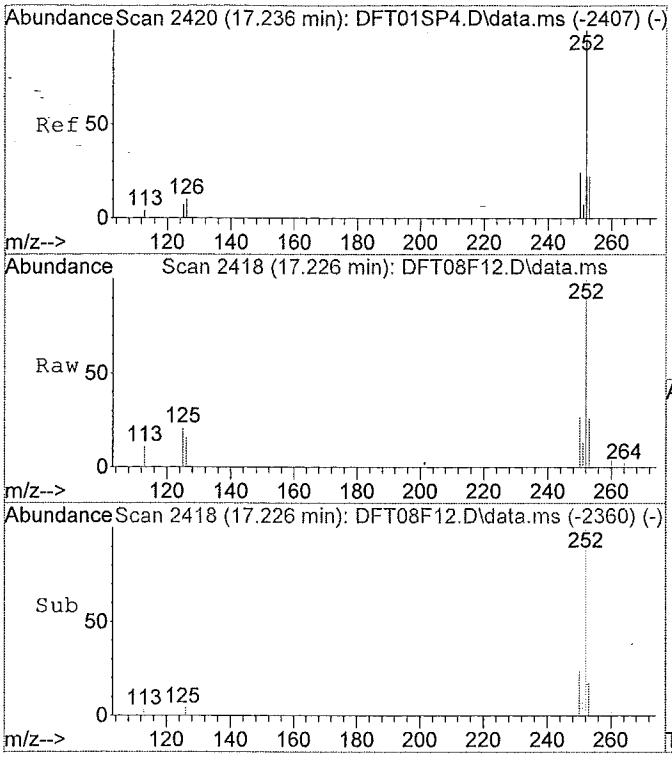


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:228 Resp: 50331

Ion	Ratio	Lower	Upper
228	100		
226	31.3	19.7	36.7
229	20.1	14.5	26.9
0	0.0	0.0	0.0

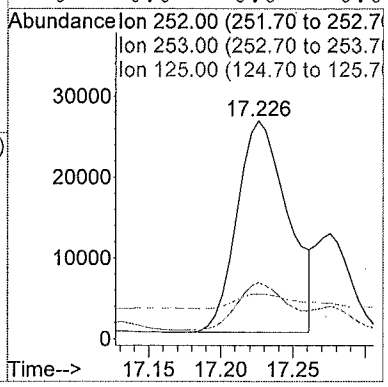


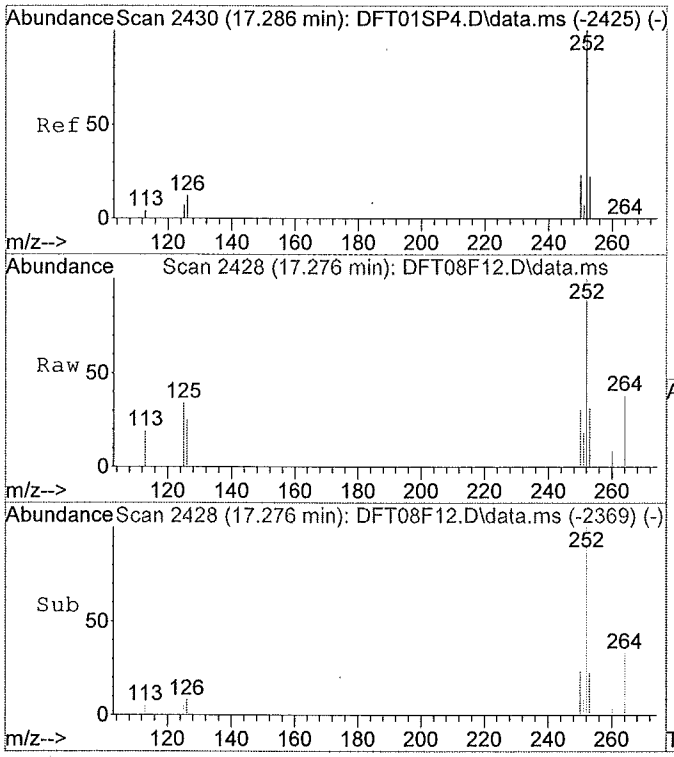


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:252 Resp: 64251

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	8.8	0.0	0.0#
0	0.0	0.0	0.0

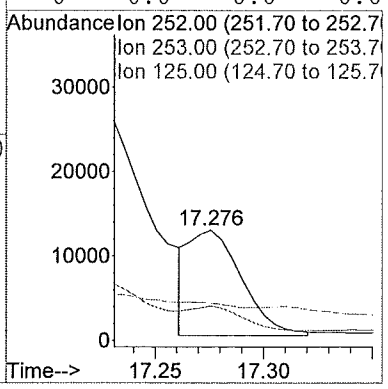


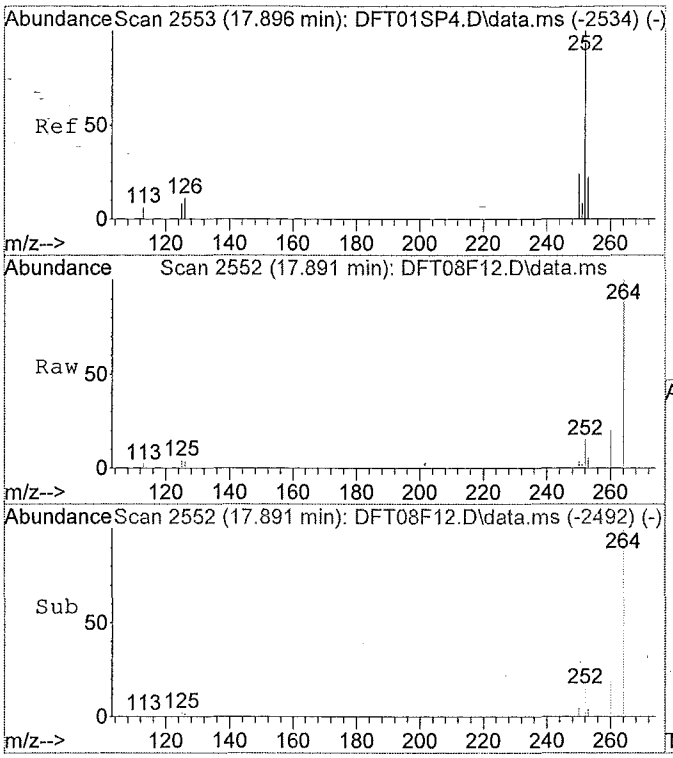


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:252 Resp: 21449

Ion	Ratio	Lower	Upper
252	100		
253	67.7	15.0	27.8#
125	26.3	0.0	0.0#
0	0.0	0.0	0.0

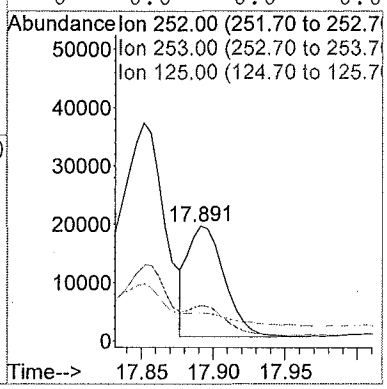


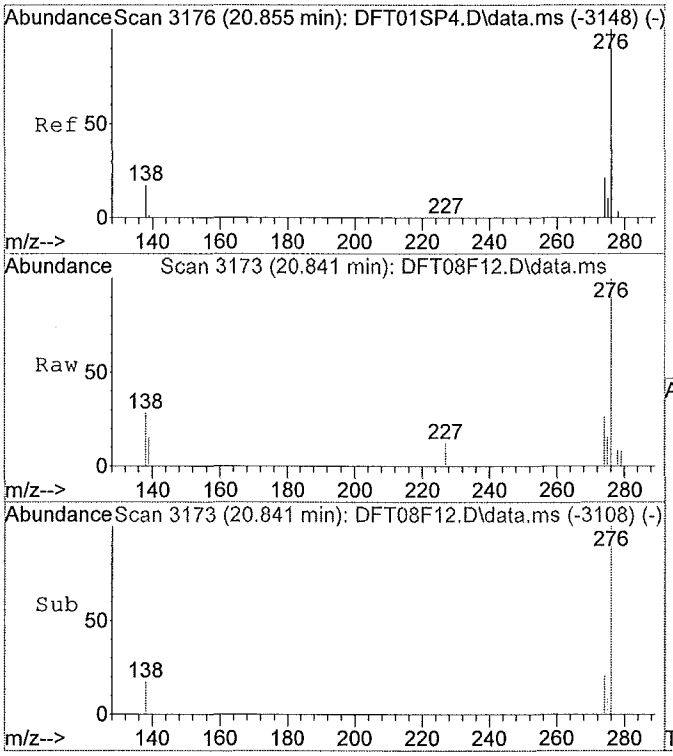


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:252 Resp: 34031

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

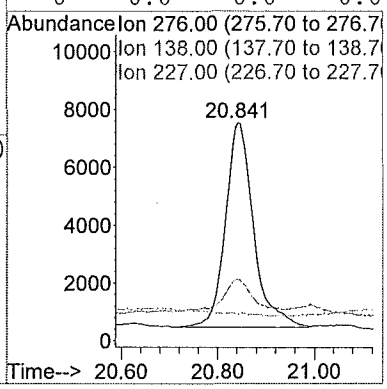




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.03 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFT08F12.D
Acq: 06/04/2015 16:33

Tgt Ion:276 Resp: 28390

Ion	Ratio	Lower	Upper
276	100		
138	12.9	0.0	0.0#
227	0.3	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.

F9L30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1513978013

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFF15F13

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 05/19/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/09/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	16.	U
91-57-6	2-Methylnaphthalene	16.	U
208-96-8	Acenaphthylene	18.	
83-32-9	Acenaphthene	16.	U
86-73-7	Fluorene	16.	U
87-86-5	Pentachlorophenol	32.	U
85-01-8	Phenanthrene	12.	J
120-12-7	Anthracene	20.	
206-44-0	Fluoranthene	64.	
129-00-0	Pyrene	63.	
56-55-3	Benzo(a)anthracene	51.	
218-01-9	Chrysene	84.	
205-99-2	Benzo(b)fluoranthene	80.	
207-08-9	Benzo(k)fluoranthene	24.	
50-32-8	Benzo(a)pyrene	43.	
193-39-5	Indeno(1,2,3-cd)pyrene	51.	
53-70-3	Dibenzo(a,h)anthracene	11.	J
191-24-2	Benzo(g,h,i)perylene	31.	

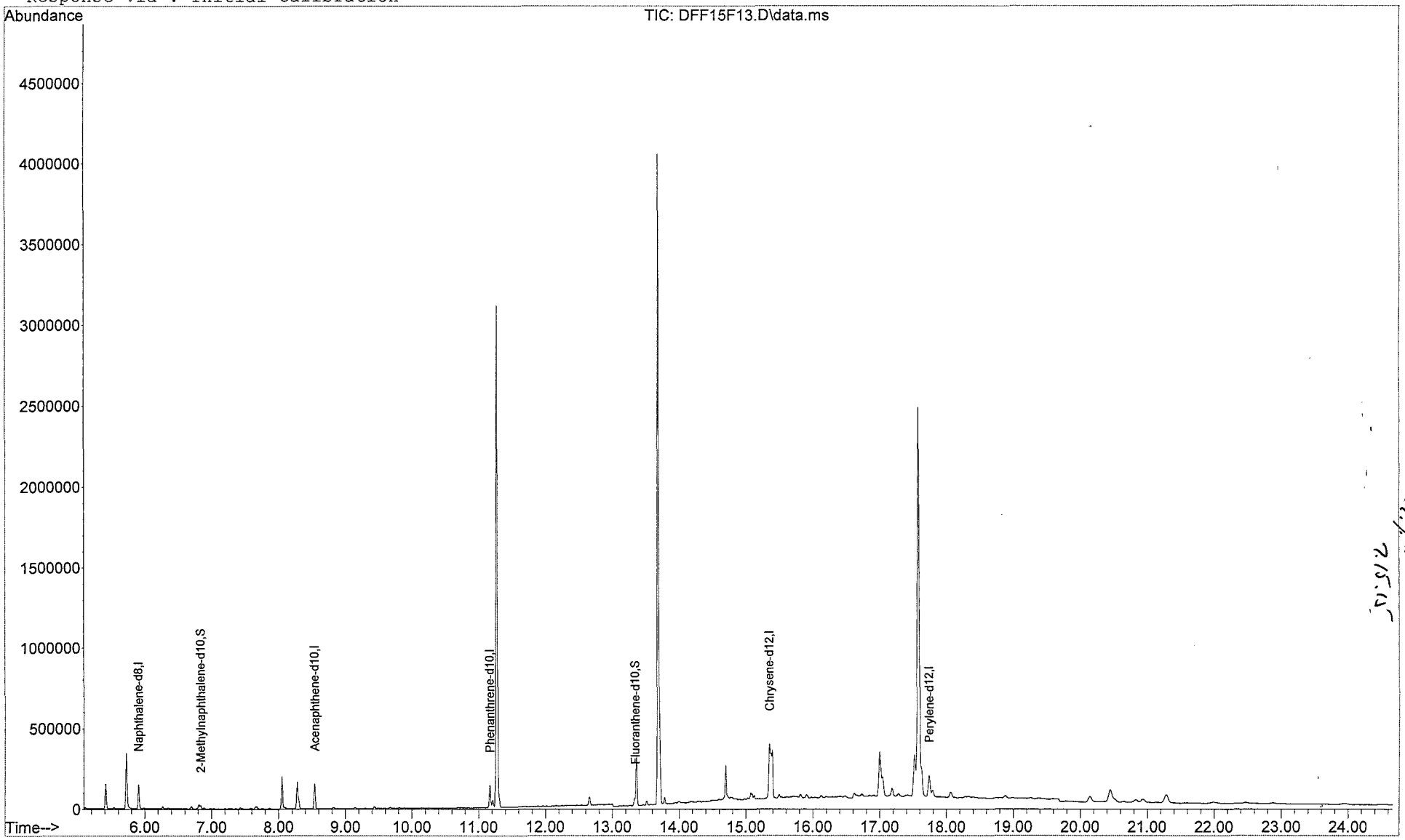
Quantitation Report

Data File : R:\D\2015\JUL15\09JUL15\DFF15F13.D
Acq On : 07/09/2015 19:17
Sample : 1513978013 F9L30 (4)
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 15
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:07:31 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 13:38:19 2015
Response via : Initial Calibration



Quantitation Report

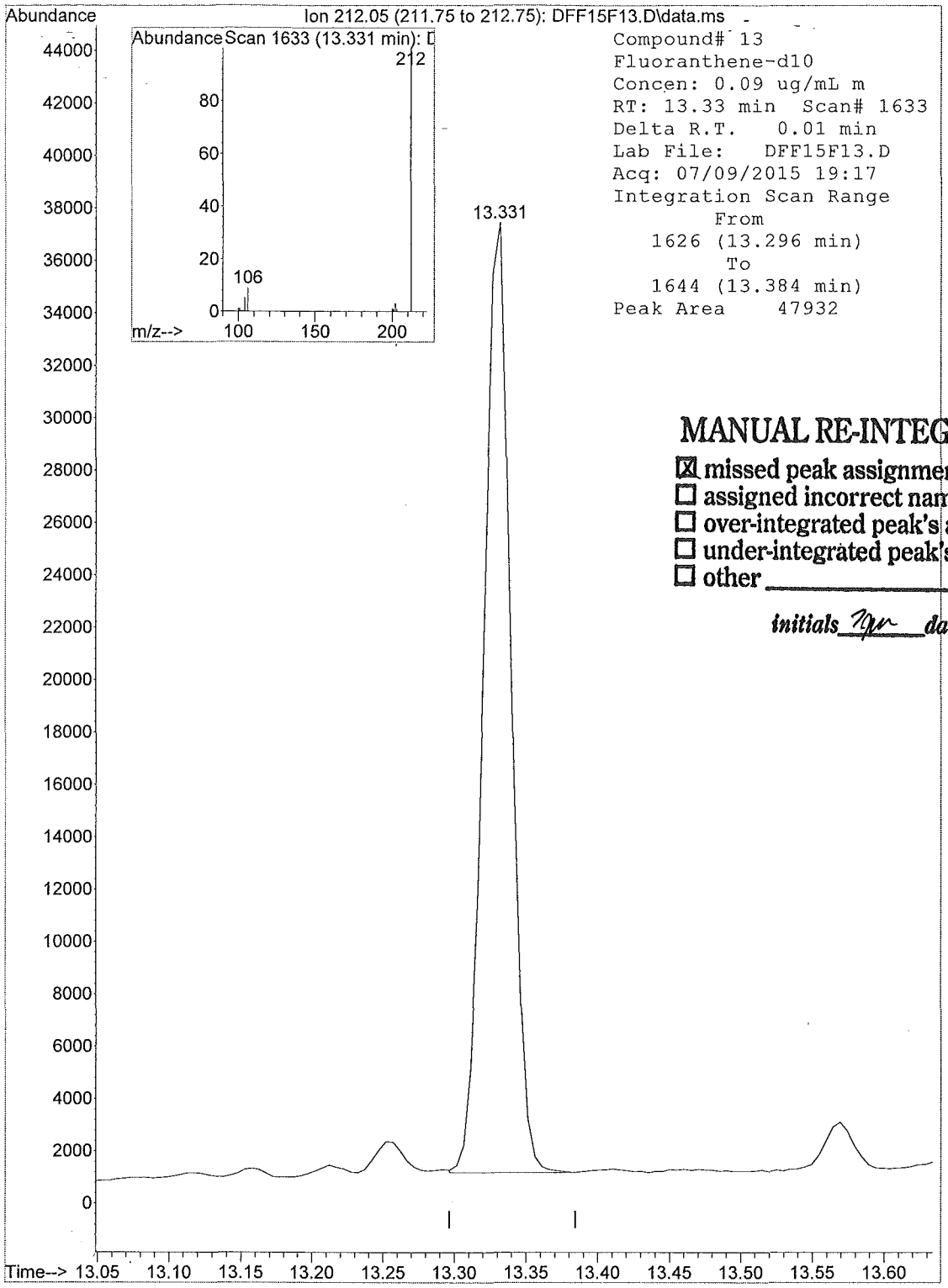
Data File : R:\D\2015\JUL15\09JUL15\DFF15F13.D Vial: 15
Acq On : 07/09/2015 19:17 Operator: DJC
Sample : 1513978013 F9L30 (4) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:07:31 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	162309	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	107893	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	188953	0.40 ug/ml	
15) Chrysene-d12	15.36	240	222030	0.40 ug/ml	
19) Perylene-d12	17.74	264	230339	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	22724	0.087ug/mL	
13) Fluoranthene-d10	13.33	212	47932	0.093ug/mL m 7.15.15	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.30	152	51750	0.110ug/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	11.21	178	41575	0.076ug/ml	97
12) Anthracene	11.30	178	65423	0.124ug/ml	98
14) Fluoranthene	13.36	202	245664	0.397ug/ml	89
16) Pyrene	13.71	202	273344	0.392ug/ml	90
17) Benzo(a)anthracene	15.35	228	186289	0.315ug/ml	86
18) Chrysene	15.39	228	324874	0.519ug/ml	97
20) Benzo(b)fluoranthene	17.00	252	354707	0.494ug/ml	97
21) Benzo(k)fluoranthene	17.04	252	110022	0.148ug/ml m 7.15.15	96
22) Benzo(a)pyrene	17.62	252	184130	0.268ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.45	276	188561	0.314ug/ml	100
24) Dibenzo(a,h)anthracene	20.51	278	47073	0.071ug/ml	92
25) Benzo(g,h,i)perylene	21.28	276	130707	0.194ug/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 Fluoranthene-d10

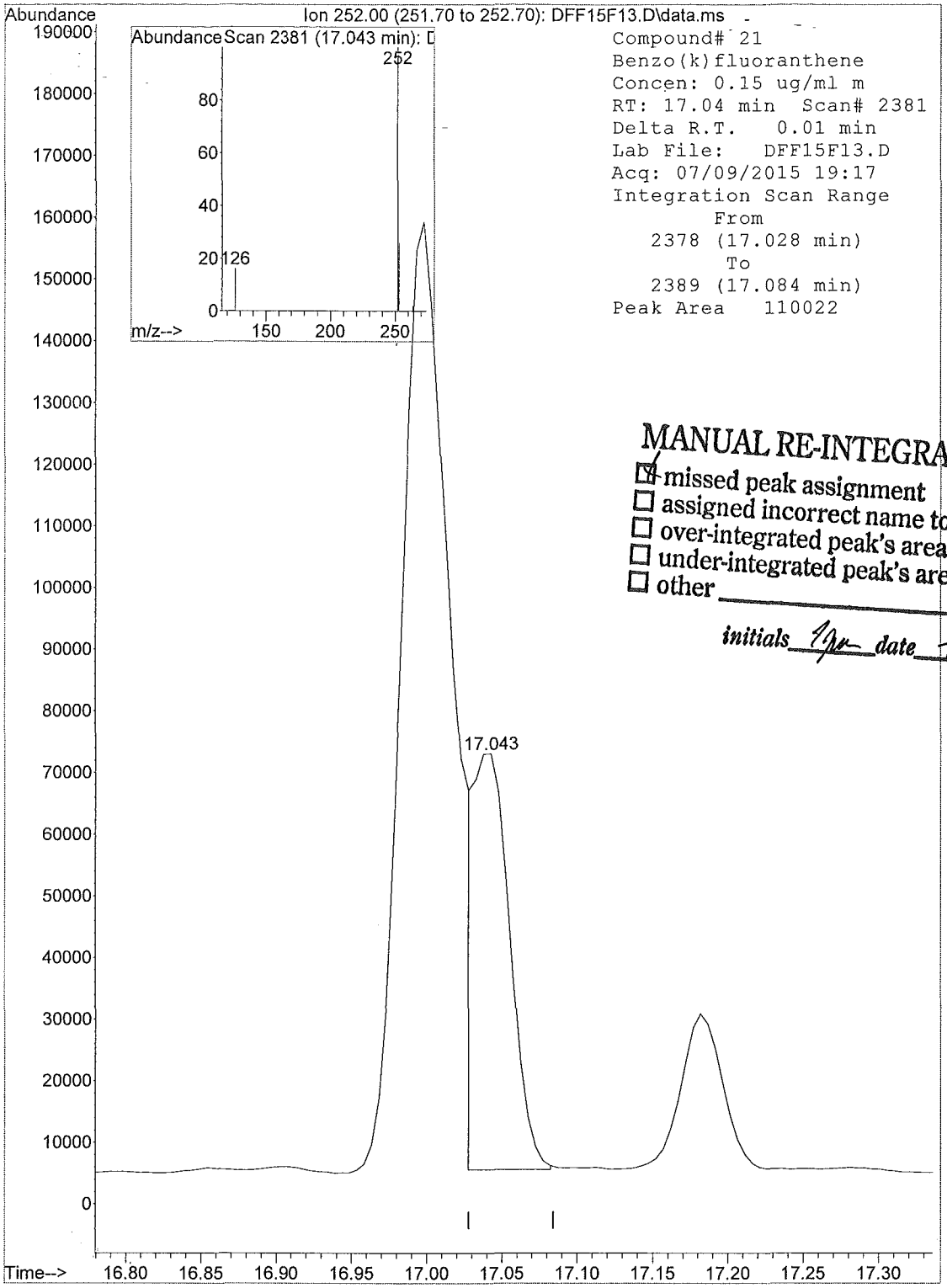


MANUAL RE-INTEGRATION

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

initials TJM *date* 7.15.15

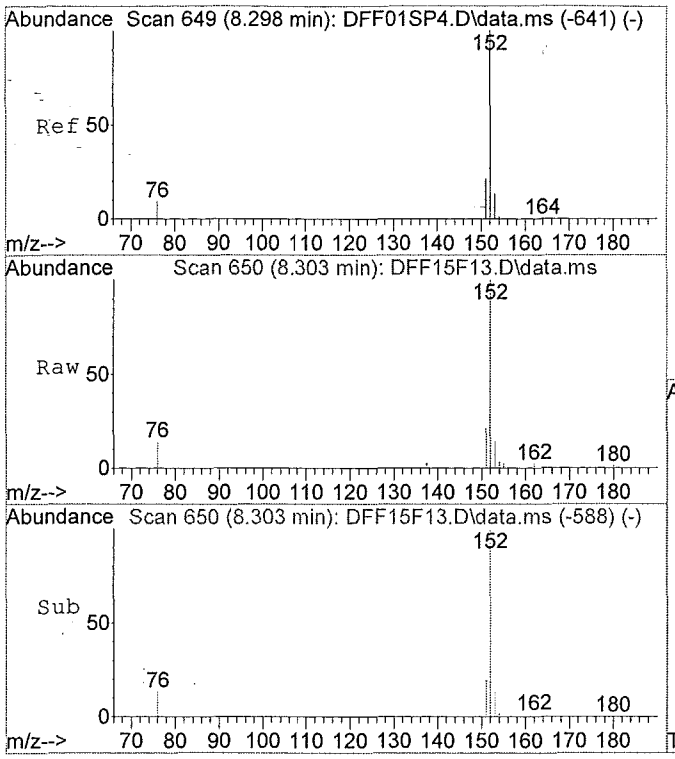
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

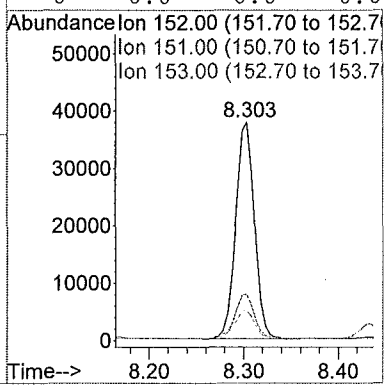
initials [illegible] *date* 7.15.15

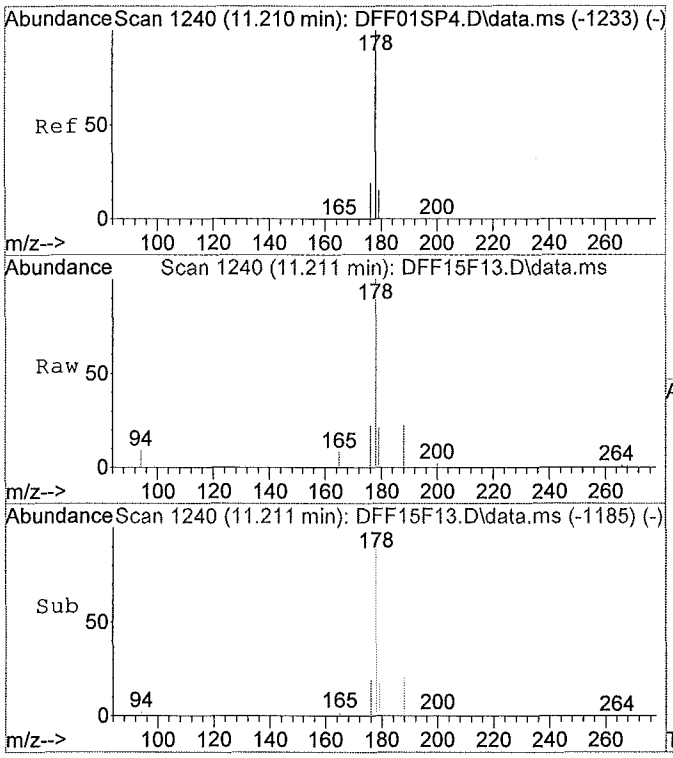


#6
Acenaphthylene
Concen: 0.11 ug/ml
RT: 8.30 min Scan# 650
Delta R.T. 0.01 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:152 Resp: 51750

Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.5	28.7
153	14.9	8.8	16.4
0	0.0	0.0	0.0

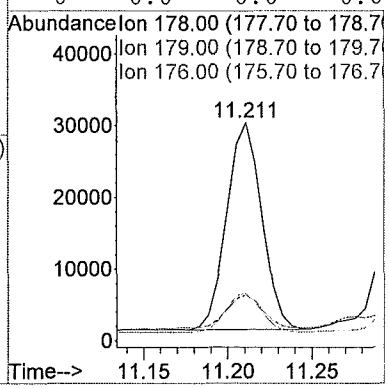


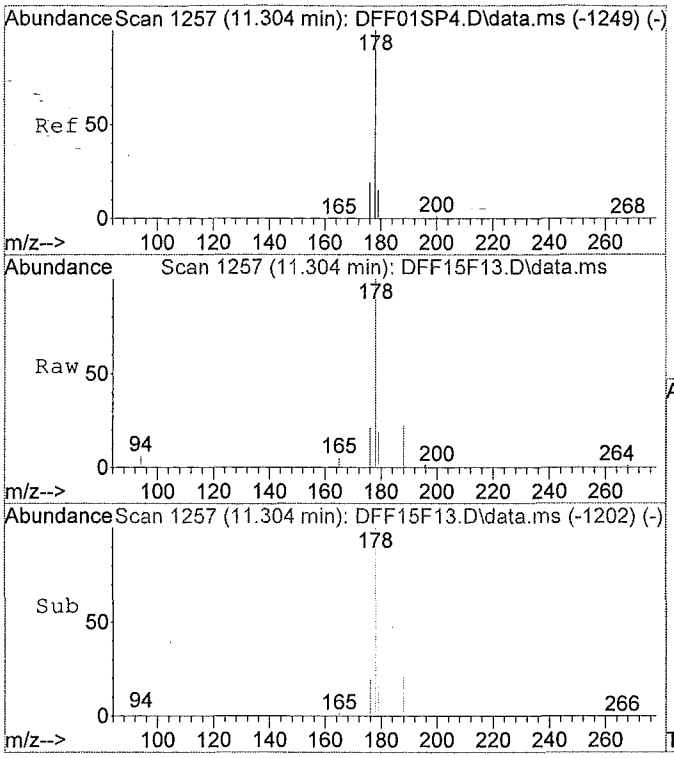


#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.21 min Scan# 1240
Delta R.T. 0.00 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:178 Resp: 41575

Ion	Ratio	Lower	Upper
178	100		
179	18.1	11.1	20.5
176	19.5	14.1	26.1
0	0.0	0.0	0.0

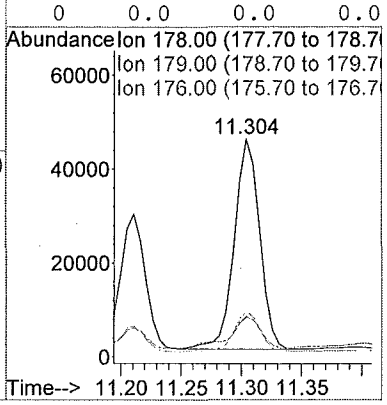


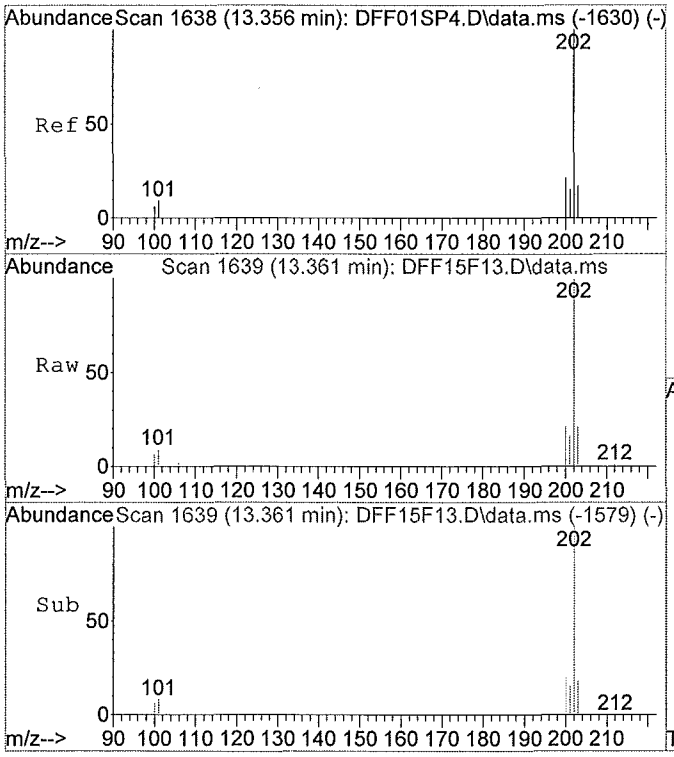


#12
Anthracene
Concen: 0.12 ug/ml
RT: 11.30 min Scan# 1257
Delta R.T. 0.00 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:178 Resp: 65423

Ion	Ratio	Lower	Upper
178	100		
179	18.1	11.6	21.6
176	19.4	13.9	25.7
0	0.0	0.0	0.0

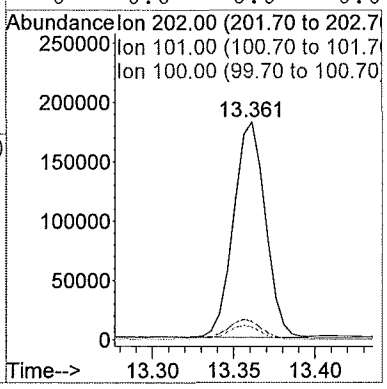


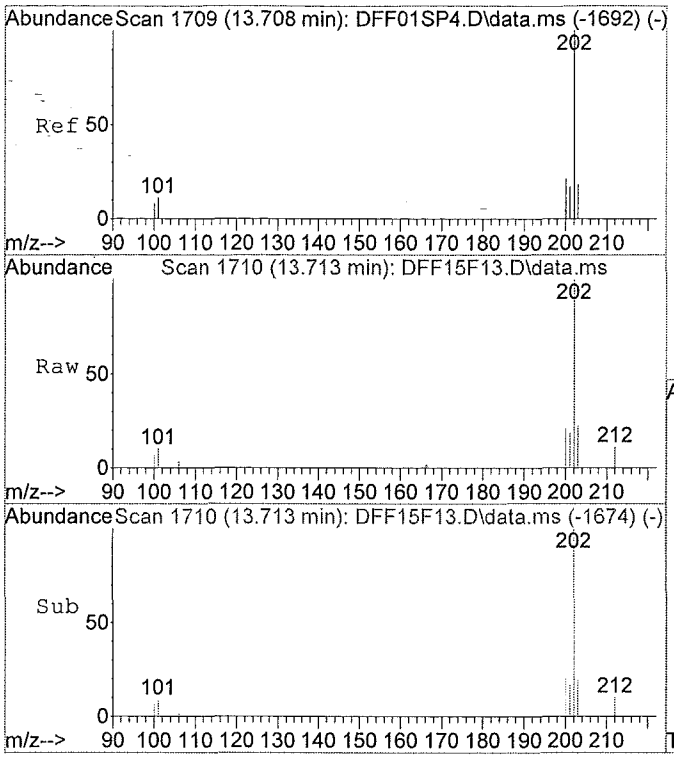


#14
Fluoranthene
Concen: 0.40 ug/ml
RT: 13.36 min Scan# 1639
Delta R.T. 0.01 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:202 Resp: 245664

Ion	Ratio	Lower	Upper
202	100		
101	9.0	9.4	17.6#
100	6.7	0.0	0.0#
0	0.0	0.0	0.0

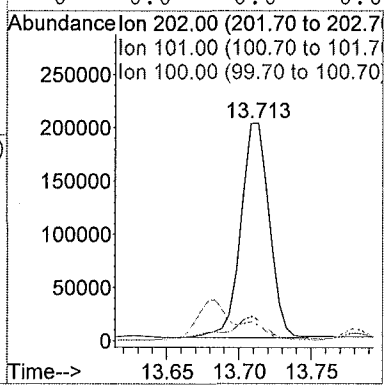


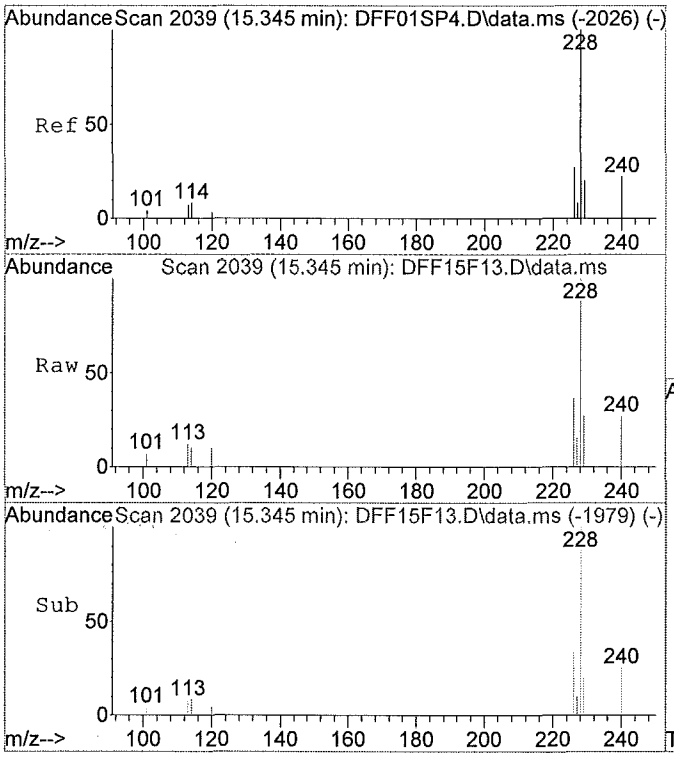


#16
Pyrene
Concen: 0.39 ug/ml
RT: 13.71 min Scan# 1710
Delta R.T. 0.01 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:202 Resp: 273344

Ion	Ratio	Lower	Upper
202	100		
101	13.9	10.6	19.6
100	20.8	9.4	17.4#
0	0.0	0.0	0.0

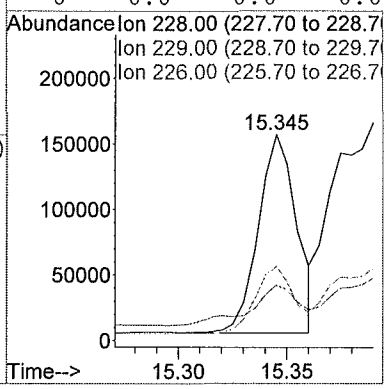


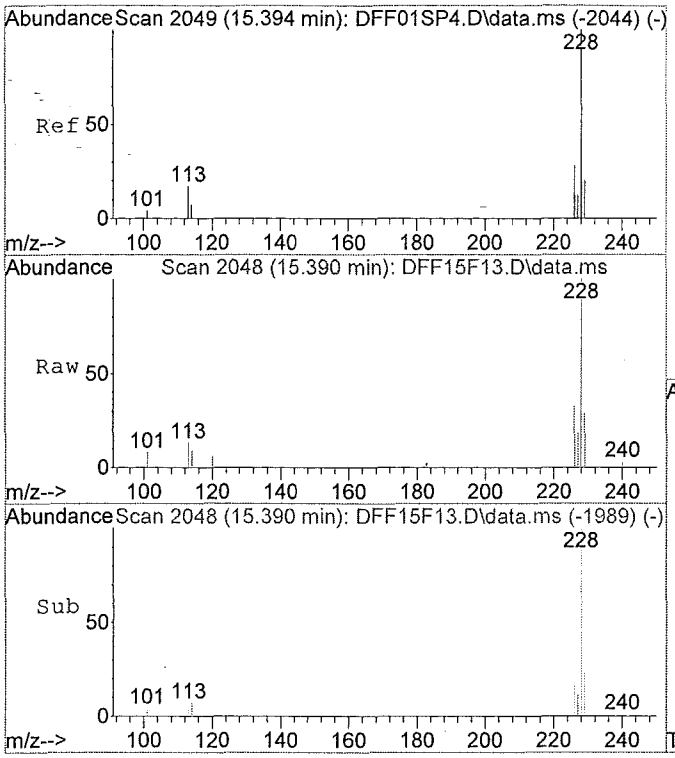


#17
Benzo(a)anthracene
Concen: 0.31 ug/ml
RT: 15.35 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:228 Resp: 186289

Ion	Ratio	Lower	Upper
228	100		
229	24.9	14.5	26.9
226	35.2	18.5	34.3#
0	0.0	0.0	0.0

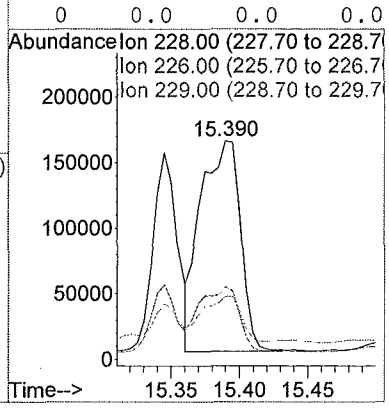


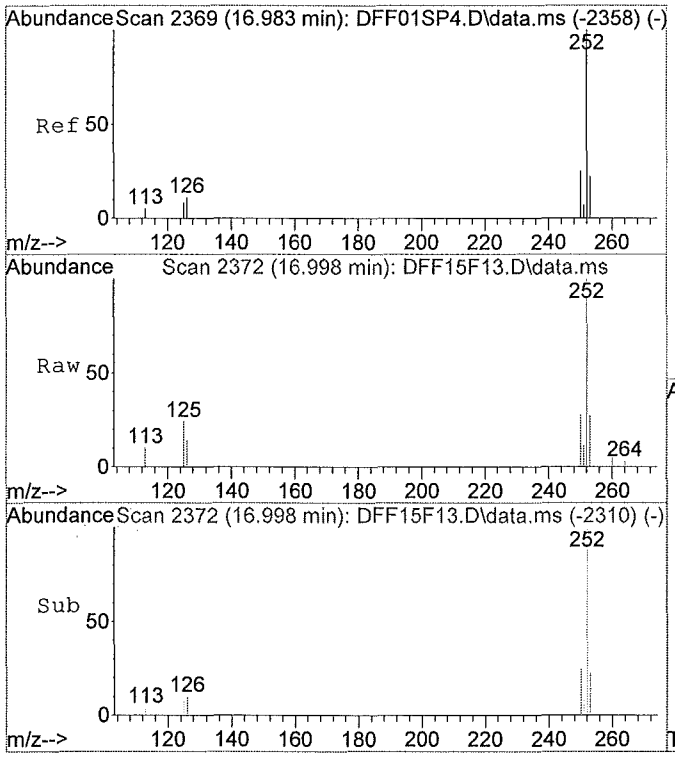


#18
Chrysene
Concen: 0.52 ug/ml
RT: 15.39 min Scan# 2048
Delta R.T. -0.00 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:228 Resp: 324874

Ion	Ratio	Lower	Upper
228	100		
226	30.6	19.7	36.7
229	20.3	14.5	26.9
0	0.0	0.0	0.0

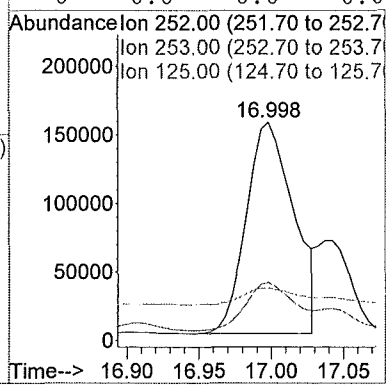


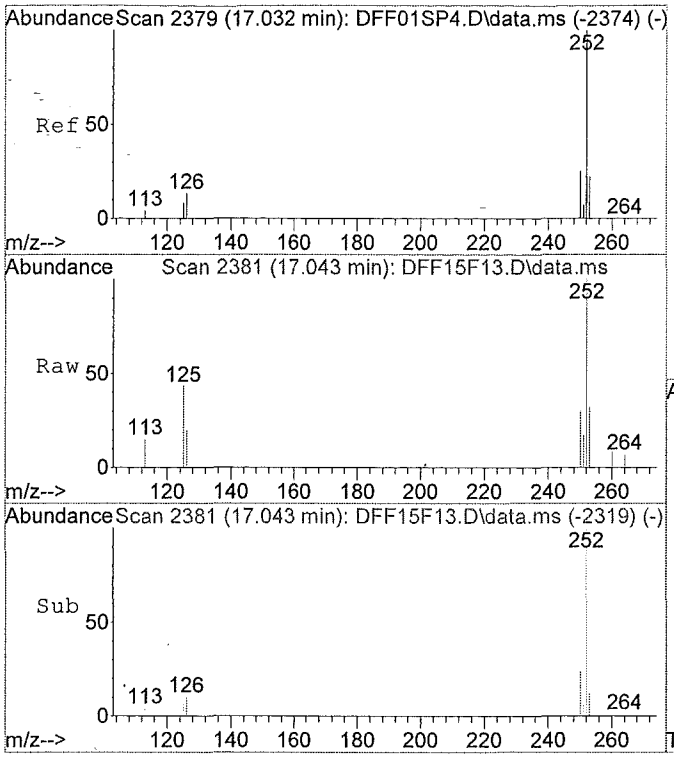


#20
Benzo(b)fluoranthene
Concen: 0.49 ug/ml
RT: 17.00 min Scan# 2372
Delta R.T. 0.02 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:252 Resp: 354707

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.3	28.3
125	13.3	0.0	0.0#
0	0.0	0.0	0.0

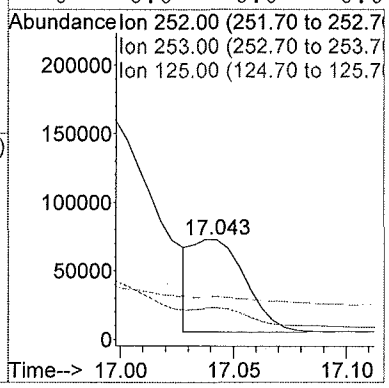


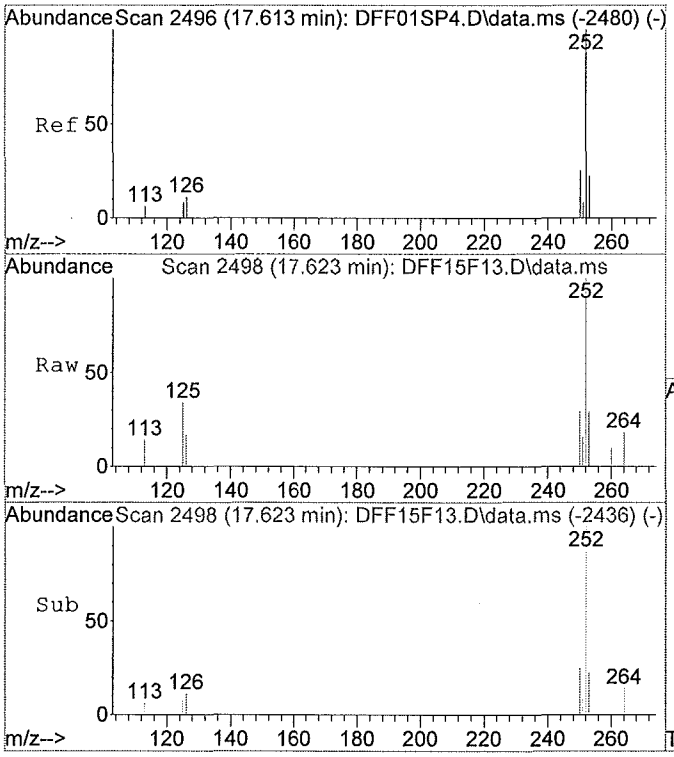


#21
Benzo(k)fluoranthene
Concen: 0.15 ug/ml m
RT: 17.04 min Scan# 2381
Delta R.T. 0.01 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:252 Resp: 110022

Ion	Ratio	Lower	Upper
252	100		
253	74.5	15.0	27.8#
125	42.7	0.0	0.0#
0	0.0	0.0	0.0

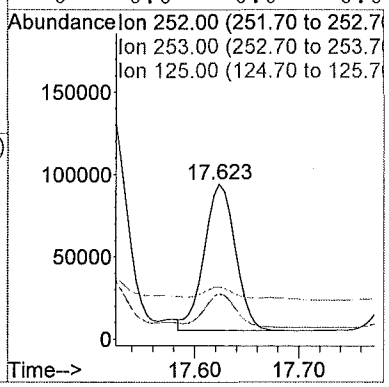


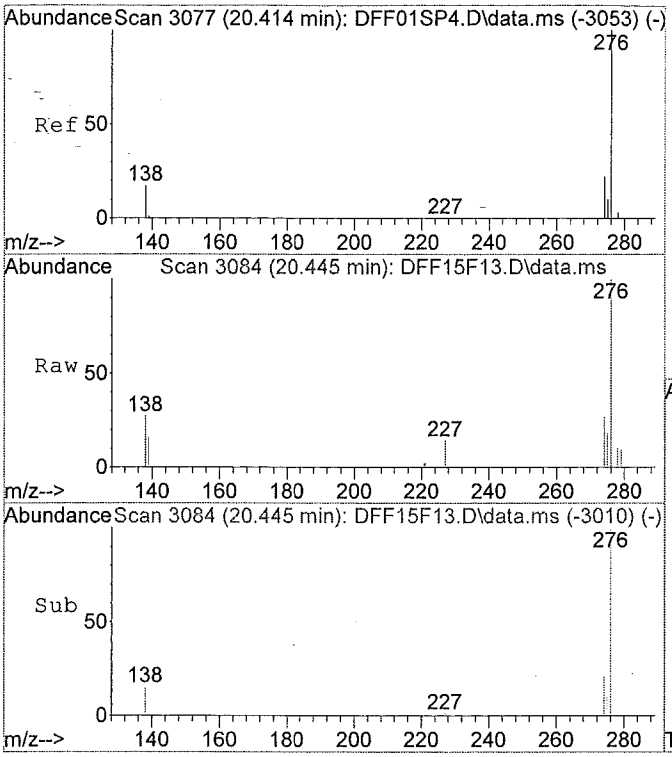


#22
Benzo(a)pyrene
Concen: 0.27 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:252 Resp: 184130

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.0	27.8
125	6.7	0.0	0.0#
0	0.0	0.0	0.0

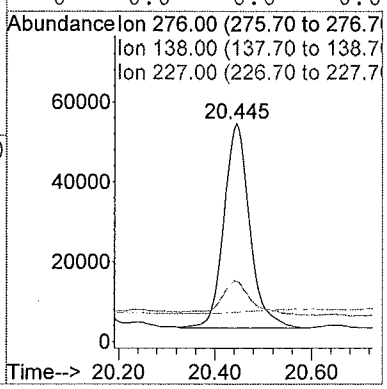


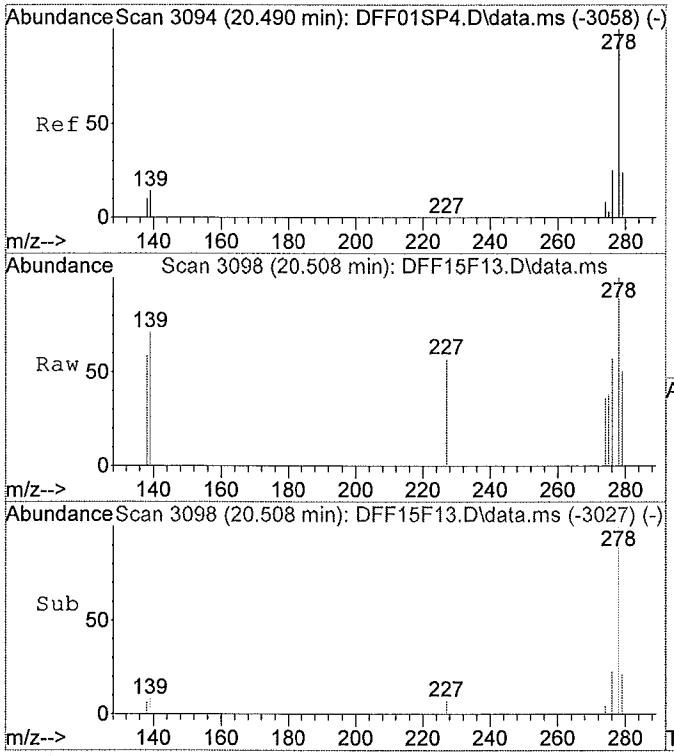


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.31 ug/ml
RT: 20.45 min Scan# 3084
Delta R.T. 0.03 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:276 Resp: 188561

Ion	Ratio	Lower	Upper
276	100		
138	19.3	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

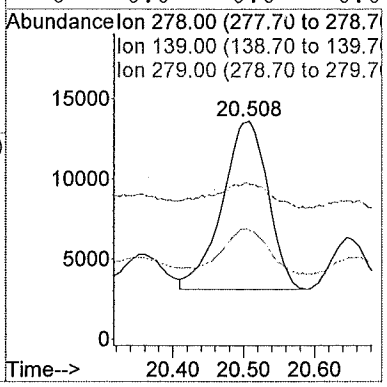


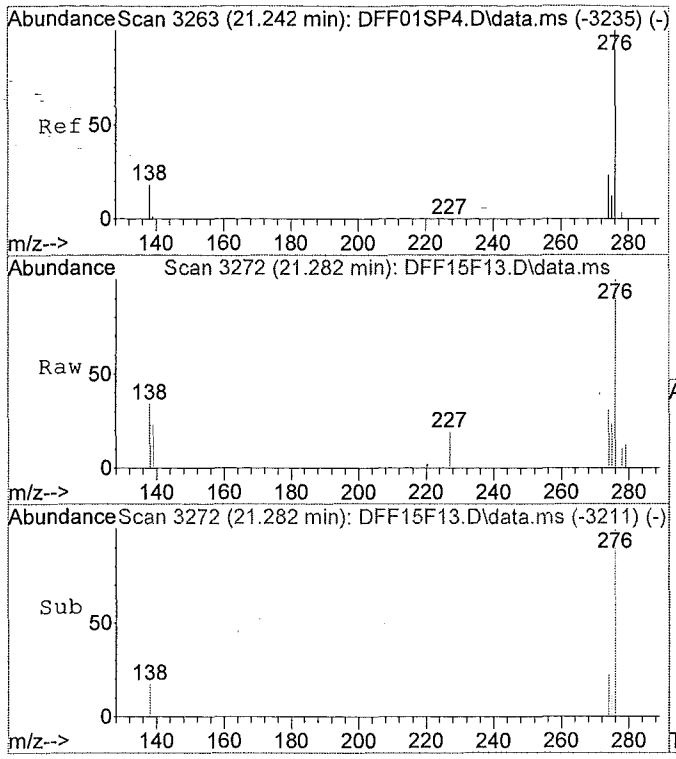


#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.51 min Scan# 3098
Delta R.T. 0.02 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:278 Resp: 47073

Ion	Ratio	Lower	Upper
278	100		
139	17.1	0.0	0.0#
279	26.6	15.8	29.3
0	0.0	0.0	0.0

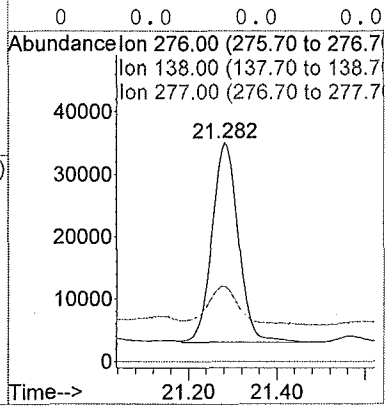




#25
Benzo(g,h,i)perylene
Concen: 0.19 ug/ml
RT: 21.28 min Scan# 3272
Delta R.T. 0.04 min
Lab File: DFF15F13.D
Acq: 07/09/2015 19:17

Tgt Ion:276 Resp: 130707

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



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.: F9KW7

Instrument ID: 5975-D Calibration Date(s): 03/25/2015 03/25/2015

Calibration Time(s): 09:26 11:25

LAB FILE ID: RRF 0.1 = DDG01SP1 RRF 0.2 = DDG02SP2
RRF 0.4 = DDG03SP4 RRF 0.8 = DDG04SP8 RRF 1.0 = DDG05S01

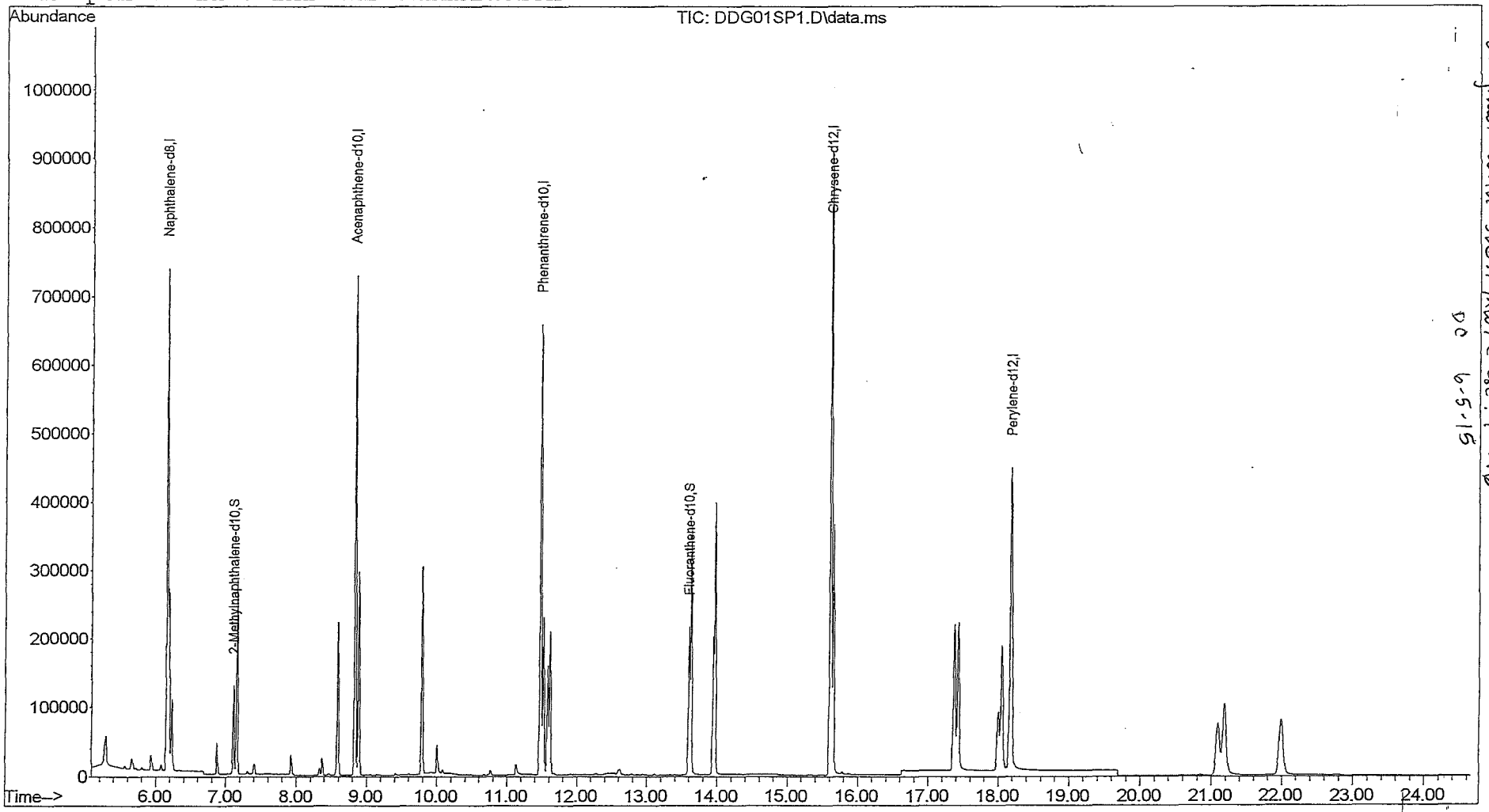
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	1.294	1.298	1.276	1.346	1.299	2.1
Pentachlorophenol		0.056	0.056	0.061	0.068	0.060	9.2
Phenanthrene	1.131	1.155	1.151	1.137	1.185	1.152	1.8
Anthracene	1.055	1.099	1.118	1.135	1.193	1.120	4.5
Fluoranthene	1.292	1.281	1.291	1.320	1.370	1.311	2.8
Pyrene	1.283	1.240	1.247	1.229	1.277	1.255	1.9
Benzo(a)anthracene	1.071	1.062	1.060	1.047	1.093	1.067	1.6
Chrysene	1.126	1.135	1.131	1.101	1.143	1.127	1.4
Benzo(b)fluoranthene	1.217	1.236	1.239	1.236	1.306	1.247	2.8
Benzo(k)fluoranthene	1.226	1.279	1.305	1.295	1.353	1.292	3.6
Benzo(a)pyrene	1.103	1.165	1.201	1.211	1.276	1.191	5.3
Indeno(1,2,3-cd)pyrene	0.970	1.023	1.043	1.058	1.119	1.043	5.2
Dibenzo(a,h)anthracene	1.077	1.103	1.168	1.179	1.241	1.153	5.6
Benzo(g,h,i)perylene	1.118	1.158	1.177	1.174	1.236	1.172	3.6
Fluoranthene-d10	1.098	1.079	1.076	1.082	1.134	1.094	2.2
2-Methylnaphthalene-d10	0.656	0.654	0.647	0.624	0.646	0.645	1.9

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Original with SDG: F9KW7 Case: 45316
DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	826415	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	500325	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	876849	0.40 ug/ml	
15) Chrysene-d12	15.61	240	937520	0.40 ug/ml	
19) Perylene-d12	18.17	264	804866	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	135515	0.100ug/mL	
13) Fluoranthene-d10	13.60	212	240674	0.100ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	221005	0.100ug/ml	93
4) 2-Methylnaphthalene	7.16	142	140108	0.100ug/ml	97
6) Acenaphthylene	8.59	152	214086	0.100ug/ml	96
7) Acenaphthene	8.89	153	140194	0.100ug/ml	98
8) Fluorene	9.79	166	160159	0.100ug/ml	100
10) Pentachlorophenol	0.00	266		No Calib #	
11) Phenanthrene	11.52	178	247892	0.100ug/ml	98
12) Anthracene	11.61	178	231218	0.100ug/ml	96
14) Fluoranthene	13.63	202	283310	0.100ug/ml	91
16) Pyrene	13.97	202	300663	0.100ug/ml	92
17) Benzo(a)anthracene	15.60	228	251019	0.100ug/ml	99
18) Chrysene	15.65	228	263840	0.100ug/ml	98
20) Benzo(b)fluoranthene	17.37	252	244834	0.100ug/ml	100
21) Benzo(k)fluoranthene	17.42	252	246626	0.100ug/ml	99
22) Benzo(a)pyrene	18.05	252	221886	0.100ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	195170	0.100ug/ml	100
24) Dibenzo(a,h)anthracene	21.19	278	216701	0.100ug/ml	99
25) Benzo(g,h,i)perylene	21.99	276	224998	0.100ug/ml	72

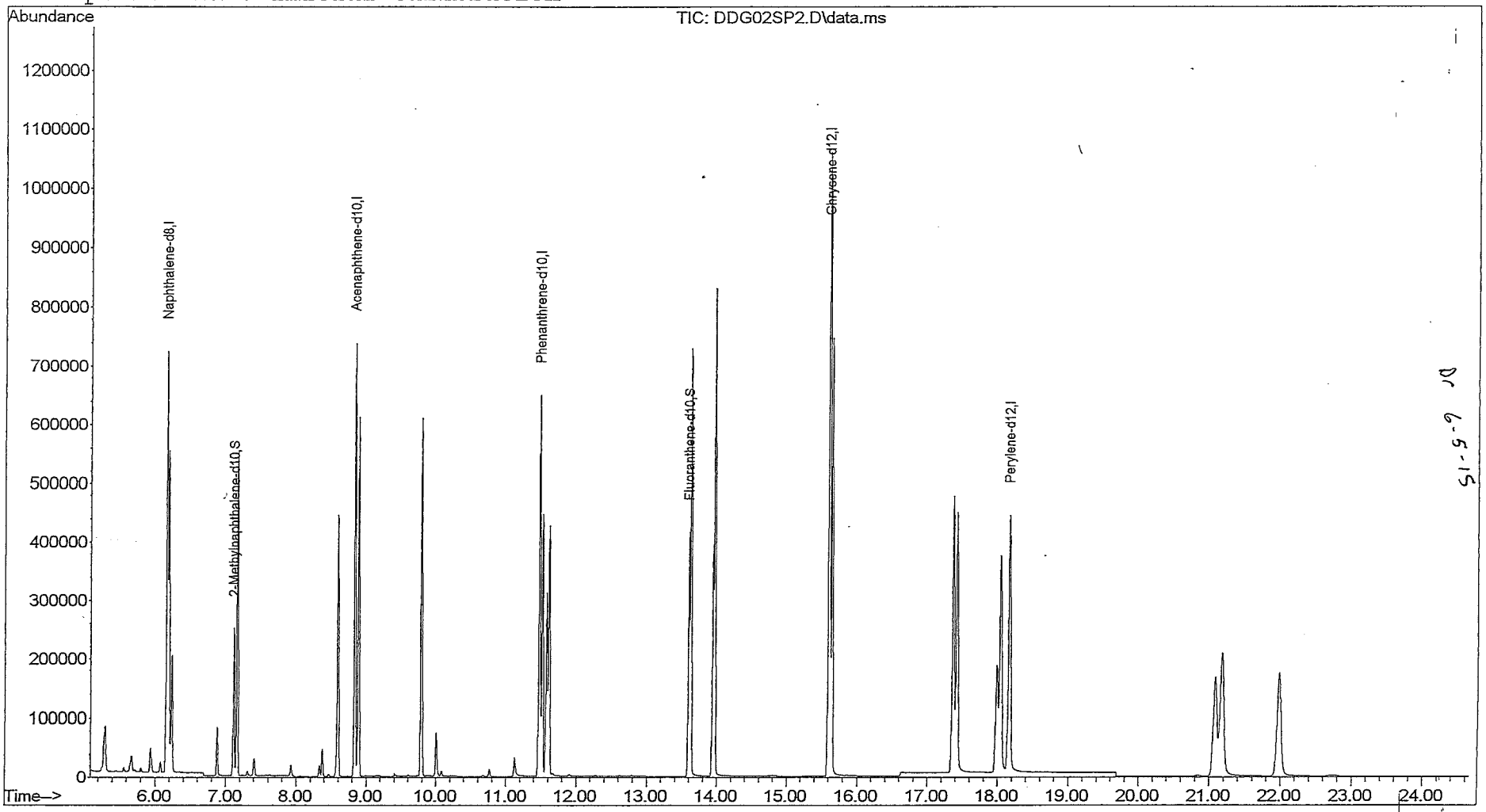
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-5-15 JD

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

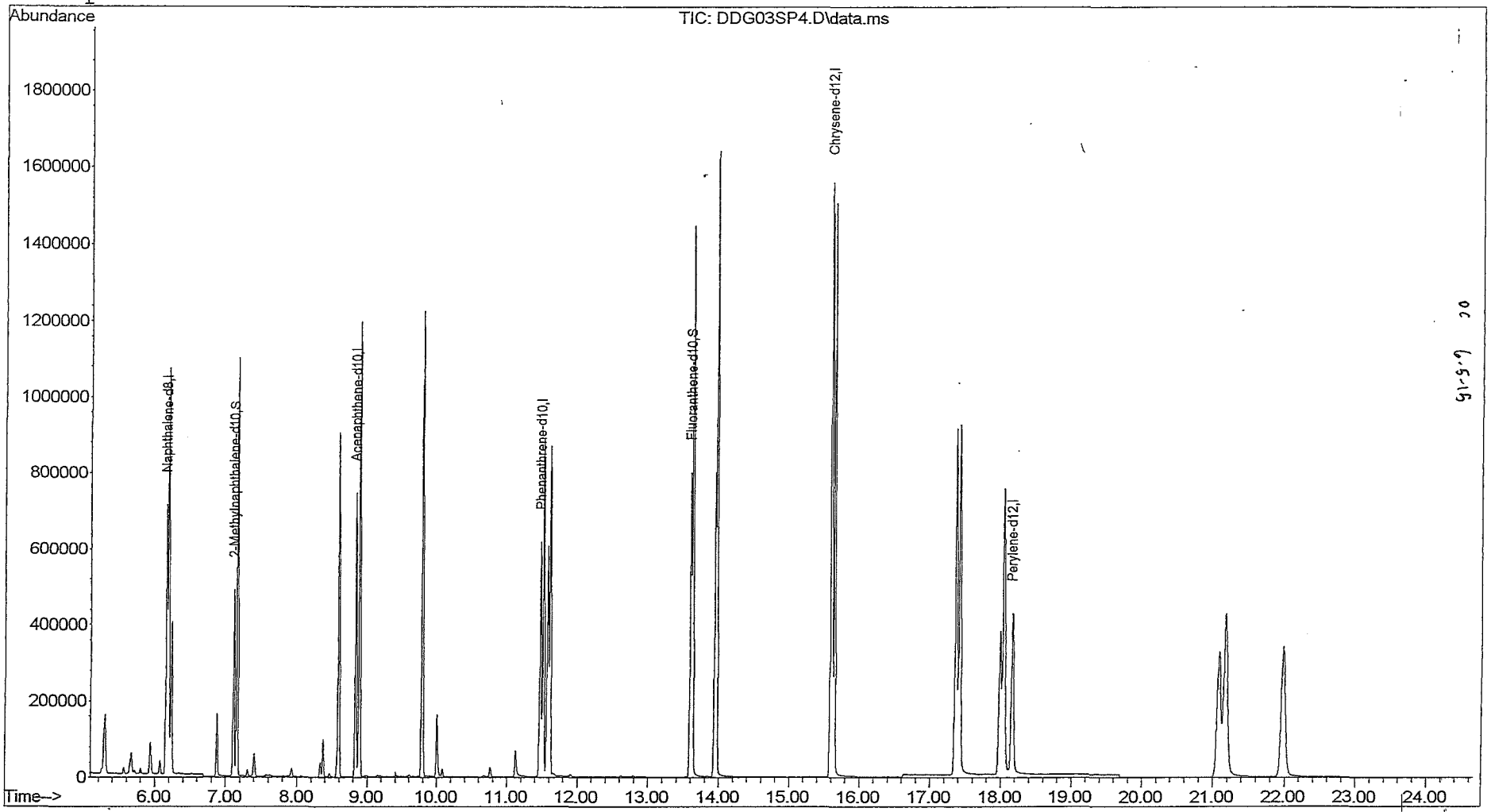
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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

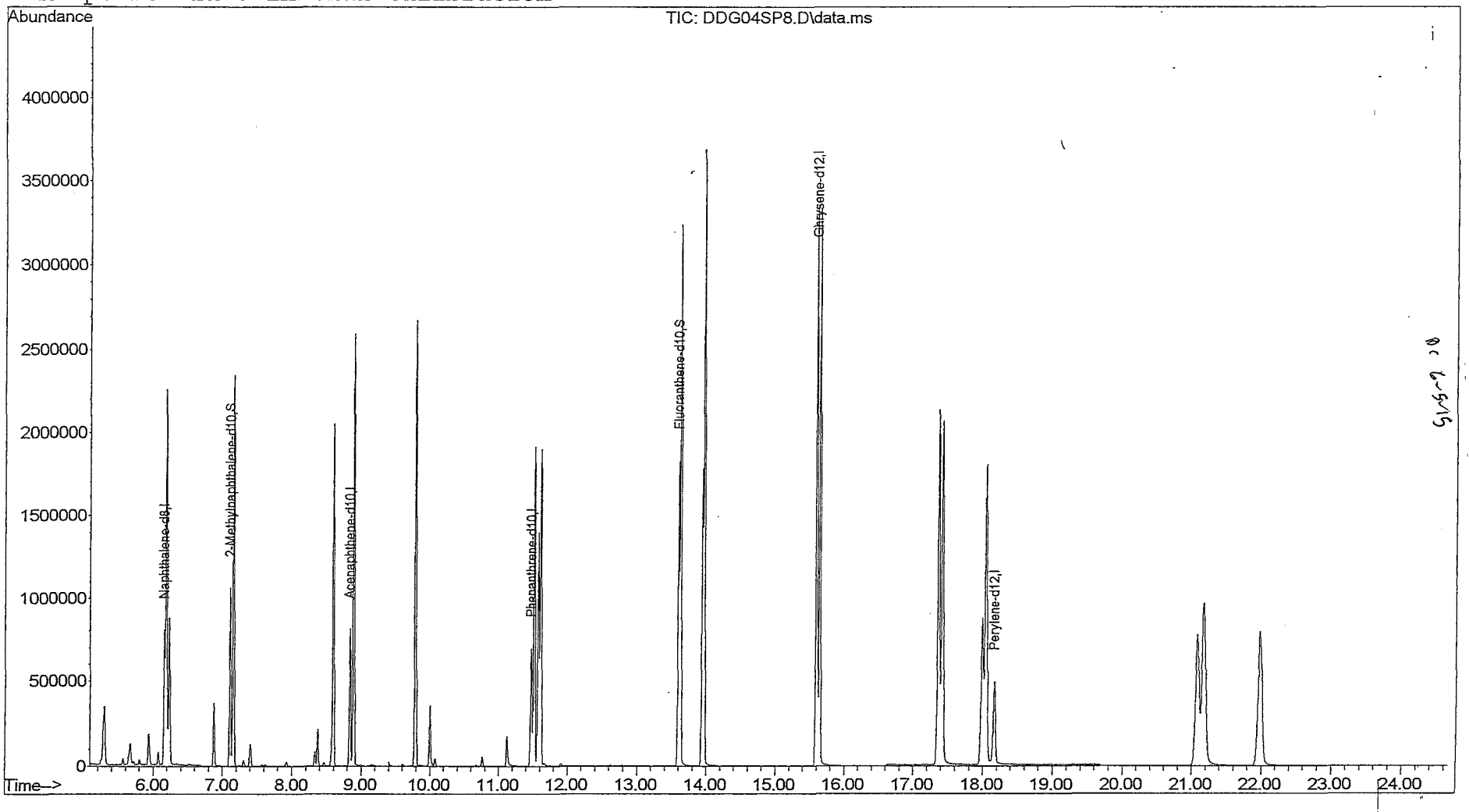
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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

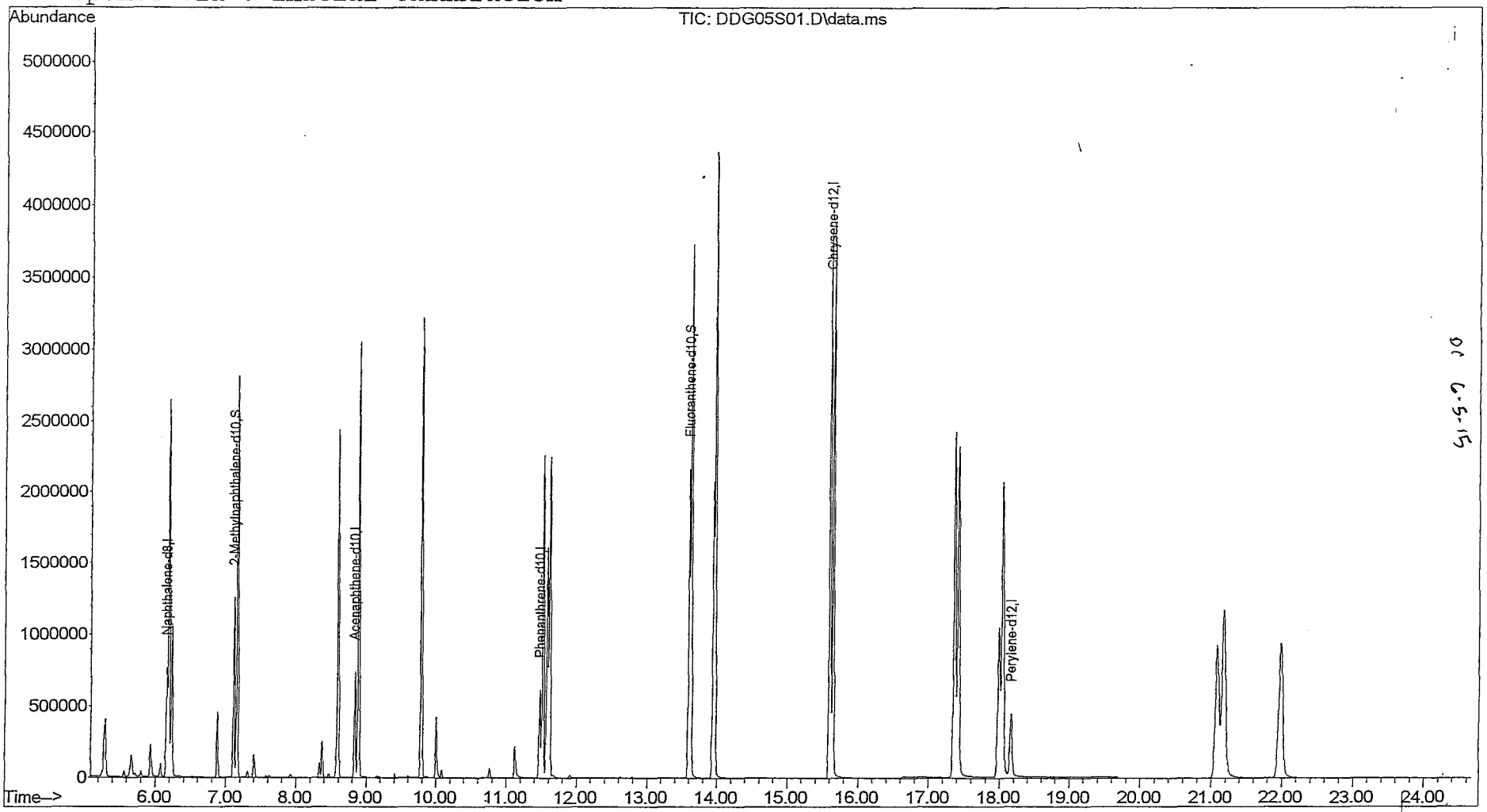
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-5-15

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.: F9KW7

Instrument ID: 5975-D Calibration Date: 06/04/2015 Time: 13:01

Lab File ID: DFT01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DT Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

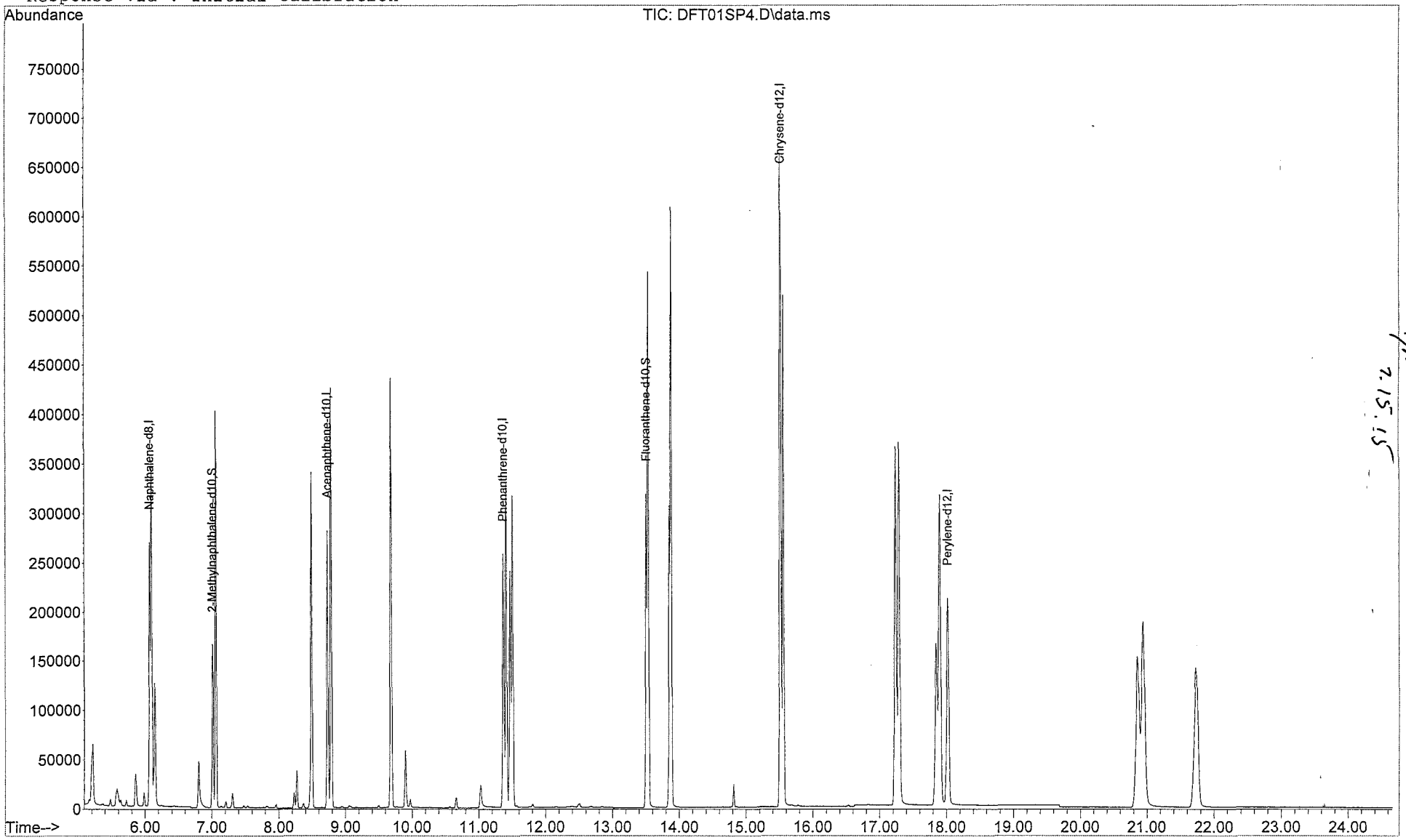
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.985	0.700	-5.5	25.0
2-Methylnaphthalene	0.672	0.657	0.400	-2.2	25.0
Acenaphthylene	1.750	1.681	0.900	-3.9	25.0
Acenaphthene	1.120	1.072	0.900	-4.3	25.0
Fluorene	1.299	1.230	0.900	-5.3	25.0
Pentachlorophenol	0.060	0.052	0.050	-12.8	25.0
Phenanthrene	1.152	1.041	0.700	-9.6	25.0
Anthracene	1.120	1.030	0.700	-8.0	25.0
Fluoranthene	1.311	1.232	0.600	-6.1	25.0
Pyrene	1.255	1.171	0.600	-6.7	25.0
Benzo(a)anthracene	1.067	1.074	0.800	0.7	25.0
Chrysene	1.127	0.981	0.700	-13.0	25.0
Benzo(b)fluoranthene	1.247	1.118	0.700	-10.3	25.0
Benzo(k)fluoranthene	1.292	1.092	0.700	-15.5	25.0
Benzo(a)pyrene	1.191	1.064	0.700	-10.7	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.002	0.500	-3.9	25.0
Dibenzo(a,h)anthracene	1.153	1.040	0.400	-9.8	25.0
Benzo(g,h,i)perylene	1.172	1.019	0.500	-13.1	25.0
Fluoranthene-d10	1.094	1.071	0.010	-2.1	25.0
2-Methylnaphthalene-d10	0.645	0.644	0.010	-0.2	25.0

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT01SP4.D Vial: 1
Acq On : 06/04/2015 13:01 Operator: DJC
Sample : SSTD0.4DT 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 04 13:25:48 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



7/15/15

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT01SP4.D Vial: 1
Acq On : 06/04/2015 13:01 Operator: DJC
Sample : SSTD0.4DT 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 04 13:25:48 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	6.07	136	295191	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	188989	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	340399	0.40 ug/ml	
15) Chrysene-d12	15.52	240	379287	0.40 ug/ml	
19) Perylene-d12	18.02	264	368604	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	190208	0.399ug/mL	
13) Fluoranthene-d10	13.50	212	364718	0.392ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	290866	0.378ug/ml	95
4) 2-Methylnaphthalene	7.06	142	193953	0.391ug/ml	98
6) Acenaphthylene	8.49	152	317743	0.384ug/ml	97
7) Acenaphthene	8.78	153	202572	0.383ug/ml	99
8) Fluorene	9.68	166	232528	0.379ug/ml	100
10) Pentachlorophenol	11.03	266	17826	0.349ug/ml	100
11) Phenanthrene	11.41	178	354366	0.362ug/ml	98
12) Anthracene	11.50	178	350714	0.368ug/ml	97
14) Fluoranthene	13.53	202	419204	0.376ug/ml	88
16) Pyrene	13.88	202	444229	0.373ug/ml	88
17) Benzo(a)anthracene	15.51	228	407269	0.403ug/ml	98
18) Chrysene	15.56	228	371924	0.348ug/ml	96
20) Benzo(b)fluoranthene	17.24	252	412081	0.359ug/ml	100
21) Benzo(k)fluoranthene	17.29	252	402353	0.338ug/ml	100
22) Benzo(a)pyrene	17.90	252	392128	0.357ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	369188	0.384ug/ml	100
24) Dibenzo(a,h)anthracene	20.94	278	383351	0.361ug/ml	98
25) Benzo(g,h,i)perylene	21.73	276	375585	0.348ug/ml	71

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

: 000953

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.: F9KW7

Instrument ID: 5975-D Calibration Date: 06/04/2015 Time: 19:32

Lab File ID: DFT14SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4T1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

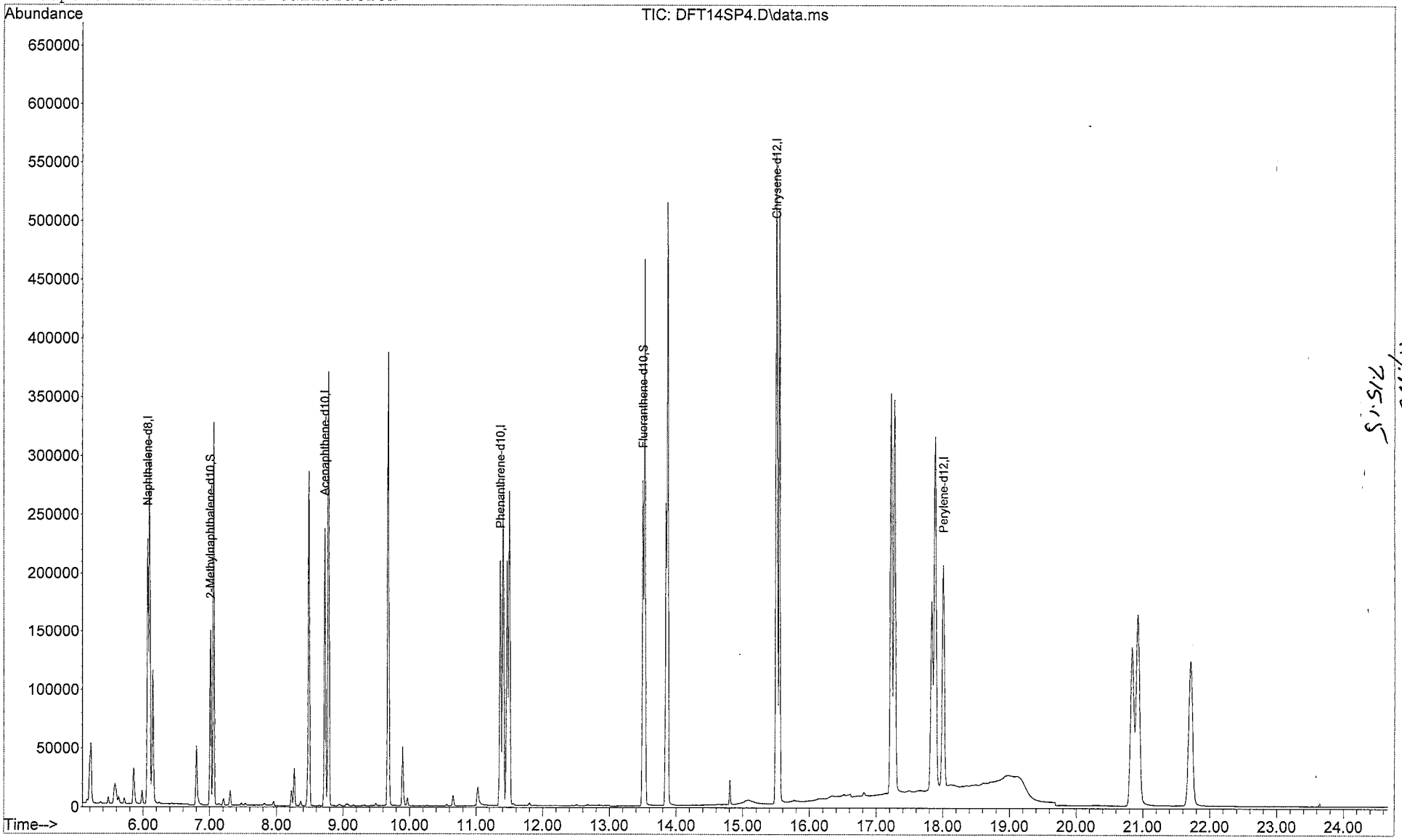
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.990	0.700	-5.1	25.0
2-Methylnaphthalene	0.672	0.659	0.400	-1.9	25.0
Acenaphthylene	1.750	1.693	0.900	-3.3	25.0
Acenaphthene	1.120	1.077	0.900	-3.9	25.0
Fluorene	1.299	1.240	0.900	-4.5	25.0
Pentachlorophenol	0.060	0.049	0.050	-18.8	25.0
Phenanthrene	1.152	1.043	0.700	-9.4	25.0
Anthracene	1.120	1.031	0.700	-8.0	25.0
Fluoranthene	1.311	1.218	0.600	-7.1	25.0
Pyrene	1.255	1.147	0.600	-8.6	25.0
Benzo(a)anthracene	1.067	1.077	0.800	1.0	25.0
Chrysene	1.127	1.025	0.700	-9.1	25.0
Benzo(b)fluoranthene	1.247	1.076	0.700	-13.7	25.0
Benzo(k)fluoranthene	1.292	1.085	0.700	-16.0	25.0
Benzo(a)pyrene	1.191	1.094	0.700	-8.2	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.958	0.500	-8.1	25.0
Dibenzo(a,h)anthracene	1.153	0.999	0.400	-13.4	25.0
Benzo(g,h,i)perylene	1.172	0.955	0.500	-18.6	25.0
Fluoranthene-d10	1.094	1.053	0.010	-3.7	25.0
2-Methylnaphthalene-d10	0.645	0.644	0.010	-0.2	25.0

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT14SP4.D Vial: 1
Acq On : 06/04/2015 19:32 Operator: DJC
Sample : SSTD0.4T1 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 04 19:57:33 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



7/15/15

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT14SP4.D Vial: 1
Acq On : 06/04/2015 19:32 Operator: DJC
Sample : SSTD0.4T1 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 04 19:57:33 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	6.07	136	252575	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	160689	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	290853	0.40 ug/ml	
15) Chrysene-d12	15.51	240	326996	0.40 ug/ml	
19) Perylene-d12	18.01	264	342999	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	162753	0.399ug/mL	
13) Fluoranthene-d10	13.50	212	306285	0.385ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	250093	0.380ug/ml	94
4) 2-Methylnaphthalene	7.06	142	166432	0.392ug/ml	98
6) Acenaphthylene	8.49	152	272035	0.387ug/ml	97
7) Acenaphthene	8.78	153	173019	0.384ug/ml	99
8) Fluorene	9.68	166	199329	0.382ug/ml	100
10) Pentachlorophenol	11.02	266	14181	0.325ug/ml	100
11) Phenanthrene	11.40	178	303423	0.362ug/ml	98
12) Anthracene	11.50	178	299736	0.368ug/ml	97
14) Fluoranthene	13.53	202	354171	0.372ug/ml	88
16) Pyrene	13.87	202	375064	0.366ug/ml	88
17) Benzo(a)anthracene	15.50	228	352193	0.404ug/ml	98
18) Chrysene	15.55	228	335111	0.364ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	369171	0.345ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	372042	0.336ug/ml	100
22) Benzo(a)pyrene	17.88	252	375212	0.367ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.84	276	328731	0.368ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	342496	0.346ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	327456	0.326ug/ml	70

(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.: F9KW7

Instrument ID: 5975-D Calibration Date: 06/05/2015 Time: 01:28

Lab File ID: DFT26SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4T2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

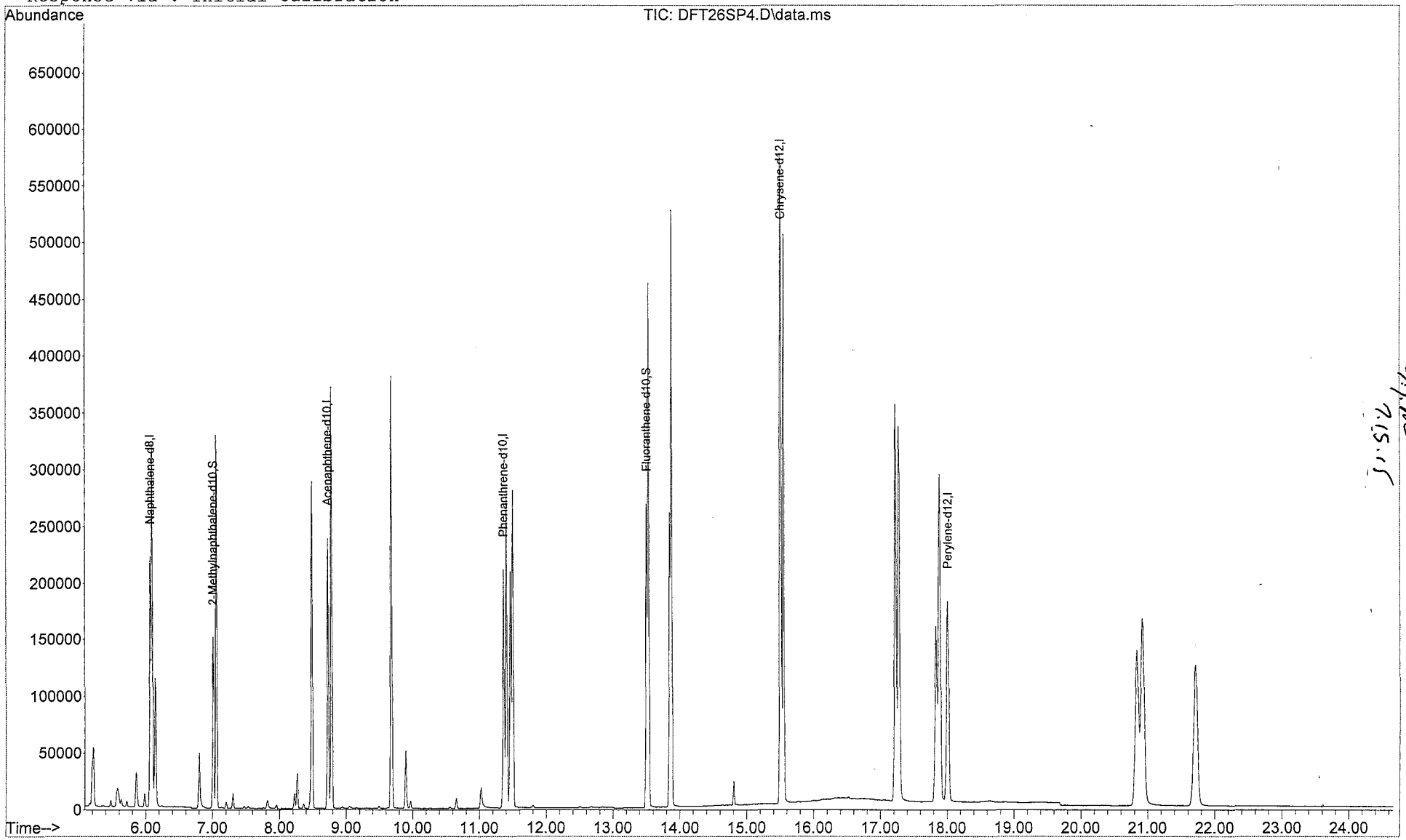
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.996	0.010	-4.5	50.0
2-Methylnaphthalene	0.672	0.662	0.010	-1.4	50.0
Acenaphthylene	1.750	1.714	0.010	-2.1	50.0
Acenaphthene	1.120	1.085	0.010	-3.1	50.0
Fluorene	1.299	1.250	0.010	-3.8	50.0
Pentachlorophenol	0.060	0.056	0.010	-6.0	50.0
Phenanthrene	1.152	1.058	0.010	-8.1	50.0
Anthracene	1.120	1.050	0.010	-6.2	50.0
Fluoranthene	1.311	1.242	0.010	-5.2	50.0
Pyrene	1.255	1.161	0.010	-7.5	50.0
Benzo(a)anthracene	1.067	1.104	0.010	3.5	50.0
Chrysene	1.127	1.040	0.010	-7.8	50.0
Benzo(b)fluoranthene	1.247	1.121	0.010	-10.1	50.0
Benzo(k)fluoranthene	1.292	1.131	0.010	-12.4	50.0
Benzo(a)pyrene	1.191	1.083	0.010	-9.1	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.005	0.010	-3.6	50.0
Dibenzo(a,h)anthracene	1.153	1.053	0.010	-8.7	50.0
Benzo(g,h,i)perylene	1.172	1.004	0.010	-14.4	50.0
Fluoranthene-d10	1.094	1.082	0.010	-1.1	50.0
2-Methylnaphthalene-d10	0.645	0.648	0.010	0.3	50.0

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT26SP4.D Vial: 24
Acq On : 06/05/2015 01:28 Operator: DJC
Sample : SSTD0.4T2 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 05 01:52:50 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:\D\2015\JUN15\04JUN15\04JUN15\DFT26SP4.D Vial: 24
Acq On : 06/05/2015 01:28 Operator: DJC
Sample : SSTD0.4T2 28252 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 05 01:52:50 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	6.07	136	253936	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	160525	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	288829	0.40 ug/ml	
15) Chrysene-d12	15.51	240	328350	0.40 ug/ml	
19) Perylene-d12	18.01	264	327417	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	164426	0.401ug/mL	
13) Fluoranthene-d10	13.50	212	312433	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	253026	0.382ug/ml	94
4) 2-Methylnaphthalene	7.06	142	168121	0.394ug/ml	98
6) Acenaphthylene	8.49	152	275154	0.392ug/ml	97
7) Acenaphthene	8.78	153	174231	0.388ug/ml	99
8) Fluorene	9.68	166	200635	0.385ug/ml	100
10) Pentachlorophenol	11.02	266	16303	0.376ug/ml	100
11) Phenanthrene	11.40	178	305704	0.368ug/ml	98
12) Anthracene	11.50	178	303324	0.375ug/ml	97
14) Fluoranthene	13.53	202	358838	0.379ug/ml	88
16) Pyrene	13.87	202	381140	0.370ug/ml	88
17) Benzo(a)anthracene	15.50	228	362412	0.414ug/ml	98
18) Chrysene	15.55	228	341364	0.369ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	367138	0.360ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	370398	0.350ug/ml	100
22) Benzo(a)pyrene	17.88	252	354574	0.364ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	329189	0.386ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	344696	0.365ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	328734	0.343ug/ml	70

(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.: F9KW7

Instrument ID: 5975-D Calibration Date: 07/09/2015 Time: 11:22

Lab File ID: DFF01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DF Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

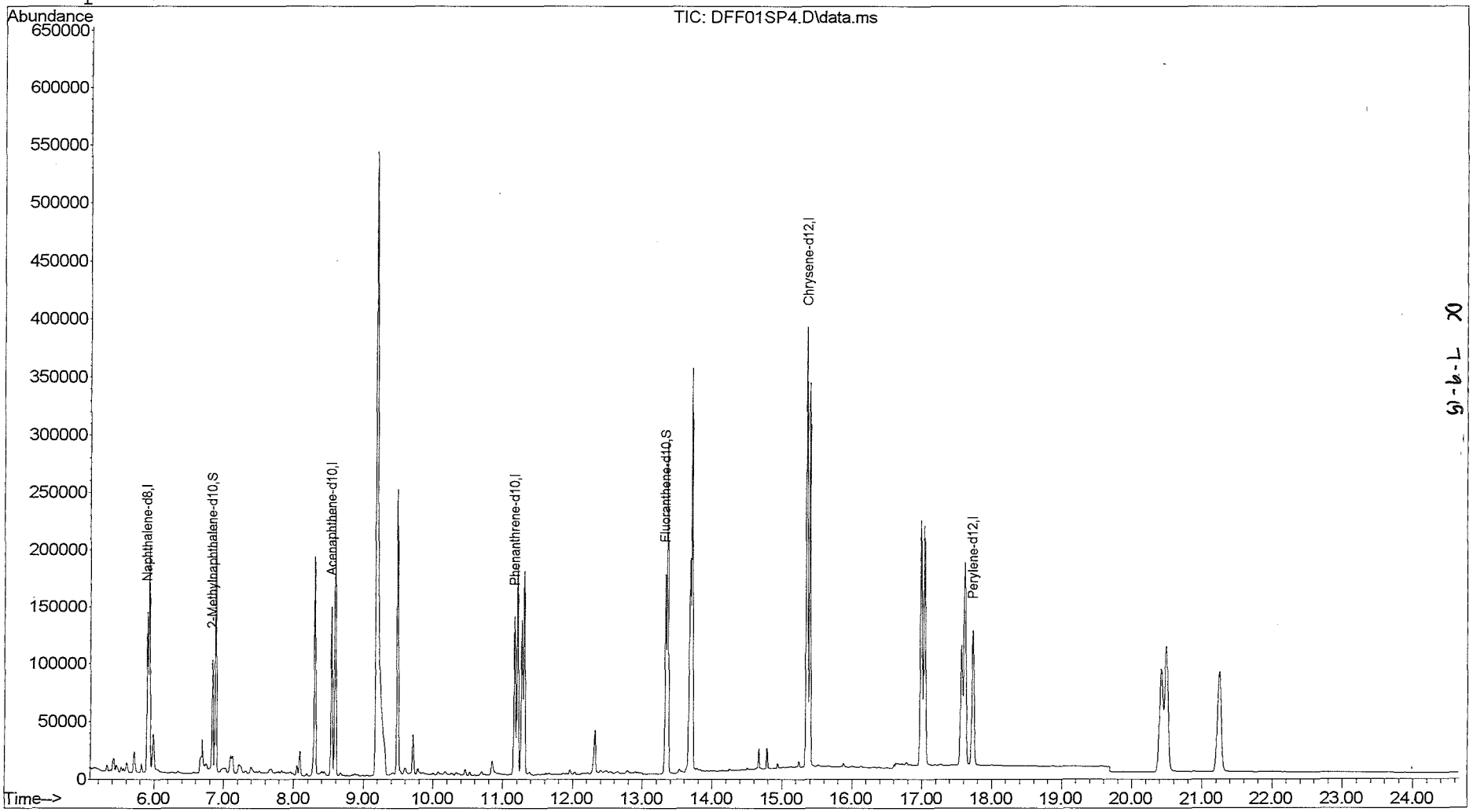
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.993	0.700	-4.8	25.0
2-Methylnaphthalene	0.672	0.673	0.400	0.3	25.0
Acenaphthylene	1.750	1.763	0.900	0.7	25.0
Acenaphthene	1.120	1.113	0.900	-0.7	25.0
Fluorene	1.299	1.298	0.900	0.0	25.0
Pentachlorophenol	0.060	0.069	0.050	14.7	25.0
Phenanthrene	1.152	1.077	0.700	-6.5	25.0
Anthracene	1.120	1.055	0.700	-5.8	25.0
Fluoranthene	1.311	1.264	0.600	-3.6	25.0
Pyrene	1.255	1.228	0.600	-2.1	25.0
Benzo(a)anthracene	1.067	1.110	0.800	4.0	25.0
Chrysene	1.127	1.030	0.700	-8.6	25.0
Benzo(b)fluoranthene	1.247	1.117	0.700	-10.4	25.0
Benzo(k)fluoranthene	1.292	1.122	0.700	-13.1	25.0
Benzo(a)pyrene	1.191	1.072	0.700	-10.0	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.066	0.500	2.2	25.0
Dibenzo(a,h)anthracene	1.153	1.074	0.400	-6.9	25.0
Benzo(g,h,i)perylene	1.172	1.091	0.500	-7.0	25.0
Fluoranthene-d10	1.094	1.121	0.010	2.5	25.0
2-Methylnaphthalene-d10	0.645	0.677	0.010	4.8	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\09JUL15\DFF01SP4.D Vial: 1
Acq On : 07/09/2015 11:22 Operator: DJC
Sample : SSTD0.4DF 28631 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 09 11:46:54 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jul 09 13:05:56 2015
Response via : Initial Calibration



DC 7-9-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\09JUL15\DFF01SP4.D Vial: 1
Acq On : 07/09/2015 11:22 Operator: DJC
Sample : SSTD0.4DF 28631 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 09 11:46:54 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jul 09 13:05:56 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	157875	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	100375	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	181022	0.40 ug/ml	
15) Chrysene-d12	15.36	240	207422	0.40 ug/ml	
19) Perylene-d12	17.73	264	198196	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	106813	0.419ug/mL	
13) Fluoranthene-d10	13.33	212	202949	0.410ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	156790	0.381ug/ml	99
4) 2-Methylnaphthalene	6.88	142	106311	0.401ug/ml	99
6) Acenaphthylene	8.30	152	176925	0.403ug/ml	97
7) Acenaphthene	8.59	153	111685	0.397ug/ml	98
8) Fluorene	9.49	166	130332	0.400ug/ml	100
10) Pentachlorophenol	10.85	266	12466	0.459ug/ml	100
11) Phenanthrene	11.21	178	194876	0.374ug/ml	98
12) Anthracene	11.30	178	191043	0.377ug/ml	97
14) Fluoranthene	13.36	202	228818	0.386ug/ml	89
16) Pyrene	13.71	202	254791	0.391ug/ml	91
17) Benzo(a)anthracene	15.34	228	230177	0.416ug/ml	98
18) Chrysene	15.39	228	213648	0.366ug/ml	97
20) Benzo(b)fluoranthene	16.98	252	221421	0.358ug/ml	98
21) Benzo(k)fluoranthene	17.03	252	222337	0.347ug/ml	99
22) Benzo(a)pyrene	17.61	252	212369	0.360ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.41	276	211271	0.409ug/ml	100
24) Dibenzo(a,h)anthracene	20.49	278	212936	0.373ug/ml	98
25) Benzo(g,h,i)perylene	21.24	276	216206	0.372ug/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.: F9KW7

Instrument ID: 5975-D Calibration Date: 07/09/2015 Time: 19:47

Lab File ID: DFF16SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4F1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

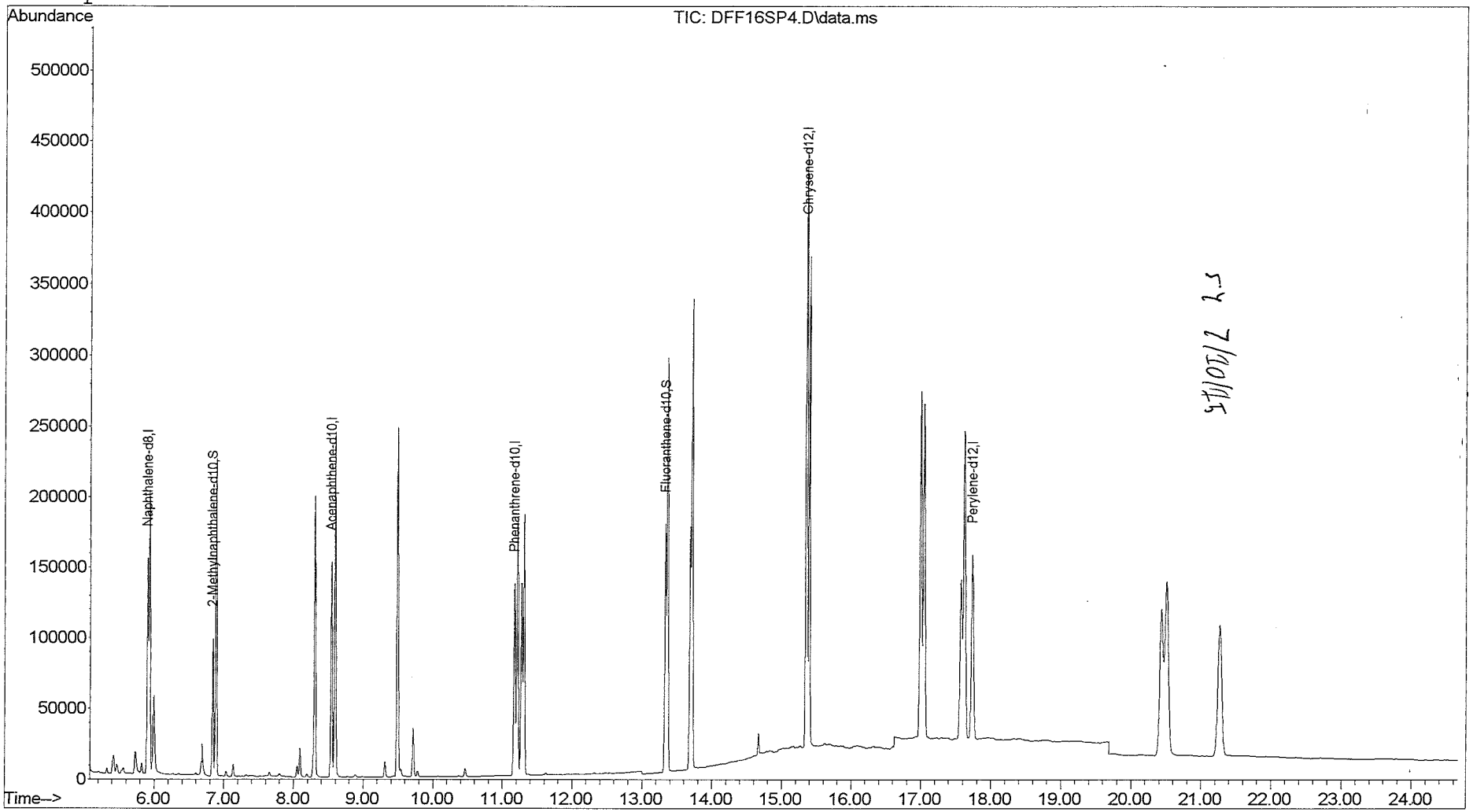
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.987	0.010	-5.3	50.0
2-Methylnaphthalene	0.672	0.666	0.010	-0.8	50.0
Acenaphthylene	1.750	1.773	0.010	1.3	50.0
Acenaphthene	1.120	1.119	0.010	-0.1	50.0
Fluorene	1.299	1.295	0.010	-0.3	50.0
Pentachlorophenol	0.060	0.000	0.010	-100.0	50.0
Phenanthrene	1.152	1.070	0.010	-7.1	50.0
Anthracene	1.120	1.067	0.010	-4.8	50.0
Fluoranthene	1.311	1.257	0.010	-4.1	50.0
Pyrene	1.255	1.140	0.010	-9.2	50.0
Benzo(a)anthracene	1.067	1.138	0.010	6.7	50.0
Chrysene	1.127	1.053	0.010	-6.6	50.0
Benzo(b)fluoranthene	1.247	1.168	0.010	-6.3	50.0
Benzo(k)fluoranthene	1.292	1.102	0.010	-14.7	50.0
Benzo(a)pyrene	1.191	1.106	0.010	-7.1	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.098	0.010	5.4	50.0
Dibenzo(a,h)anthracene	1.153	1.109	0.010	-3.8	50.0
Benzo(g,h,i)perylene	1.172	1.045	0.010	-10.9	50.0
Fluoranthene-d10	1.094	1.107	0.010	1.2	50.0
2-Methylnaphthalene-d10	0.645	0.657	0.010	1.8	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\09JUL15\DFF16SP4.D Vial: 1
Acq On : 07/09/2015 19:47 Operator: DJC
Sample : SSTD0.4F1 28631 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 09 20:12:39 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 : Thu Jul 09 15:23:15 2015
Response via : Initial Calibration



7/10/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\09JUL15\DFF16SP4.D Vial: 1
Acq On : 07/09/2015 19:47 Operator: DJC
Sample : SSTD0.4F1 28631 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 09 20:12:39 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 : Thu Jul 09 15:23:15 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	168047	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	104779	0.40 ug/ml	
9) Phenanthrene-d10	11.17	188	190178	0.40 ug/ml	
15) Chrysene-d12	15.36	240	222353	0.40 ug/ml	
19) Perylene-d12	17.73	264	227210	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	110459	0.407ug/mL	
13) Fluoranthene-d10	13.33	212	210447	0.405ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	165908	0.379ug/ml	94
4) 2-Methylnaphthalene	6.89	142	111962	0.397ug/ml	99
6) Acenaphthylene	8.30	152	185799	0.405ug/ml	97
7) Acenaphthene	8.60	153	117262	0.400ug/ml	98
8) Fluorene	9.49	166	135679	0.399ug/ml	99
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	203438	0.372ug/ml	99
12) Anthracene	11.31	178	202874	0.381ug/ml	97
14) Fluoranthene	13.36	202	239134	0.384ug/ml	89
16) Pyrene	13.71	202	253410	0.363ug/ml	89
17) Benzo(a)anthracene	15.34	228	253112	0.427ug/ml	98
18) Chrysene	15.39	228	234104	0.374ug/ml	97
20) Benzo(b)fluoranthene	16.99	252	265355	0.375ug/ml	100
21) Benzo(k)fluoranthene	17.04	252	250459	0.341ug/ml	99
22) Benzo(a)pyrene	17.62	252	251320	0.371ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.43	276	249583	0.421ug/ml	100
24) Dibenzo(a,h)anthracene	20.50	278	252050	0.385ug/ml	98
25) Benzo(g,h,i)perylene	21.27	276	237379	0.356ug/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.

SBLK23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9KW7

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 447823

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFT02BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/21/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/04/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

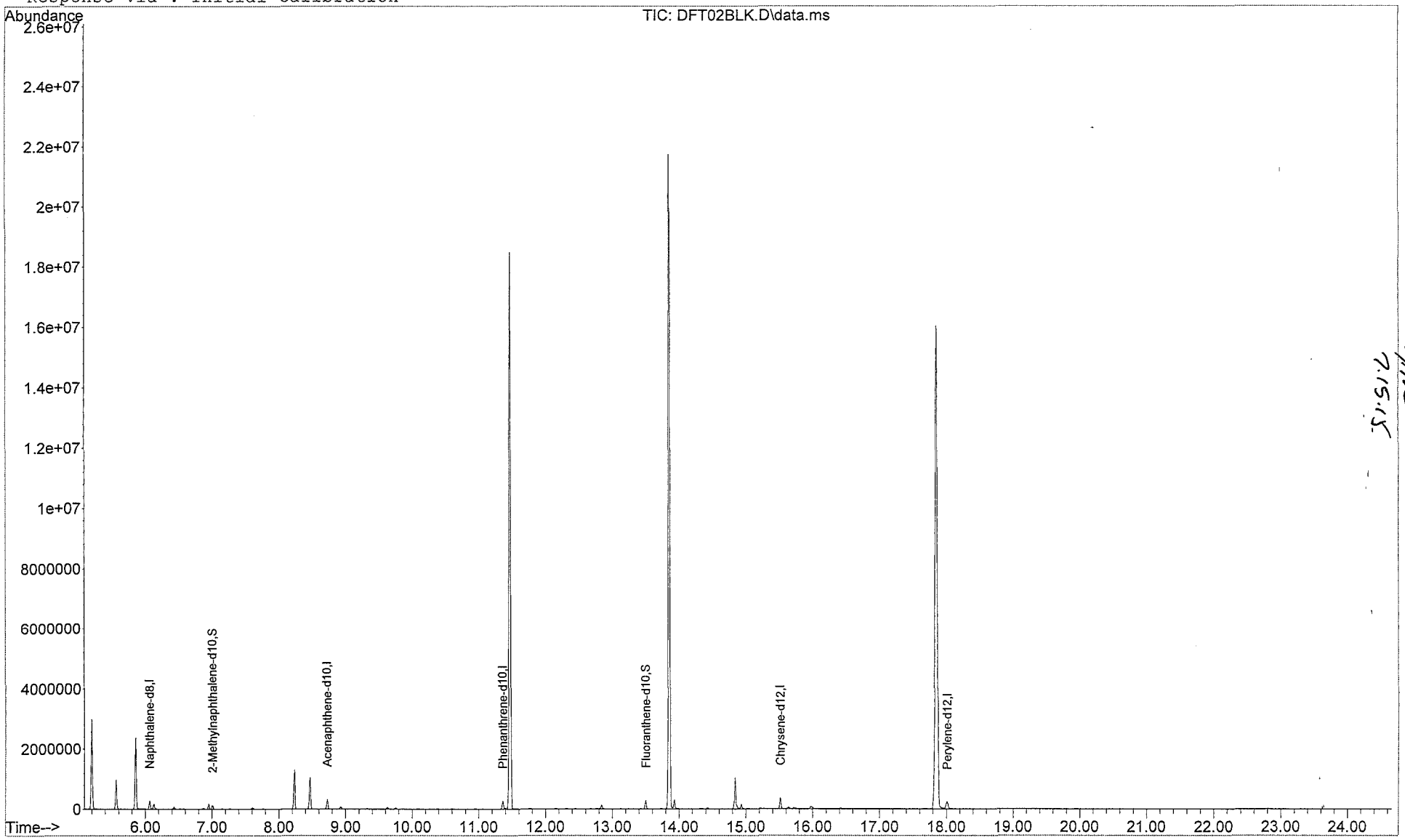
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	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 : R:\D\2015\JUN15\04JUN15\04JUN15\DFT02BLK.D Vial: 2
Acq On : 06/04/2015 13:31 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 06:51:56 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



7.15.15

Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\04JUN15\DFT02BLK.D Vial: 2
Acq On : 06/04/2015 13:31 Operator: DJC
Sample : 447823 SBLK23 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 06:51:56 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	6.07	136	305275	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	217806	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	393207	0.40 ug/ml
15) Chrysene-d12	15.51	240	400860	0.40 ug/ml
19) Perylene-d12	18.01	264	421165	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	136542	0.277ug/mL
13) Fluoranthene-d10	13.50	212	325389	0.303ug/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)

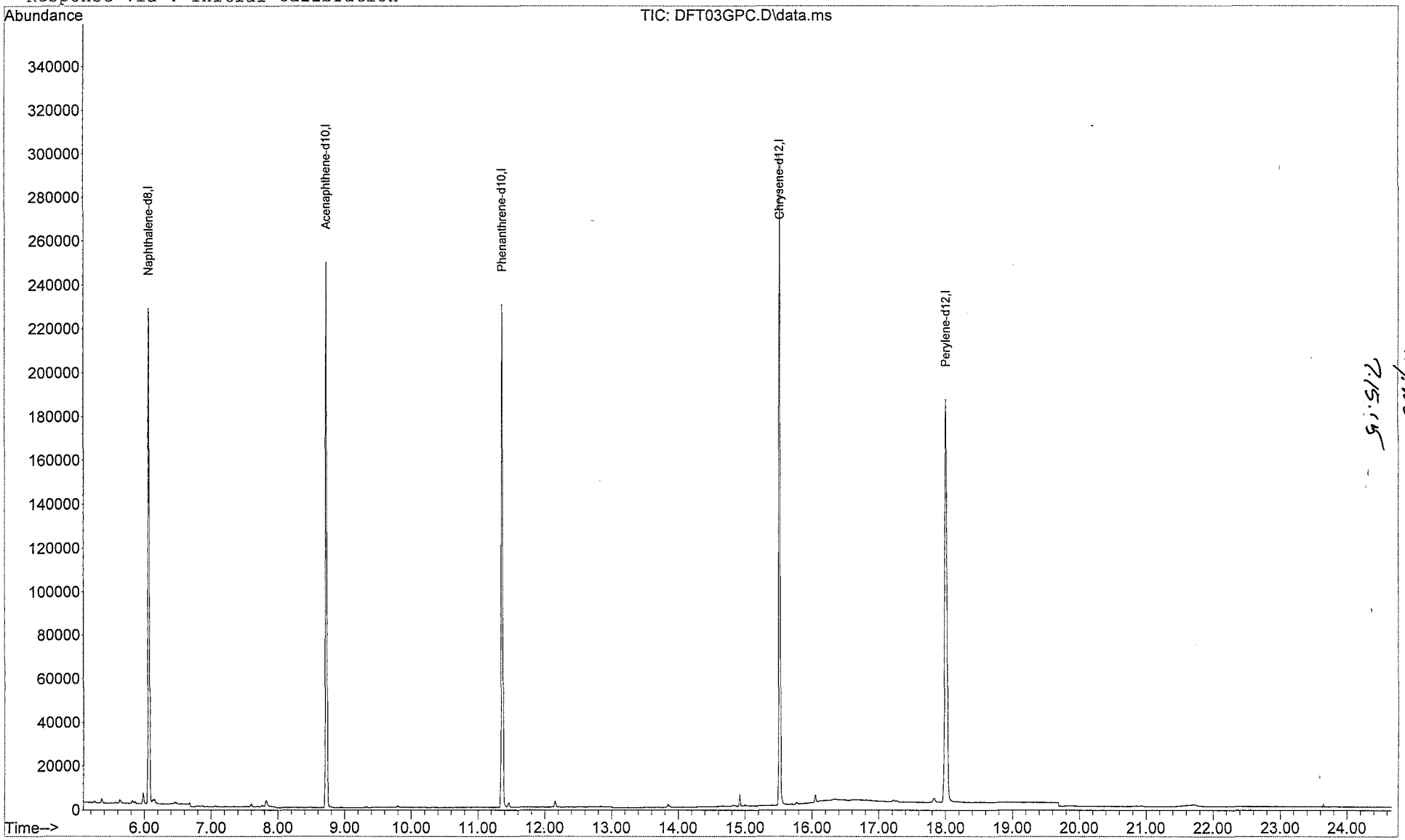
Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\DFT03GPC.D
Acq On : 06/04/2015 14:02
Sample : 448205 GBLK05
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 04 14:26:51 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 13:38:19 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUN15\04JUN15\DFT03GPC.D Vial: 3
Acq On : 06/04/2015 14:02 Operator: DJC
Sample : 448205 GBLK05 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 04 14:26:51 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 13:38:19 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	268768	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	172098	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	314548	0.40 ug/ml
15) Chrysene-d12	15.51	240	339054	0.40 ug/ml
19) Perylene-d12	18.00	264	335182	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.15	152	75	0.000ug/mL
13) Fluoranthene-d10	13.67	212	137	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-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DFG01S20	05/21/2015 13:45	DJC	DSOM02A2	1	25.96	1	SSTD020DG 28104 DFTPPDG	X6-19-15
DFG02S20	05/21/2015 14:38	DJC	DSOM02A3	1	25.96	1	SSTD020DG 28104 DFTPPDG	X6-19-15
DFG03S05	05/21/2015 15:14	DJC	DSOM02A3	2	25.96	1	SSTD005DG 28102	X6-19-15
DFG04S10	05/21/2015 15:48	DJC	DSOM02A3	3	25.96	1	SSTD010DG 28103	X6-19-15
DFG05S40	05/21/2015 16:22	DJC	DSOM02A3	4	25.96	1	SSTD040DG 28105	X6-19-15
DFG06S80	05/21/2015 16:56	DJC	DSOM02A3	5	25.96	1	SSTD080DG 28106	X6-19-15
DFG07S16	05/21/2015 17:31	DJC	DSOM02A3	6	25.96	1	SSTD160DG 28107	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
DFM17S20	05/28/2015 09:45	DJC	DSOM01D5	1	25.96	1	SSTD020DM 28104 DFTPPDM	X6-19-15
DFM18F01	05/28/2015 10:18	DJC	DSOM01D5	16	25.96	1	1513978001 F9KW7 (10)	SOIL SOM
DFM19F04	05/28/2015 10:53	DJC	DSOM01D5	17	25.96	1	1513978004 F9KX0 (10)	SOIL SOM
DFM20F05	05/28/2015 11:28	DJC	DSOM01D5	18	25.96	1	1513978005 F9KX1 (10)	SOIL SOM
DFM21F07	05/28/2015 12:02	DJC	DSOM01D5	19	25.96	1	1513978007 F9KY4 (5)	SOIL SOM
DFM22F09	05/28/2015 12:36	DJC	DSOM01D5	20	25.96	1	1513978009 F9KY6 (10)	SOIL SOM
DFM23F10	05/28/2015 13:10	DJC	DSOM01D5	21	25.96	1	1513978010 F9KY7 (10)	SOIL SOM
DFM24F11	05/28/2015 13:44	DJC	DSOM01D5	22	25.96	1	1513978011 F9L28 (10)	SOIL SOM
DFM25F13	05/28/2015 14:18	DJC	DSOM01D5	23	25.96	1	1513978013 F9L30 (10)	SOIL SOM
DFM26F01	05/28/2015 14:51	DJC	DSOM01D5	24	25.96	1	1514052001 F9K71 (5)	SOIL SOM
DFM27F04	05/28/2015 15:25	DJC	DSOM01D5	25	25.96	1	1514052004 F9K77 (10)	SOIL SOM
DFM28S20	05/28/2015 15:59	DJC	DSOM01D5	1	25.96	1	SSTD020M1 28104 DFTPPM1	X6-19-15

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
GCK01S20	07/02/2015 10:50	DJC	GSOM01D6	1	25.96	1	SSTD020GK 28543 DFTPPGK	X07/19/15
GCK02F01	07/02/2015 11:23	DJC	GSOM01D6	2	25.96	1	1514052001 F9K71	SOIL SOM
GCK03F04	07/02/2015 11:56	DJC	GSOM01D6	3	25.96	1	1514052004 F9K77	SOIL SOM
GCK04F01	07/02/2015 12:29	DJC	GSOM01D6	4	25.96	1	1513978001 F9KW7	SOIL SOM
GCK05F04	07/02/2015 13:03	DJC	GSOM01D6	5	25.96	1	1513978004 F9KX0	SOIL SOM
GCK06F05	07/02/2015 13:36	DJC	GSOM01D6	6	25.96	1	1513978005 F9KX1	SOIL SOM`
GCK07F07	07/02/2015 14:09	DJC	GSOM01D6	7	25.96	1	1513978007 F9KY4	SOIL SOM
GCK08F09	07/02/2015 14:42	DJC	GSOM01D6	8	25.96	1	1513978009 F9KY6	SOIL SOM
GCK09F10	07/02/2015 15:15	DJC	GSOM01D6	9	25.96	1	1513978010 F9KY7	SOIL SOM
GCK10F11	07/02/2015 15:47	DJC	GSOM01D6	10	25.96	1	1513978011 F9L28	SOIL SOM
GCK11S20	07/02/2015 16:20	DJC	GSOM01D6	1	25.96	1	SSTD020K1 28543 DFTPPK1	X07/19/15
GCK12S20	07/02/2015 16:53	DJC	GSOM01D6	1	25.96	1	SSTD020GK 28543 DFTPPGK	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
GCL01S20	07/06/2015 09:07	TJM	GSOM01D6	1	25.96	1	SSTD020GL 28543 DFTPPGL	X07/19/15
GCL02S20	07/06/2015 09:40	TJM	GSOM01D6	1	25.96	1	SSTD020GL 28543 DFTPPGL	X07/19/15
GCL03F13	07/06/2015 10:13	TJM	GSOM01D6	2	25.96	1	1513978013 F9L30	SOIL SOM
GCL04F05	07/06/2015 10:46	TJM	GSOM01D6	3	25.96	1	1514076005 F9K51 (4)	SOIL SOM
GCL05F09	07/06/2015 11:19	TJM	GSOM01D6	4	25.96	1	1514076009 F9K83	SOIL SOM
GCL06F10	07/06/2015 11:52	TJM	GSOM01D6	5	25.96	1	1514076010 F9K84 (2)	SOIL SOM
GCL07F11	07/06/2015 12:25	TJM	GSOM01D6	6	25.96	1	1514076011 F9K85 (2)	SOIL SOM
GCL08F12	07/06/2015 12:58	TJM	GSOM01D6	7	25.96	1	1514076012 F9K87	SOIL SOM
GCL09F13	07/06/2015 13:31	TJM	GSOM01D6	8	25.96	1	1514076013 F9K90	SOIL SOM
GCL10S20	07/06/2015 14:03	TJM	GSOM01D6	1	25.96	1	SSTD020L2 28543 DFTPPL2	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
DFT01SP4	06/04/2015 13:01	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DT 28252	X6-19-15
DFT02BLK	06/04/2015 13:31	DJC	DSOM_SIMJ2	2	24.66	1	447823 SBLK23	SOIL SIM
DFT03GPC	06/04/2015 14:02	DJC	DSOM_SIMJ2	3	24.66	1	448205 GBLK05	SOIL SIM
DFT04F02	06/04/2015 14:32	DJC	DSOM_SIMJ2	4	24.66	1	1513978002 F9KW8	SOIL SIM
DFT05F03	06/04/2015 15:02	DJC	DSOM_SIMJ2	5	24.66	1	1513978003 F9KW9	SOIL SIM
DFT06F06	06/04/2015 15:32	DJC	DSOM_SIMJ2	6	24.66	1	1513978006 F9KX5	SOIL SIM
DFT07F08	06/04/2015 16:03	DJC	DSOM_SIMJ2	7	24.66	1	1513978008 F9KY5	SOIL SIM
DFT08F12	06/04/2015 16:33	DJC	DSOM_SIMJ2	8	24.66	1	1513978012 F9L29	SOIL SIM
DFT09F02	06/04/2015 17:03	DJC	DSOM_SIMJ2	9	24.66	1	1514052002 F9K72	SOIL SIM
DFT10F03	06/04/2015 17:33	DJC	DSOM_SIMJ2	10	24.66	1	1514052003 F9K73	SOIL SIM
DFT11F05	06/04/2015 18:03	DJC	DSOM_SIMJ2	11	24.66	1	1514052005 F9K78	SOIL SIM
DFT12F01	06/04/2015 18:33	DJC	DSOM_SIMJ2	12	24.66	1	1514071001 F9KR0	SOIL SIM
DFT13F02	06/04/2015 19:03	DJC	DSOM_SIMJ2	13	24.66	1	1514071002 F9KX4	SOIL SIM
DFT14SP4	06/04/2015 19:32	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4T1 28252	X6-19-15
DFT15SP4	06/04/2015 20:02	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4T1 28252	X6-19-15
DFT16F01	06/04/2015 20:32	DJC	DSOM_SIMJ2	14	24.66	1	1513978001 F9KW7 (10)	SOIL SIM
DFT17F04	06/04/2015 21:01	DJC	DSOM_SIMJ2	15	24.66	1	1513978004 F9KX0 (10)	SOIL SIM
DFT18F05	06/04/2015 21:31	DJC	DSOM_SIMJ2	16	24.66	1	1513978005 F9KX1 (10)	SOIL SIM
DFT19F07	06/04/2015 22:00	DJC	DSOM_SIMJ2	17	24.66	1	1513978007 F9KY4 (5)	SOIL SIM
DFT20F09	06/04/2015 22:30	DJC	DSOM_SIMJ2	18	24.66	1	1513978009 F9KY6 (10)	SOIL SIM
DFT21F10	06/04/2015 23:00	DJC	DSOM_SIMJ2	19	24.66	1	1513978010 F9KY7 (10)	SOIL SIM
DFT22F11	06/04/2015 23:29	DJC	DSOM_SIMJ2	20	24.66	1	1513978011 F9L28 (10)	SOIL SIM
DFT23F13	06/04/2015 23:59	DJC	DSOM_SIMJ2	21	24.66	1	1513978013 F9L30 (10)	SOIL SIM
DFT24F01	06/05/2015 00:28	DJC	DSOM_SIMJ2	22	24.66	1	1514052001 F9K71 (10)	SOIL SIM
DFT25F04	06/05/2015 00:58	DJC	DSOM_SIMJ2	23	24.66	1	1514052004 F9K77 (10)	SOIL SIM
DFT26SP4	06/05/2015 01:28	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4T2 28252	X6-19-15
DFT27SP4	06/05/2015 01:57	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4T2 28252	X6-19-15
DFT28SP4	06/05/2015 02:27	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4T2 28252	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
DFF01SP4	07/09/2015 11:22	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DF 28631	X7-19-15
DFF02F10	07/09/2015 12:44	DJC	DSOM_SIMJ2	2	24.66	1	1514076010 F9K84 (2)	SOIL SIM
DFF03F11	07/09/2015 13:14	DJC	DSOM_SIMJ2	3	24.66	1	1514076011 F9K85 (2)	SOIL SIM
DFF04F14	07/09/2015 13:45	DJC	DSOM_SIMJ2	4	24.66	1	1514076014 F9K91	SOIL SIM
DFF05F15	07/09/2015 14:15	DJC	DSOM_SIMJ2	5	24.66	1	1514076015 F9K93 (2)	SOIL SIM
DFF06F01	07/09/2015 14:45	DJC	DSOM_SIMJ2	6	24.66	1	1514076001 F9L35 (2)	SOIL SIM
DFF07F04	07/09/2015 15:16	DJC	DSOM_SIMJ2	7	24.66	1	1514052004 F9K77 (2)	SOIL SIM
DFF08F01	07/09/2015 15:46	DJC	DSOM_SIMJ2	8	24.66	1	1513978001 F9KW7	SOIL SIM
DFF09F04	07/09/2015 16:16	DJC	DSOM_SIMJ2	9	24.66	1	1513978004 F9KX0	SOIL SIM
DFF10F05	07/09/2015 16:46	DJC	DSOM_SIMJ2	10	24.66	1	1513978005 F9KX1	SOIL SIM
DFF11F07	07/09/2015 17:17	DJC	DSOM_SIMJ2	11	24.66	1	1513978007 F9KY4	SOIL SIM
DFF12F09	07/09/2015 17:47	DJC	DSOM_SIMJ2	12	24.66	1	1513978009 F9KY6	SOIL SIM
DFF13F10	07/09/2015 18:17	DJC	DSOM_SIMJ2	13	24.66	1	1513978010 F9KY7	SOIL SIM
DFF14F11	07/09/2015 18:47	DJC	DSOM_SIMJ2	14	24.66	1	1513978011 F9L28	SOIL SIM
DFF15F13	07/09/2015 19:17	DJC	DSOM_SIMJ2	15	24.66	1	1513978013 F9L30 (4)	SOIL SIM
DFF16SP4	07/09/2015 19:47	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4F1 28631	X7-19-15

00078

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 45318 SDG F9KW7 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 7/16/15

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 7/16/15

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 [illegible] Date 7-16-15

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 [illegible] Date 7-16-15

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 Dessice Hill Date 07/16/2015

U.S. EPA Region 6 Laboratory
ESB FILE REQUEST / IN-FILING FORM

CONTACT NAME ____Raymond Flores_____ PHONE __281 983 2139_____

DATE____8/14/2015_____

_x__NEW FILE OR ___IN-FILING

Choose Program Type

___ AIR
___ FIFRA
___ MULTI-MEDIA
___ NPDES
___ PCB
___ RCRA
_x_ SUPERFUND
___ TSCA
___ WATER
Other _____

Choose File Type

___ ADMINISTRATIVE
___ ENFORCEMENT
___ FINAL REPORT
___ PROCUREMENT
___ QAPP
_x__ RAW DATA
____ SOP
___ CRIMINAL

Other_____One original data package and one resubmission data package_____

Project or Facility Name ___WILCOX OIL _____

Facility Address (if applicable) _____Bristow, OK_____

CERCLIS Number __OK0001010917_____ FRS Number _____

Project Number __Case/SDG 45316/F9KW7__Work Order Number _____

Special Instructions:__CLP DATA, Box 2 of 2_____

_____

_____

****

For Record Center Staff only:

DATE RECV'D _____ DATE PULLED _____ DATE FILED _____

Requested from FRC? YES NO Date of request _____

Date returned to FRC _____

Rev. 2.0 May 17, 2011

U.S. EPA Region 6 Laboratory
ESB FILE REQUEST / IN-FILING FORM

CONTACT NAME ____Raymond Flores_____ PHONE __281 983 2139_____

DATE____8/14/2015_____

_x__NEW FILE OR ___IN-FILING

Choose Program Type

___ AIR
___ FIFRA
___ MULTI-MEDIA
___ NPDES
___ PCB
___ RCRA
_x_ SUPERFUND
___ TSCA
___ WATER
Other _____

Choose File Type

___ ADMINISTRATIVE
___ ENFORCEMENT
___ FINAL REPORT
___ PROCUREMENT
___ QAPP
_x__ RAW DATA
____ SOP
___ CRIMINAL

Other_____One original data package and one resubmission data package_____

Project or Facility Name ___WILCOX OIL _____

Facility Address (if applicable) _____Bristow, OK_____

CERCLIS Number __OK0001010917_____ FRS Number _____

Project Number __Case/SDG 45316/F9KW7__Work Order Number _____

Special Instructions:__CLP DATA, Box 1 of 2_____

_____

_____

****

For Record Center Staff only:

DATE RECV'D _____ DATE PULLED _____ DATE FILED _____

Requested from FRC? YES NO Date of request _____

Date returned to FRC _____

Rev. 2.0 May 17, 2011

In Reference To Case No.: 45316 SDG(s): F9K48, F9K50, and F9KW7

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name: DATAC
Lab Contact: Roxanne Olson

Region: 6
Regional Contact: Raymond Flores – EPA
ESAT Reviewer: Linda Hoffman – ESAT

In reference to data for the fraction(s):

BNA/BNA-SIM

Summary of Questions/Issues:

The analyses for the BNA/BNA-SIM samples listed below under each SDG appear to be over diluted. Please reanalyze these samples without dilution and with any needed dilutions that meet the SOW requirement (SOM01.2, p. D-41/SVOA, sec. 10.6.6.3). Please submit a new CSF data package and EDD submission that includes revised and additional data and associated Forms resulting from the reanalyses of these samples.

SDG F9K48:

BNA: F9K48, F9K49, F9K51, F9K54, F9K55, F9K83, F9K84, F9K85, F9K87, F9K90, F9K91, F9K93, F9KA1, F9L35, and F9L36

BNA-SIM: F9K84, F9K85, F9K91, F9K93, and F9L35

SDG F9K50:

BNA: F9K50, F9K70, F9K76, F9K82, F9K86, F9K92, F9KA0, F9KA2, F9KQ6, F9KT8, F9KT9, F9KW2, and F9KW6

BNA-SIM: F9K70, F9K86, F9K92, F9KA2, F9KT8, F9KT9, F9KW2, and F9KW6

SDG F9KW7:

BNA: F9K71, F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, and F9L30

BNA-SIM: F9K77, F9KW7, F9KX0, F9KX1, F9KY4, F9KY6, F9KY7, F9L28, and F9L30

Resubmission Request

Continuation Page: 2
Laboratory/Contact: DATAC/Roxanne Olson
In Reference to Case No.: 45316 **SDG:** F9K48, F9K50, and F9KW7

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM01.2, p. B-33, sec. 2.6.3). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 7 days** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

Regional CCS Defect Report

15:01 Thu, Jun 11, 2015

SDG F9KW7 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 215989 **Version** 8.6

DRD 06/10/2015 **LRD** 05/20/2015 **Mailed** 06/11/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Sample Summary and Lab Receipt Date

Sample/Number	VOA Trace	VOA SIM	VOA	BNA	BNA SIM	PEST	AROCLOR	Automated	Manual
F9K71				05/20/2015	05/20/2015				
F9K72				05/20/2015	05/20/2015				
F9K73				05/20/2015	05/20/2015				
F9K77				05/20/2015	05/20/2015				
F9K78				05/20/2015	05/20/2015				
F9KR0				05/19/2015	05/19/2015				
F9KW7				05/19/2015	05/19/2015				
F9KW8				05/19/2015	05/19/2015				
F9KW9				05/19/2015	05/19/2015				
F9KX0				05/19/2015	05/19/2015				
F9KX1				05/19/2015	05/19/2015				
F9KX4				05/19/2015	05/19/2015				
F9KX5				05/19/2015	05/19/2015				
F9KY4				05/19/2015	05/19/2015				
F9KY5				05/19/2015	05/19/2015				
F9KY6				05/19/2015	05/19/2015				
F9KY7				05/19/2015	05/19/2015				
F9L28				05/19/2015	05/19/2015				
F9L29				05/19/2015	05/19/2015				
F9L30				05/19/2015	05/19/2015				
Totals	**0**	**0**	**0**	**20**	**20**	**0**	**0**		

Regional CCS Defect Report

15:01 Thu, Jun 11, 2015

SDG F9KW7 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 215989 **Version** 8.6

DRD 06/10/2015 **LRD** 05/20/2015 **Mailed** 06/11/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Regional CCS Defect Report

15:01 Thu, Jun 11, 2015

SDG F9KW7 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 215989 **Version** 8.6

DRD 06/10/2015 **LRD** 05/20/2015 **Mailed** 06/11/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Regional Defect Detail

NONE FOUND

Regional CCS Defect Report

15:01 Thu, Jun 11, 2015

SDG F9KW7 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 215989 **Version** 8.6

DRD 06/10/2015 **LRD** 05/20/2015 **Mailed** 06/11/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

General Comments

NONE FOUND