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

June 26, 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#: **F9L37**

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.

500018269

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: June 26, 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.:	1502-211-0123
TDF No.:	6-15-291A
ESAT File No.:	O-1236

Attached is the data review summary for Case # 45316
SDG # F9L37
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	7
CONTRACT#	EP-W-11-037	MATRIX	Water
SDG#	F9L37	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2GG	COMPLETION DATE	June 26, 2015

SAMPLE NO.					
	F9L37	F9L56			
	F9L47	F9L74			
	F9L54	F9L90			
	F9L55				

DATA ASSESSMENT SUMMARY

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

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

ACTION ITEMS:

AREA OF CONCERN: **BNA/BNA-SIM** Sample F9L55 failed technical holding time criteria.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45316 **SDG** F9L37 **SITE** Wilcox Oil **LAB** DATAC

COMMENTS: This SDG consisted of seven field QC samples for LMVOA or BNA/BNA-SIM analyses following CLP SOW SOM01.2. Samples F9L37, F9L47, F9L56, and F9L90 were trip blanks and only required LMVOA analysis. Samples F9L54, F9L55, and F9L74 were rinsates and only required BNA/BNA-SIM analyses. Evaluation of the field QC samples could not be performed because the associated field samples were a different matrix (soil). MS/MSD analyses were not requested. No target compound was detected above the CRQL.

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: All results were qualified for BNA/BNA-SIM sample F9L55 because of a holding time problem. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

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	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	67-64-1	Acetone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	78-93-3	2-Butanone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-88-3	Toluene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC

45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	67-64-1	Acetone	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	78-93-3	2-Butanone	1.5	LJ	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-88-3	Toluene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC

45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	67-64-1	Acetone	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	78-93-3	2-Butanone	1.5	LJ	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-88-3	Toluene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC

45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	67-64-1	Acetone	10	U	ug/L	10	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	78-93-3	2-Butanone	10	U	ug/L	10	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-88-3	Toluene	0.18	LJ	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/22/2015 FieldQC

45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	108-95-2	Phenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	98-86-2	Acetophenone	0.68	LJ	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC

45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	91-20-3	Naphthalene	0.038	LJ	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	83-32-9	Acenaphthene	0.038	LJ	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	50-32-8	Benzo(a)pyrene	0.087	LJ	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	05/20/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	100-52-7	Benzaldehyde	0.62	LJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	108-95-2	Phenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	111-44-4	Bis(2-chloroethyl)ether	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-57-8	2-Chlorophenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-48-7	2-Methylphenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	98-86-2	Acetophenone	0.79	LJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	106-44-5	4-Methylphenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	67-72-1	Hexachloroethane	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	98-95-3	Nitrobenzene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	78-59-1	Isophorone	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	88-75-5	2-Nitrophenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	105-67-9	2,4-Dimethylphenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	120-83-2	2,4-Dichlorophenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	106-47-8	4-Chloroaniline	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	87-68-3	Hexachlorobutadiene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	105-60-2	Caprolactam	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	59-50-7	4-Chloro-3-methylphenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC

45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	77-47-4	Hexachlorocyclopentadiene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	88-06-2	2,4,6-Trichlorophenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-95-4	2,4,5-Trichlorophenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	92-52-4	1,1'-Biphenyl	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-58-7	2-Chloronaphthalene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	88-74-4	2-Nitroaniline	10	UJ	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	131-11-3	Dimethylphthalate	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	606-20-2	2,6-Dinitrotoluene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	99-09-2	3-Nitroaniline	10	UJ	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	51-28-5	2,4-Dinitrophenol	10	UJ	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	100-02-7	4-Nitrophenol	10	UJ	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	132-64-9	Dibenzofuran	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	121-14-2	2,4-Dinitrotoluene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	84-66-2	Diethylphthalate	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	100-01-6	4-Nitroaniline	10	UJ	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	534-52-1	4,6-Dinitro-2-methylphenol	10	UJ	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	86-30-6	N-Nitrosodiphenylamine	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	101-55-3	4-Bromophenyl-phenylether	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	118-74-1	Hexachlorobenzene	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	1912-24-9	Atrazine	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	86-74-8	Carbazole	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	84-74-2	Di-n-butylphthalate	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	85-68-7	Butylbenzylphthalate	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-94-1	3,3'-Dichlorobenzidine	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	117-84-0	Di-n-octylphthalate	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	UJ	ug/L	5.0	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	91-20-3	Naphthalene	0.052	LJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	91-57-6	2-Methylnaphthalene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	208-96-8	Acenaphthylene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	83-32-9	Acenaphthene	0.088	LJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	86-73-7	Fluorene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	87-86-5	Pentachlorophenol	0.20	UJ	ug/L	0.20	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	85-01-8	Phenanthrene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC

45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	120-12-7	Anthracene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	206-44-0	Fluoranthene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	129-00-0	Pyrene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	56-55-3	Benzo(a)anthracene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	218-01-9	Chrysene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	205-99-2	Benzo(b)fluoranthene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	207-08-9	Benzo(k)fluoranthene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	50-32-8	Benzo(a)pyrene	0.082	LJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	53-70-3	Dibenzo(a,h)anthracene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	191-24-2	Benzo(g,h,i)perylene	0.10	UJ	ug/L	0.10	05/18/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	100-52-7	Benzaldehyde	0.54	LJ	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	108-95-2	Phenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	98-86-2	Acetophenone	0.66	LJ	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	05/21/2015 FieldQC

45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	91-20-3	Naphthalene	0.045	LJ	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	83-32-9	Acenaphthene	0.090	LJ	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	50-32-8	Benzo(a)pyrene	0.083	LJ	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	05/21/2015 FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	05/21/2015 FieldQC

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45316 SDG No. F9L37 SDG Nos. To Follow Mod. Ref No. Date Rec. 06/15/15

EPA Lab ID: DATAC

Lab Location: Salt Lake City, UT

Region: 6 Audit No.: 45316/F9L37

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Item Description

14./15. Sample tags are no longer used.

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 06/24/15

Audited by: Date

Signature Printed Name/Title

DC-2__

USEPA CLP COC (REGION COPY)
DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773641082663

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-051915-182457-0034
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-006-008-24-51	F9KB7	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:50	Field Sample
WO-006-003-24-52	F9L35	Soil/ START	Composite	VOA(21)	1029 (Ice) (3)	006	05/19/2015 10:30	Field Sample
WO-006-006-12-52	F9L36	Soil/ START	Composite	VOA(21)	1038 (Ice) (3)	006	05/19/2015 11:55	Field Sample
WO-006-006-44-20150519	F9L37	Water/ START	Grab	VOA(21)	1042 (HCl) (3)	FieldQC	05/19/2015 12:45	
WO-005-001-00-52	F9L38	Soil/ START	Composite	VOA(21)	1044 (Ice) (3)	005	05/19/2015 14:50	Field Sample

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

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USEPA CLP COC (REGION COPY)
DateShipped: 5/20/2015
CarrierName: FedEx
AirbillNo: 773650684748

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-052015-172117-0042
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-017-003-00-51	F9L45	Soil/ START	Composite	VOA(21)	1074 (Ice) (3)	017	05/20/2015 09:45	Field Sample
WO-017-003-00-52	F9L46	Soil/ START	Composite	VOA(21)	1079 (Ice) (3)	017	05/20/2015 09:50	Field Sample
WO-017-003-44-20150520	F9L47	Water/ START	Grab	VOA(21)	1083 (HCl) (3)	FieldQC	05/20/2015 17:20	
WO-017-006-06-51	F9L49	Soil/ START	Composite	VOA(21)	1086 (Ice) (3)	017	05/20/2015 14:50	Field Sample
WO-017-006-12-51	F9L50	Soil/ START	Composite	VOA(21)	1091 (Ice) (3)	017	05/20/2015 14:55	Field Sample
WO-017-005-06-51	F9L51	Soil/ START	Composite	VOA(21)	1096 (Ice) (3)	017	05/20/2015 10:20	Field Sample
WO-017-005-12-51	F9L52	Soil/ START	Composite	VOA(21)	1101 (Ice) (3)	017	05/20/2015 10:25	Field Sample
WO-017-005-24-51	F9L53	Soil/ START	Composite	VOA(21)	1106 (Ice) (3)	017	05/20/2015 10:30	Field Sample

Special Instructions: No Lab QC for VOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

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USEPA CLP COC (REGION COPY)
DateShipped: 5/20/2015
CarrierName: FedEx
AirbillNo: 773651528914

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-052015-180419-0045
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-017-006-06-51	F9L49	Soil/ START	Composite	SVOA/SVOASIM(21)	1087 (Ice) (2)	017	05/20/2015 14:50	Field Sample
WO-017-005-12-51	F9L52	Soil/ START	Composite	SVOA/SVOASIM(21)	1102 (Ice) (2)	017	05/20/2015 10:25	Field Sample
WO-017-005-24-51	F9L53	Soil/ START	Composite	SVOA/SVOASIM(21)	1107 (Ice) (2)	017	05/20/2015 10:30	Field Sample
WO-17-005-43-20150520	F9L54	Water/ START	Grab	SVOA/SVOASIM(21)	1110 (Ice) (4)	FieldQC	05/20/2015 16:00	
WO-020-001-43-20150518	F9L55	Water/ START	Grab	SVOA/SVOASIM(21)	1114 (Ice) (4)	FieldQC	05/18/2015 14:25	

Special Instructions: No Lab QC on SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	5/20/15 2100	FedEx	5/20/15 2100	

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

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

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

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

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	5/21/15 2100	FedEx	5/21/15 2100	

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

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

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

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

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	5/21/15 2100	FedEx	5/21/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 5/22/2015
CarrierName: FedEx
AirbillNo: 773663752377

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

No: 6-052215-084331-0063
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-006-002-44-20150522	F9L90	Water/ START	Grab	VOA(21)	1285 (HCl) (3)	FieldQC	05/22/2015 07:55	
WO-006-001-06-51_R	F9L91	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1287 (Ice), 1290 (Ice) (4)	017	05/22/2015 08:00	Field Sample
WO-006-001-12-51_R	F9L92	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1292 (Ice), 1295 (Ice) (4)	017	05/22/2015 08:05	Field Sample
WO-006-001-24-51_R	F9L93	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1297 (Ice), 1300 (Ice) (4)	006	05/22/2015 08:10	Field Sample
WO-006-002-06-51_R	F9L94	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1302 (Ice), 1305 (Ice) (4)	006	05/22/2015 08:15	Field Sample
WO-006-002-12-51_R	F9L95	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1307 (Ice), 1310 (Ice) (4)	006	05/22/2015 08:20	Field Sample

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	5/22/15 2100	FedEx	5/22/15 2100	

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ADDENDUM

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	VOA_Low_Med
VC14	The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD050W1, VSTD050W2
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9L37
	Toluene-d8 F9L37
	Ethylbenzene, Isopropylbenzene, Styrene, Tetrachloroethene, Toluene, Trichloroethene, m,p-Xylene, o-Xylene

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	Toluene F9L90
	1,2,3-Trichlorobenzene VBLKW1
	2-Butanone F9L47, F9L56
	Acetone F9L37, F9L47, F9L56, F9L90, VBLKW1
	1,2,4-Trichlorobenzene VBLKW1
	1,3-Dichlorobenzene VBLKW1
	Methylene chloride F9L37, F9L56, F9L90, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **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.
	F9L54, F9L55, F9L74
	Benzaldehyde F9L55, F9L74
	Acetophenone F9L54, F9L55, F9L74

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **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.
	F9L54, F9L55, F9L74
	Acenaphthene F9L54, F9L55, F9L74
	Naphthalene F9L54, F9L55, F9L74
	Benzo(a)pyrene F9L54, F9L55, F9L74

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA
BHT2	The following semivolatile water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9L55

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA_SIM
BHT2	The following semivolatile water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9L55

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Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Initial Calibration

Initial Calibration	VOA_Low_Med
VC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD005WE, VSTD010WE, VSTD050WE, VSTD100WE, VSTD200WE
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
Initial Calibration	**VOA_Low_Med**
VC20	The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	1,4-Dioxane-d8 VSTD005WE, VSTD010WE, VSTD050WE, VSTD100WE, VSTD200WE
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1

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Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **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.
	F9L54, F9L55, F9L74
	Phenol, 2-methoxy- F9L54, F9L55, F9L74
	13-Docosenamide, (Z)- F9L54
	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene- F9L54, F9L55, F9L74
	Vanillin F9L54, F9L55, F9L74
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.
	F9L54, F9L55, F9L74, SBLK34
	Unknown Pentanoic acid, 2,2,4-trimethyl-3-carboxyisoprop F9L55, F9L74, SBLK34
	Unknown Amylene hydrate F9L54, F9L55, F9L74, SBLK34
	Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl) F9L54

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	67-64-1	Acetone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	78-93-3	2-Butanone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-88-3	Toluene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC
45316	F9L37	F9L37	1514108001	W	05/29/2015	15:47:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/19/2015	FieldQC

45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	67-64-1	Acetone	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	78-93-3	2-Butanone	1.5	LJ	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-88-3	Toluene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L47	1514187001	W	05/29/2015	14:34:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC

45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	67-64-1	Acetone	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	78-93-3	2-Butanone	1.5	LJ	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-88-3	Toluene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L56	1514306001	W	05/29/2015	14:58:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC

45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	67-64-1	Acetone	10	U	ug/L	10	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	78-93-3	2-Butanone	10	U	ug/L	10	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	71-43-2	Benzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-10-1	4-Methyl-2-Pentanone	10	U	ug/L	10	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-88-3	Toluene	0.18	LJ	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	591-78-6	2-Hexanone	10	U	ug/L	10	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	100-42-5	Styrene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC
45316	F9L37	F9L90	1514328001	W	05/29/2015	15:22:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	05/22/2015	FieldQC

45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	108-95-2	Phenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	98-86-2	Acetophenone	0.68	LJ	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC

45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54	1514277001	W	05/28/2015	18:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	91-20-3	Naphthalene	0.038	LJ	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	83-32-9	Acenaphthene	0.038	LJ	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	50-32-8	Benzo(a)pyrene	0.087	LJ	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L54 (SIM)	1514277001	W	05/29/2015	16:32:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	05/20/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	100-52-7	Benzaldehyde	0.62	LJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	108-95-2	Phenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	111-44-4	Bis(2-chloroethyl)ether	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-57-8	2-Chlorophenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-48-7	2-Methylphenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	98-86-2	Acetophenone	0.79	LJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	106-44-5	4-Methylphenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	67-72-1	Hexachloroethane	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	98-95-3	Nitrobenzene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	78-59-1	Isophorone	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	88-75-5	2-Nitrophenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	105-67-9	2,4-Dimethylphenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	120-83-2	2,4-Dichlorophenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	106-47-8	4-Chloroaniline	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	87-68-3	Hexachlorobutadiene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	105-60-2	Caprolactam	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	59-50-7	4-Chloro-3-methylphenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC

45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	77-47-4	Hexachlorocyclopentadiene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	88-06-2	2,4,6-Trichlorophenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-95-4	2,4,5-Trichlorophenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	92-52-4	1,1'-Biphenyl	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-58-7	2-Chloronaphthalene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	88-74-4	2-Nitroaniline	10	UJ	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	131-11-3	Dimethylphthalate	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	606-20-2	2,6-Dinitrotoluene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	99-09-2	3-Nitroaniline	10	UJ	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	51-28-5	2,4-Dinitrophenol	10	UJ	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	100-02-7	4-Nitrophenol	10	UJ	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	132-64-9	Dibenzofuran	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	121-14-2	2,4-Dinitrotoluene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	84-66-2	Diethylphthalate	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	100-01-6	4-Nitroaniline	10	UJ	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	534-52-1	4,6-Dinitro-2-methylphenol	10	UJ	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	86-30-6	N-Nitrosodiphenylamine	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	101-55-3	4-Bromophenyl-phenylether	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	118-74-1	Hexachlorobenzene	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	1912-24-9	Atrazine	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	86-74-8	Carbazole	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	84-74-2	Di-n-butylphthalate	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	85-68-7	Butylbenzylphthalate	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	91-94-1	3,3'-Dichlorobenzidine	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	117-84-0	Di-n-octylphthalate	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55	1514277002	W	05/28/2015	19:14:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	UJ	ug/L	5.0	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	91-20-3	Naphthalene	0.052	LJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	91-57-6	2-Methylnaphthalene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	208-96-8	Acenaphthylene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	83-32-9	Acenaphthene	0.088	LJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	86-73-7	Fluorene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	87-86-5	Pentachlorophenol	0.20	UJ	ug/L	0.20	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	85-01-8	Phenanthrene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC

45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	120-12-7	Anthracene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	206-44-0	Fluoranthene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	129-00-0	Pyrene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	56-55-3	Benzo(a)anthracene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	218-01-9	Chrysene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	205-99-2	Benzo(b)fluoranthene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	207-08-9	Benzo(k)fluoranthene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	50-32-8	Benzo(a)pyrene	0.082	LJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	53-70-3	Dibenzo(a,h)anthracene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L55 (SIM)	1514277002	W	05/29/2015	17:02:00	191-24-2	Benzo(g,h,i)perylene	0.10	UJ	ug/L	0.10	05/18/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	100-52-7	Benzaldehyde	0.54	LJ	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	108-95-2	Phenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	111-44-4	Bis(2-chloroethyl)ether	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	98-86-2	Acetophenone	0.66	LJ	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	106-44-5	4-Methylphenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	621-64-7	N-Nitroso-di-n-propylamine	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	78-59-1	Isophorone	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-20-3	Naphthalene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	105-60-2	Caprolactam	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-57-6	2-Methylnaphthalene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	77-47-4	Hexachlorocyclopentadiene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	92-52-4	1,1'-Biphenyl	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	88-74-4	2-Nitroaniline	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	131-11-3	Dimethylphthalate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	208-96-8	Acenaphthylene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	99-09-2	3-Nitroaniline	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	83-32-9	Acenaphthene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	100-02-7	4-Nitrophenol	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	84-66-2	Diethylphthalate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	86-73-7	Fluorene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	7005-72-3	4-Chlorophenyl-phenylether	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	100-01-6	4-Nitroaniline	10	U	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	534-52-1	4,6-Dinitro-2-methylphenol	10	U	ug/L	10	05/21/2015	FieldQC

45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	86-30-6	N-Nitrosodiphenylamine	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	101-55-3	4-Bromophenyl-phenylether	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	118-74-1	Hexachlorobenzene	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	1912-24-9	Atrazine	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	87-86-5	Pentachlorophenol	10	U*	ug/L	10	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	85-01-8	Phenanthrene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	120-12-7	Anthracene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	86-74-8	Carbazole	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	206-44-0	Fluoranthene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	129-00-0	Pyrene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	85-68-7	Butylbenzylphthalate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	56-55-3	Benzo(a)anthracene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	218-01-9	Chrysene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	205-99-2	Benzo(b)fluoranthene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	207-08-9	Benzo(k)fluoranthene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	50-32-8	Benzo(a)pyrene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	53-70-3	Dibenzo(a,h)anthracene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	191-24-2	Benzo(g,h,i)perylene	5.0	U*	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74	1514306002	W	05/28/2015	19:47:00	58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	91-20-3	Naphthalene	0.045	LJ	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	83-32-9	Acenaphthene	0.090	LJ	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	86-73-7	Fluorene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	85-01-8	Phenanthrene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	120-12-7	Anthracene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	206-44-0	Fluoranthene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	129-00-0	Pyrene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	218-01-9	Chrysene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	50-32-8	Benzo(a)pyrene	0.083	LJ	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	05/21/2015	FieldQC
45316	F9L37	F9L74 (SIM)	1514306002	W	05/29/2015	17:31:00	191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	05/21/2015	FieldQC

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	**VOA_Low_Med**
VC14	The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD050W1, VSTD050W2
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9L37
	Toluene-d8 F9L37
	Ethylbenzene, Isopropylbenzene, Styrene, Tetrachloroethene, Toluene, Trichloroethene, m,p-Xylene, o-Xylene

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	Toluene F9L90
	1,2,3-Trichlorobenzene VBLKW1
	2-Butanone F9L47, F9L56
	Acetone F9L37, F9L47, F9L56, F9L90, VBLKW1
	1,2,4-Trichlorobenzene VBLKW1
	1,3-Dichlorobenzene VBLKW1
	Methylene chloride F9L37, F9L56, F9L90, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **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.
	F9L54, F9L55, F9L74
	Benzaldehyde F9L55, F9L74
	Acetophenone F9L54, F9L55, F9L74

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **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.
	F9L54, F9L55, F9L74
	Acenaphthene F9L54, F9L55, F9L74
	Naphthalene F9L54, F9L55, F9L74
	Benzo(a)pyrene F9L54, F9L55, F9L74

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA
BHT2	The following semivolatile water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9L55

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Holding Times

Holding Times	BNA_SIM
BHT2	The following semivolatile water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9L55

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **SOW** SOM01.2

Data Review Reports

Initial Calibration

Initial Calibration	**VOA_Low_Med**
VC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	1,4-Dioxane VSTD005WE, VSTD010WE, VSTD050WE, VSTD100WE, VSTD200WE
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
Initial Calibration	**VOA_Low_Med**
VC20	The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified.
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1
	1,4-Dioxane-d8 VSTD005WE, VSTD010WE, VSTD050WE, VSTD100WE, VSTD200WE
	F9L37, F9L47, F9L56, F9L90, VBLKW1, VHBLKW1

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** F9L37 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216252 **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.
	F9L54, F9L55, F9L74
	Phenol, 2-methoxy- F9L54, F9L55, F9L74
	13-Docosenamide, (Z)- F9L54
	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene- F9L54, F9L55, F9L74
	Vanillin F9L54, F9L55, F9L74
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.
	F9L54, F9L55, F9L74, SBLK34
	Unknown Pentanoic acid, 2,2,4-trimethyl-3-carboxyisoprop F9L55, F9L74, SBLK34
	Unknown Amylene hydrate F9L54, F9L55, F9L74, SBLK34
	Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl) F9L54

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.:	F9L37
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		
CONTRACT NO.	EP-W-11-037		
SOW NO.	SOM01.2		

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
1. **Inventory Sheet** (DC-2) (Do not number)			✓	
2. **SDG Case Narrative**	1	6	✓	
3. **SDG Cover Sheet/Traffic Report**	7	16	✓	
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			✓	

09/12/2015 RH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9L37
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)	n/a		✓	
[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]				
5. **Low/Med Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)	17	18	✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1, VOA-2)(if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV VOA)	19	19	✓	
GC/MS Instrument Performance Check (Form V VOA)	20	21	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	22	22	✓	
b. Sample Data	23	52		
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)	53	82		
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	83	86	✓	
Blank Data	87	101	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L37
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)	102	103	✓	
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)	104	104	✓	
GC/MS Instrument Performance Check (Form V SV)	105	106	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	107	108	✓	
b. Sample Data	109	154		
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)	155	192		
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	193	198	✓	
Blank Data	199	209	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	~~210~~ n/a 6.12.15		✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L37
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.]	210	250	✓	
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)			✓	

06/12/2015 DH

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9L37
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)			✓	

OH 06/12/2015

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

CASE NO.	45316	SDG NO.:	F9L37
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	251	276	✓	
Internal sample and sample extract transfer chain-of-custody records	277	291	✓	
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 6)	292	297	✓	
Chain of Custody Records (Copies)	298	306	✓	
Sample Tags	307	307	✓	
Sample Log-in Sheet (Lab & DC-1)	308	315	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

08/12/2015 CJ

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L37
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	316	317	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	n/a		✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab)	Desiree Hill (Signature)	Desiree Hill/DCO (Printed Name/Title)	6/12/15 (Date)
Verified by: (CLP Lab)	Roxanne Olson (Signature)	Roxanne Olson/Manager (Printed Name/Title)	6/12/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

960 W. LeVoy Drive
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www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9L37

WO No(s): 1514108, 1514187, 1514277, 1514304, 1514328

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	3	°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C

06/12/2015 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: 06/12/2015

SDG Narrative
Low/Medium Volatiles

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

Case: 45316
SDG: F9L37

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
F9L37	1514108001	1	None	F9L56	1514306001	1	None
F9L47	1514187001	1	None	F9L90	1514328001	1	None

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

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

Sample Preparation: This method has no extraction procedure for the low level water matrix. Prior to analysis the samples were spiked with internal standard/DMC solution and purged.

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

Initial Calibration and Calibration Verification: The five point initial calibration curve met the specified criteria in the SOW. All calibration verification standards met method specified criteria. For 5975-E the 130 ion was used in the quantitation of trichloroethene. Occasionally the system will fail to properly integrate a given compound. In these cases (including any listed below) a manual integration may be required. Any manual integration is noted by an "m" footnote on the quantitation report and a graphics page was included to show peak integration. Analytes which required a manual integration are summarized:

Sample	Initial Scan	Final Scan	Analyte

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

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

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

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

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

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.

6/11/15

Robert J. Haynes
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EPW11037
Case: 45316
SDG: F9L37
Laboratory Name: ALS Environmental

Sample Number	DCL Sample ID	Dilution	Fraction
F9L54	1514277001		SVOA, SIM
F9L55	1514277002		SVOA, SIM
F9L77	1514306002		SVOA, SIM

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

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

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

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

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

Blank Analysis: The extraction blank met method criteria

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

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

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

Miscellaneous Comments: Any manual edits were made in the calibration standards and samples for a variety of miscalled peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. In order to satisfy the requirements of Exhibit B Section 2.5.1 which asks for a listing of each instance of manual integration, these manual integrations are also listed in the table below. The explanation for each of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More

specifically, some of the more common mis-integrated peaks are described as follows: Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. 4-chloroaniline sometimes has the baseline drawn too high when the computer gets confused because of a near-eluting peak causing it to think the valley between peaks is actually the baseline. Bis(2-chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and 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

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 10, 2015

Dustin Calder
Chemist
Semivolatile Organic Analysis Section

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9L37

☐ 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) F9L37	7) F9L90	13)	19)
2) F9L47	8)	14)	20)
3) F9L54	9)	15)	21)
4) F9L55	10)	16)	22)
5) F9L56	11)	17)	23)
6) F9L74	12)	18)	24)

F9L37	F9L90
First Sample in SDG	Last Sample in SDG
05/20/15	05/23/15
First Sample Receipt Date	Last Sample Receipt Date

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

Signature: /S/ Jessica Helland

Date: 5/21/2015 4:56:40 PM

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

1514108

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015

CarrierName: FedEx

AirbillNo: ~~773641082663~~ 8066 6991 0601 Copy original in SDG F9K24

CHAIN OF CUSTODY RECORD

F9L37

Case #: 45316

Cooler #:

No: 6-051915-182457-0034

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-00-51	F9K24	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/19/2015 14:45	Good
WO-005-002-00-51	F9K40	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/19/2015 15:30	
WO-006-004-12-51	F9K48	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 09:25	
WO-006-004-24-51	F9K49	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 09:30	
WO-006-005-06-51	F9K51	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:45	
WO-006-006-12-51	F9K54	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 11:50	
WO-006-006-24-51	F9K55	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:00	
WO-006-002-24-51	F9K79	Soil/ START	Composite	VOA(21)	1025 (Ice) (3)	006	05/19/2015 08:50	
WO-006-003-06-51	F9K83	Soil/ START	Composite	VOA(21)	1035 (Ice) (3)	006	05/19/2015 10:15	
WO-006-003-12-51	F9K84	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:20	

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

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	D Dill WESTON	5/19/15 2100	Fed EX	5/19/15 2100	
	Fed Ex	05/20/2015 08:42	DATAC	05/20/2015 08:42	Good

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773641082663

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316
Cooler #:

No: 6-051915-182457-0034

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

Copy original in SDG F9K24

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-003-24-51	F9K85	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:25	Good
WO-006-004-06-51	F9K87	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 09:20	
WO-006-005-12-51	F9K90	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:50	
WO-006-005-24-51	F9K91	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:55	
WO-006-006-06-51	F9K93	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 11:45	
WO-006-007-12-51	F9K96	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:20	
WO-006-007-24-51	F9K97	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:25	
WO-006-007-06-51	F9KA1	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:15	
WO-006-008-06-51	F9KA3	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:40	
WO-006-008-12-51	F9KB6	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:45	

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

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

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015

CarrierName: FedEx

AirbillNo: 773641082663

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316

Cooler #:

No: 6-051915-182457-0034

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Copy Original in SDG F9KZ4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-008-24-51	F9KB7	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:50	Good
WO-006-003-24-52	F9L35	Soil/ START	Composite	VOA(21)	1029 (Ice) (3)	006	05/19/2015 10:30	
WO-006-006-12-52	F9L36	Soil/ START	Composite	VOA(21)	1038 (Ice) (3)	006	05/19/2015 11:55	
WO-006-006-44-20150519	F9L37	Water/ START	Grab	VOA(21)	1042 (HCl) (3)	FieldQC	05/19/2015 12:45	
WO-005-001-00-52	F9L38	Soil/ START	Composite	VOA(21)	1044 (Ice) (3)	005	05/19/2015 14:50	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Weston	5/19/15 2100	Fed Ex	5/19/15 2100	
	FedEx	05/20/2015 08:42	DATAC	05/20/2015 08:42	Good

1514187

USEPA CLP COC (LAB COPY)

DateShipped: 5/20/2015

CarrierName: FedEx

AirbillNo: 773650684748

Copy original in SDG F9KB7

CHAIN OF CUSTODY RECORD

Case #: 45316

Cooler #:

F9L37

No: 6-052015-172117-0042

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-003-00-51	F9K32	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 07:30	Good
WO-005-004-00-51	F9K36	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 08:00	
WO-005-005-00-51	F9K58	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 08:15	
WO-005-006-00-51	F9K64	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 08:40	
WO-005-004-00-52	F9L39	Soil/ START	Composite	VOA(21)	1049 (Ice) (3)	005	05/20/2015 08:05	
WO-017-005-00-51	F9L40	Soil/ START	Composite	VOA(21)	1054 (Ice) (3)	017	05/20/2015 08:10	
WO-017-006-00-51	F9L41	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	017	05/20/2015 08:55	
WO-017-001-00-51	F9L42	Soil/ START	Composite	VOA(21)	1059 (Ice) (3)	017	05/20/2015 09:15	
WO-017-002-00-51	F9L43	Soil/ START	Composite	VOA(21)	1064 (Ice) (3)	017	05/20/2015 09:20	
WO-017-004-00-51	F9L44	Soil/ START	Composite	VOA(21)	1069 (Ice) (3)	017	05/20/2015 09:40	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
18/sample	[signature] Weston	5/20/15 2100	Fedex	5/20/15 2100	
	[signature] FedEx 05/21/2015	05/21/2015 08:59	[signature] DATAC	05/21/2015 08:59	Good

USEPA CLP COC (LAB COPY)

DateShipped: 5/20/2015
CarrierName: FedEx
AirbillNo: 773650684748
Copy Original in SDG F9K B7

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:
F9L37

No: 6-052015-172117-0042

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-00-51	F9L45	Soil/ START	Composite	VOA(21)	1074 (Ice) (3)	017	05/20/2015 09:45	Good
WO-017-003-00-52	F9L46	Soil/ START	Composite	VOA(21)	1079 (Ice) (3)	017	05/20/2015 09:50	
WO-017-003-44-20150520	F9L47	Water/ START	Grab	VOA(21)	1083 (HCl) (3)	FieldQC	05/20/2015 17:20	
WO-017-006-06-51	F9L49	Soil/ START	Composite	VOA(21)	1086 (Ice) (3)	017	05/20/2015 14:50	
WO-017-006-12-51	F9L50	Soil/ START	Composite	VOA(21)	1091 (Ice) (3)	017	05/20/2015 14:55	
WO-017-005-06-51	F9L51	Soil/ START	Composite	VOA(21)	1096 (Ice) (3)	017	05/20/2015 10:20	
WO-017-005-12-51	F9L52	Soil/ START	Composite	VOA(21)	1101 (Ice) (3)	017	05/20/2015 10:25	
WO-017-005-24-51	F9L53	Soil/ START	Composite	VOA(21)	1106 (Ice) (3)	017	05/20/2015 10:30	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
18 samples	[illegible] Weston	5/20/15 2100	Fedex	5/20/15 2100	
	Fed EX	05/21/2015 08:59	[illegible] DATAC	05/21/2015 08:59	Good

1514277

USEPA CLP COC (REGION COPY)

DateShipped: 5/20/2015
CarrierName: FedEx
AirbillNo: 773651528914

Copy Original in SDG F9K24

CHAIN OF CUSTODY RECORD F9L37

Wilcox Oil
Case #: 45316
Cooler #:

No: 6-052015-180419-0045

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-017-006-06-51	F9L49	Soil/ START	Composite	SVOA/SVOASIM(21)	1087 (Ice) (2)	017	05/20/2015 14:50	Field Sample
WO-017-005-12-51	F9L52	Soil/ START	Composite	SVOA/SVOASIM(21)	1102 (Ice) (2)	017	05/20/2015 10:25	Field Sample
WO-017-005-24-51	F9L53	Soil/ START	Composite	SVOA/SVOASIM(21)	1107 (Ice) (2)	017	05/20/2015 10:30	Field Sample
WO-17-005-43-20150520	F9L54	Water/ START	Grab	SVOA/SVOASIM(21)	1110 (Ice) (4)	FieldQC	05/20/2015 16:00	
WO-020-001-43-20150518	F9L55	Water/ START	Grab	SVOA/SVOASIM(21)	1114 (Ice) (4)	FieldQC	05/18/2015 14:25	

Special Instructions: No Lab QC on SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	Weston	5/20/15 2100	Fed Ex	5/20/15 2100	
	FedEx	5/22/2015 8:38	DATA	5/22/2015 8:38	good

1514306

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015

CarrierName: FedEx

AirbillNo: 773662359606

Copy original in SDG F9L58

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316

Cooler #:

No: 6-052115-180330-0062

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

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

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

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

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653297378

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316
Cooler #:

No: 6-052115-155002-0052

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

Copy original in Sub F9L58

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

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

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

1514328

USEPA CLP COC (LAB COPY)

DateShipped: 5/22/2015
CarrierName: FedEx
AirbillNo: 773663752377

CHAIN OF CUSTODY RECORD

F9L37

Case #: ~~45299~~ 45316 NE5/23/2015
Cooler #:

No: 6-052215-084331-0063

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-006-002-44-20150522	F9L90	Water/ START	Grab	VOA(21)	1285 (HCl) (3)	FieldQC	05/22/2015 07:55	SDG Final Sample
WO-006-001-06-51_R	F9L91	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1287 (Ice), 1290 (Ice) (4)	017	05/22/2015 08:00	
WO-006-001-12-51_R	F9L92	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1292 (Ice), 1295 (Ice) (4)	017	05/22/2015 08:05	
WO-006-001-24-51_R	F9L93	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1297 (Ice), 1300 (Ice) (4)	006	05/22/2015 08:10	
WO-006-002-06-51_R	F9L94	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1302 (Ice), 1305 (Ice) (4)	006	05/22/2015 08:15	
WO-006-002-12-51_R	F9L95	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1307 (Ice), 1310 (Ice) (4)	006	05/22/2015 08:20	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
6 samples	Weston	5/22/15 1325	Fedex	5/22/15 1325	
	Fedex	5/23/2015 9:16	Meredith Edwards DATAL	5/23/2015 9:16	good

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F9L37	119	123	95	99	119	124	120
02	F9L47	115	120	92	99	113	117	115
03	F9L56	115	118	93	93	114	116	111
04	F9L90	117	122	92	107	116	122	115
05	VBLKW1	116	116	91	103	114	117	113
06	VHBLKW1	119	121	95	106	116	117	116
07								
08								
09								
10								
11								
12								
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14								
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16								
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25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F9L37	119	122 *	111	103	125	108	122	1
02	F9L47	112	117	107	100	122	104	115	0
03	F9L56	110	115	103	96	111	100	113	0
04	F9L90	114	117	108	111	124	111	117	0
05	VBLKW1	113	116	106	106	124	106	114	0
06	VHBLKW1	114	119	106	104	109	103	116	0
07									
08									
09									
10									
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28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Lab File ID: EP57BLK Lab Sample ID: 449329

Instrument ID: 5975-E

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/29/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 14:08

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9L47	1514187001	EP58FL47	14:34
02	F9L56	1514306001	EP59FL56	14:58
03	F9L90	1514328001	EP60FL90	15:22
04	F9L37	1514108001	EP61FL37	15:47
05	VHBLKW1	449328	EP62HBLK	16:20
06				
07				
08				
09				
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COMMENTS:

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

EPA SAMPLE NO.: BFBWE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Lab File ID: EP10S50 BFB Injection Date: 05/28/2015

Instrument ID: 5975-E BFB Injection Time: 09:40

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.2
75	30.0 - 80.0% of mass 95	52.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 120% of mass 95	90.5
175	5.0 - 9.0% of mass 174	7.8 (8.6) 1
176	95.0 - 101% of mass 174	88.8 (98.2) 1
177	5.0 - 9.0% of mass 176	5.6 (6.3) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050WE	VSTD050WE	EP15S50	05/28/2015	12:03
02	VSTD005WE	VSTD005WE	EP17S05	05/28/2015	13:15
03	VSTD010WE	VSTD010WE	EP18S10	05/28/2015	13:39
04	VSTD100WE	VSTD100WE	EP19S100	05/28/2015	14:03
05	VSTD200WE	VSTD200WE	EP20S200	05/28/2015	14:27
06					
07					
08					
09					
10					
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12					
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14					
15					
16					
17					
18					
19					
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21					
22					

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

EPA SAMPLE NO.: BFBW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Lab File ID: EP56S50 BFB Injection Date: 05/29/2015

Instrument ID: 5975-E BFB Injection Time: 13:43

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 80.0% of mass 95	50.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.0) 1
174	50.0 - 120% of mass 95	86.2
175	5.0 - 9.0% of mass 174	7.1 (8.3) 1
176	95.0 - 101% of mass 174	86.2 (100.0) 1
177	5.0 - 9.0% of mass 176	5.7 (6.6) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050W1	VSTD050W1	EP56S50	05/29/2015	13:43
02	VBLKW1	449329	EP57BLK	05/29/2015	14:08
03	F9L47	1514187001	EP58FL47	05/29/2015	14:34
04	F9L56	1514306001	EP59FL56	05/29/2015	14:58
05	F9L90	1514328001	EP60FL90	05/29/2015	15:22
06	F9L37	1514108001	EP61FL37	05/29/2015	15:47
07	VHBLKW1	449328	EP62HBLK	05/29/2015	16:20
08	VSTD050W2	VSTD050W2	EP63S50	05/29/2015	16:50
09					
10					
11					
12					
13					
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18					
19					
20					
21					
22					

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

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W1 Date Analyzed: 05/29/2015

Lab File ID (Standard): EP56S50 Time Analyzed: 13:43

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

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1376379	10.60	1519398	7.40	761648	13.00
	UPPER LIMIT	2752758	11.10	3038796	7.90	1523296	13.50
	LOWER LIMIT	688190	10.10	759699	6.90	380824	12.50
	EPA SAMPLE NO.						
01	VBLKW1	1309690	10.60	1354397	7.40	658357	13.00
02	F9L47	1327239	10.60	1402297	7.40	661249	13.00
03	F9L56	1334335	10.61	1364979	7.41	664224	13.00
04	F9L90	1350456	10.60	1395714	7.40	679997	13.00
05	F9L37	1255470	10.60	1316289	7.40	626254	13.00
06	VHBLKW1	1308558	10.60	1365656	7.40	650976	13.00
07							
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19							
20							
21							
22							

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

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

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

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

EPA SAMPLE NO.

F9L37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514108001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP61FL37

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2015

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.0	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.46	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

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

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

EPA SAMPLE NO.

F9L37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514108001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP61FL37

Level: (TRACE/LOW/MED) LOW Date Received: 05/20/2015

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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

EPA SAMPLE NO.

F9L37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514108001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP61FL37

Level: (TRACE or LOW/MED) LOW Date Received: 05/20/2015

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

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

[1] EPA-designated Registry Number.

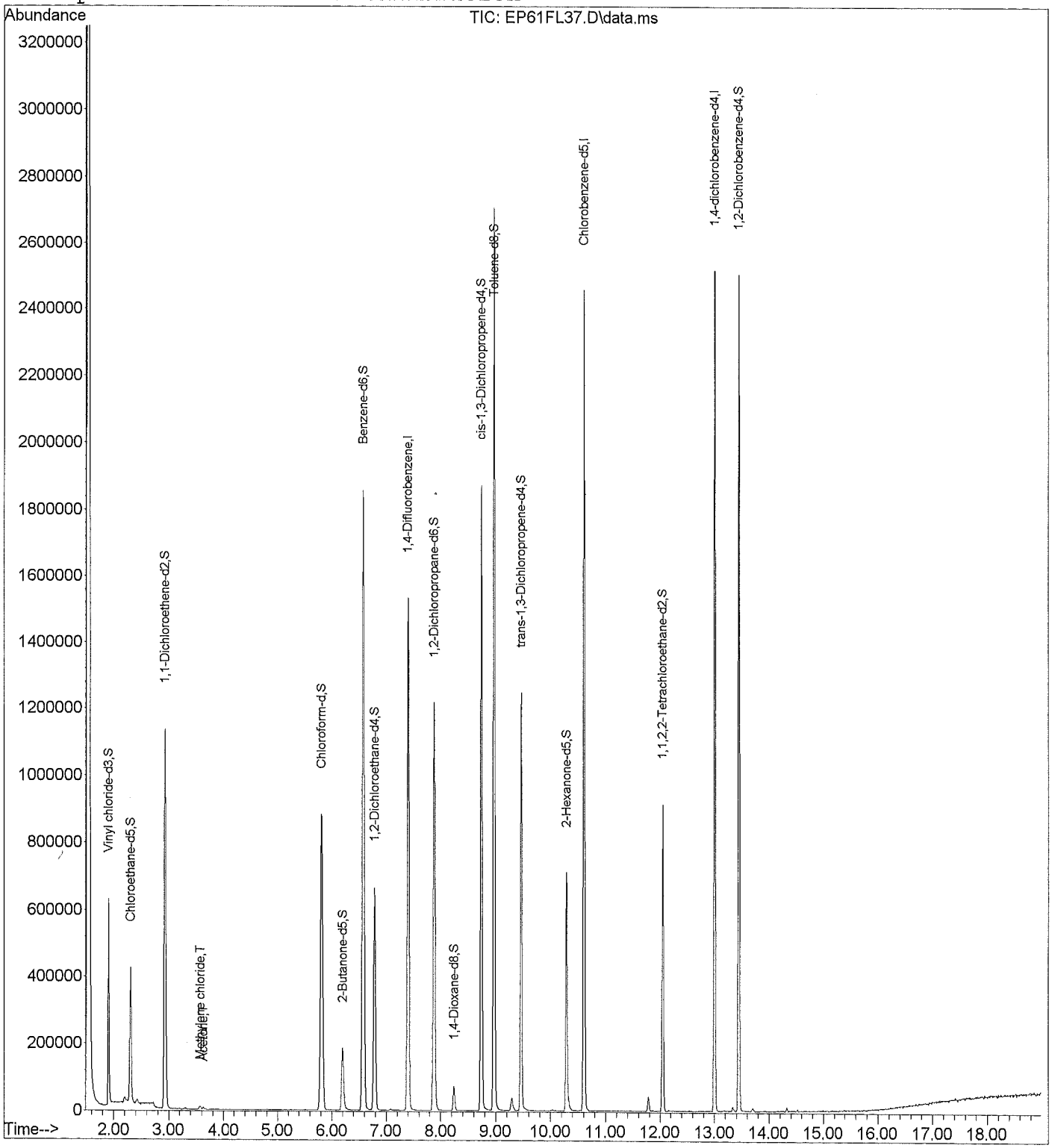
Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP61FL37.D Vial: 7
Acq Time : 05/29/2015 15:47 Operator: RJH
Sample : 1514108001 F9L37 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:49:47 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP61FL37.D Vial: 7
Acq Time : 05/29/2015 15:47 Operator: RJH
Sample : 1514108001 F9L37 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:49:47 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1316289	50.0000 ug/Kg	79.83
30) Chlorobenzene-d5	10.60	117	1255470	50.0000 ug/Kg	82.45
62) 1,4-dichlorobenzene-d4	13.00	152	626254	50.0000 ug/Kg	74.38
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	468731	59.4734 ug/Kg	118.95%
8) Chloroethane-d5	2.31	69	386983	61.7447 ug/Kg	123.49%
11) 1,1-Dichloroethene-d2	2.93	63	897104	47.3260 ug/Kg	94.65%
22) 2-Butanone-d5	6.19	46	318443	99.4984 ug/Kg	99.50%
25) Chloroform-d	5.81	84	952967	59.5502 ug/Kg	119.10%
27) 1,2-Dichloroethane-d4	6.78	65	558373	61.8666 ug/Kg	123.73%#
29) 1,4-Dioxane-d8	8.24	96	51129	1251.2146 ug/Kg	125.12%
35) Benzene-d6	6.58	84	1933918	59.9346 ug/Kg	119.87%
39) 1,2-Dichloropropane-d6	7.88	67	581386	59.7488 ug/Kg	119.50%
42) cis-1,3-Dichloropropene-d4	8.74	79	1018677	58.2221 ug/Kg	116.44%
44) trans-1,3-Dichloropropene-	9.46	79	636286	55.5345 ug/Kg	111.07%
49) Toluene-d8	8.97	98	1787443	61.2089 ug/Kg	122.42%#
52) 2-Hexanone-d5	10.28	63	212010	103.0401 ug/Kg	103.04%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	452932	54.0779 ug/Kg	108.16%
67) 1,2-Dichlorobenzene-d4	13.44	152	630399	60.8969 ug/Kg	121.79%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	8777	2.0238 ug/Kg	94
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	3811	0.4600 ug/Kg	76
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

000027

Quantitation Report

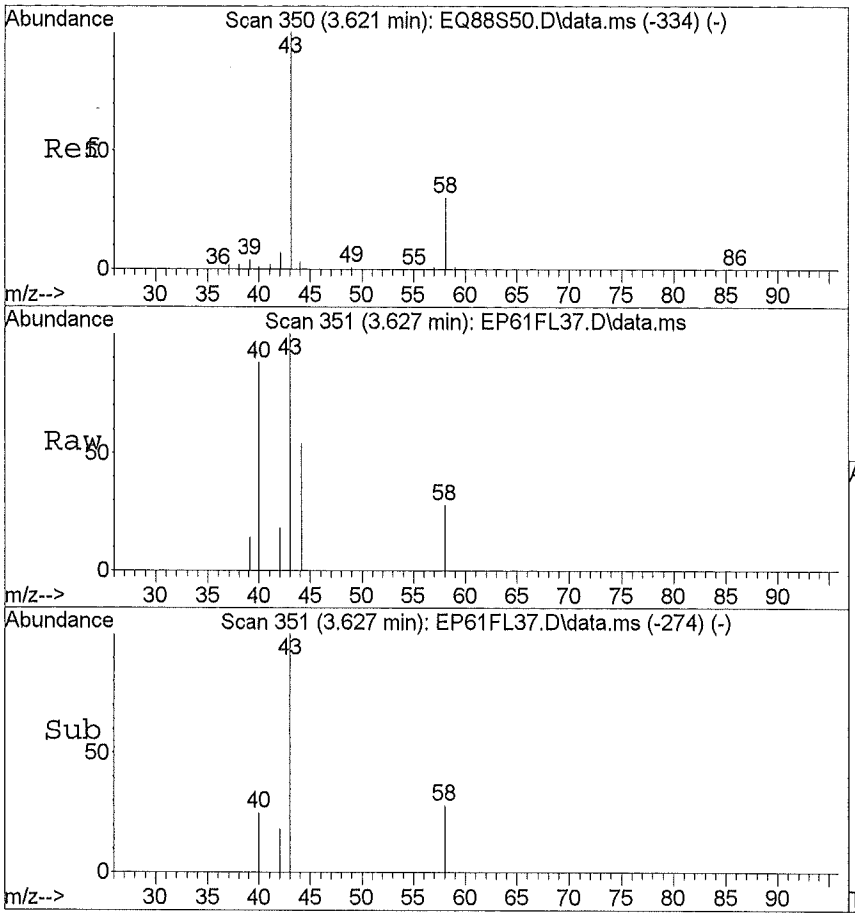
Data File : C:\msdchem\1\Data by...E\29MAY15E\EP61FL37.D Vial: 7
Acq Time : 05/29/2015 15:47 Operator: RJH
Sample : 1514108001 F9L37 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:49:47 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

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

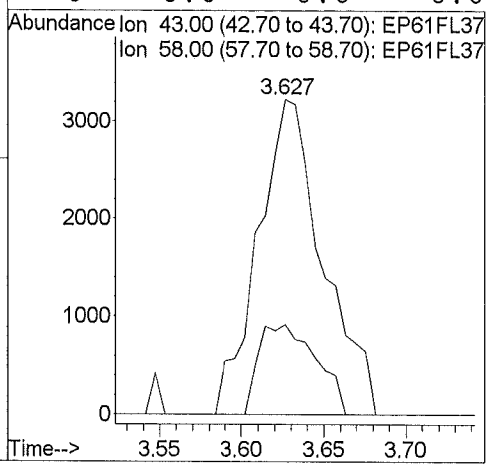
(#) = qualifier out of range (m) = manual integration

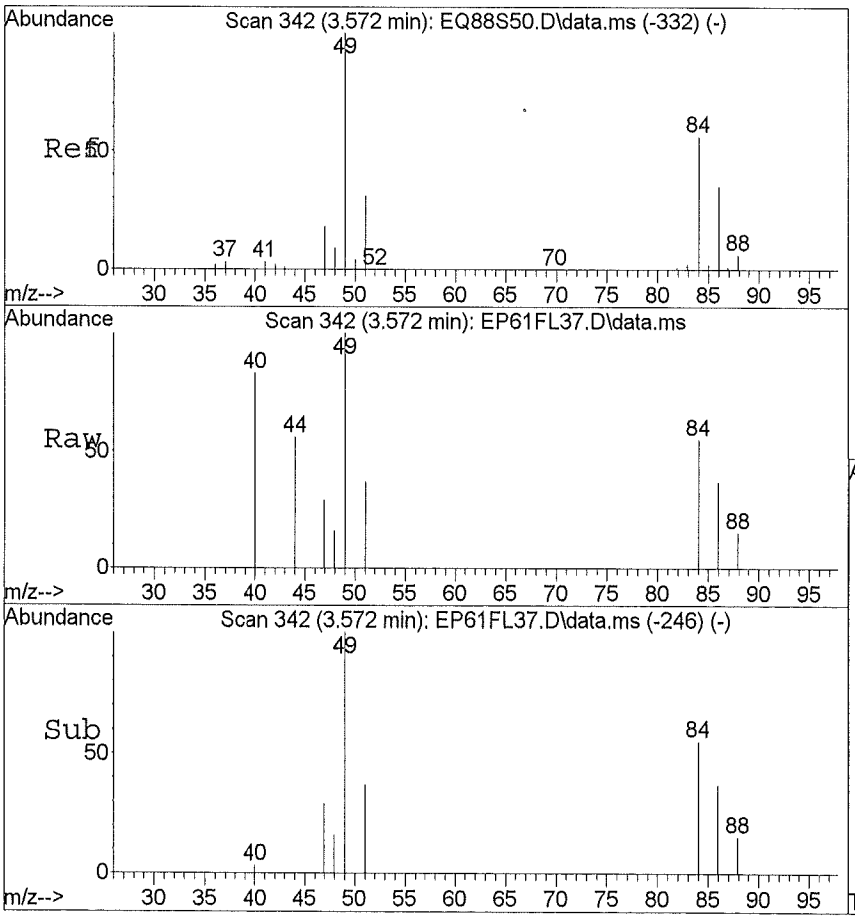


#13
Acetone
Concen: 2.02 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EP61FL37.D
Acq: 05/29/2015 15:47

Tgt Ion:43 Resp: 8777

Ion	Ratio	Lower	Upper
43	100		
58	25.4	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

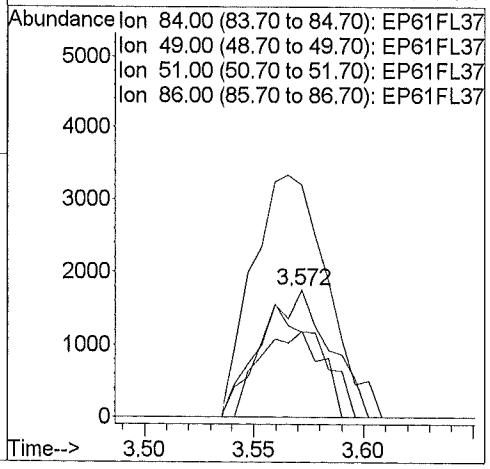




#16
Methylene chloride
Concen: 0.46 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EP61FL37.D
Acq: 05/29/2015 15:47

Tgt Ion:84 Resp: 3811

Ion	Ratio	Lower	Upper
84	100		
49	206.0	84.4	253.2
51	61.1	25.7	77.0
86	81.4	31.6	95.0



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

EPA SAMPLE NO.

F9L47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514187001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP58FL47

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2015

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.2	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	1.5	J
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

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

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

EPA SAMPLE NO.: F9L47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514187001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP58FL47

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2015

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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

EPA SAMPLE NO.: F9L47

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514187001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP58FL47

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2015

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

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

[1] EPA-designated Registry Number.

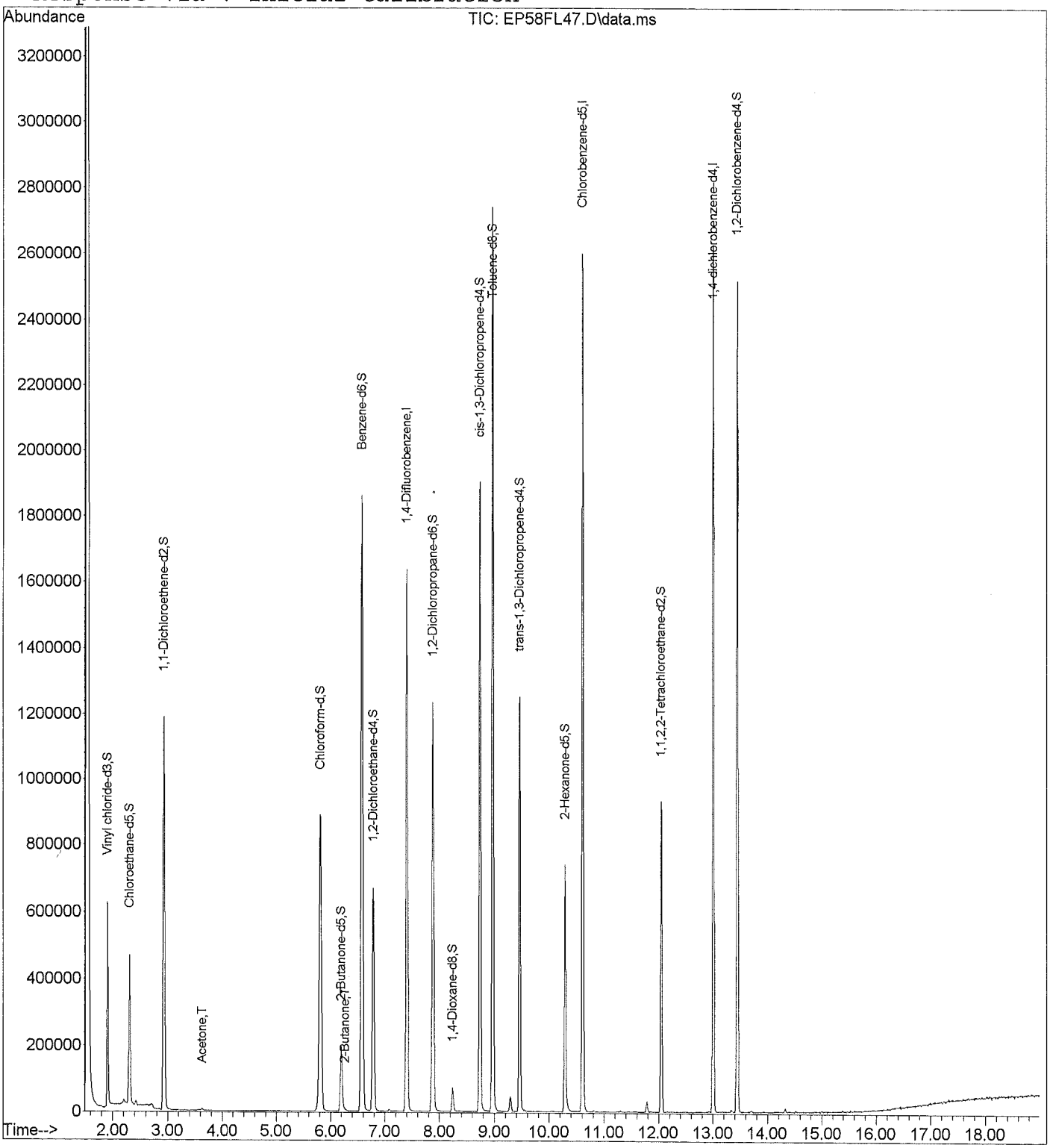
Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP58FL47.D Vial: 4
Acq Time : 05/29/2015 14:34 Operator: RJH
Sample : 1514187001 F9L47 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:46:40 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP58FL47.D Vial: 4
Acq Time : 05/29/2015 14:34 Operator: RJH
Sample : 1514187001 F9L47 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:46:40 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1402297	50.0000 ug/Kg	85.05
30) Chlorobenzene-d5	10.60	117	1327239	50.0000 ug/Kg	87.16
62) 1,4-dichlorobenzene-d4	13.00	152	661249	50.0000 ug/Kg	78.54
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	484699	57.7274 ug/Kg	115.45%
8) Chloroethane-d5	2.31	69	399404	59.8179 ug/Kg	119.64%
11) 1,1-Dichloroethene-d2	2.93	63	929852	46.0449 ug/Kg	92.09%
22) 2-Butanone-d5	6.19	46	338969	99.4158 ug/Kg	99.42%
25) Chloroform-d	5.81	84	960372	56.3322 ug/Kg	112.66%
27) 1,2-Dichloroethane-d4	6.78	65	563490	58.6043 ug/Kg	117.21%
29) 1,4-Dioxane-d8	8.24	96	53142	1220.7132 ug/Kg	122.07%
35) Benzene-d6	6.58	84	1969286	57.7306 ug/Kg	115.46%
39) 1,2-Dichloropropane-d6	7.88	67	576950	56.0867 ug/Kg	112.17%
42) cis-1,3-Dichloropropene-d4	8.74	79	1039348	56.1913 ug/Kg	112.38%
44) trans-1,3-Dichloropropene-	9.46	79	646016	53.3348 ug/Kg	106.67%
49) Toluene-d8	8.97	98	1801512	58.3548 ug/Kg	116.71%
52) 2-Hexanone-d5	10.28	63	218147	100.2897 ug/Kg	100.29%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	462335	52.2157 ug/Kg	104.43%
67) 1,2-Dichlorobenzene-d4	13.44	152	626210	57.2909 ug/Kg	114.58%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	9935	2.1503 ug/Kg	93
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.27	43	7754	1.5211 ug/Kg#	63
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

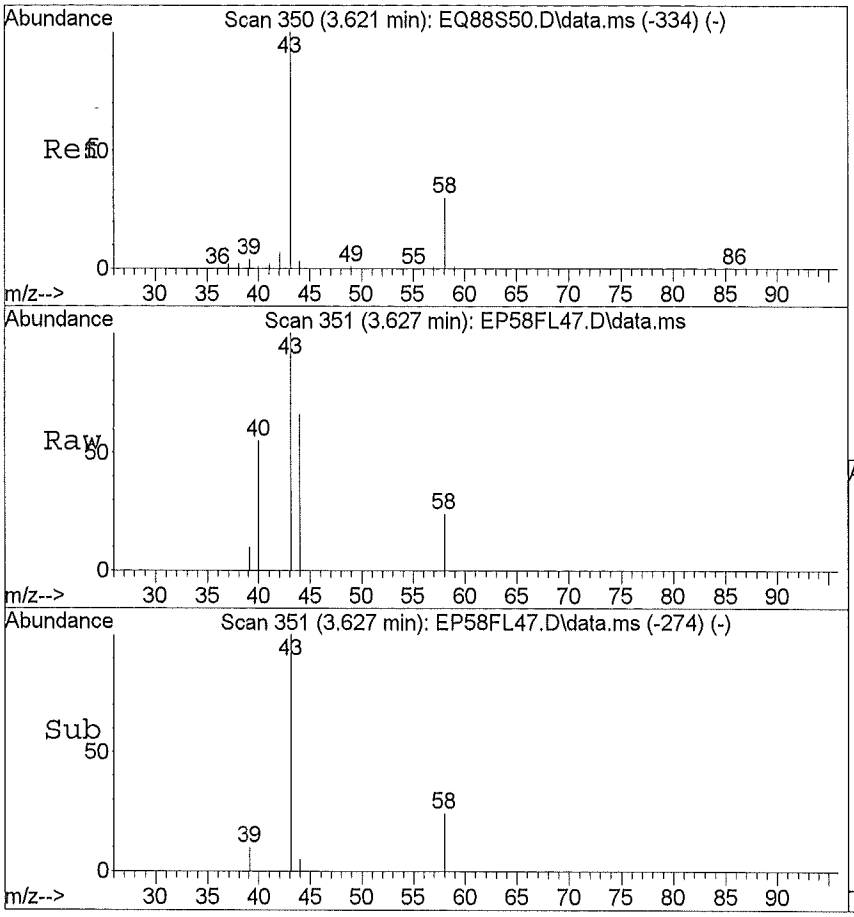
Data File : C:\msdchem\1\Data by...E\29MAY15E\EP58FL47.D Vial: 4
Acq Time : 05/29/2015 14:34 Operator: RJH
Sample : 1514187001 F9L47 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:46:40 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

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

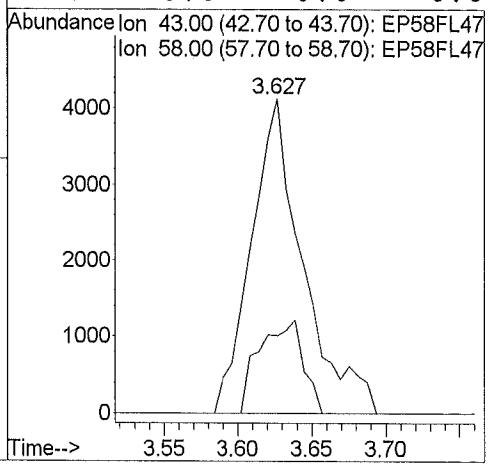
(#) = qualifier out of range (m) = manual integration

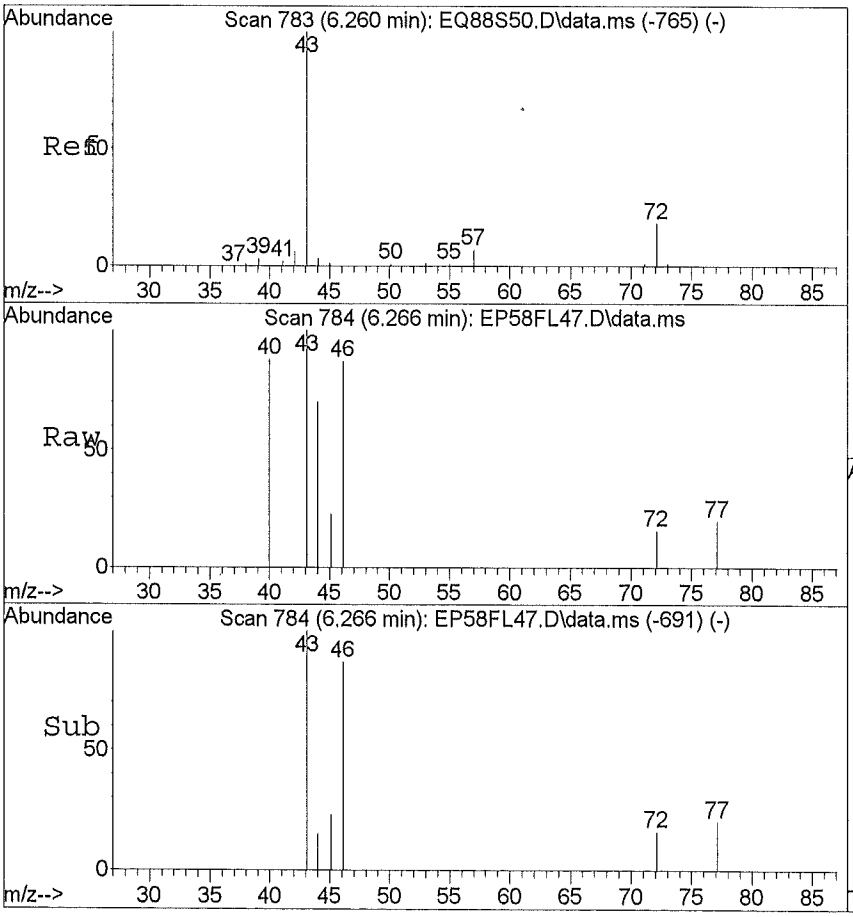


#13
Acetone
Concen: 2.15 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EP58FL47.D
Acq: 05/29/2015 14:34

Tgt Ion:43 Resp: 9935

Ion	Ratio	Lower	Upper
43	100		
58	25.0	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

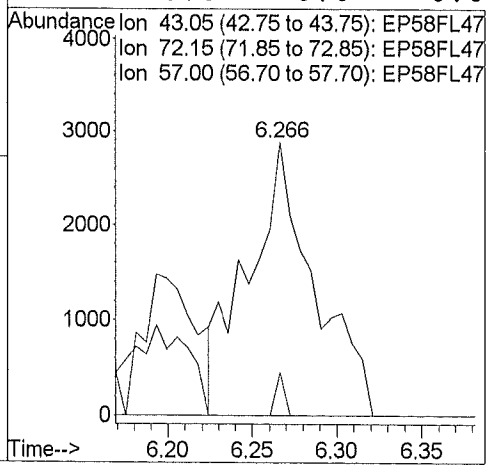




#21
2-Butanone
Concen: 1.52 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EP58FL47.D
Acq: 05/29/2015 14:34

Tgt Ion:43.05 Resp: 7754

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



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

EPA SAMPLE NO.

F9L56

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP59FL56

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

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.3	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.24	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	1.5	J
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

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

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

EPA SAMPLE NO.: F9L56

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP59FL56

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

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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

EPA SAMPLE NO.: F9L56

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP59FL56

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

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

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

[1] EPA-designated Registry Number.

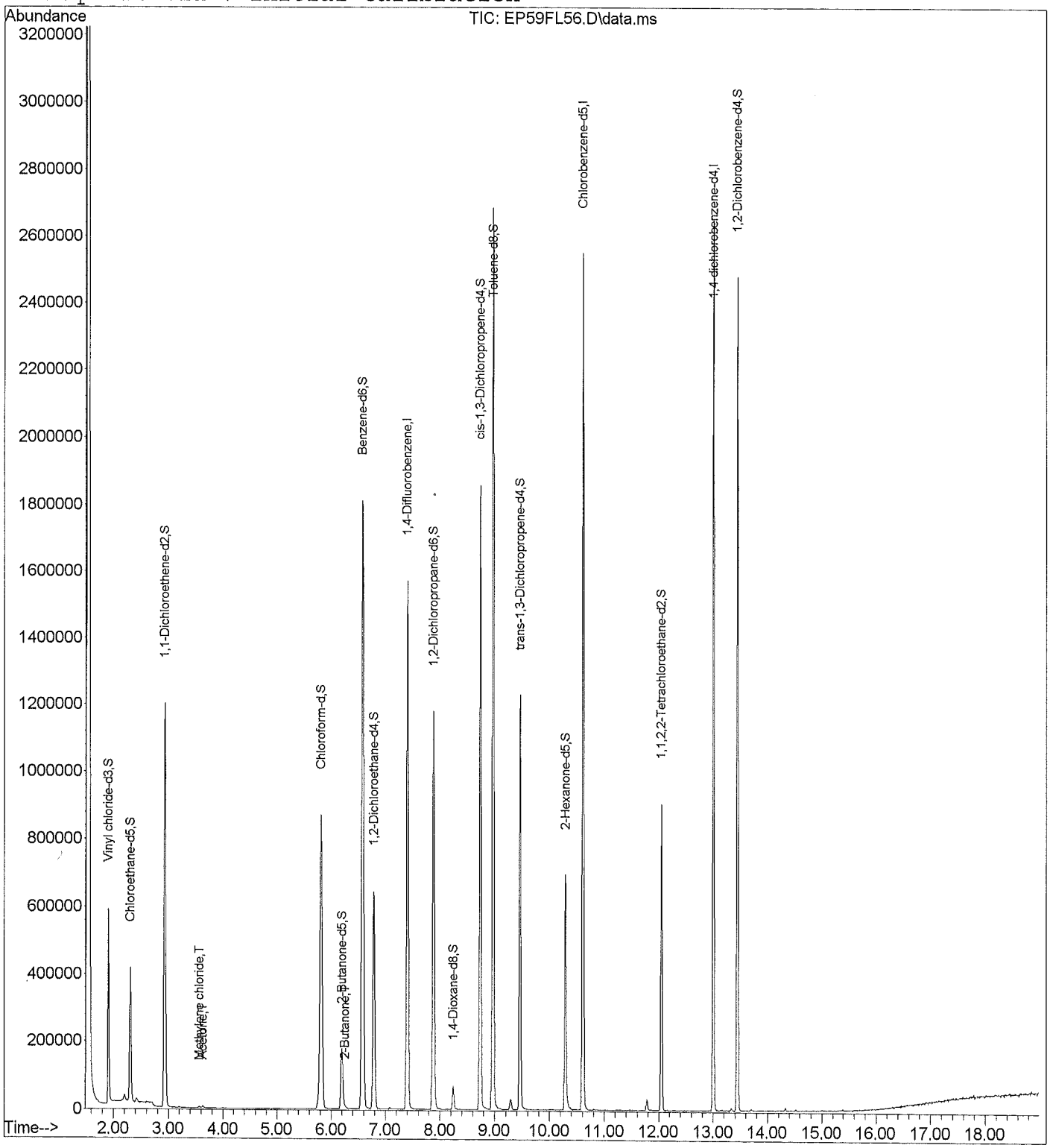
Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP59FL56.D Vial: 5
Acq Time : 05/29/2015 14:58 Operator: RJH
Sample : 1514306001 F9L56 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:47:38 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP59FL56.D Vial: 5
Acq Time : 05/29/2015 14:58 Operator: RJH
Sample : 1514306001 F9L56 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:47:38 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1364979	50.0000 ug/Kg	82.79
30) Chlorobenzene-d5	10.61	117	1334335	50.0000 ug/Kg	87.63
62) 1,4-dichlorobenzene-d4	13.00	152	664224	50.0000 ug/Kg	78.89
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	469804	57.4832 ug/Kg	114.97%
8) Chloroethane-d5	2.31	69	384683	59.1883 ug/Kg	118.38%
11) 1,1-Dichloroethene-d2	2.93	63	910952	46.3423 ug/Kg	92.68%
22) 2-Butanone-d5	6.19	46	309466	93.2443 ug/Kg	93.24%
25) Chloroform-d	5.81	84	946995	57.0662 ug/Kg	114.13%
27) 1,2-Dichloroethane-d4	6.78	65	544236	58.1493 ug/Kg	116.30%
29) 1,4-Dioxane-d8	8.24	96	46950	1107.9633 ug/Kg	110.80%
35) Benzene-d6	6.58	84	1910866	55.7201 ug/Kg	111.44%
39) 1,2-Dichloropropane-d6	7.88	67	566955	54.8220 ug/Kg	109.64%
42) cis-1,3-Dichloropropene-d4	8.74	79	1014331	54.5472 ug/Kg	109.09%
44) trans-1,3-Dichloropropene-	9.46	79	630167	51.7497 ug/Kg	103.50%
49) Toluene-d8	8.97	98	1778254	57.2951 ug/Kg	114.59%
52) 2-Hexanone-d5	10.28	63	209561	95.8301 ug/Kg	95.83%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	446126	50.1171 ug/Kg	100.23%
67) 1,2-Dichlorobenzene-d4	13.44	152	621873	56.6393 ug/Kg	113.28%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	10308	2.2920 ug/Kg	93
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	2100	0.2445 ug/Kg	81
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.26	43	7635	1.5387 ug/Kg#	81
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

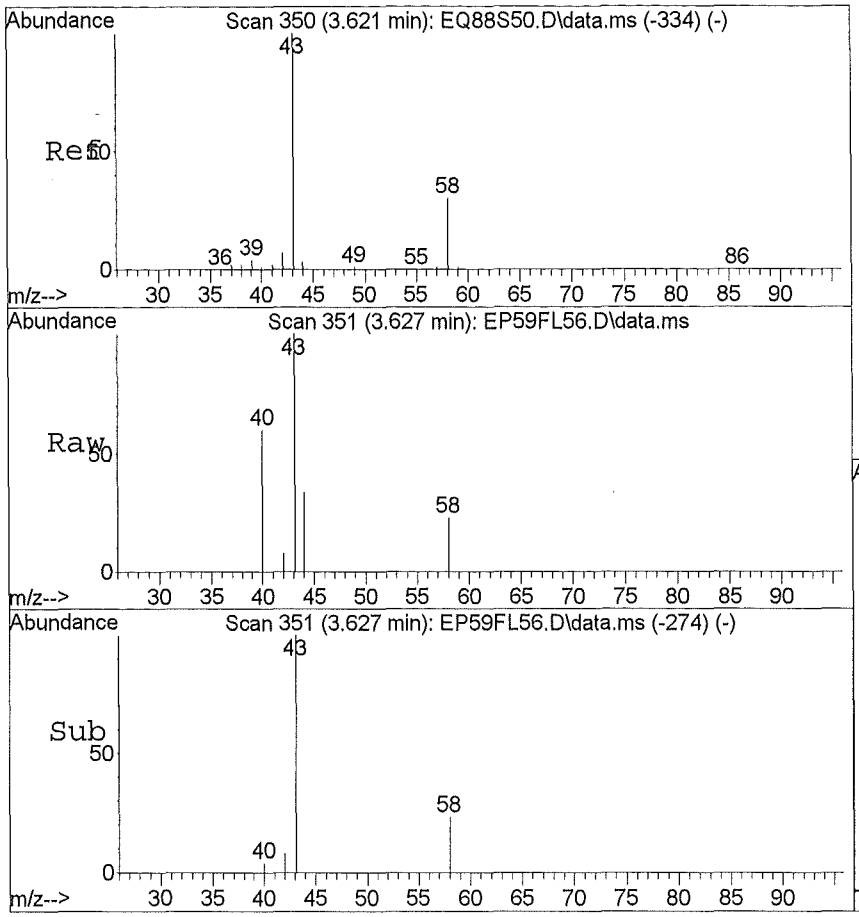
Data File : C:\msdchem\1\Data by...E\29MAY15E\EP59FL56.D Vial: 5
Acq Time : 05/29/2015 14:58 Operator: RJH
Sample : 1514306001 F9L56 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:47:38 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

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

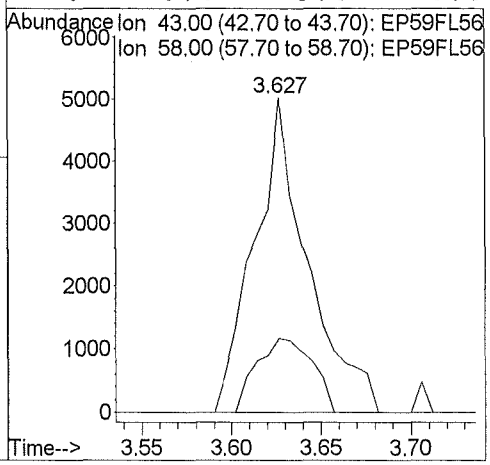
(#) = qualifier out of range (m) = manual integration

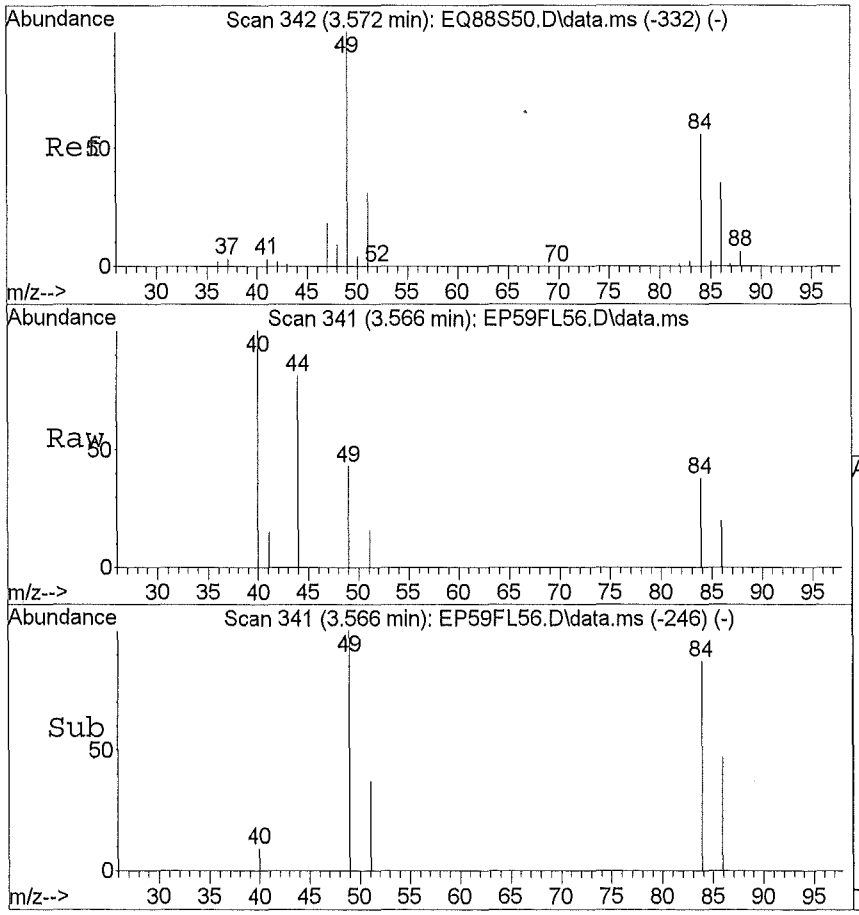


#13
Acetone
Concen: 2.29 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EP59FL56.D
Acq: 05/29/2015 14:58

Tgt Ion:43 Resp: 10308

Ion	Ratio	Lower	Upper
43	100		
58	24.5	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

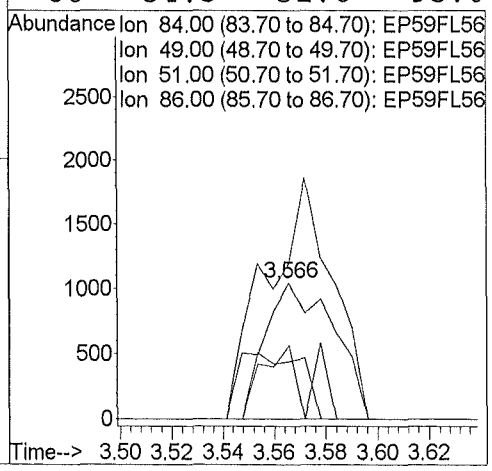


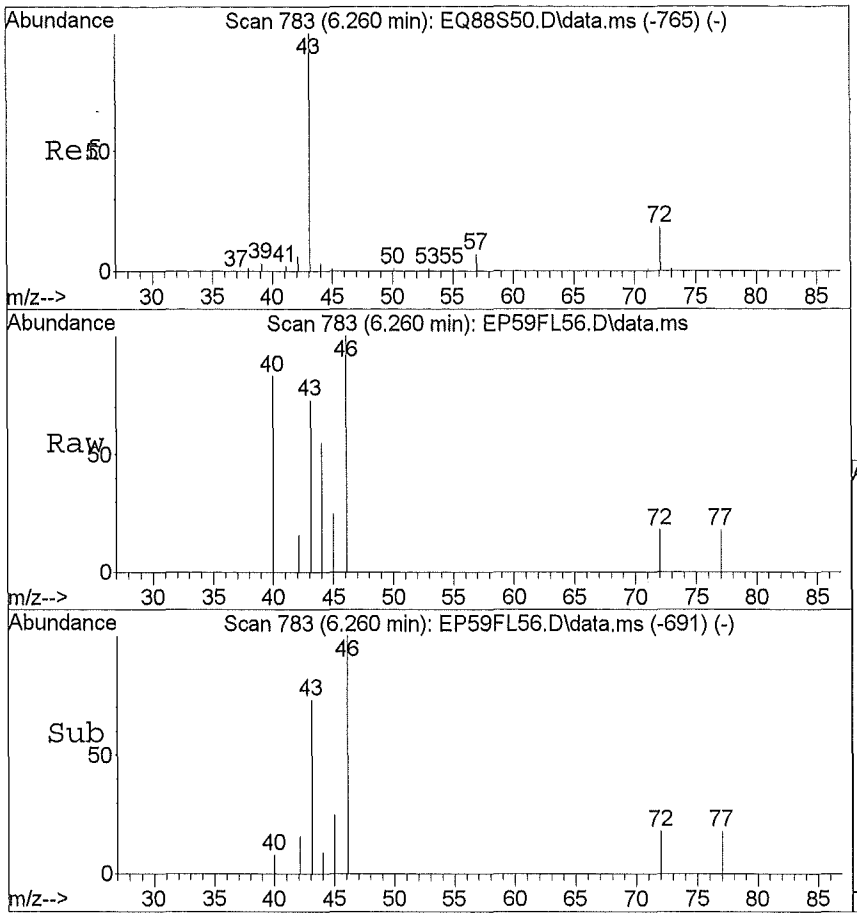


#16
Methylene chloride
Concen: 0.24 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EP59FL56.D
Acq: 05/29/2015 14:58

Tgt Ion:84 Resp: 2100

Ion	Ratio	Lower	Upper
84	100		
49	154.8	84.4	253.2
51	32.1	25.7	77.0
86	34.3	31.6	95.0

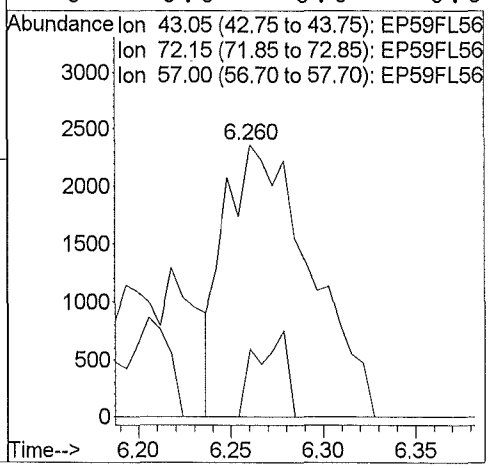




#21
2-Butanone
Concen: 1.54 ug/Kg
RT: 6.26 min Scan# 783
Delta R.T. 0.00 min
Lab File: EP59FL56.D
Acq: 05/29/2015 14:58

Tgt Ion:43.05 Resp: 7635

Ion	Ratio	Lower	Upper
43	100		
72	11.4	15.5	23.3#
57	0.0	6.2	9.4#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.: F9L90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514328001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP60FL90

Level: (TRACE/LOW/MED) LOW Date Received: 05/23/2015

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.1	JB
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.22	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

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

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

EPA SAMPLE NO.: F9L90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514328001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP60FL90

Level: (TRACE/LOW/MED) LOW Date Received: 05/23/2015

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.18	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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

EPA SAMPLE NO.: F9L90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514328001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP60FL90

Level: (TRACE or LOW/MED) LOW Date Received: 05/23/2015

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

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

[1] EPA-designated Registry Number.

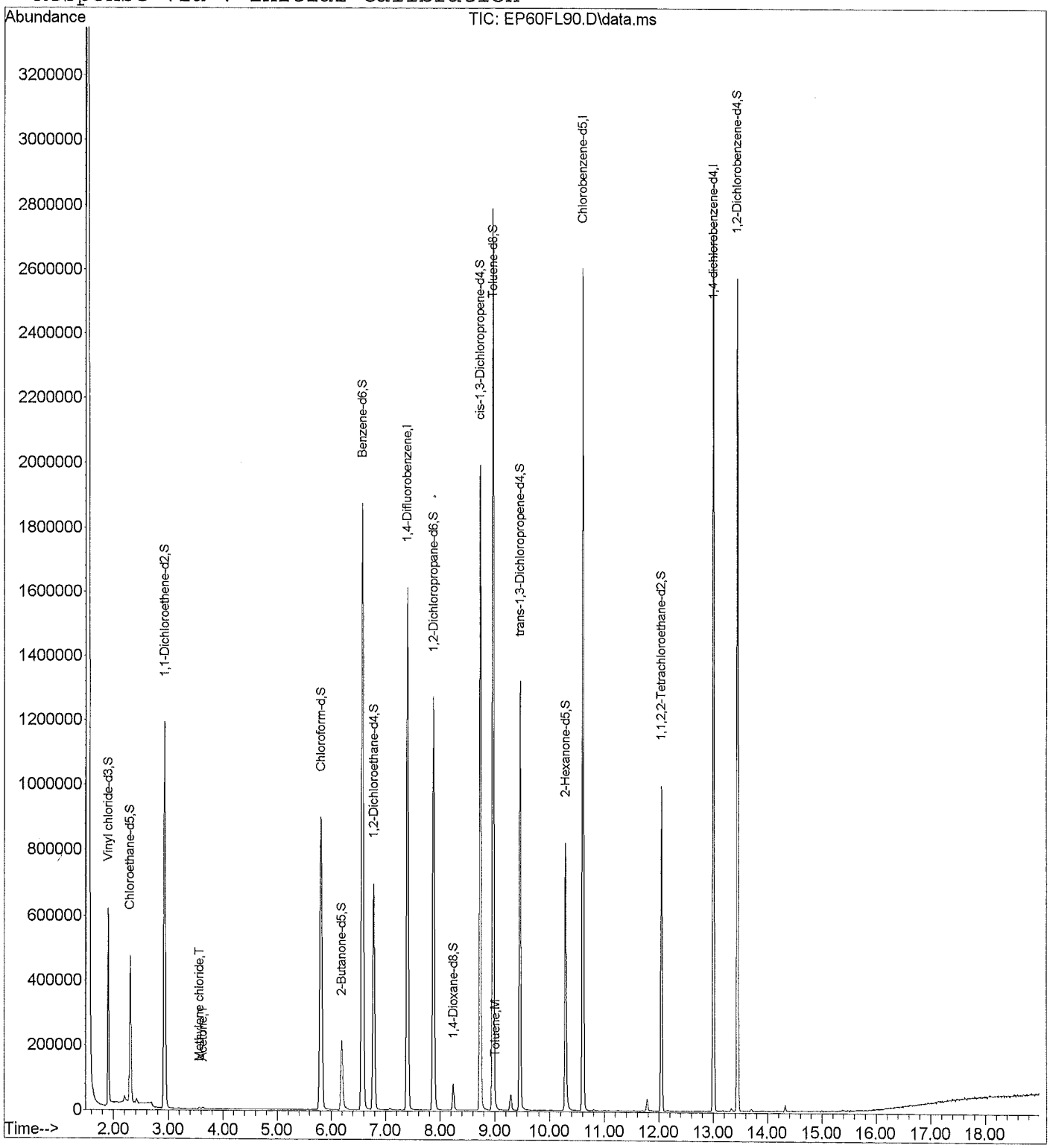
Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP60FL90.D Vial: 6
Acq Time : 05/29/2015 15:22 Operator: RJH
Sample : 1514328001 F9L90 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:48:55 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

AB 6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP60FL90.D Vial: 6
Acq Time : 05/29/2015 15:22 Operator: RJH
Sample : 1514328001 F9L90 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:48:55 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1395714	50.0000 ug/Kg	84.65
30) Chlorobenzene-d5	10.60	117	1350456	50.0000 ug/Kg	88.69
62) 1,4-dichlorobenzene-d4	13.00	152	679997	50.0000 ug/Kg	80.76
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	487800	58.3708 ug/Kg	116.74%
8) Chloroethane-d5	2.30	69	406227	61.1268 ug/Kg	122.25%
11) 1,1-Dichloroethene-d2	2.93	63	929078	46.2236 ug/Kg	92.45%
22) 2-Butanone-d5	6.19	46	364808	107.4987 ug/Kg	107.50%
25) Chloroform-d	5.81	84	980391	57.7776 ug/Kg	115.56%
27) 1,2-Dichloroethane-d4	6.78	65	585895	61.2219 ug/Kg	122.44%#
29) 1,4-Dioxane-d8	8.24	96	53768	1240.9183 ug/Kg	124.09%
35) Benzene-d6	6.58	84	1994880	57.4755 ug/Kg	114.95%
39) 1,2-Dichloropropane-d6	7.88	67	596271	56.9684 ug/Kg	113.94%
42) cis-1,3-Dichloropropene-d4	8.74	79	1070378	56.8741 ug/Kg	113.75%
44) trans-1,3-Dichloropropene-	9.46	79	666841	54.1076 ug/Kg	108.22%
49) Toluene-d8	8.97	98	1839530	58.5619 ug/Kg	117.12%
52) 2-Hexanone-d5	10.28	63	246008	111.1540 ug/Kg	111.15%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	498454	55.3271 ug/Kg	110.65%
67) 1,2-Dichlorobenzene-d4	13.44	152	656188	58.3783 ug/Kg	116.76%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	9730	2.1158 ug/Kg	88
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	1973	0.2246 ug/Kg	71
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

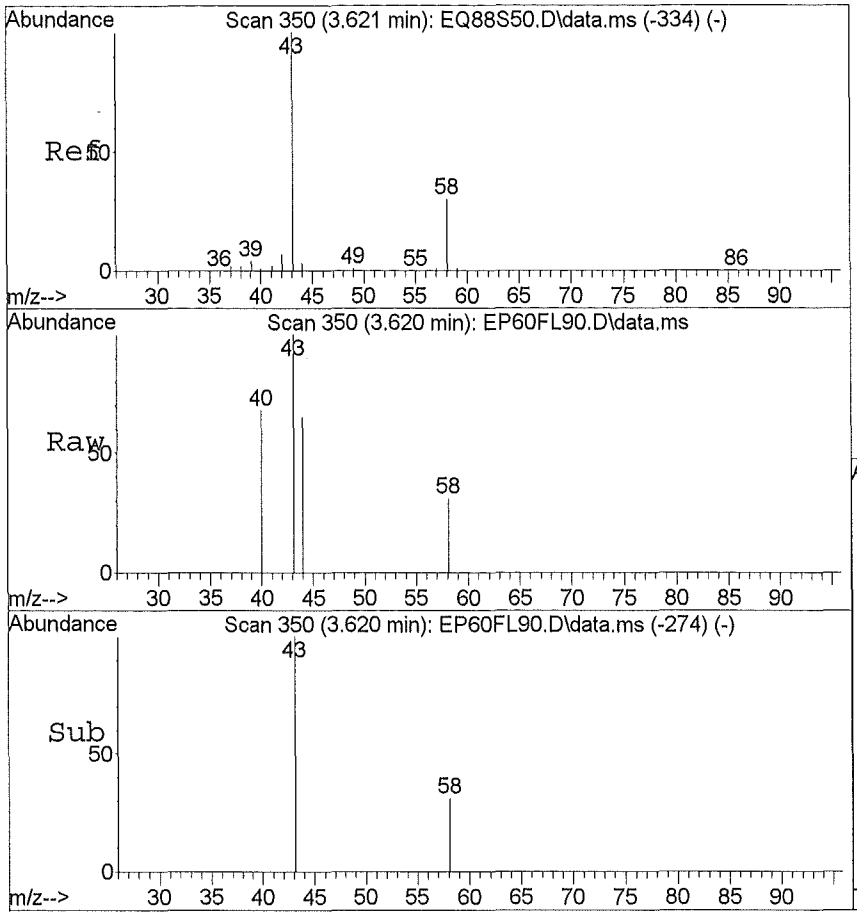
Data File : C:\msdchem\1\Data by...E\29MAY15E\EP60FL90.D Vial: 6
Acq Time : 05/29/2015 15:22 Operator: RJH
Sample : 1514328001 F9L90 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:48:55 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	6890	0.1787 ug/Kg	94
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

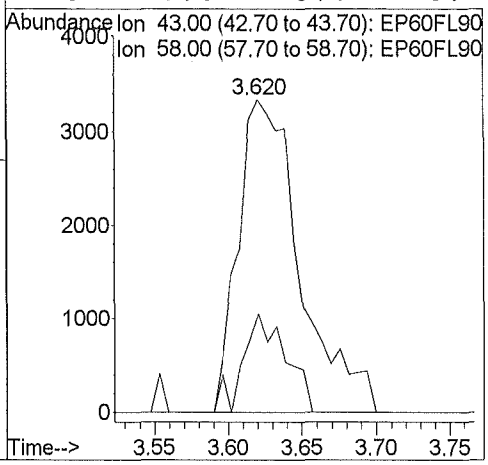
(#) = qualifier out of range (m) = manual integration

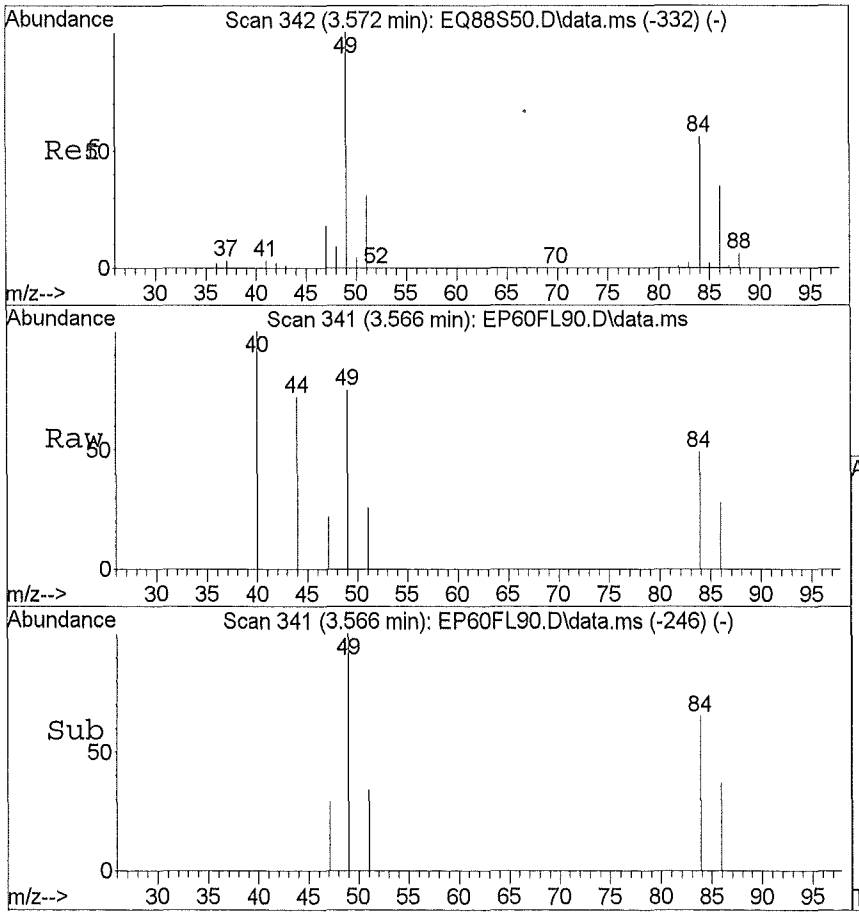


#13
Acetone
Concen: 2.12 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. -0.00 min
Lab File: EP60FL90.D
Acq: 05/29/2015 15:22

Tgt Ion:43 Resp: 9730

Ion	Ratio	Lower	Upper
43	100		
58	22.0	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

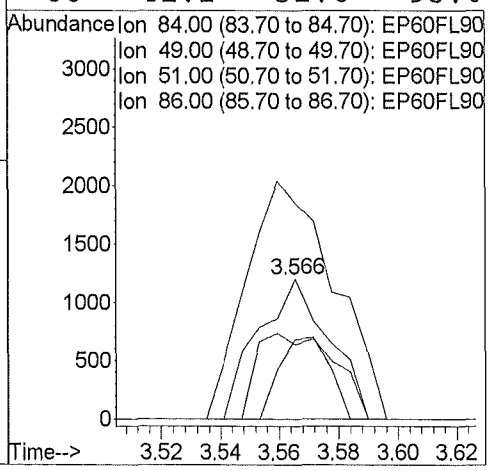


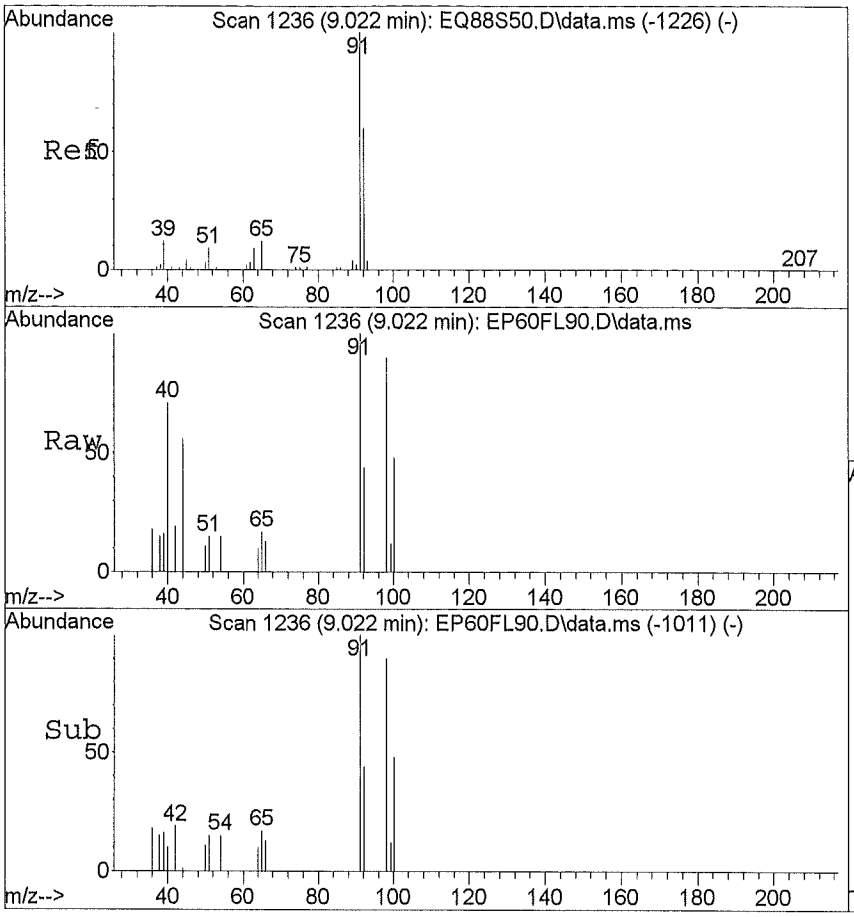


#16
Methylene chloride
Concen: 0.22 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EP60FL90.D
Acq: 05/29/2015 15:22

Tgt Ion:84 Resp: 1973

Ion	Ratio	Lower	Upper
84	100		
49	211.9	84.4	253.2
51	66.8	25.7	77.0
86	41.2	31.6	95.0

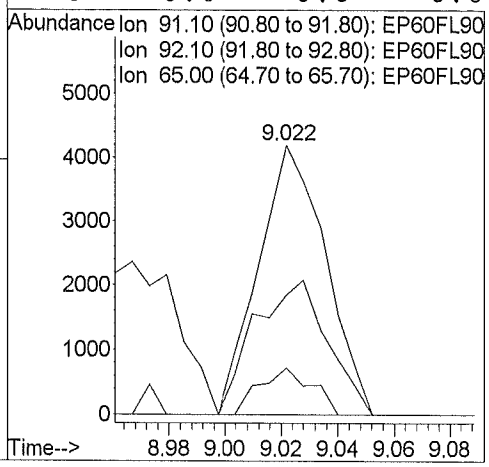




#48
Toluene
Concen: 0.18 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. -0.00 min
Lab File: EP60FL90.D
Acq: 05/29/2015 15:22

Tgt Ion:91.1 Resp: 6890

Ion	Ratio	Lower	Upper
91	100		
92	53.9	47.2	70.8
65	13.6	9.6	14.4
0	0.0	0.0	0.0



6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date(s): 05/28/2015 05/28/2015

Heated Purge: (Y/N) Y Calibration Time(s): 12:03 14:27

Purge Volume: 5.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = EP17S05 RRF 10 = EP18S10
RRF 50 = EP15S50 RRF 100 = EP19S100 RRF 200 = EP20S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.192	0.177	0.225	0.225	0.197	0.203	10.4
Chloromethane	0.391	0.342	0.414	0.398	0.363	0.381	7.5
Vinyl chloride	0.356	0.304	0.391	0.386	0.343	0.356	9.9
Bromomethane	0.202	0.168	0.216	0.218	0.197	0.200	9.9
Chloroethane	0.216	0.186	0.229	0.227	0.209	0.213	8.0
Trichlorofluoromethane	0.405	0.354	0.442	0.443	0.393	0.407	9.1
1,1-Dichloroethene	0.272	0.254	0.311	0.314	0.284	0.287	9.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.290	0.263	0.326	0.327	0.290	0.299	9.1
Acetone	0.181	0.133	0.210	0.202	0.098	0.165	29.1
Carbon disulfide	0.979	0.884	1.093	1.100	0.980	1.007	9.0
Methyl acetate	0.238	0.180	0.208	0.198	0.194	0.204	10.6
Methylene chloride	0.346	0.288	0.330	0.312	0.298	0.315	7.5
trans-1,2-Dichloroethene	0.300	0.284	0.337	0.336	0.309	0.313	7.3
Methyl tert-butyl ether	0.696	0.603	0.768	0.748	0.741	0.711	9.3
1,1-Dichloroethane	0.608	0.542	0.675	0.653	0.609	0.617	8.3
cis-1,2-Dichloroethene	0.308	0.273	0.352	0.344	0.329	0.321	9.9
2-Butanone	0.181	0.140	0.231	0.224	0.133	0.182	25.1
Bromochloromethane	0.153	0.130	0.161	0.151	0.147	0.149	7.8
Chloroform	0.559	0.503	0.625	0.599	0.566	0.570	8.1
1,1,1-Trichloroethane	0.521	0.482	0.588	0.598	0.527	0.543	9.0
Cyclohexane	0.574	0.545	0.772	0.818	0.711	0.684	17.6
Carbon tetrachloride	0.484	0.456	0.553	0.561	0.491	0.509	9.0
Benzene	1.260	1.169	1.458	1.460	1.321	1.334	9.5
1,2-Dichloroethane	0.436	0.387	0.462	0.438	0.423	0.429	6.4
1,4-Dioxane	0.0007	0.0013	0.0021	0.0020	0.0019	0.0016	37.7
Trichloroethene	0.322	0.297	0.382	0.384	0.342	0.345	11.0
Methylcyclohexane	0.454	0.450	0.674	0.717	0.632	0.586	21.4

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

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date(s): 05/28/2015 05/28/2015

Heated Purge: (Y/N) Y Calibration Time(s): 12:03 14:27

Purge Volume: 5.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = EP17S05 RRF 10 = EP18S10
RRF 50 = EP15S50 RRF 100 = EP19S100 RRF 200 = EP20S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.337	0.307	0.393	0.380	0.354	0.354	9.7
Bromodichloromethane	0.448	0.394	0.492	0.473	0.445	0.450	8.2
cis-1,3-Dichloropropene	0.496	0.455	0.635	0.610	0.582	0.556	13.9
4-Methyl-2-Pentanone	0.266	0.225	0.335	0.328	0.293	0.289	15.7
Toluene	1.256	1.212	1.636	1.598	1.437	1.428	13.5
trans-1,3-Dichloropropene	0.476	0.431	0.578	0.546	0.526	0.511	11.4
1,1,2-Trichloroethane	0.268	0.237	0.287	0.265	0.255	0.263	7.0
Tetrachloroethene	0.269	0.254	0.325	0.331	0.290	0.294	11.6
2-Hexanone	0.258	0.208	0.407	0.395	0.237	0.301	30.9
Dibromochloromethane	0.309	0.280	0.360	0.339	0.329	0.323	9.4
1,2-Dibromoethane	0.234	0.212	0.270	0.255	0.248	0.244	9.0
Chlorobenzene	0.944	0.867	1.081	1.033	0.962	0.977	8.5
Ethylbenzene	1.529	1.428	1.901	1.854	1.670	1.677	12.1
o-Xylene	0.502	0.461	0.673	0.669	0.624	0.586	16.8
m,p-Xylene	0.528	0.502	0.697	0.693	0.641	0.612	15.0
Styrene	0.775	0.741	1.126	1.107	1.056	0.961	19.5
Bromoform	0.399	0.359	0.449	0.425	0.417	0.410	8.2
Isopropylbenzene	1.321	1.274	1.853	1.874	1.662	1.597	17.9
1,1,2,2-Tetrachloroethane	0.321	0.290	0.350	0.337	0.323	0.324	6.9
1,3-Dichlorobenzene	1.313	1.161	1.513	1.453	1.366	1.361	10.0
1,4-Dichlorobenzene	1.452	1.289	1.596	1.486	1.387	1.442	7.9
1,2-Dichlorobenzene	1.220	1.096	1.408	1.342	1.263	1.266	9.4
1,2-Dibromo-3-chloropropane	0.099	0.088	0.102	0.102	0.098	0.098	5.8
1,2,4-Trichlorobenzene	0.824	0.724	0.955	0.930	0.897	0.866	10.8
1,2,3-Trichlorobenzene	0.757	0.665	0.860	0.817	0.779	0.776	9.4

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date(s): 05/28/2015 05/28/2015

Heated Purge: (Y/N) Y Calibration Time(s): 12:03 14:27

Purge Volume: 5.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = EP17S05 RRF 10 = EP18S10
RRF 50 = EP15S50 RRF 100 = EP19S100 RRF 200 = EP20S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.278	0.281	0.325	0.312	0.302	0.299	6.7
Chloroethane-d5	0.223	0.226	0.254	0.244	0.243	0.238	5.4
1,1-Dichloroethene-d2	0.650	0.666	0.776	0.776	0.733	0.720	8.3
2-Butanone-d5	0.118	0.107	0.133	0.133	0.116	0.122	9.5
Chloroform-d	0.560	0.586	0.656	0.619	0.618	0.608	6.0
1,2-Dichloroethane-d4	0.330	0.329	0.368	0.345	0.342	0.343	4.7
Benzene-d6	1.154	1.221	1.390	1.362	1.298	1.285	7.6
1,2-Dichloropropane-d6	0.352	0.372	0.420	0.404	0.390	0.388	6.8
Toluene-d8	0.974	1.063	1.295	1.267	1.216	1.163	11.9
trans-1,3-Dichloropropene-d4	0.392	0.415	0.508	0.486	0.479	0.456	10.9
2-Hexanone-d5	0.062	0.065	0.094	0.097	0.091	0.082	20.5
1,4-Dioxane-d8	0.0014	0.0014	0.0017	0.0017	0.0016	0.0016	7.1
1,1,2,2-Tetrachloroethane-d2	0.326	0.316	0.351	0.342	0.332	0.334	4.1
1,2-Dichlorobenzene-d4	0.776	0.784	0.889	0.852	0.831	0.826	5.7

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP17S05.D Vial: 1
Acq Time : 05/28/2015 13:15 Operator: RJH
Sample : VSTD005WE VSTD005WE Inst : 5975-E
Misc : 0.25 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 13:34:21 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 02 11:33:56 2015
Response via : Initial Calibration

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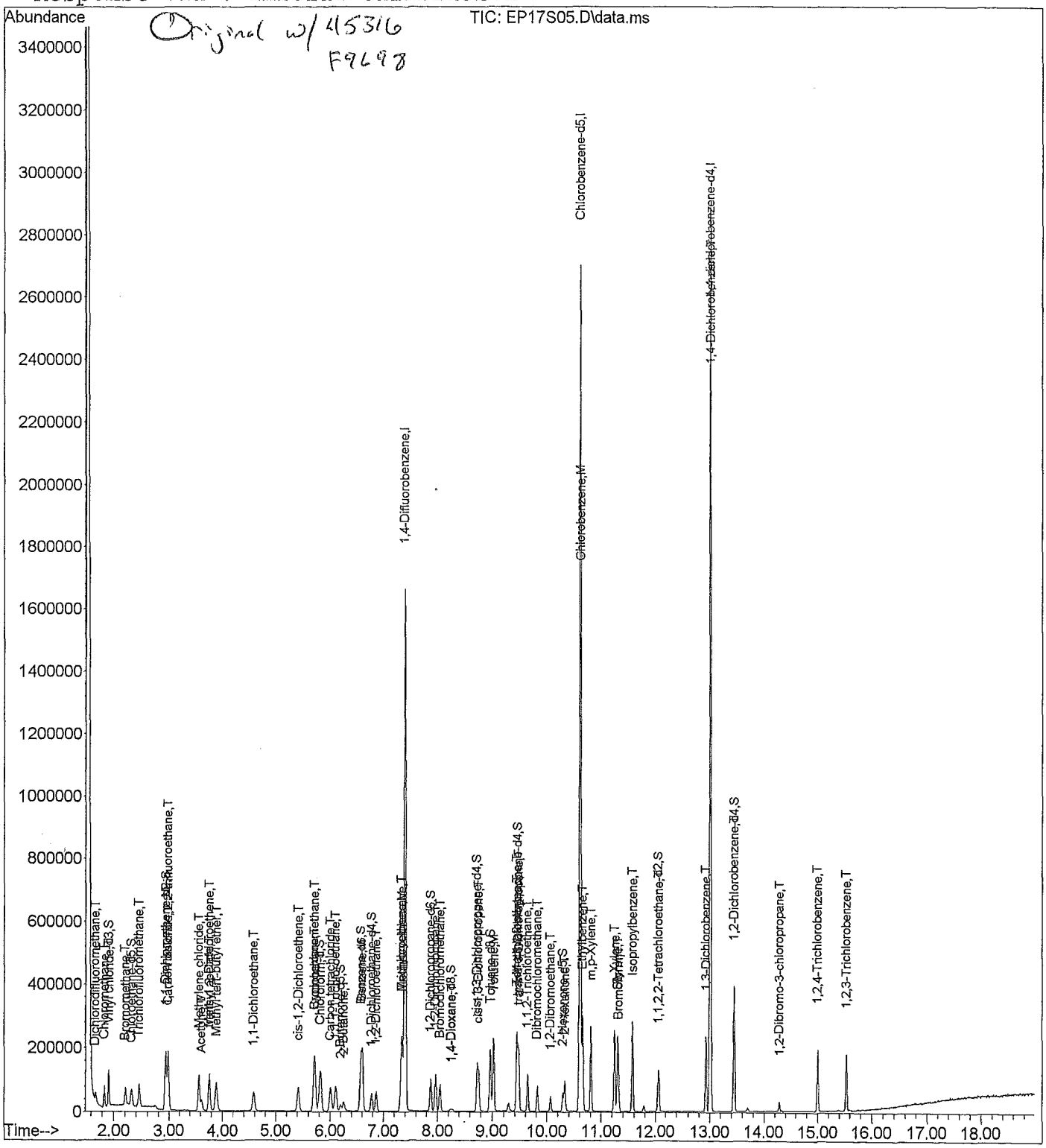


Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP17S05.D Vial: 1
Acq Time : 05/28/2015 13:15 Operator: RJH
Sample : VSTD005WE VSTD005WE Inst : 5975-E
Misc : 0.25 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 13:34:21 2015 Results File: ECLPSB2.RES

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

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.39	114	1465647	50.0000 ug/Kg	81.27
30) Chlorobenzene-d5	10.60	117	1341720	50.0000 ug/Kg	81.27
62) 1,4-dichlorobenzene-d4	13.00	152	710389	50.0000 ug/Kg	81.64
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	40729	3.5705 ug/Kg	7.14%#
8) Chloroethane-d5	2.31	69	32752	3.7667 ug/Kg	7.53%#
11) 1,1-Dichloroethene-d2	2.93	63	95210	3.6784 ug/Kg	7.36%#
22) 2-Butanone-d5	6.20	46	34505	9.9644 ug/Kg	9.96%#
25) Chloroform-d	5.80	84	82038	4.0252 ug/Kg	8.05%#
27) 1,2-Dichloroethane-d4	6.78	65	48336	4.4789 ug/Kg	8.96%#
29) 1,4-Dioxane-d8	8.24	96	4214	78.8625 ug/Kg	7.89%#
35) Benzene-d6	6.57	84	154770	3.8345 ug/Kg	7.67%#
39) 1,2-Dichloropropane-d6	7.87	67	47275	4.0052 ug/Kg	8.01%#
42) cis-1,3-Dichloropropene-d4	8.73	79	80678	3.8232 ug/Kg	7.65%
44) trans-1,3-Dichloropropene-	9.45	79	52614	3.9351 ug/Kg	7.87%#
49) Toluene-d8	8.96	98	130690	3.5178 ug/Kg	7.04%#
52) 2-Hexanone-d5	10.28	63	16725	7.6686 ug/Kg	7.67%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	43751	4.5864 ug/Kg	9.17%#
67) 1,2-Dichlorobenzene-d4	13.44	152	55147	4.1632 ug/Kg	8.33%#
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	1.68	85	28182	3.6180 ug/Kg#	98
3) Chloromethane	1.84	50	57255	4.2900 ug/Kg	97
4) Vinyl chloride	1.91	62	52119	4.0773 ug/Kg	98
6) Bromomethane	2.21	94	29654	4.3155 ug/Kg	97
7) Chloroethane	2.33	64	31632	4.1950 ug/Kg	99
9) Trichlorofluoromethane	2.45	101	59384	4.0656 ug/Kg	98
10) 1,1-Dichloroethene	2.94	96	39862	3.9643 ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	42566	4.0218 ug/Kg	98
13) Acetone	3.61	43	53163	15.8026 ug/Kg	97
14) Carbon disulfide	2.98	76	143472	4.0280 ug/Kg	96
15) Methyl acetate	3.77	43	34828	6.0725 ug/Kg#	73
16) Methylene chloride	3.56	84	50762	5.0202 ug/Kg	98
17) trans-1,2-Dichloroethene	3.76	96	43924	4.1351 ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	101959	4.6751 ug/Kg	96
19) 1,1-Dichloroethane	4.58	63	89111	4.3835 ug/Kg	98
20) cis-1,2-Dichloroethene	5.41	96	45201	4.3164 ug/Kg	97
21) 2-Butanone	6.25	43	53189	13.7728 ug/Kg	95
23) Bromochloromethane	5.71	128	22470	4.7540 ug/Kg	97
24) Chloroform	5.82	83	81952	4.4495 ug/Kg	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP17S05.D Vial: 1
Acq Time : 05/28/2015 13:15 Operator: RJH
Sample : VSTD005WE VSTD005WE Inst : 5975-E
Misc : 0.25 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 13:34:21 2015 Results File: ECLPSB2.RES

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.86	62	63948	4.9822	ug/Kg	97
28)	1,4-Dioxane	8.26	88	1924	32.7581	ug/Kg#	1
31)	1,1,1-Trichloroethane	6.10	97	69950	4.0235	ug/Kg	96
32)	Cyclohexane	5.71	56	77074	3.5188	ug/Kg	98
33)	Carbon tetrachloride	6.00	117	64951	3.9788	ug/Kg	99
34)	Benzene	6.60	78	169100	4.2018	ug/Kg#	99
36)	Trichloroethene	7.35	130	43195	4.0502	ug/Kg	96
37)	Methylcyclohexane	7.33	83	60907	3.2650	ug/Kg	93
38)	1,2-Dichloropropane	7.96	63	45259	4.3477	ug/Kg	94
40)	Bromodichloromethane	8.05	83	60132	4.6302	ug/Kg	98
41)	cis-1,3-Dichloropropene	8.76	75	66529	4.1342	ug/Kg	96
43)	trans-1,3-Dichloropropene	9.47	75	63803	4.4776	ug/Kg	97
45)	1,1,2-Trichloroethane	9.64	97	35987	4.8984	ug/Kg	96
46)	Dibromochloromethane	9.82	129	41494	4.4815	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	71478	9.9172	ug/Kg	96
48)	Toluene	9.02	91	168476	3.8767	ug/Kg	99
50)	Tetrachloroethene	9.43	164	36062	3.8772	ug/Kg	95
51)	2-Hexanone	10.32	43	69266	11.5781	ug/Kg	95
53)	1,2-Dibromoethane	10.06	107	31360	4.5461	ug/Kg	98
54)	Chlorobenzene	10.62	112	126615	4.3733	ug/Kg	91
55)	Ethylbenzene	10.66	91	205181	4.0807	ug/Kg	100
56)	m,p-Xylene	10.81	106	70854	3.8513	ug/Kg	98
57)	o-Xylene	11.25	106	67340	3.8719	ug/Kg	99
58)	Styrene	11.30	104	103962	3.7145	ug/Kg	99
59)	Isopropylbenzene	11.57	105	177224	3.6388	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	12.06	83	43028	4.8387	ug/Kg	98
63)	Bromoform	11.32	173	28340	4.6164	ug/Kg	97
64)	1,3-Dichlorobenzene	12.92	146	93274	4.4152	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	103125	4.6437	ug/Kg#	61
66)	1,2-Dichlorobenzene	13.45	146	86699	4.4738	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	7014	5.1607	ug/Kg	98
69)	1,2,4-Trichlorobenzene	15.00	180	58533	4.5985	ug/Kg	100
70)	1,2,3-Trichlorobenzene	15.54	180	53768	4.8722	ug/Kg	99

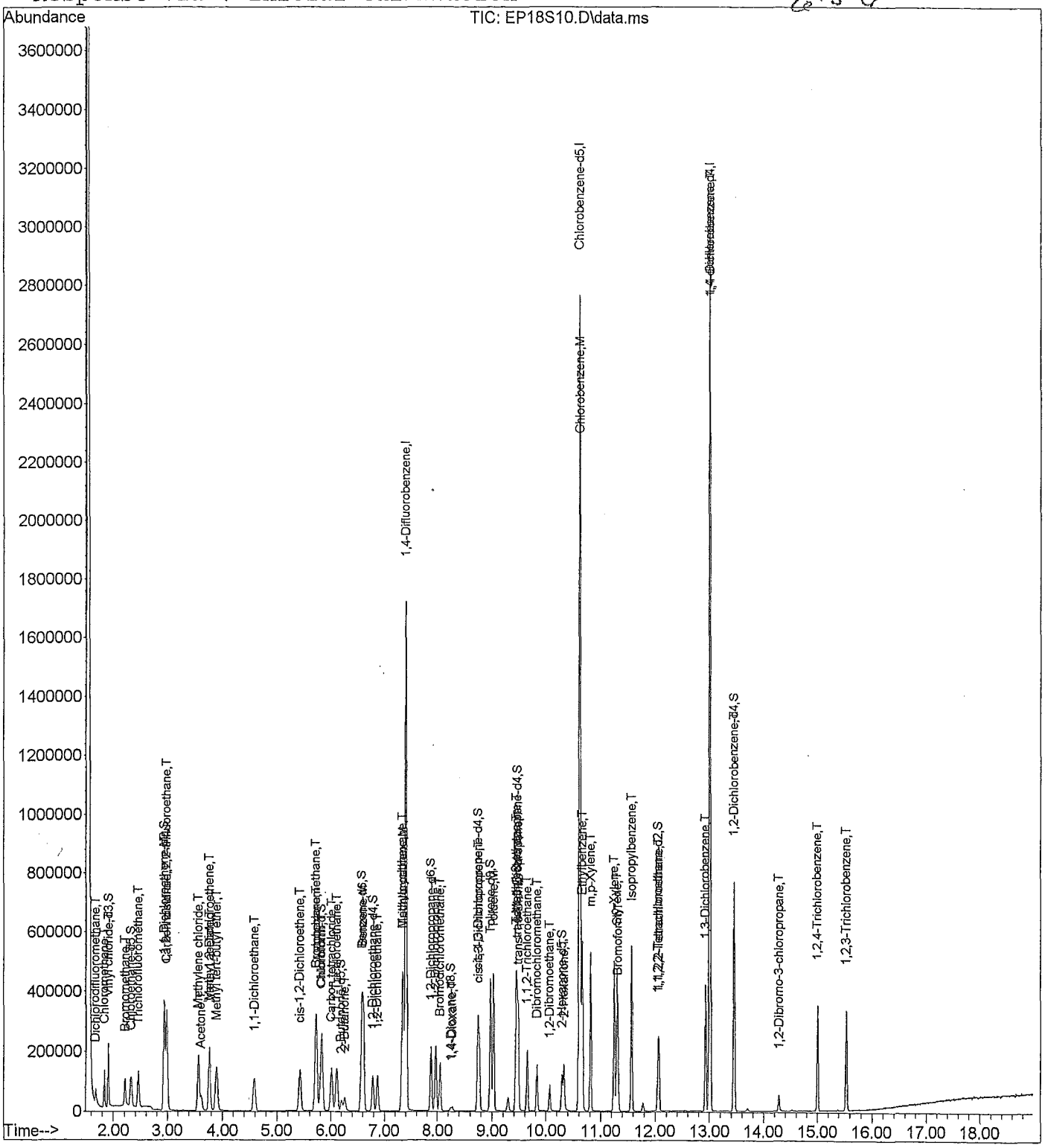
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP18S10.D Vial: 2
Acq Time : 05/28/2015 13:39 Operator: RJH
Sample : VSTD010WE VSTD010WE Inst : 5975-E
Misc : 0.5 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 13:58:46 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 02 11:33:56 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP18S10.D Vial: 2
Acq Time : 05/28/2015 13:39 Operator: RJH
Sample : VSTD010WE VSTD010WE Inst : 5975-E
Misc : 0.5 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 13:58:46 2015 Results File: ECLPSB2.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1504040	50.0000	ug/Kg	83.40
30) Chlorobenzene-d5	10.60	117	1374417	50.0000	ug/Kg	83.25
62) 1,4-dichlorobenzene-d4	13.00	152	728376	50.0000	ug/Kg	83.71
System Monitoring Compounds						**%Recovery**
5) Vinyl chloride-d3	1.91	65	84508	7.2193	ug/Kg	14.44%#
8) Chloroethane-d5	2.31	69	67920	7.6118	ug/Kg	15.22%#
11) 1,1-Dichloroethene-d2	2.93	63	200367	7.5435	ug/Kg	15.09%#
22) 2-Butanone-d5	6.20	46	64502	18.1516	ug/Kg	18.15%#
25) Chloroform-d	5.81	84	176414	8.4348	ug/Kg	16.87%#
27) 1,2-Dichloroethane-d4	6.78	65	98833	8.9242	ug/Kg	17.85%#
29) 1,4-Dioxane-d8	8.24	96	8680	158.2944	ug/Kg	15.83%#
35) Benzene-d6	6.58	84	335742	8.1203	ug/Kg	16.24%#
39) 1,2-Dichloropropane-d6	7.88	67	102233	8.4553	ug/Kg	16.91%#
42) cis-1,3-Dichloropropene-d4	8.74	79	169723	7.8515	ug/Kg	15.70%
44) trans-1,3-Dichloropropene-	9.46	79	114103	8.3309	ug/Kg	16.66%#
49) Toluene-d8	8.97	98	292198	7.6781	ug/Kg	15.36%#
52) 2-Hexanone-d5	10.28	63	35744	15.9990	ug/Kg	16.00%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	86926	8.8956	ug/Kg	17.79%#
67) 1,2-Dichlorobenzene-d4	13.44	152	114281	8.4144	ug/Kg	16.83%#
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.68	85	53332	6.6721	ug/Kg#	99
3) Chloromethane	1.84	50	102920	7.5148	ug/Kg	98
4) Vinyl chloride	1.91	62	91582	6.9816	ug/Kg	97
6) Bromomethane	2.21	94	50644	7.1821	ug/Kg	99
7) Chloroethane	2.33	64	56035	7.2416	ug/Kg	98
9) Trichlorofluoromethane	2.45	101	106539	7.1077	ug/Kg	98
10) 1,1-Dichloroethene	2.94	96	76326	7.3968	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	79144	7.2870	ug/Kg	99
13) Acetone	3.62	43	79808	23.1172	ug/Kg	98
14) Carbon disulfide	2.98	76	265792	7.2716	ug/Kg	98
15) Methyl acetate	3.77	43	54034	9.1807	ug/Kg	94
16) Methylene chloride	3.57	84	86539	8.3399	ug/Kg	97
17) trans-1,2-Dichloroethene	3.76	96	85418	7.8361	ug/Kg	96
18) Methyl tert-butyl ether	3.89	73	181384	8.1047	ug/Kg	96
19) 1,1-Dichloroethane	4.59	63	163093	7.8179	ug/Kg	99
20) cis-1,2-Dichloroethene	5.42	96	82121	7.6418	ug/Kg	99
21) 2-Butanone	6.26	43	84145	21.2324	ug/Kg	98
23) Bromochloromethane	5.71	128	39093	8.0599	ug/Kg	95
24) Chloroform	5.83	83	151174	7.9983	ug/Kg	97

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

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP18S10.D Vial: 2
Acq Time : 05/28/2015 13:39 Operator: RJH
Sample : VSTD010WE VSTD010WE Inst : 5975-E
Misc : 0.5 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 13:58:46 2015 Results File: ECLPSB2.RES

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	116355	8.8338	ug/Kg	100
28)	1,4-Dioxane	8.27	88	7965	132.1508	ug/Kg#	81
31)	1,1,1-Trichloroethane	6.11	97	132392	7.4341	ug/Kg	99
32)	Cyclohexane	5.71	56	149735	6.6735	ug/Kg	99
33)	Carbon tetrachloride	6.01	117	125316	7.4940	ug/Kg	99
34)	Benzene	6.61	78	321358	7.7952	ug/Kg#	98
36)	Trichloroethene	7.35	130	81618	7.4708	ug/Kg	97
37)	Methylcyclohexane	7.33	83	123820	6.4796	ug/Kg	95
38)	1,2-Dichloropropane	7.97	63	84446	7.9191	ug/Kg	95
40)	Bromodichloromethane	8.05	83	108181	8.1317	ug/Kg	97
41)	cis-1,3-Dichloropropene	8.76	75	124977	7.5816	ug/Kg	95
43)	trans-1,3-Dichloropropene	9.48	75	118346	8.1079	ug/Kg	95
45)	1,1,2-Trichloroethane	9.64	97	65174	8.6601	ug/Kg	97
46)	Dibromochloromethane	9.83	129	76837	8.1012	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	123464	16.7224	ug/Kg	98
48)	Toluene	9.02	91	333183	7.4843	ug/Kg	98
50)	Tetrachloroethene	9.44	164	69794	7.3255	ug/Kg	98
51)	2-Hexanone	10.32	43	114359	18.6609	ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	58293	8.2494	ug/Kg	98
54)	Chlorobenzene	10.62	112	238248	8.0334	ug/Kg	96
55)	Ethylbenzene	10.66	91	392670	7.6237	ug/Kg	98
56)	m,p-Xylene	10.81	106	137939	7.3194	ug/Kg	98
57)	o-Xylene	11.25	106	126603	7.1061	ug/Kg	97
58)	Styrene	11.30	104	203602	7.1015	ug/Kg	99
59)	Isopropylbenzene	11.57	105	350188	7.0191	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	12.06	83	79765	8.7565	ug/Kg	99
63)	Bromoform	11.32	173	52309	8.3103	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	169094	7.8065	ug/Kg	99
65)	1,4-Dichlorobenzene	13.01	146	187722	8.2443	ug/Kg#	80
66)	1,2-Dichlorobenzene	13.45	146	159699	8.0371	ug/Kg	98
68)	1,2-Dibromo-3-chloropropan	14.28	75	12883	9.2449	ug/Kg	94
69)	1,2,4-Trichlorobenzene	15.00	180	105415	8.0771	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	96920	8.5655	ug/Kg	99

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

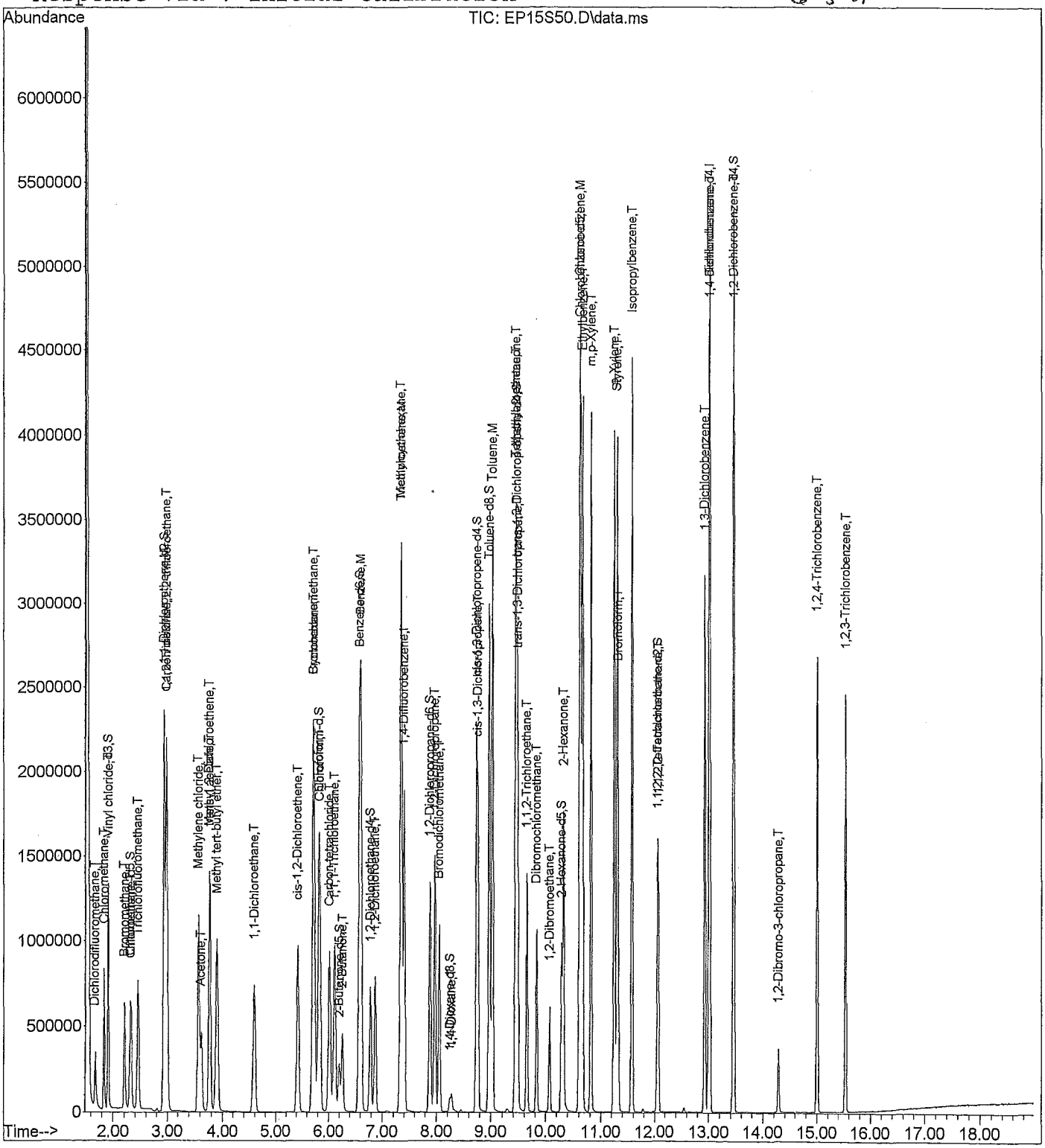
Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP15S50.D Vial: 2
Acq Time : 05/28/2015 12:03 Operator: RJH
Sample : VSTD050WE VSTD050WE Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 22:55:45 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 02 11:33:56 2015
Response via : Initial Calibration

6-3-15



Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP15S50.D Vial: 2
Acq Time : 05/28/2015 12:03 Operator: RJH
Sample : VSTD050WE VSTD050WE Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 22:55:45 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 12:43:10 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1648821	50.0000	ug/Kg	91.43
30) Chlorobenzene-d5	10.60	117	1522702	50.0000	ug/Kg	92.23
62) 1,4-dichlorobenzene-d4	13.00	152	841958	50.0000	ug/Kg	96.76
System Monitoring Compounds						**%Recovery**
5) Vinyl chloride-d3	1.91	65	535485	41.7280	ug/Kg	83.46%
8) Chloroethane-d5	2.31	69	418230	42.7554	ug/Kg	85.51%
11) 1,1-Dichloroethene-d2	2.93	63	1279148	43.9295	ug/Kg	87.86%
22) 2-Butanone-d5	6.20	46	440195	112.9983	ug/Kg	113.00%
25) Chloroform-d	5.81	84	1081812	47.1824	ug/Kg	94.36%
27) 1,2-Dichloroethane-d4	6.78	65	607108	50.0056	ug/Kg	100.01%
29) 1,4-Dioxane-d8	8.24	96	54901	913.2969	ug/Kg	91.33%
35) Benzene-d6	6.58	84	2117113	46.2181	ug/Kg	92.44%
39) 1,2-Dichloropropane-d6	7.88	67	639882	47.7683	ug/Kg	95.54%
42) cis-1,3-Dichloropropene-d4	8.74	79	1177586	49.1707	ug/Kg	98.34%
44) trans-1,3-Dichloropropene-	9.46	79	774179	51.0199	ug/Kg	102.04%
49) Toluene-d8	8.97	98	1971797	46.7673	ug/Kg	93.53%
52) 2-Hexanone-d5	10.28	63	286309	115.6723	ug/Kg	115.67%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	534418	49.3639	ug/Kg	98.73%
67) 1,2-Dichlorobenzene-d4	13.44	152	748703	47.6898	ug/Kg	95.38%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.68	85	371801	42.4295	ug/Kg#	99
3) Chloromethane	1.83	50	682148	45.4342	ug/Kg	99
4) Vinyl chloride	1.91	62	645032	44.8550	ug/Kg	100
6) Bromomethane	2.21	94	356173	46.0753	ug/Kg	99
7) Chloroethane	2.33	64	377032	44.4467	ug/Kg	98
9) Trichlorofluoromethane	2.45	101	727974	44.3020	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	512516	45.3070	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	536977	45.0994	ug/Kg	99
13) Acetone	3.61	43	692858	183.0703	ug/Kg	99
14) Carbon disulfide	2.98	76	1801456	44.9571	ug/Kg	99
15) Methyl acetate	3.77	43	343140	53.1822	ug/Kg	98
16) Methylene chloride	3.57	84	543464	47.7756	ug/Kg	98
17) trans-1,2-Dichloroethene	3.76	96	554902	46.4360	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	1267027	51.6429	ug/Kg	99
19) 1,1-Dichloroethane	4.59	63	1113151	48.6738	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	580512	49.2766	ug/Kg	99
21) 2-Butanone	6.26	43	761807	175.3481	ug/Kg	99
23) Bromochloromethane	5.71	128	265836	49.9954	ug/Kg	97
24) Chloroform	5.83	83	1030270	49.7231	ug/Kg	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP15S50.D Vial: 2
Acq Time : 05/28/2015 12:03 Operator: RJH
Sample : VSTD050WE VSTD050WE Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 22:55:45 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 12:43:10 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	762009	52.7727	ug/Kg	99
28)	1,4-Dioxane	8.27	88	68010	1029.3020	ug/Kg	99
31)	1,1,1-Trichloroethane	6.11	97	895029	45.3633	ug/Kg	99
32)	Cyclohexane	5.71	56	1175721	47.2975	ug/Kg	98
33)	Carbon tetrachloride	6.01	117	841592	45.4268	ug/Kg	99
34)	Benzene	6.61	78	2219676	48.5994	ug/Kg#	100
36)	Trichloroethene	7.35	130	582424	48.1201	ug/Kg	100
37)	Methylcyclohexane	7.33	83	1026967	48.5087	ug/Kg	99
38)	1,2-Dichloropropane	7.97	63	598763	50.6824	ug/Kg	98
40)	Bromodichloromethane	8.05	83	748931	50.8134	ug/Kg	98
41)	cis-1,3-Dichloropropene	8.77	75	967123	52.9558	ug/Kg	97
43)	trans-1,3-Dichloropropene	9.48	75	879925	54.4129	ug/Kg	96
45)	1,1,2-Trichloroethane	9.64	97	437469	52.4687	ug/Kg	99
46)	Dibromochloromethane	9.83	129	548049	52.1556	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	1019551	124.6442	ug/Kg	99
48)	Toluene	9.02	91	2490929	50.5047	ug/Kg	99
50)	Tetrachloroethene	9.44	164	495441	46.9367	ug/Kg	99
51)	2-Hexanone	10.32	43	1239539	182.5684	ug/Kg	100
53)	1,2-Dibromoethane	10.07	107	410509	52.4360	ug/Kg	98
54)	Chlorobenzene	10.62	112	1646589	50.1142	ug/Kg	99
55)	Ethylbenzene	10.66	91	2894976	50.7328	ug/Kg	100
56)	m,p-Xylene	10.81	106	1060627	50.7993	ug/Kg	99
57)	o-Xylene	11.25	106	1024214	51.8901	ug/Kg	99
58)	Styrene	11.30	104	1714612	53.9807	ug/Kg	99
59)	Isopropylbenzene	11.57	105	2821437	51.0452	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	533672	52.8805	ug/Kg	99
63)	Bromoform	11.32	173	377837	51.9289	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	1273640	50.8676	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	1343411	51.0404	ug/Kg	99
66)	1,2-Dichlorobenzene	13.45	146	1185633	51.6196	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	86290	53.5685	ug/Kg	97
69)	1,2,4-Trichlorobenzene	15.00	180	803956	53.2905	ug/Kg	100
70)	1,2,3-Trichlorobenzene	15.53	180	723788	55.3368	ug/Kg	99

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

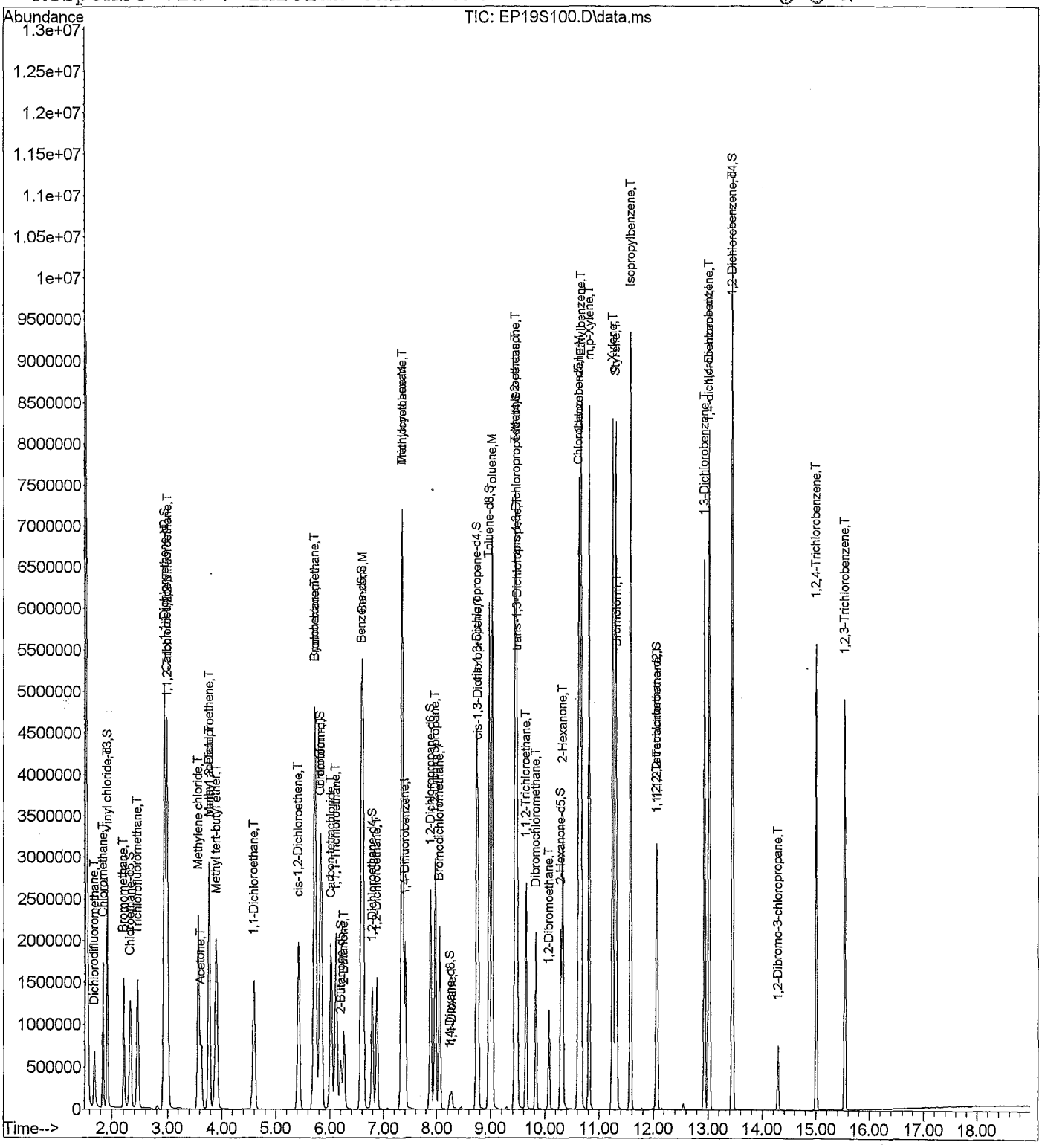
Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP19S100.D Vial: 3
Acq Time : 05/28/2015 14:03 Operator: RJH
Sample : VSTD100WE VSTD100WE Inst : 5975-E
Misc : 5 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 14:22:45 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 02 11:33:56 2015
Response via : Initial Calibration

6-3-15



Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP19S100.D Vial: 3
Acq Time : 05/28/2015 14:03 Operator: RJH
Sample : VSTD100WE VSTD100WE Inst : 5975-E
Misc : 5 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 14:22:45 2015 Results File: ECLPSB2.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1736734	50.0000	ug/Kg	96.31
30) Chlorobenzene-d5	10.61	117	1579411	50.0000	ug/Kg	95.67
62) 1,4-dichlorobenzene-d4	13.00	152	886374	50.0000	ug/Kg	101.86
System Monitoring Compounds						**%Recovery**
5) Vinyl chloride-d3	1.91	65	1082532	80.0869	ug/Kg	160.17%#
8) Chloroethane-d5	2.31	69	849133	82.4123	ug/Kg	164.82%#
11) 1,1-Dichloroethene-d2	2.93	63	2694989	87.8683	ug/Kg	175.74%#
22) 2-Butanone-d5	6.19	46	926579	225.8132	ug/Kg	225.81%#
25) Chloroform-d	5.81	84	2151240	89.0753	ug/Kg	178.15%#
27) 1,2-Dichloroethane-d4	6.78	65	1199623	93.8076	ug/Kg	187.62%#
29) 1,4-Dioxane-d8	8.24	96	115123	1818.1681	ug/Kg	181.82%#
35) Benzene-d6	6.58	84	4303133	90.5676	ug/Kg	181.14%#
39) 1,2-Dichloropropane-d6	7.88	67	1274928	91.7584	ug/Kg	183.52%#
42) cis-1,3-Dichloropropene-d4	8.74	79	2371462	95.4662	ug/Kg	190.93%
44) trans-1,3-Dichloropropene-	9.46	79	1536706	97.6357	ug/Kg	195.27%#
49) Toluene-d8	8.97	98	4002920	91.5328	ug/Kg	183.07%#
52) 2-Hexanone-d5	10.28	63	612853	238.7098	ug/Kg	238.71%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	1080450	96.2172	ug/Kg	192.43%#
67) 1,2-Dichlorobenzene-d4	13.44	152	1509838	91.3524	ug/Kg	182.70%#
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.68	85	781350	84.6532	ug/Kg#	99
3) Chloromethane	1.84	50	1382033	87.3902	ug/Kg	99
4) Vinyl chloride	1.91	62	1341045	88.5346	ug/Kg	99
6) Bromomethane	2.20	94	755995	92.8468	ug/Kg	99
7) Chloroethane	2.33	64	788195	88.2136	ug/Kg	100
9) Trichlorofluoromethane	2.45	101	1537196	88.8132	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	1091986	91.6464	ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	1135478	90.5387	ug/Kg	99
13) Acetone	3.62	43	1400767	351.3823	ug/Kg	100
14) Carbon disulfide	2.98	76	3821207	90.5348	ug/Kg	99
15) Methyl acetate	3.77	43	689111	101.3968	ug/Kg	100
16) Methylene chloride	3.57	84	1082726	90.3638	ug/Kg	98
17) trans-1,2-Dichloroethene	3.76	96	1166438	92.6702	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	2598653	100.5572	ug/Kg	99
19) 1,1-Dichloroethane	4.59	63	2268245	94.1610	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	1195820	96.3687	ug/Kg	99
21) 2-Butanone	6.26	43	1553897	339.5616	ug/Kg	100
23) Bromochloromethane	5.71	128	526161	93.9452	ug/Kg	97
24) Chloroform	5.83	83	2079317	95.2726	ug/Kg	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP19S100.D Vial: 3
Acq Time : 05/28/2015 14:03 Operator: RJH
Sample : VSTD100WE VSTD100WE Inst : 5975-E
Misc : 5 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 14:22:45 2015 Results File: ECLPSB2.RES

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

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	1522652	100.1130 ug/Kg	100
28)	1,4-Dioxane	8.27	88	140572	2019.8032 ug/Kg	99
31)	1,1,1-Trichloroethane	6.11	97	1887888	92.2494 ug/Kg	99
32)	Cyclohexane	5.71	56	2585265	100.2671 ug/Kg	99
33)	Carbon tetrachloride	6.01	117	1772673	92.2484 ug/Kg	98
34)	Benzene	6.61	78	4610392	97.3192 ug/Kg#	99
36)	Trichloroethene	7.35	130	1212597	96.5881 ug/Kg	98
37)	Methylcyclohexane	7.34	83	2264929	103.1425 ug/Kg	99
38)	1,2-Dichloropropane	7.97	63	1201396	98.0411 ug/Kg	99
40)	Bromodichloromethane	8.05	83	1493259	97.6768 ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	1928207	101.7900 ug/Kg	98
43)	trans-1,3-Dichloropropene	9.48	75	1724001	102.7811 ug/Kg	96
45)	1,1,2-Trichloroethane	9.64	97	838143	96.9150 ug/Kg	100
46)	Dibromochloromethane	9.83	129	1070748	98.2400 ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	2071237	244.1252 ug/Kg	99
48)	Toluene	9.02	91	5048216	98.6798 ug/Kg	99
50)	Tetrachloroethene	9.44	164	1045745	95.5138 ug/Kg	99
51)	2-Hexanone	10.32	43	2497914	354.7012 ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	806863	99.3635 ug/Kg	99
54)	Chlorobenzene	10.62	112	3263145	95.7485 ug/Kg	100
55)	Ethylbenzene	10.66	91	5857830	98.9692 ug/Kg	100
56)	m,p-Xylene	10.81	106	2189136	101.0851 ug/Kg	100
57)	o-Xylene	11.25	106	2112440	103.1806 ug/Kg	99
58)	Styrene	11.30	104	3498288	106.1813 ug/Kg	99
59)	Isopropylbenzene	11.57	105	5918651	103.2350 ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	1063958	101.6402 ug/Kg	99
63)	Bromoform	11.32	173	754064	98.4434 ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	2576040	97.7283 ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	2634436	95.0749 ug/Kg	98
66)	1,2-Dichlorobenzene	13.45	146	2378349	98.3588 ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	180617	106.5077 ug/Kg	95
69)	1,2,4-Trichlorobenzene	15.00	180	1649161	103.8375 ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	1448823	105.2184 ug/Kg	99

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

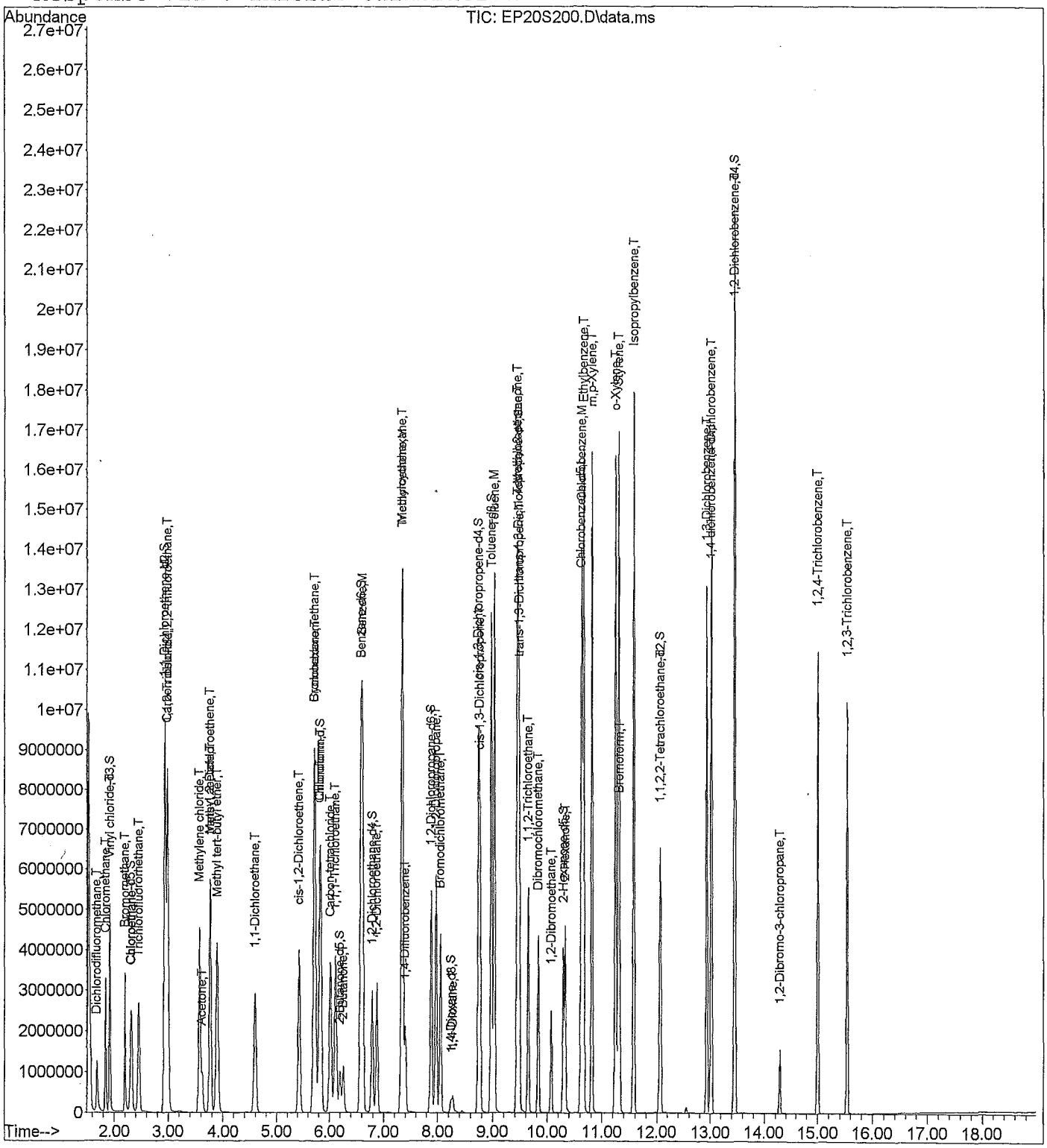
Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP20S200.D Vial: 4
Acq Time : 05/28/2015 14:27 Operator: RJH
Sample : VSTD200WE VSTD200WE Inst : 5975-E
Misc : 10 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 14:46:40 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 02 11:33:56 2015
Response via : Initial Calibration

Co.3.w



Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP20S200.D Vial: 4
Acq Time : 05/28/2015 14:27 Operator: RJH
Sample : VSTD200WE VSTD200WE Inst : 5975-E
Misc : 10 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 14:46:40 2015 Results File: ECLPSB2.RES

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1809866	50.0000	ug/Kg	100.36
30) Chlorobenzene-d5	10.61	117	1696311	50.0000	ug/Kg	102.75
62) 1,4-dichlorobenzene-d4	13.00	152	950763	50.0000	ug/Kg	109.26
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	2183689	155.0238	ug/Kg	310.05%#
8) Chloroethane-d5	2.30	69	1759150	163.8348	ug/Kg	327.67%#
11) 1,1-Dichloroethene-d2	2.93	63	5305551	165.9941	ug/Kg	331.99%#
22) 2-Butanone-d5	6.19	46	1680525	393.0056	ug/Kg	393.01%#
25) Chloroform-d	5.81	84	4471912	177.6840	ug/Kg	355.37%#
27) 1,2-Dichloroethane-d4	6.78	65	2477740	185.9241	ug/Kg	371.85%#
29) 1,4-Dioxane-d8	8.24	96	225685	3420.2788	ug/Kg	342.03%#
35) Benzene-d6	6.58	84	8805647	172.5596	ug/Kg	345.12%#
39) 1,2-Dichloropropane-d6	7.88	67	2643025	177.1132	ug/Kg	354.23%#
42) cis-1,3-Dichloropropene-d4	8.74	79	5029230	188.5057	ug/Kg	377.01%#
44) trans-1,3-Dichloropropene-	9.46	79	3252677	192.4191	ug/Kg	384.84%#
49) Toluene-d8	8.97	98	8249699	175.6416	ug/Kg	351.28%#
52) 2-Hexanone-d5	10.28	63	1239708	449.5967	ug/Kg	449.60%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	2256035	187.0612	ug/Kg	374.12%#
67) 1,2-Dichlorobenzene-d4	13.44	152	3159384	178.2120	ug/Kg	356.42%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	1423918	148.0368	ug/Kg#	98
3) Chloromethane	1.83	50	2625566	159.3141	ug/Kg	100
4) Vinyl chloride	1.91	62	2481795	157.2254	ug/Kg	100
6) Bromomethane	2.19	94	1425287	167.9721	ug/Kg	99
7) Chloroethane	2.32	64	1515602	162.7699	ug/Kg	98
9) Trichlorofluoromethane	2.45	101	2845353	157.7506	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	2057287	165.6837	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	2097709	160.5047	ug/Kg	99
13) Acetone	3.61	43	1418240	341.3898	ug/Kg	99
14) Carbon disulfide	2.97	76	7093395	161.2709	ug/Kg	99
15) Methyl acetate	3.77	43	1406814	198.6363	ug/Kg	99
16) Methylene chloride	3.57	84	2157684	172.8027	ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	2235611	170.4362	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	5362976	199.1396	ug/Kg	98
19) 1,1-Dichloroethane	4.58	63	4409276	175.6449	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	2384225	184.3759	ug/Kg	99
21) 2-Butanone	6.25	43	1922271	403.0862	ug/Kg	99
23) Bromochloromethane	5.71	128	1064762	182.4297	ug/Kg	98
24) Chloroform	5.83	83	4094586	180.0298	ug/Kg	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\28MAY15E\EP20S200.D Vial: 4
Acq Time : 05/28/2015 14:27 Operator: RJH
Sample : VSTD200WE VSTD200WE Inst : 5975-E
Misc : 10 uL of 28017, 28019; 2.5 uL 28016 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 14:46:40 2015 Results File: ECLPSB2.RES

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	3065630	193.4178	ug/Kg	100
28)	1,4-Dioxane	8.27	88	273231	3767.2730	ug/Kg	100
31)	1,1,1-Trichloroethane	6.11	97	3573591	162.5855	ug/Kg	100
32)	Cyclohexane	5.71	56	4821895	174.1249	ug/Kg	98
33)	Carbon tetrachloride	6.01	117	3332321	161.4607	ug/Kg	99
34)	Benzene	6.61	78	8966607	176.2295	ug/Kg#	99
36)	Trichloroethene	7.35	130	2318446	171.9466	ug/Kg	97
37)	Methylcyclohexane	7.34	83	4289962	181.8972	ug/Kg	99
38)	1,2-Dichloropropane	7.97	63	2399055	182.2854	ug/Kg	99
40)	Bromodichloromethane	8.05	83	3020180	183.9411	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	3947506	194.0278	ug/Kg	99
43)	trans-1,3-Dichloropropene	9.48	75	3567872	198.0499	ug/Kg	98
45)	1,1,2-Trichloroethane	9.64	97	1730143	186.2708	ug/Kg	100
46)	Dibromochloromethane	9.83	129	2231283	190.6099	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	3973497	436.0591	ug/Kg	99
48)	Toluene	9.02	91	9747954	177.4163	ug/Kg	100
50)	Tetrachloroethene	9.44	164	1970878	167.6061	ug/Kg	99
51)	2-Hexanone	10.32	43	3221303	425.8988	ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	1680795	192.7220	ug/Kg	99
54)	Chlorobenzene	10.62	112	6525141	178.2687	ug/Kg	100
55)	Ethylbenzene	10.66	91	11331985	178.2621	ug/Kg	99
56)	m,p-Xylene	10.81	106	4351691	187.0951	ug/Kg	97
57)	o-Xylene	11.25	106	4236949	192.6888	ug/Kg	100
58)	Styrene	11.30	104	7162454	202.4156	ug/Kg	98
59)	Isopropylbenzene	11.57	105	11278204	183.1613	ug/Kg	98
60)	1,1,2,2-Tetrachloroethane	12.06	83	2193552	195.1095	ug/Kg	99
63)	Bromoform	11.33	173	1585054	192.9155	ug/Kg	100
64)	1,3-Dichlorobenzene	12.93	146	5195042	183.7391	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	5275694	177.5017	ug/Kg	98
66)	1,2-Dichlorobenzene	13.45	146	4805156	185.2636	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	372651	204.8658	ug/Kg	97
69)	1,2,4-Trichlorobenzene	15.00	180	3410039	200.1683	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	2963898	200.6708	ug/Kg	99

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date: 05/29/2015 Time: 13:43

Lab File ID: EP56S50 Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W1 Init. Calib. Time(s): 12:03 14:27

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.203	0.222	0.010	9.3	40.0
Chloromethane	0.381	0.419	0.010	9.9	40.0
Vinyl chloride	0.356	0.395	0.100	10.9	25.0
Bromomethane	0.200	0.230	0.100	14.6	25.0
Chloroethane	0.213	0.240	0.010	12.6	40.0
Trichlorofluoromethane	0.407	0.463	0.010	13.7	40.0
1,1-Dichloroethene	0.287	0.318	0.100	10.7	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.299	0.333	0.010	11.4	40.0
Acetone	0.165	0.104	0.010	-36.9	40.0
Carbon disulfide	1.007	1.109	0.010	10.1	40.0
Methyl acetate	0.204	0.217	0.010	6.8	40.0
Methylene chloride	0.315	0.331	0.010	5.2	40.0
trans-1,2-Dichloroethene	0.313	0.338	0.010	7.9	40.0
Methyl tert-butyl ether	0.711	0.768	0.010	8.0	40.0
1,1-Dichloroethane	0.617	0.677	0.200	9.7	25.0
cis-1,2-Dichloroethene	0.321	0.350	0.010	9.0	40.0
2-Butanone	0.182	0.139	0.010	-23.3	40.0
Bromochloromethane	0.149	0.160	0.050	7.3	25.0
Chloroform	0.570	0.622	0.200	9.1	25.0
1,1,1-Trichloroethane	0.543	0.615	0.100	13.3	25.0
Cyclohexane	0.684	0.804	0.010	17.6	40.0
Carbon tetrachloride	0.509	0.578	0.100	13.5	25.0
Benzene	1.334	1.507	0.400	13.0	25.0
1,2-Dichloroethane	0.429	0.469	0.100	9.2	25.0
1,4-Dioxane	0.0016	0.0022	0.0050	37.3	50.0
Trichloroethene	0.345	0.397	0.300	14.9	25.0
Methylcyclohexane	0.586	0.700	0.010	19.4	40.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date: 05/29/2015 Time: 13:43

Lab File ID: EP56S50 Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W1 Init. Calib. Time(s): 12:03 14:27

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.354	0.395	0.010	11.4	40.0
Bromodichloromethane	0.450	0.502	0.200	11.4	25.0
cis-1,3-Dichloropropene	0.556	0.628	0.200	13.1	25.0
4-Methyl-2-Pentanone	0.289	0.317	0.010	9.5	40.0
Toluene	1.428	1.641	0.400	15.0	25.0
trans-1,3-Dichloropropene	0.511	0.568	0.100	11.0	25.0
1,1,2-Trichloroethane	0.263	0.280	0.100	6.7	25.0
Tetrachloroethene	0.294	0.332	0.100	13.0	25.0
2-Hexanone	0.301	0.251	0.010	-16.8	40.0
Dibromochloromethane	0.323	0.354	0.100	9.5	25.0
1,2-Dibromoethane	0.244	0.267	0.010	9.6	40.0
Chlorobenzene	0.977	1.061	0.500	8.5	25.0
Ethylbenzene	1.677	1.881	0.100	12.2	25.0
o-Xylene	0.586	0.654	0.300	11.6	25.0
m,p-Xylene	0.612	0.687	0.300	12.2	25.0
Styrene	0.961	1.113	0.300	15.9	25.0
Bromoform	0.410	0.449	0.050	9.5	25.0
Isopropylbenzene	1.597	1.845	0.010	15.6	40.0
1,1,2,2-Tetrachloroethane	0.324	0.357	0.300	10.2	25.0
1,3-Dichlorobenzene	1.361	1.474	0.600	8.3	25.0
1,4-Dichlorobenzene	1.442	1.552	0.500	7.6	25.0
1,2-Dichlorobenzene	1.266	1.390	0.400	9.8	25.0
1,2-Dibromo-3-chloropropane	0.098	0.111	0.010	13.4	40.0
1,2,4-Trichlorobenzene	0.866	0.914	0.200	5.6	25.0
1,2,3-Trichlorobenzene	0.776	0.823	0.200	6.1	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date: 05/29/2015 Time: 13:43

Lab File ID: EP56S50 Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W1 Init. Calib. Time(s): 12:03 14:27

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.299	0.321	0.010	7.3	25.0
Chloroethane-d5	0.238	0.265	0.010	11.2	40.0
1,1-Dichloroethene-d2	0.720	0.795	0.010	10.4	25.0
2-Butanone-d5	0.122	0.125	0.010	2.7	40.0
Chloroform-d	0.608	0.662	0.010	8.9	25.0
1,2-Dichloroethane-d4	0.343	0.376	0.010	9.6	25.0
Benzene-d6	1.285	1.460	0.010	13.6	25.0
1,2-Dichloropropane-d6	0.388	0.431	0.010	11.2	40.0
Toluene-d8	1.163	1.344	0.010	15.6	25.0
trans-1,3-Dichloropropene-d4	0.456	0.518	0.010	13.4	25.0
2-Hexanone-d5	0.082	0.090	0.010	9.6	40.0
1,4-Dioxane-d8	0.0016	0.0018	0.0050	17.4	50.0
1,1,2,2-Tetrachloroethane-d2	0.334	0.368	0.010	10.3	25.0
1,2-Dichlorobenzene-d4	0.826	0.899	0.010	8.8	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

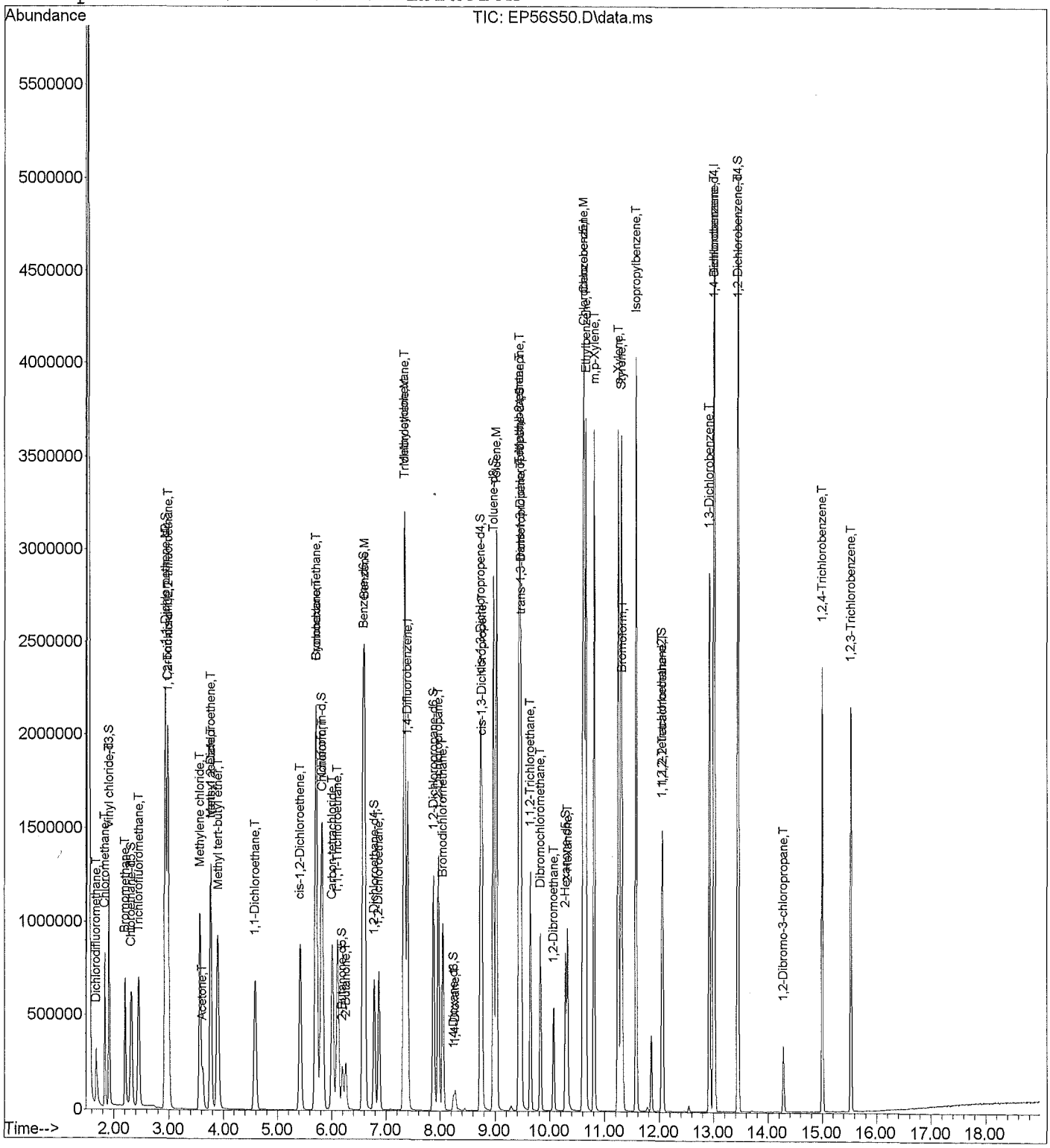
Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP56S50.D Vial: 2
Acq Time : 05/29/2015 13:43 Operator: RJH
Sample : VSTD050W1 VSTD050W1 Inst : 5975-E
Misc : BFBW1 2.5uL 28016,17,19; 2uL 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 29 14:02:44 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP56S50.D Vial: 2
Acq Time : 05/29/2015 13:43 Operator: RJH
Sample : VSTD050W1 VSTD050W1 Inst : 5975-E
Misc : BFBW1 2.5uL 28016,17,19; 2uL 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 29 14:02:44 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1519398	50.0000	ug/Kg	92.15
30) Chlorobenzene-d5	10.60	117	1376379	50.0000	ug/Kg	90.39
62) 1,4-dichlorobenzene-d4	13.00	152	761648	50.0000	ug/Kg	90.46
System Monitoring Compounds						**%Recovery**
5) Vinyl chloride-d3	1.91	65	487935	53.6340	ug/Kg	107.27%
8) Chloroethane-d5	2.31	69	402240	55.5997	ug/Kg	111.20%
11) 1,1-Dichloroethene-d2	2.93	63	1207679	55.1935	ug/Kg	110.39%#
22) 2-Butanone-d5	6.19	46	379235	102.6532	ug/Kg	102.65%
25) Chloroform-d	5.82	84	1005554	54.4366	ug/Kg	108.87%
27) 1,2-Dichloroethane-d4	6.78	65	570780	54.7874	ug/Kg	109.57%
29) 1,4-Dioxane-d8	8.24	96	55356	1173.5697	ug/Kg	117.36%
35) Benzene-d6	6.58	84	2009723	56.8126	ug/Kg	113.63%
39) 1,2-Dichloropropane-d6	7.88	67	593201	55.6077	ug/Kg	111.22%
42) cis-1,3-Dichloropropene-d4	8.74	79	1072380	55.9072	ug/Kg	111.81%
44) trans-1,3-Dichloropropene-	9.46	79	712474	56.7215	ug/Kg	113.44%
49) Toluene-d8	8.97	98	1849669	57.7757	ug/Kg	115.55%
52) 2-Hexanone-d5	10.28	63	247333	109.6479	ug/Kg	109.65%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	506621	55.1745	ug/Kg	110.35%
67) 1,2-Dichlorobenzene-d4	13.44	152	684691	54.3840	ug/Kg	108.77%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.68	85	337675	54.6474	ug/Kg#	99
3) Chloromethane	1.84	50	637020	54.9611	ug/Kg	98
4) Vinyl chloride	1.92	62	599911	55.4492	ug/Kg	99
6) Bromomethane	2.21	94	348809	57.3221	ug/Kg	99
7) Chloroethane	2.33	64	365036	56.2888	ug/Kg	98
9) Trichlorofluoromethane	2.46	101	703489	56.8398	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	482606	55.3321	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	506312	55.6923	ug/Kg	99
13) Acetone	3.62	43	316115	63.1445	ug/Kg	99
14) Carbon disulfide	2.98	76	1684284	55.0407	ug/Kg	99
15) Methyl acetate	3.77	43	330357	53.3908	ug/Kg	98
16) Methylene chloride	3.57	84	503116	52.6135	ug/Kg	98
17) trans-1,2-Dichloroethene	3.76	96	512968	53.9380	ug/Kg	98
18) Methyl tert-butyl ether	3.89	73	1167048	53.9997	ug/Kg	99
19) 1,1-Dichloroethane	4.59	63	1029335	54.8574	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	532183	54.4865	ug/Kg	100
21) 2-Butanone	6.26	43	423608	76.6964	ug/Kg	99
23) Bromochloromethane	5.71	128	242385	53.6726	ug/Kg	96
24) Chloroform	5.83	83	945032	54.5444	ug/Kg	99

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

Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP56S50.D Vial: 2
Acq Time : 05/29/2015 13:43 Operator: RJH
Sample : VSTD050W1 VSTD050W1 Inst : 5975-E
Misc : BFBW1 2.5uL 28016,17,19; 2uL 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 29 14:02:44 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	712597	54.6084	ug/Kg	100
28)	1,4-Dioxane	8.27	88	66370	1373.0729	ug/Kg	97
31)	1,1,1-Trichloroethane	6.11	97	847110	56.6705	ug/Kg	99
32)	Cyclohexane	5.72	56	1106861	58.7791	ug/Kg	99
33)	Carbon tetrachloride	6.01	117	795311	56.7619	ug/Kg	98
34)	Benzene	6.61	78	2073616	56.4841	ug/Kg#	99
36)	Trichloroethene	7.35	130	546330	57.4627	ug/Kg	99
37)	Methylcyclohexane	7.33	83	962799	59.7245	ug/Kg	98
38)	1,2-Dichloropropane	7.97	63	543276	55.6986	ug/Kg	98
40)	Bromodichloromethane	8.05	83	690579	55.7137	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	864568	56.5320	ug/Kg	97
43)	trans-1,3-Dichloropropene	9.47	75	781157	55.5211	ug/Kg	96
45)	1,1,2-Trichloroethane	9.64	97	385547	53.3381	ug/Kg	98
46)	Dibromochloromethane	9.83	129	487055	54.7267	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	871960	109.5005	ug/Kg	99
48)	Toluene	9.02	91	2259309	57.4880	ug/Kg	99
50)	Tetrachloroethene	9.44	164	456943	56.4773	ug/Kg	100
51)	2-Hexanone	10.32	43	689796	83.1995	ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	367494	54.7792	ug/Kg	99
54)	Chlorobenzene	10.62	112	1459670	54.2579	ug/Kg	100
55)	Ethylbenzene	10.66	91	2588545	56.0833	ug/Kg	99
56)	m,p-Xylene	10.81	106	945498	56.1083	ug/Kg	99
57)	o-Xylene	11.25	106	899904	55.8196	ug/Kg	97
58)	Styrene	11.30	104	1532438	57.9330	ug/Kg	99
59)	Isopropylbenzene	11.57	105	2539887	57.7854	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	491905	55.1035	ug/Kg	99
63)	Bromoform	11.32	173	341828	54.7605	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	1122959	54.1604	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	1182021	53.8177	ug/Kg	100
66)	1,2-Dichlorobenzene	13.45	146	1059060	54.9163	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	84540	56.6849	ug/Kg	95
69)	1,2,4-Trichlorobenzene	15.00	180	696345	52.7938	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	627040	53.0665	ug/Kg	99

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date: 05/29/2015 Time: 16:50

Lab File ID: EP63S50 Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W2 Init. Calib. Time(s): 12:03 14:27

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.203	0.231	0.010	13.6	50.0
Chloromethane	0.381	0.437	0.010	14.6	50.0
Vinyl chloride	0.356	0.423	0.010	18.9	50.0
Bromomethane	0.200	0.226	0.010	12.9	50.0
Chloroethane	0.213	0.249	0.010	16.8	50.0
Trichlorofluoromethane	0.407	0.452	0.010	11.0	50.0
1,1-Dichloroethene	0.287	0.331	0.010	15.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.299	0.348	0.010	16.5	50.0
Acetone	0.165	0.147	0.010	-11.0	50.0
Carbon disulfide	1.007	1.140	0.010	13.2	50.0
Methyl acetate	0.204	0.215	0.010	5.8	50.0
Methylene chloride	0.315	0.337	0.010	7.2	50.0
trans-1,2-Dichloroethene	0.313	0.357	0.010	14.0	50.0
Methyl tert-butyl ether	0.711	0.769	0.010	8.1	50.0
1,1-Dichloroethane	0.617	0.706	0.010	14.3	50.0
cis-1,2-Dichloroethene	0.321	0.361	0.010	12.4	50.0
2-Butanone	0.182	0.174	0.010	-4.3	50.0
Bromochloromethane	0.149	0.166	0.010	11.7	50.0
Chloroform	0.570	0.653	0.010	14.5	50.0
1,1,1-Trichloroethane	0.543	0.623	0.010	14.7	50.0
Cyclohexane	0.684	0.839	0.010	22.6	50.0
Carbon tetrachloride	0.509	0.592	0.010	16.2	50.0
Benzene	1.334	1.577	0.010	18.2	50.0
1,2-Dichloroethane	0.429	0.485	0.010	13.0	50.0
1,4-Dioxane	0.0016	0.0022	0.0050	40.2	50.0
Trichloroethene	0.345	0.416	0.010	20.4	50.0
Methylcyclohexane	0.586	0.731	0.010	24.8	50.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date: 05/29/2015 Time: 16:50

Lab File ID: EP63S50 Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W2 Init. Calib. Time(s): 12:03 14:27

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.354	0.406	0.010	14.7	50.0
Bromodichloromethane	0.450	0.512	0.010	13.6	50.0
cis-1,3-Dichloropropene	0.556	0.651	0.010	17.1	50.0
4-Methyl-2-Pentanone	0.289	0.303	0.010	4.8	50.0
Toluene	1.428	1.691	0.010	18.4	50.0
trans-1,3-Dichloropropene	0.511	0.584	0.010	14.2	50.0
1,1,2-Trichloroethane	0.263	0.283	0.010	7.9	50.0
Tetrachloroethene	0.294	0.344	0.010	16.9	50.0
2-Hexanone	0.301	0.283	0.010	-6.1	50.0
Dibromochloromethane	0.323	0.362	0.010	12.1	50.0
1,2-Dibromoethane	0.244	0.267	0.010	9.7	50.0
Chlorobenzene	0.977	1.096	0.010	12.1	50.0
Ethylbenzene	1.677	1.949	0.010	16.2	50.0
o-Xylene	0.586	0.680	0.010	16.2	50.0
m,p-Xylene	0.612	0.717	0.010	17.1	50.0
Styrene	0.961	1.146	0.010	19.3	50.0
Bromoform	0.410	0.448	0.010	9.2	50.0
Isopropylbenzene	1.597	1.905	0.010	19.3	50.0
1,1,2,2-Tetrachloroethane	0.324	0.356	0.010	9.9	50.0
1,3-Dichlorobenzene	1.361	1.513	0.010	11.1	50.0
1,4-Dichlorobenzene	1.442	1.616	0.010	12.1	50.0
1,2-Dichlorobenzene	1.266	1.429	0.010	12.9	50.0
1,2-Dibromo-3-chloropropane	0.098	0.108	0.010	10.2	50.0
1,2,4-Trichlorobenzene	0.866	0.989	0.010	14.2	50.0
1,2,3-Trichlorobenzene	0.776	0.881	0.010	13.5	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-E Calibration Date: 05/29/2015 Time: 16:50

Lab File ID: EP63S50 Init. Calib. Date(s): 05/28/2015 05/28/2015

EPA Sample No.(VSTD#####): VSTD050W2 Init. Calib. Time(s): 12:03 14:27

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.299	0.320	0.010	6.7	50.0
Chloroethane-d5	0.238	0.262	0.010	10.2	50.0
1,1-Dichloroethene-d2	0.720	0.805	0.010	11.8	50.0
2-Butanone-d5	0.122	0.129	0.010	5.9	50.0
Chloroform-d	0.608	0.686	0.010	12.8	50.0
1,2-Dichloroethane-d4	0.343	0.387	0.010	12.8	50.0
Benzene-d6	1.285	1.498	0.010	16.5	50.0
1,2-Dichloropropane-d6	0.388	0.443	0.010	14.4	50.0
Toluene-d8	1.163	1.360	0.010	16.9	50.0
trans-1,3-Dichloropropene-d4	0.456	0.526	0.010	15.3	50.0
2-Hexanone-d5	0.082	0.088	0.010	7.2	50.0
1,4-Dioxane-d8	0.0016	0.0020	0.0050	26.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.334	0.371	0.010	11.1	50.0
1,2-Dichlorobenzene-d4	0.826	0.935	0.010	13.2	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

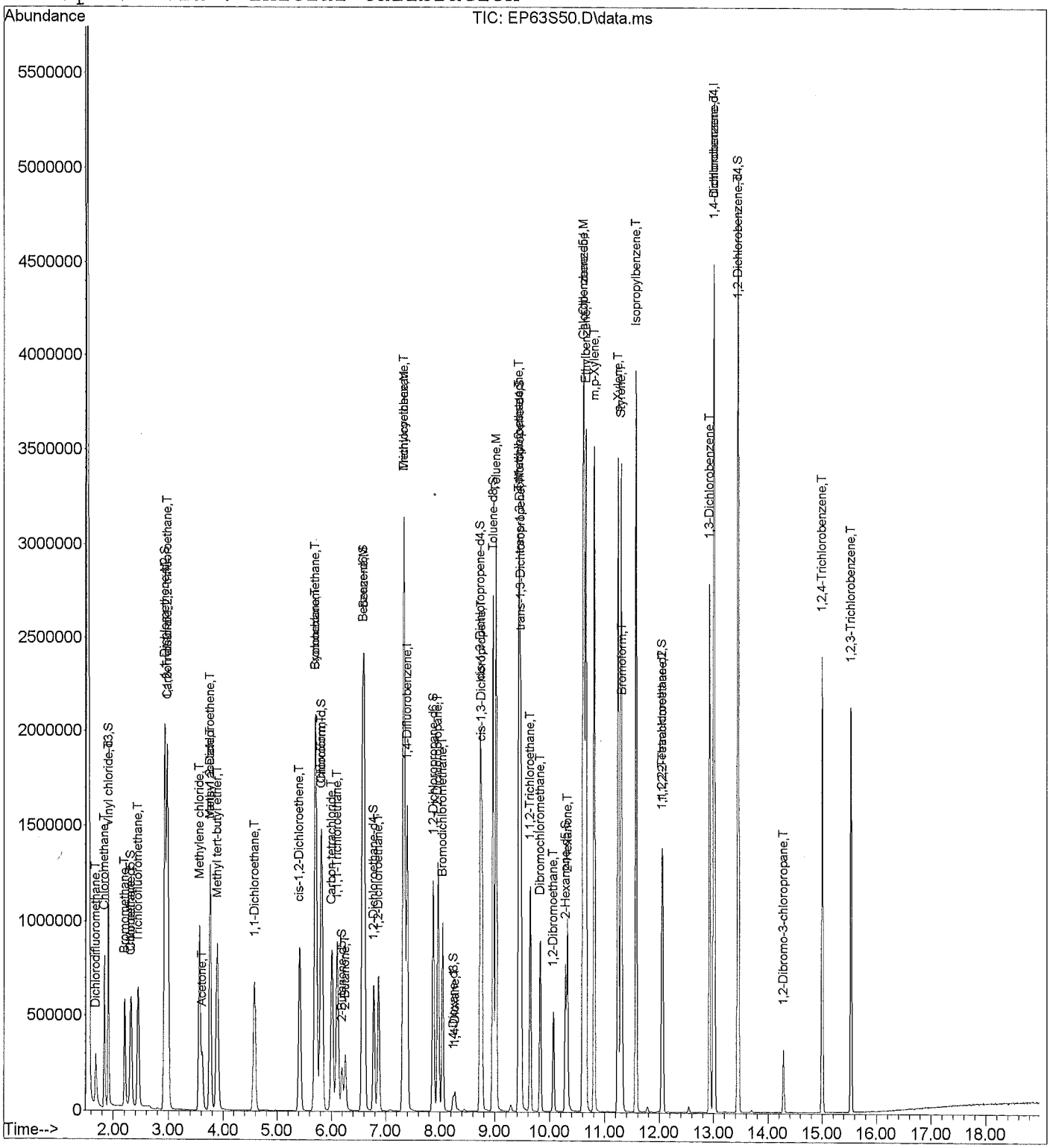
Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP63S50.D Vial: 9
Acq Time : 05/29/2015 16:50 Operator: RJH
Sample : VSTD050W2 VSTD050W2 Inst : 5975-E
Misc : 2.5 uL 28016,17,19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 29 17:09:26 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP63S50.D Vial: 9
Acq Time : 05/29/2015 16:50 Operator: RJH
Sample : VSTD050W2 VSTD050W2 Inst : 5975-E
Misc : 2.5 uL 28016,17,19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 29 17:09:26 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1424474	50.0000	ug/Kg	86.39
30) Chlorobenzene-d5	10.60	117	1291048	50.0000	ug/Kg	84.79
62) 1,4-dichlorobenzene-d4	13.00	152	719509	50.0000	ug/Kg	85.46
System Monitoring Compounds						**%Recovery**
5) Vinyl chloride-d3	1.91	65	455163	53.3657	ug/Kg	106.73%
8) Chloroethane-d5	2.31	69	373684	55.0946	ug/Kg	110.19%
11) 1,1-Dichloroethene-d2	2.93	63	1146311	55.8799	ug/Kg	111.76%#
22) 2-Butanone-d5	6.19	46	366665	105.8645	ug/Kg	105.86%
25) Chloroform-d	5.81	84	976852	56.4068	ug/Kg	112.81%
27) 1,2-Dichloroethane-d4	6.78	65	550657	56.3780	ug/Kg	112.76%
29) 1,4-Dioxane-d8	8.24	96	55737	1260.3896	ug/Kg	126.04%
35) Benzene-d6	6.58	84	1933521	58.2710	ug/Kg	116.54%
39) 1,2-Dichloropropane-d6	7.88	67	572206	57.1848	ug/Kg	114.37%
42) cis-1,3-Dichloropropene-d4	8.74	79	1028689	57.1741	ug/Kg	114.35%
44) trans-1,3-Dichloropropene-	9.45	79	678980	57.6277	ug/Kg	115.26%
49) Toluene-d8	8.97	98	1755420	58.4558	ug/Kg	116.91%
52) 2-Hexanone-d5	10.28	63	226860	107.2190	ug/Kg	107.22%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	478505	55.5568	ug/Kg	111.11%
67) 1,2-Dichlorobenzene-d4	13.44	152	673020	56.5877	ug/Kg	113.18%
Target Compounds						**Qvalue**
2) Dichlorodifluoromethane	1.68	85	329138	56.8154	ug/Kg#	99
3) Chloromethane	1.84	50	622731	57.3086	ug/Kg	99
4) Vinyl chloride	1.91	62	603207	59.4692	ug/Kg	99
6) Bromomethane	2.21	94	322144	56.4679	ug/Kg	99
7) Chloroethane	2.33	64	355206	58.4230	ug/Kg	98
9) Trichlorofluoromethane	2.45	101	644208	55.5186	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	471871	57.7065	ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	496403	58.2409	ug/Kg	99
13) Acetone	3.61	43	417944	89.0483	ug/Kg	99
14) Carbon disulfide	2.98	76	1624335	56.6189	ug/Kg	99
15) Methyl acetate	3.77	43	306867	52.8993	ug/Kg	98
16) Methylene chloride	3.57	84	480701	53.6193	ug/Kg	96
17) trans-1,2-Dichloroethene	3.76	96	508133	56.9900	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	1095564	54.0701	ug/Kg	99
19) 1,1-Dichloroethane	4.58	63	1005475	57.1566	ug/Kg	100
20) cis-1,2-Dichloroethene	5.41	96	514715	56.2098	ug/Kg	99
21) 2-Butanone	6.25	43	495500	95.6911	ug/Kg	100
23) Bromochloromethane	5.71	128	236421	55.8405	ug/Kg	97
24) Chloroform	5.83	83	930262	57.2699	ug/Kg	99

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

Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP63S50.D Vial: 9
Acq Time : 05/29/2015 16:50 Operator: RJH
Sample : VSTD050W2 VSTD050W2 Inst : 5975-E
Misc : 2.5 uL 28016,17,19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 29 17:09:26 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.86	62	691469	56.5204	ug/Kg	99
28)	1,4-Dioxane	8.27	88	63512	1401.5048	ug/Kg	98
31)	1,1,1-Trichloroethane	6.11	97	804148	57.3521	ug/Kg	97
32)	Cyclohexane	5.71	56	1082966	61.3113	ug/Kg	98
33)	Carbon tetrachloride	6.00	117	763757	58.1127	ug/Kg	97
34)	Benzene	6.60	78	2035957	59.1238	ug/Kg#	100
36)	Trichloroethene	7.35	130	536854	60.1981	ug/Kg	99
37)	Methylcyclohexane	7.33	83	943360	62.3864	ug/Kg	99
38)	1,2-Dichloropropane	7.96	63	524604	57.3391	ug/Kg	98
40)	Bromodichloromethane	8.05	83	660564	56.8145	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.76	75	840222	58.5713	ug/Kg	98
43)	trans-1,3-Dichloropropene	9.47	75	753395	57.0872	ug/Kg	97
45)	1,1,2-Trichloroethane	9.64	97	365846	53.9578	ug/Kg	98
46)	Dibromochloromethane	9.83	129	467789	56.0360	ug/Kg	98
47)	4-Methyl-2-pentanone	9.44	43	782539	104.7662	ug/Kg	99
48)	Toluene	9.02	91	2182535	59.2050	ug/Kg	98
50)	Tetrachloroethene	9.43	164	443520	58.4414	ug/Kg	99
51)	2-Hexanone	10.32	43	729988	93.8667	ug/Kg	98
53)	1,2-Dibromoethane	10.06	107	345053	54.8336	ug/Kg	99
54)	Chlorobenzene	10.62	112	1414540	56.0556	ug/Kg	99
55)	Ethylbenzene	10.66	91	2515792	58.1097	ug/Kg	100
56)	m,p-Xylene	10.81	106	925299	58.5388	ug/Kg	99
57)	o-Xylene	11.25	106	878395	58.0866	ug/Kg	99
58)	Styrene	11.30	104	1479744	59.6383	ug/Kg	99
59)	Isopropylbenzene	11.57	105	2459824	59.6627	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	460007	54.9361	ug/Kg	99
63)	Bromoform	11.32	173	321983	54.6023	ug/Kg	100
64)	1,3-Dichlorobenzene	12.92	146	1088451	55.5705	ug/Kg	99
65)	1,4-Dichlorobenzene	13.01	146	1162736	56.0401	ug/Kg	99
66)	1,2-Dichlorobenzene	13.45	146	1028284	56.4433	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	77636	55.1044	ug/Kg	95
69)	1,2,4-Trichlorobenzene	15.00	180	711733	57.1207	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	633615	56.7635	ug/Kg	100

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

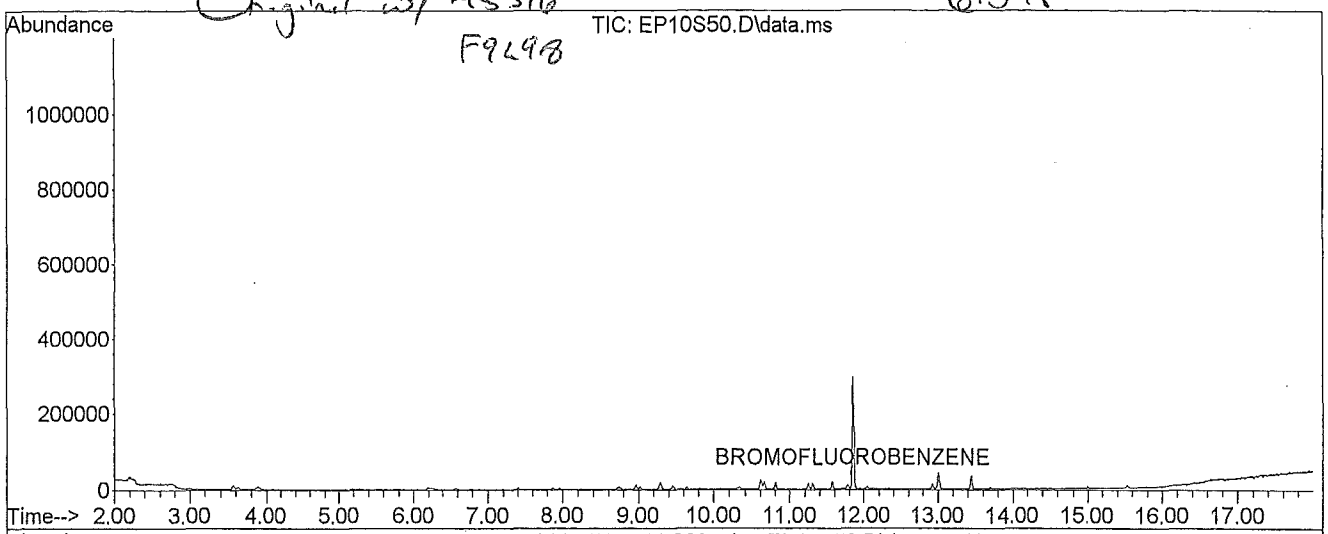
SOM01.2 BFB

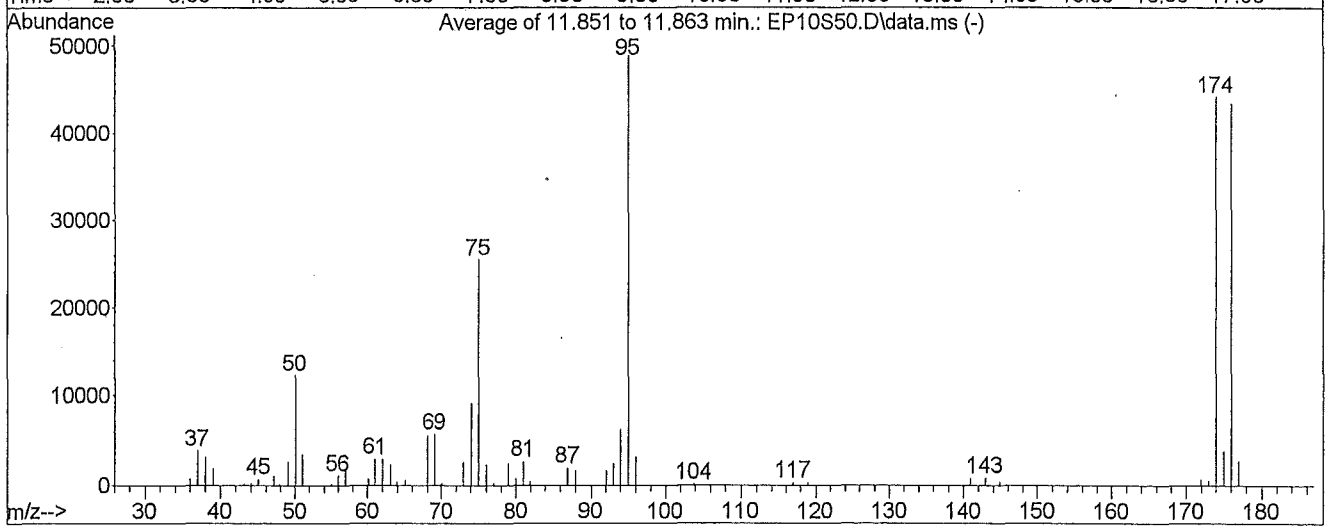
Data File : C:\msdchem\1\DATA\28MAY15E\EP10S50.D
Acq Time : 05/28/2015 09:40
Sample : BFBWE 50 ng BFB
Misc : 2.0 uL of 27660
MS Integration Params: rteint.p

Vial: 1
Operator: RJH
Inst : 5975-E
Multiplr: 1.00
Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

Original w/ HS316 6.3.15
F9L98





Peak Apex is scan: 1701
Average of 3 Scans: 1700,1701,1702 minus Background scan: 1693

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.18	12289	PASS
75	95	30	80	52.19	25472	PASS
95	95	100	100	100.00	48803	PASS
96	95	5	9	6.45	3149	PASS
173	174	0.00	2	1.24	548	PASS
174	95	50	120	90.45	44141	PASS
175	174	5	9	8.60	3797	PASS
176	174	95	101	98.23	43360	PASS
177	176	5	9	6.30	2733	PASS

EP10S50.D BFB_SOM.M Wed Jun 03 16:55:27 2015

Data File : C:\msdchem\1\DATA\28MAY15E\EP10S50.D
Inject Time: 05/28/2015 09:40 Operator:RJH
Sample : BFBWE 5 Inst :5975-E
Misc : 2.0 uL of 27660

Average of 11.851 to 11.863 min.: EP10S50.D\data.ms
BFBWE 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	723	51.05	3441	69.00	5708	81.95	390
37.00	3860	55.00	149	69.90	155	87.00	1939
38.05	3145	55.95	1099	70.10	223	88.00	1603
39.05	1832	57.00	1825	72.95	2591	92.05	1613
43.10	146	60.15	753	74.05	9173	93.05	2434
44.05	259	61.05	2989	75.00	25472	94.00	6262
45.00	682	62.00	2971	76.05	2292	95.00	48803
47.05	1025	63.05	2263	77.00	274	96.00	3149
47.90	152	63.95	398	78.90	2433	103.80	140
49.05	2677	65.05	510	79.95	725	116.95	332
50.05	12289	68.00	5476	80.95	2646	118.90	294

Average of 11.851 to 11.863 min.: EP10S50.D\data.ms
BFBWE 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.95	761						
142.95	836						
144.85	389						
171.90	656						
172.95	548						
173.95	44141						
175.00	3797						
176.00	43360						
176.95	2733						

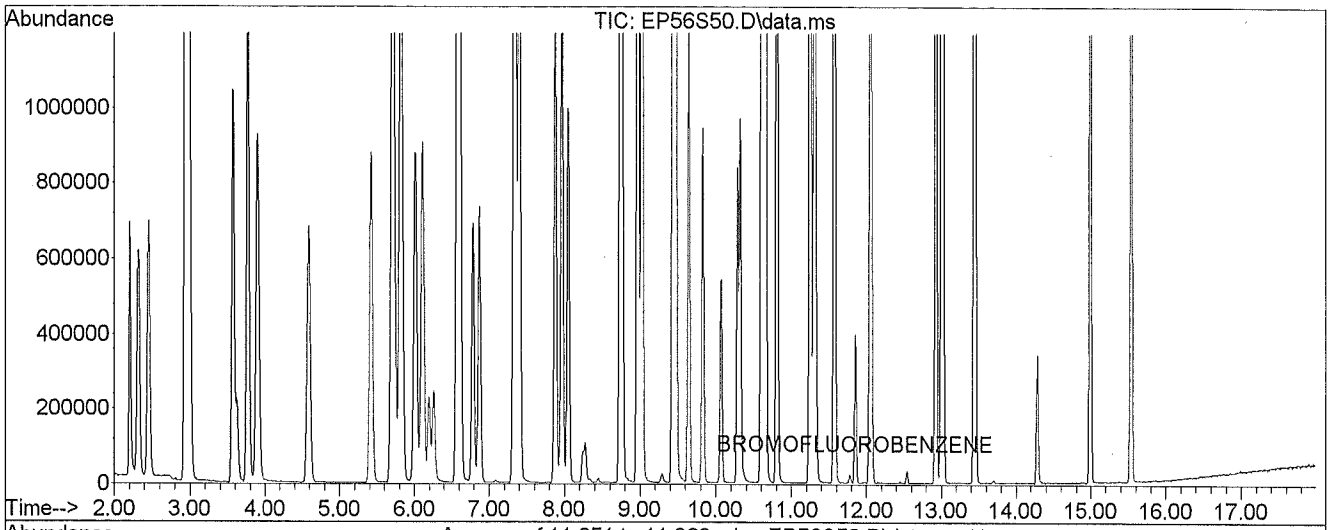
SOM01.2 BFB

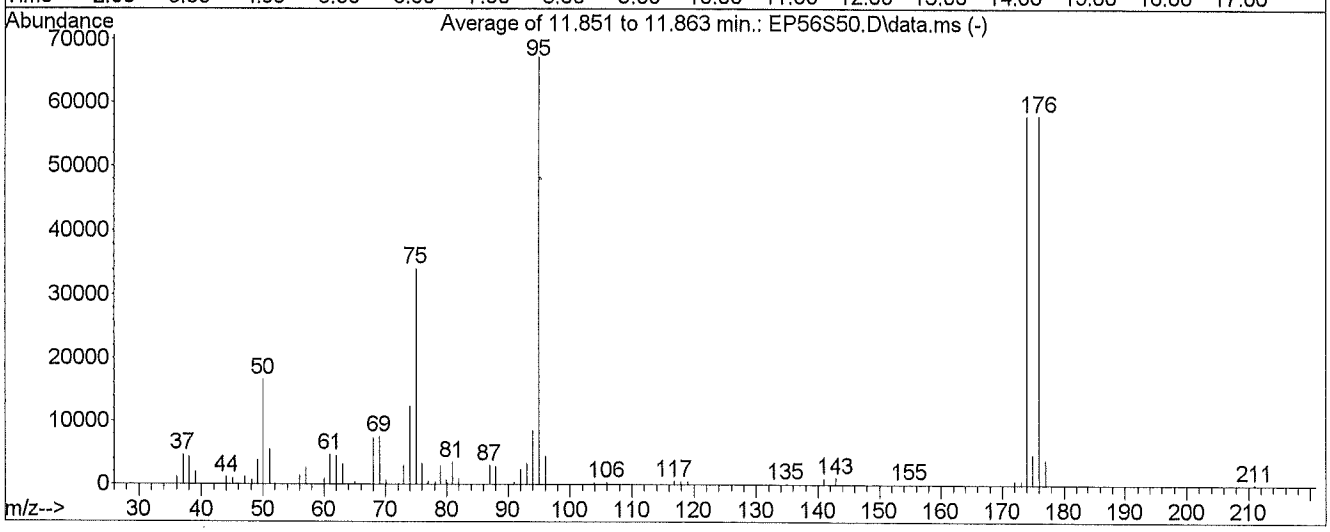
Data File : C:\msdchem\1\DATA\29MAY15E\EP56S50.D
Acq Time : 05/29/2015 13:43
Sample : VSTD050W1 VSTD050W1
Misc : BFBW1 2.5uL 28016,17,19; 2uL 27660
MS Integration Params: rteint.p

Vial: 2
Operator: RJH
Inst : 5975-E
Multiplr: 1.00
Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

6/11/15





Peak Apex is scan: 1701
Average of 3 Scans: 1700,1701,1702 minus Background scan: 1694

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.69	16593	PASS
75	95	30	80	50.72	34093	PASS
95	95	100	100	100.00	67213	PASS
96	95	5	9	6.58	4422	PASS
173	174	0.00	2	1.03	596	PASS
174	95	50	120	86.17	57915	PASS
175	174	5	9	8.25	4776	PASS
176	174	95	101	100.02	57925	PASS
177	176	5	9	6.60	3825	PASS

EP56S50.D BFB_SOM.M Fri May 29 14:33:30 2015

Data File : C:\msdchem\1\DATA\29MAY15E\EP56S50.D
Inject Time: 05/29/2015 13:43 Operator:RJH
Sample : VSTD050W1 Inst :5975-E
Misc : BFBW1 2.5uL 28016,1

Average of 11.851 to 11.863 min.: EP56S50.D\data.ms
VSTD050W1 VSTD050W1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1282	51.10	5437	69.00	7466	79.90	567
37.05	4641	52.00	136	70.10	648	80.10	247
38.05	4239	56.05	1481	72.10	193	80.90	3459
39.00	1996	57.00	2514	73.00	3009	81.95	817
41.10	134	60.05	862	74.00	12327	87.00	2941
44.00	1122	61.00	4640	75.00	34093	87.95	2702
45.05	920	62.05	4488	76.00	3254	90.95	317
47.00	1065	63.00	3205	76.80	208	92.00	2350
48.15	611	63.90	188	77.00	384	93.05	3236
49.05	3753	65.05	339	78.10	354	94.00	8500
50.05	16593	68.05	7297	78.95	2874	95.05	67213

Average of 11.851 to 11.863 min.: EP56S50.D\data.ms
VSTD050W1 VSTD050W1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.05	4422	172.00	616				
103.90	184	173.10	596				
106.00	363	174.00	57915				
116.85	542	174.95	4776				
117.90	443	176.00	57925				
119.00	522	177.00	3825				
129.90	140	211.00	193				
134.90	162						
140.95	914						
142.90	1097						
154.90	139						

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

EPA SAMPLE NO.

VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 449329

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP57BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	1.0	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

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

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

EPA SAMPLE NO.: VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 449329

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP57BLK

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.18	J
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.44	J
87-61-6	1,2,3-Trichlorobenzene	0.54	J

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

EPA SAMPLE NO.: VBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 449329

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP57BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

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

[1] EPA-designated Registry Number.

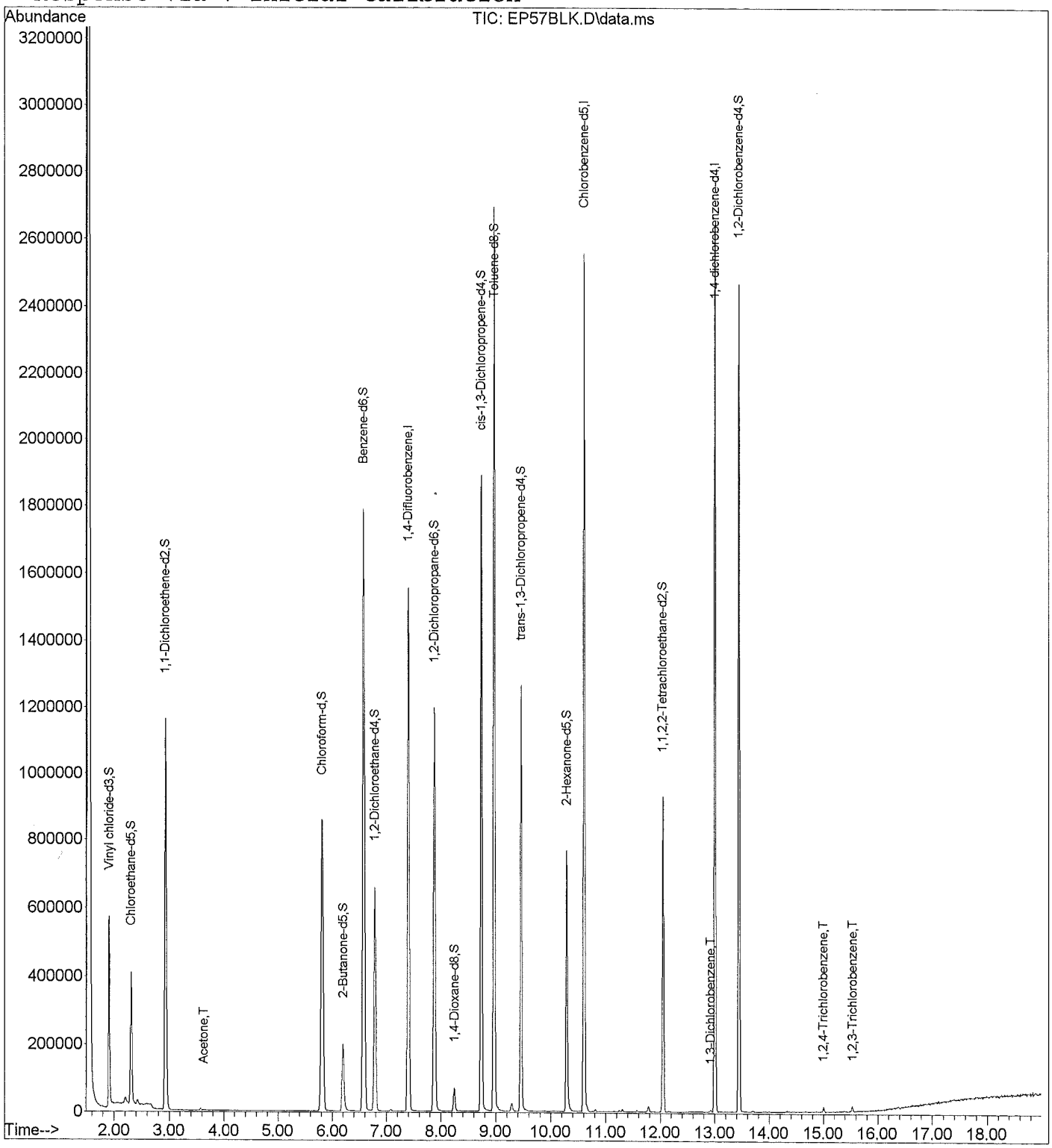
Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP57BLK.D Vial: 3
Acq Time : 05/29/2015 14:08 Operator: RJH
Sample : 449329 VBLKW1 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:45:46 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration

6/11/15



Quantitation Report

Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP57BLK.D Vial: 3
Acq Time : 05/29/2015 14:08 Operator: RJH
Sample : 449329 VBLKW1 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:45:46 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1354397	50.0000 ug/Kg	82.14
30) Chlorobenzene-d5	10.60	117	1309690	50.0000 ug/Kg	86.01
62) 1,4-dichlorobenzene-d4	13.00	152	658357	50.0000 ug/Kg	78.19
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	469648	57.9131 ug/Kg	115.83%
8) Chloroethane-d5	2.31	69	374409	58.0576 ug/Kg	116.12%
11) 1,1-Dichloroethene-d2	2.93	63	889177	45.5880 ug/Kg	91.18%
22) 2-Butanone-d5	6.19	46	340059	103.2628 ug/Kg	103.26%
25) Chloroform-d	5.81	84	937770	56.9518 ug/Kg	113.90%
27) 1,2-Dichloroethane-d4	6.78	65	543825	58.5594 ug/Kg	117.12%
29) 1,4-Dioxane-d8	8.24	96	52209	1241.6956 ug/Kg	124.17%
35) Benzene-d6	6.58	84	1894041	56.2687 ug/Kg	112.54%
39) 1,2-Dichloropropane-d6	7.88	67	573520	56.5003 ug/Kg	113.00%
42) cis-1,3-Dichloropropene-d4	8.74	79	1022409	56.0162 ug/Kg	112.03%
44) trans-1,3-Dichloropropene-	9.46	79	633896	53.0354 ug/Kg	106.07%
49) Toluene-d8	8.97	98	1770184	58.1084 ug/Kg	116.22%
52) 2-Hexanone-d5	10.28	63	227228	105.8643 ug/Kg	105.86%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	463628	53.0633 ug/Kg	106.13%
67) 1,2-Dichlorobenzene-d4	13.44	152	620058	56.9772 ug/Kg	113.95%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	4526	1.0142 ug/Kg	74
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

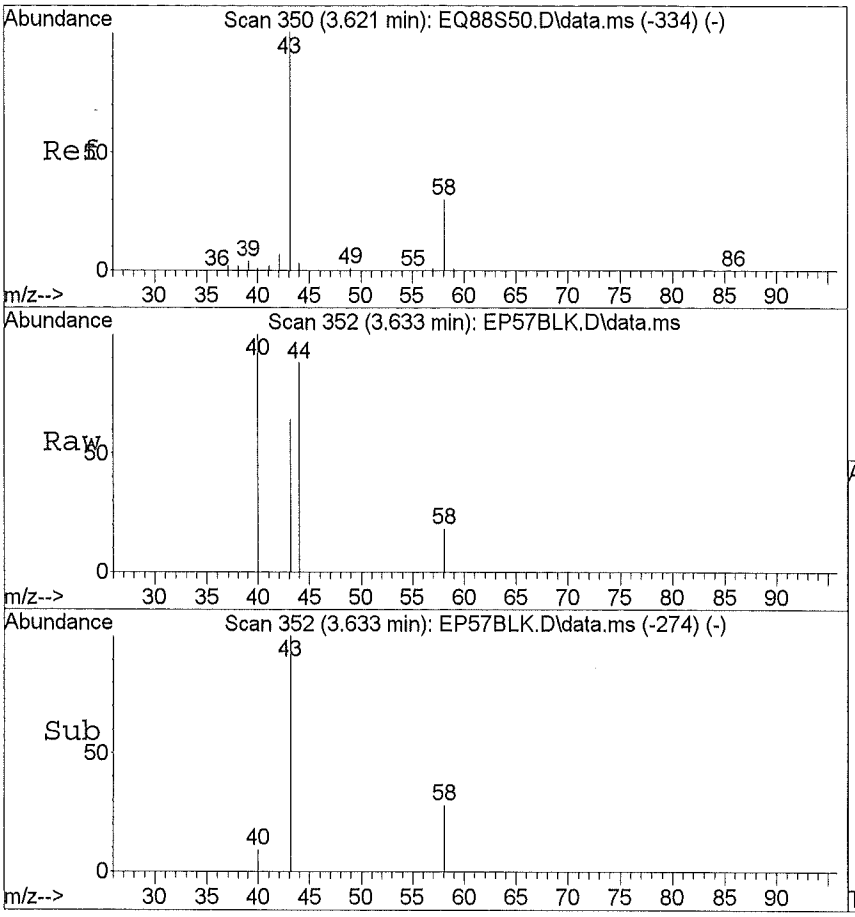
Data File : C:\msdchem\1\Data by...5E\29MAY15E\EP57BLK.D Vial: 3
Acq Time : 05/29/2015 14:08 Operator: RJH
Sample : 449329 VBLKW1 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:45:46 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	12.92	146	3249	0.1813 ug/Kg	94
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	15.00	180	4965	0.4355 ug/Kg	92
70)	1,2,3-Trichlorobenzene	15.54	180	5471	0.5357 ug/Kg	93

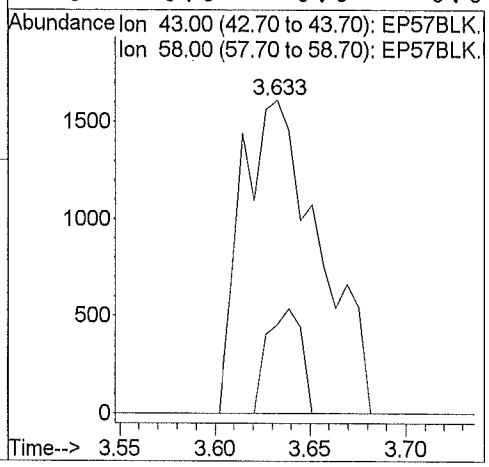
(#) = qualifier out of range (m) = manual integration

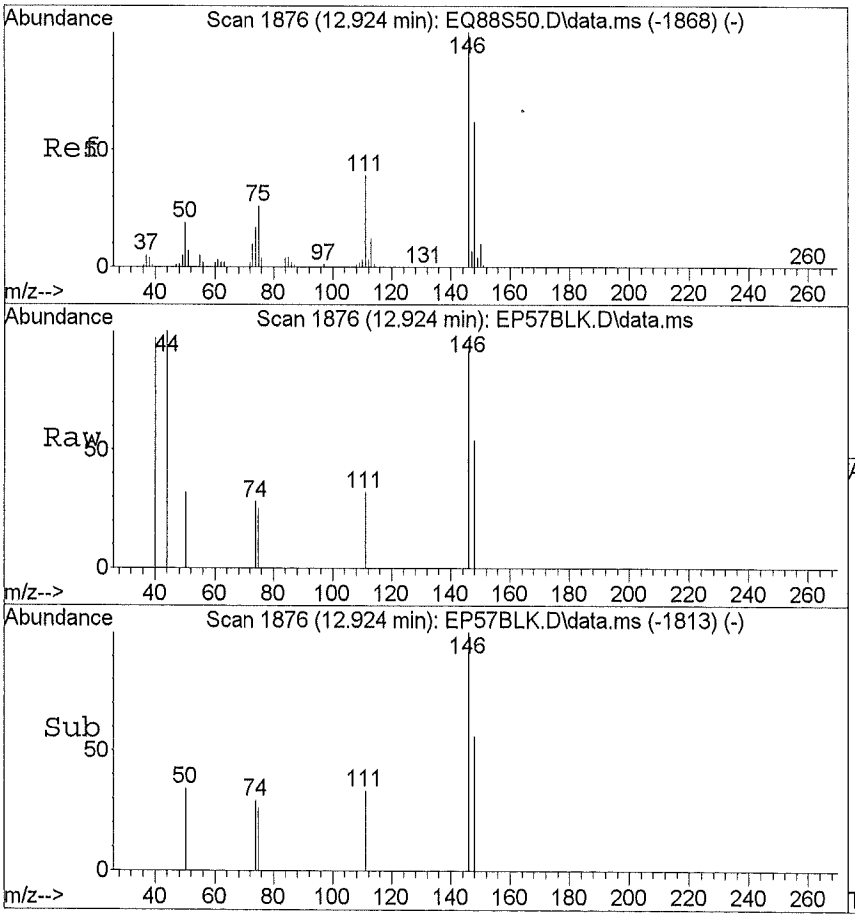


#13
Acetone
Concen: 1.01 ug/Kg
RT: 3.63 min Scan# 352
Delta R.T. 0.01 min
Lab File: EP57BLK.D
Acq: 05/29/2015 14:08

Tgt Ion:43 Resp: 4526

Ion	Ratio	Lower	Upper
43	100		
58	14.8	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

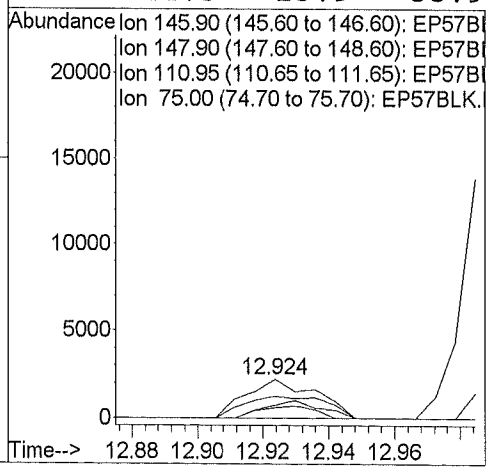


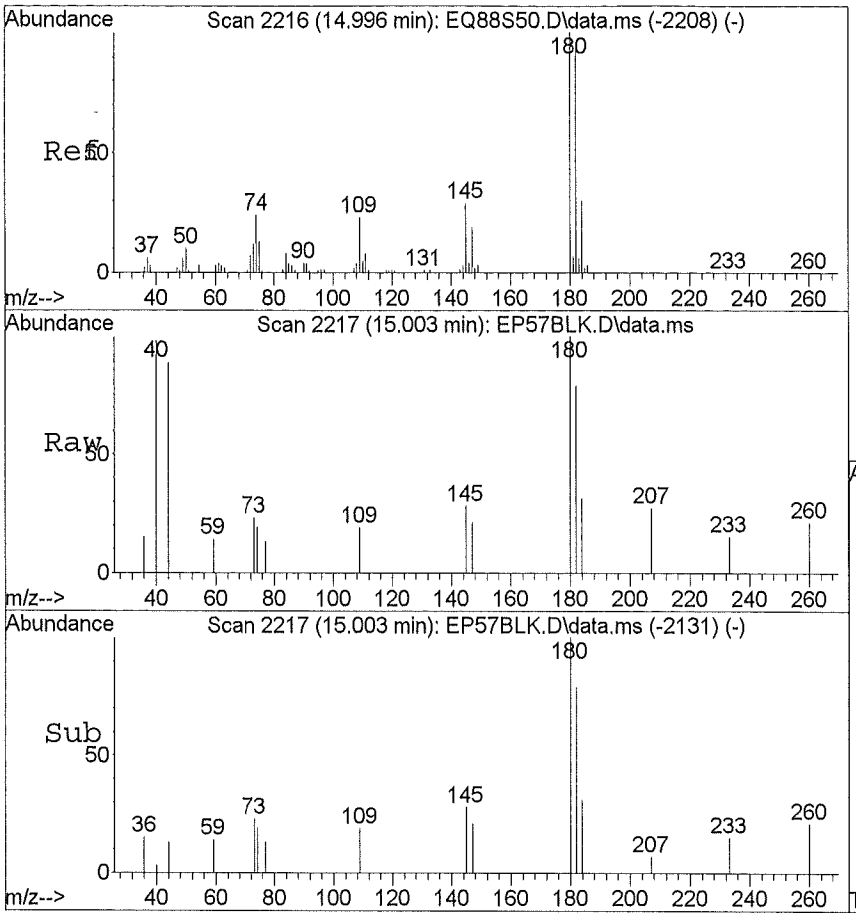


#64
1,3-Dichlorobenzene
Concen: 0.18 ug/Kg
RT: 12.92 min Scan# 1876
Delta R.T. 0.00 min
Lab File: EP57BLK.D
Acq: 05/29/2015 14:08

Tgt Ion:145.9 Resp: 3249

Ion	Ratio	Lower	Upper
146	100		
148	66.3	51.0	76.6
111	36.2	31.8	47.8
75	24.5	23.9	35.9

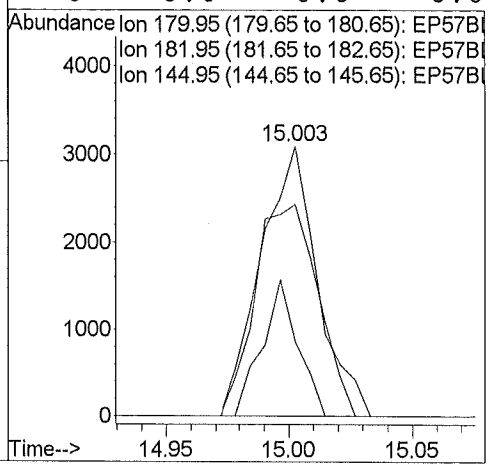


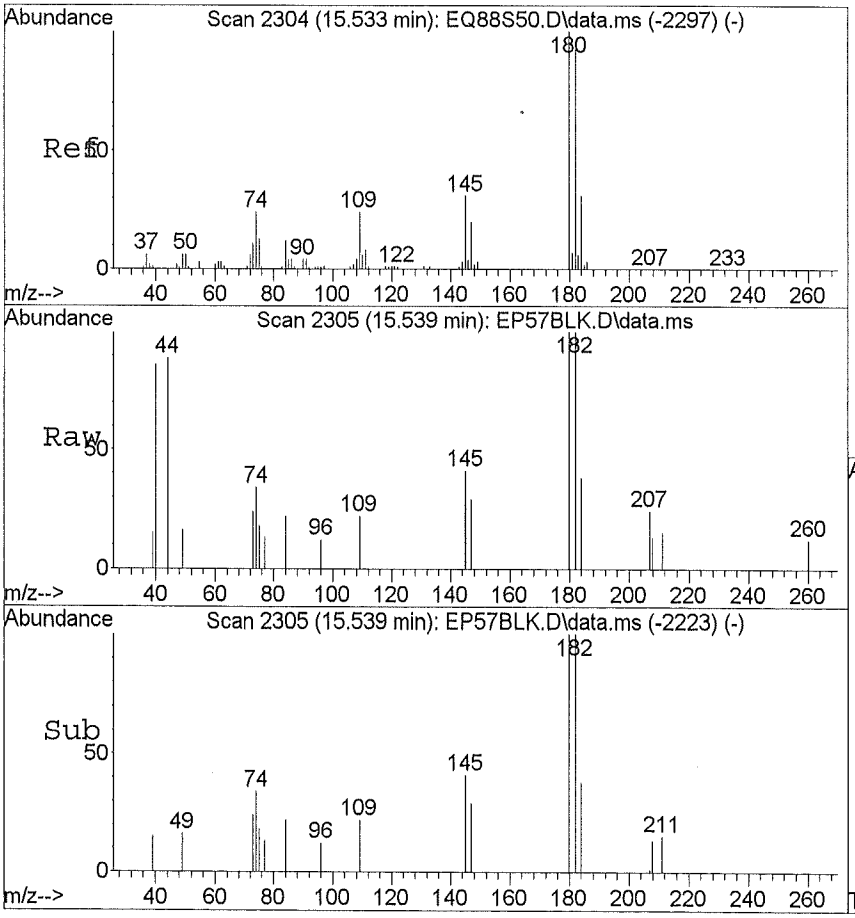


#69
1,2,4-Trichlorobenzene
Concen: 0.44 ug/Kg
RT: 15.00 min Scan# 2217
Delta R.T. 0.01 min
Lab File: EP57BLK.D
Acq: 05/29/2015 14:08

Tgt Ion:179.95 Resp: 4965

Ion	Ratio	Lower	Upper
180	100		
182	87.1	76.6	114.8
145	31.9	22.6	34.0
0	0.0	0.0	0.0

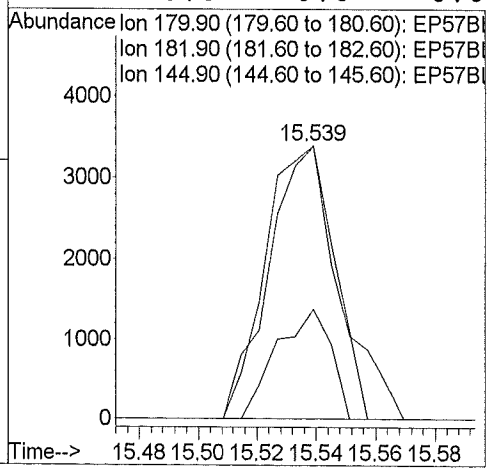




#70
1,2,3-Trichlorobenzene
Concen: 0.54 ug/Kg
RT: 15.54 min Scan# 2305
Delta R.T. 0.01 min
Lab File: EP57BLK.D
Acq: 05/29/2015 14:08

Tgt Ion:179.9 Resp: 5471

Ion	Ratio	Lower	Upper
180	100		
182	102.3	75.7	113.5
145	32.0	23.9	35.9
0	0.0	0.0	0.0



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

EPA SAMPLE NO.: VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 449328

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP62HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.45	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

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

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

EPA SAMPLE NO.

VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 449328

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP62HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/29/2015

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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

EPA SAMPLE NO.: VHBLKW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 449328

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: EP62HBLK

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/29/2015

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

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

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

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

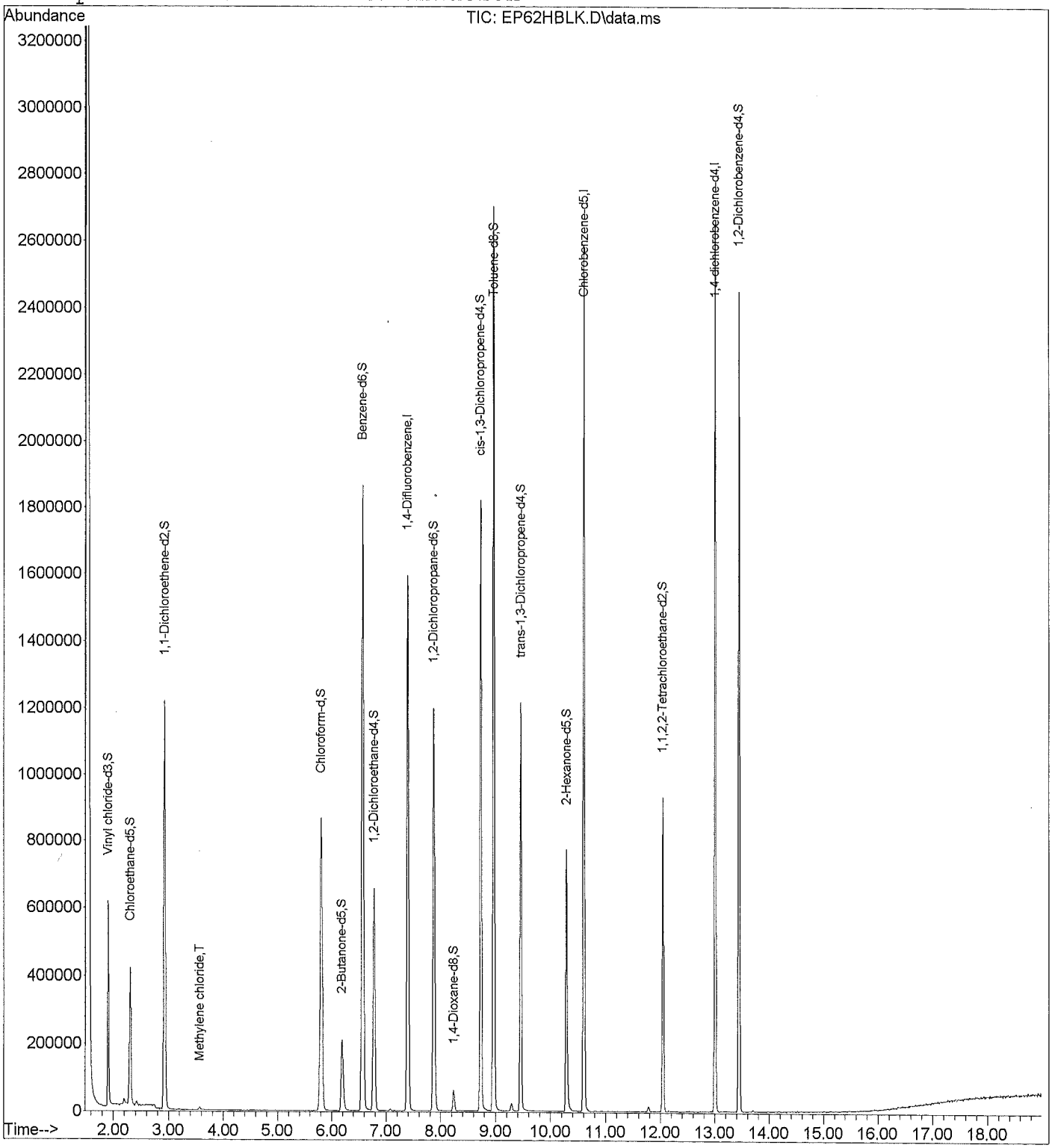
[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP62HBLK.D Vial: 8
Acq Time : 05/29/2015 16:20 Operator: RJH
Sample : 449328 VHBLKW1 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:50:34 2015 Results File: ECLPSB3.RES

Method : C:\msdchem\1\methods\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 11 09:42:14 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\Data by...E\29MAY15E\EP62HBLK.D Vial: 8
Acq Time : 05/29/2015 16:20 Operator: RJH
Sample : 449328 VHBLKW1 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:50:34 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1365656	50.0000 ug/Kg	82.83
30) Chlorobenzene-d5	10.60	117	1308558	50.0000 ug/Kg	85.94
62) 1,4-dichlorobenzene-d4	13.00	152	650976	50.0000 ug/Kg	77.32
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	1.91	65	486605	59.5094 ug/Kg	119.02%
8) Chloroethane-d5	2.31	69	392975	60.4342 ug/Kg	120.87%
11) 1,1-Dichloroethene-d2	2.93	63	933174	47.4492 ug/Kg	94.90%
22) 2-Butanone-d5	6.19	46	350366	105.5155 ug/Kg	105.52%
25) Chloroform-d	5.80	84	962733	57.9858 ug/Kg	115.97%
27) 1,2-Dichloroethane-d4	6.78	65	548692	58.5964 ug/Kg	117.19%
29) 1,4-Dioxane-d8	8.24	96	46184	1089.3463 ug/Kg	108.93%
35) Benzene-d6	6.57	84	1946038	57.8635 ug/Kg	115.73%
39) 1,2-Dichloropropane-d6	7.87	67	578484	57.0387 ug/Kg	114.08%
42) cis-1,3-Dichloropropene-d4	8.73	79	1020912	55.9826 ug/Kg	111.97%
44) trans-1,3-Dichloropropene-	9.45	79	630970	52.8363 ug/Kg	105.67%
49) Toluene-d8	8.97	98	1803566	59.2554 ug/Kg	118.51%
52) 2-Hexanone-d5	10.28	63	222320	103.6673 ug/Kg	103.67%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	449064	51.4409 ug/Kg	102.88%
67) 1,2-Dichlorobenzene-d4	13.44	152	621505	57.7577 ug/Kg	115.52%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.56	84	3908	0.4547 ug/Kg	97
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

Quantitation Report

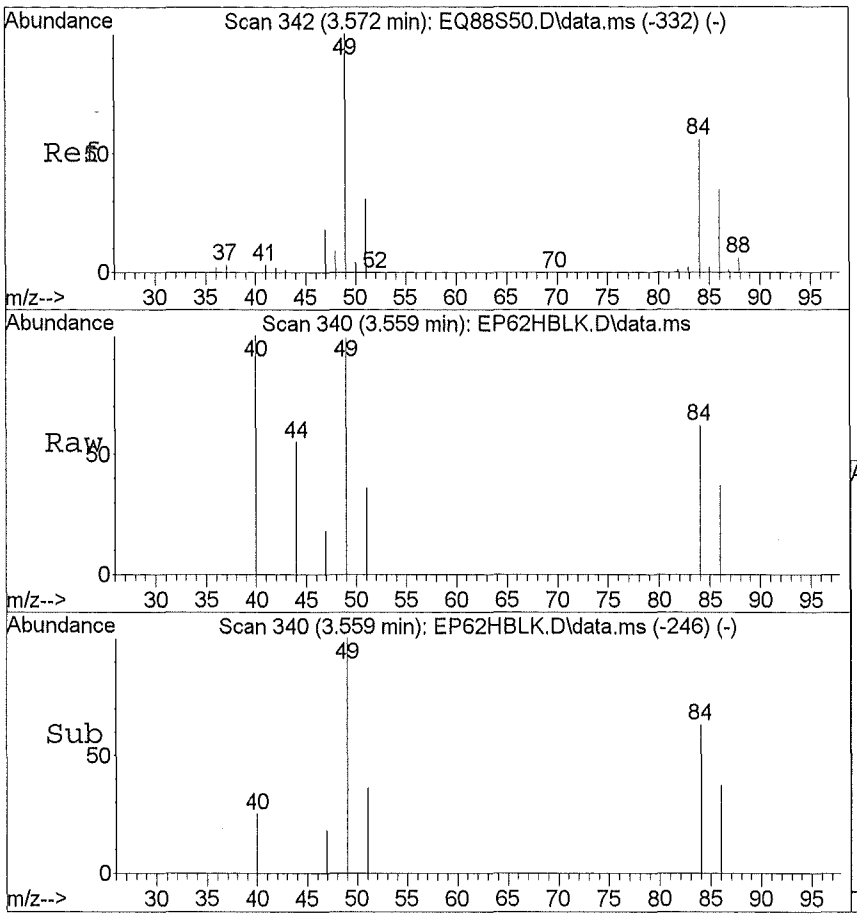
Data File : C:\msdchem\1\Data by...E\29MAY15E\EP62HBLK.D Vial: 8
Acq Time : 05/29/2015 16:20 Operator: RJH
Sample : 449328 VHBLKW1 Inst : 5975-E
Misc : 2.5 uL 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 11 08:50:34 2015 Results File: ECLPSB3.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB3.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 28 14:53:02 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB3.M

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

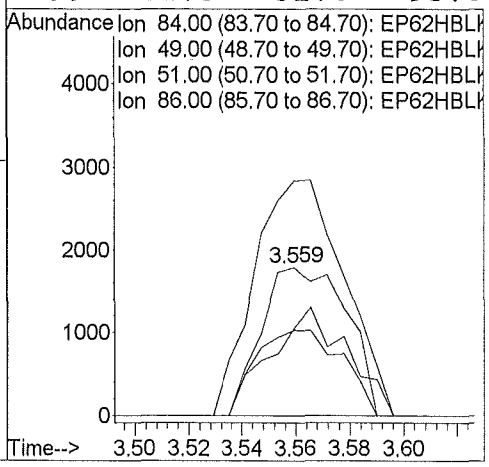
(#) = qualifier out of range (m) = manual integration



#16
Methylene chloride
Concen: 0.45 ug/Kg
RT: 3.56 min Scan# 340
Delta R.T. -0.01 min
Lab File: EP62HBLK.D
Acq: 05/29/2015 16:20

Tgt Ion:84 Resp: 3908

Ion	Ratio	Lower	Upper
84	100		
49	167.7	84.4	253.2
51	57.9	25.7	77.0
86	64.8	31.6	95.0



2G - FORM II SV-1

WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9L54	61	58	59	70	63	63	63	86
02	F9L55	73	69	70	83	74	74	73	100
03	F9L74	65	62	63	74	67	66	65	89
04	SBLK34	63	62	62	74	67	69	65	92
05									
06									
07									
08									
09									
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	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(39-106)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(40-105)
SDMC3 (2CP) = 2-Chlorophenol-d4	(41-106)
SDMC4 (4MP) = 4-Methylphenol-d8	(25-111)
SDMC5 (NBZ) = Nitrobenzene-d5	(43-108)
SDMC6 (2NP) = 2-Nitrophenol-d4	(40-108)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(37-105)
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

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	F9L54	82	74	78	80	72	85	93	88	0
02	F9L55	93	85	87	91	80	95	104	96	0
03	F9L74	84	77	78	81	72	86	97	90	0
04	SBLK34	84	77	73	81	72	84	91	86	0
05										
06										
07										
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30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(47-114)
SDMC10 (ACY) = Acenaphthylene-d8	(41-107)
SDMC11 (4NP) = 4-Nitrophenol-d4	(33-116)
SDMC12 (FLR) = Fluorene-d10	(42-111)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14 (ANC) = Anthracene-d10	(44-110)
SDMC15 (PYR) = Pyrene-d10	(52-119)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(32-121)

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.: SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Lab File ID: DFN02BLK Lab Sample ID: 448734

Instrument ID: 5975-D Date Extracted: 05/27/2015

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/28/2015

Level: (LOW/MED) LOW Time Analyzed: 17:35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L54	1514277001	DFN04F01	05/28/2015
02	F9L55	1514277002	DFN05F02	05/28/2015
03	F9L74	1514306002	DFN06F02	05/28/2015
04				
05				
06				
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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.: F9L37

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

EPA SAMPLE NO.: DFTPPDN

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Lab File ID: DFN01S20 DFTPP Injection Date: 05/28/2015

Instrument ID: 5975-D DFTPP Injection Time: 16:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	33.3
70	Less than 2.0% of mass 69	0.3 (0.9) 1
127	10.0 - 80.0% of mass 198	42.5
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	6.7
275	10.0 - 60.0% of mass 198	23.5
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	8.5
442	50.0 - 100% of mass 198	56.4
443	15.0 - 24.0% of mass 442	11.0 (19.6) 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	SSTD020DN	SSTD020DN	DFN01S20	05/28/2015	16:59
02	SBLK34	448734	DFN02BLK	05/28/2015	17:35
03	F9L54	1514277001	DFN04F01	05/28/2015	18:41
04	F9L55	1514277002	DFN05F02	05/28/2015	19:14
05	F9L74	1514306002	DFN06F02	05/28/2015	19:47
06	SSTD020N1	SSTD020N1	DFN12S20	05/28/2015	23:03
07					
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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.: F9L37

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

EPA Sample No.(SSTD020##): SSTD020DN Date Analyzed: 05/28/2015

Lab File ID (Standard): DFN01S20 Time Analyzed: 16:59

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	927637	5.10	3215474	6.56	2112124	9.23
	UPPER LIMIT	1855274	5.60	6430948	7.06	4224248	9.73
	LOWER LIMIT	463819	4.60	1607737	6.06	1056062	8.73
	EPA SAMPLE NO.						
01	SBLK34	892294	5.10	3104074	6.56	1988347	9.23
02	F9L54	843239	5.11	2945984	6.56	1912549	9.23
03	F9L55	801254	5.11	2818538	6.56	1812986	9.23
04	F9L74	868751	5.11	3031290	6.56	1949431	9.23
05							
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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.: F9L37

EPA Sample No.(SSTD020##): SSTD020DN Date Analyzed: 05/28/2015

Lab File ID (Standard): DFN01S20 Time Analyzed: 16:59

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	3720791	11.88	4260810	16.03	3710387	18.60
	UPPER LIMIT	7441582	12.38	8521620	16.53	7420774	19.10
	LOWER LIMIT	1860396	11.38	2130405	15.53	1855194	18.10
	EPA SAMPLE NO.						
01	SBLK34	3527166	11.88	3935578	16.02	3629575	18.60
02	F9L54	3388686	11.88	3840470	16.02	3603747	18.59
03	F9L55	3200811	11.88	3536989	16.02	3300480	18.59
04	F9L74	3411514	11.88	3724611	16.02	3407490	18.60
05							
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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.

F9L54

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN04F01

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

% Moisture: Decanted: (Y/N) Date Received: 05/22/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	0.68	J
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

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

EPA SAMPLE NO.

F9L54

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN04F01

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

% Moisture: Decanted: (Y/N) Date Received: 05/22/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: F9L54

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277001
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN04F01
Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/22/2015
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Amylene hydrate	2.16	2.9	JB
02		Unknown Amylene hydrate	2.20	2.0	JB
03	90-05-1	Phenol, 2-methoxy-	5.63	10.	JN
04	121-33-5	Vanillin	8.34	4.2	JN
05		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.99	2.9	J
06	82304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-	12.66	4.2	JN
07	112-84-5	13-Docosenamide, (Z)-	17.34	2.7	JN
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	E966796[2]	Total Alkanes	N/A	43.	J

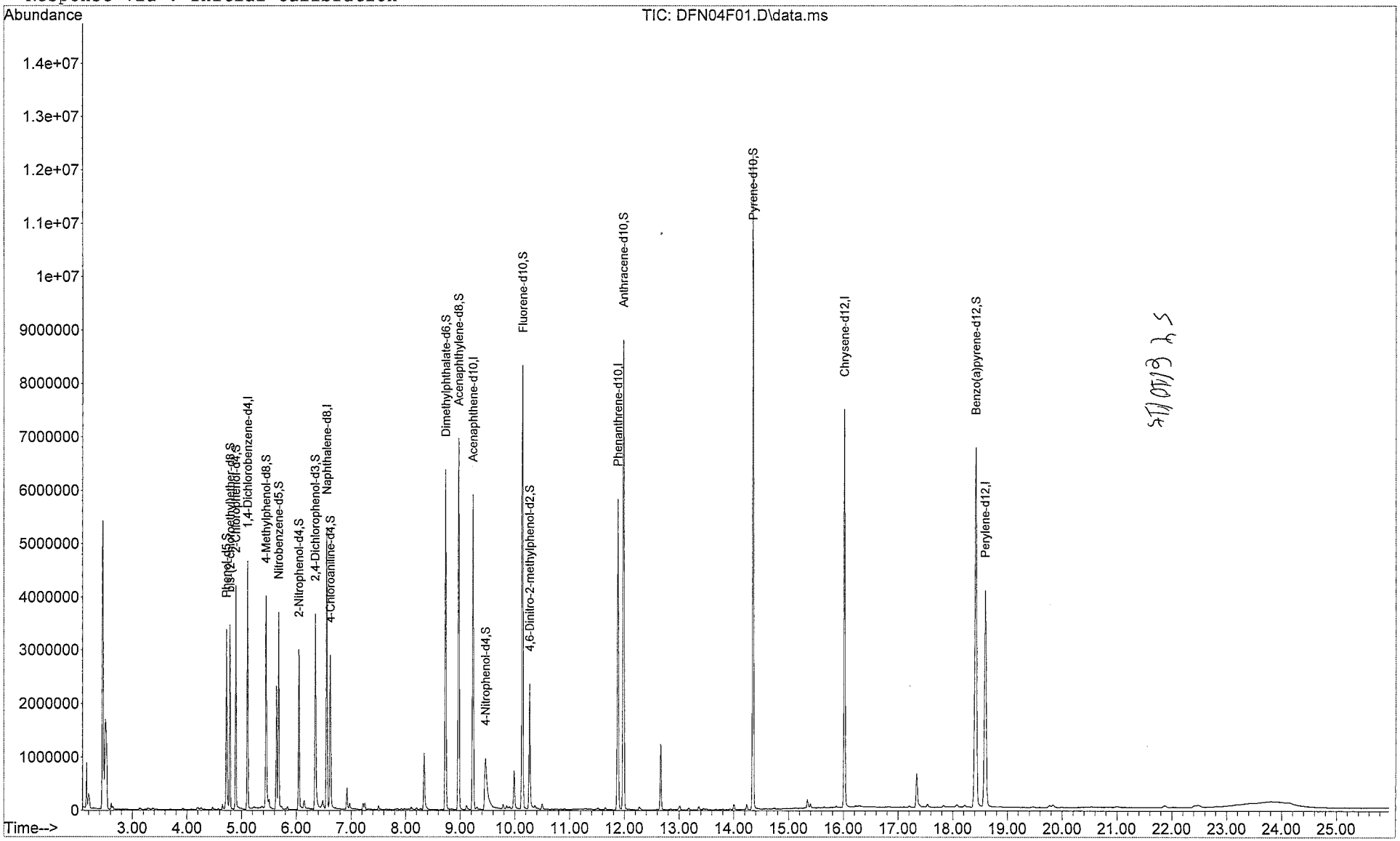
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 11:41:17 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...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:41:17 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	843239	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2945984	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1912549	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3388686	20.00 ug/ml
73) Chrysene-d12	16.02	240	3840470	20.00 ug/ml
81) Perylene-d12	18.59	264	3603747	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1285224	24.490ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	890233	23.183ug/mL
7) 2-Chlorophenol-d4	4.89	132	1225371	23.425ug/ml
13) 4-Methylphenol-d8	5.45	113	1105079	28.092ug/mL
17) Nitrobenzene-d5	5.68	128	605411	25.090ug/ml
21) 2-Nitrophenol-d4	6.05	143	719924	25.160ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1163686	25.166ug/mL
28) 4-Chloroaniline-d4	6.62	131	1196109	34.431ug/mL
42) Dimethylphthalate-d6	8.73	166	3870429	32.823ug/mL
45) Acenaphthylene-d8	8.97	160	4625659	29.792ug/mL
50) 4-Nitrophenol-d4	9.46	143	614195	31.360ug/mL
57) Fluorene-d10	10.14	176	3331936	31.977ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	620463	28.994ug/mL
69) Anthracene-d10	11.99	188	5930748	34.162ug/mL
75) Pyrene-d10	14.35	212	6018684	37.214ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5795175	35.139ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	0.00	77		Not Detected	
4) Phenol	0.00	94		Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected	
8) 2-Chlorophenol	0.00	128		Not Detected	
9) 2-Methylphenol	0.00	108		Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected	
11) Acetophenone	5.50	105	41089	0.684ug/ml	95
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)

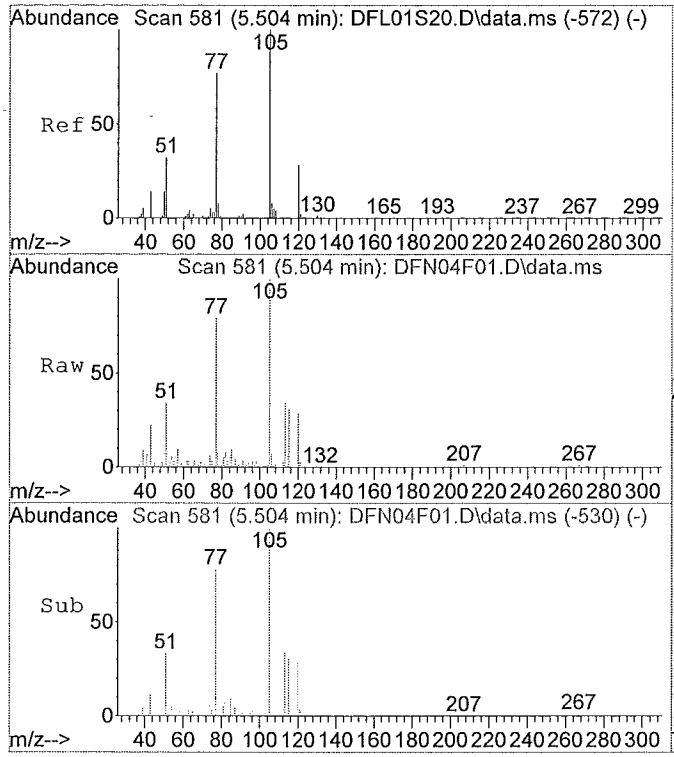
Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:41:17 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	

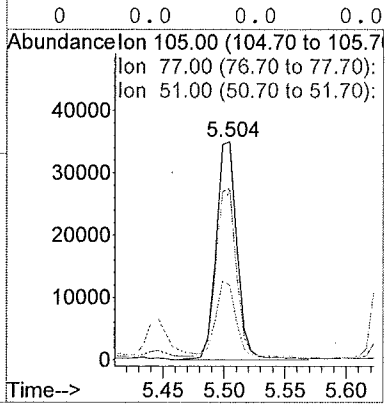
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#11
Acetophenone
Concen: 0.68 ug/ml
RT: 5.50 min Scan# 581
Delta R.T. 0.00 min
Lab File: DFN04F01.D
Acq: 05/28/2015 18:41

Tgt Ion:105 Resp: 41089

Ion	Ratio	Lower	Upper
105	100		
77	75.6	51.1	94.9
51	32.7	19.7	36.7
0	0.0	0.0	0.0



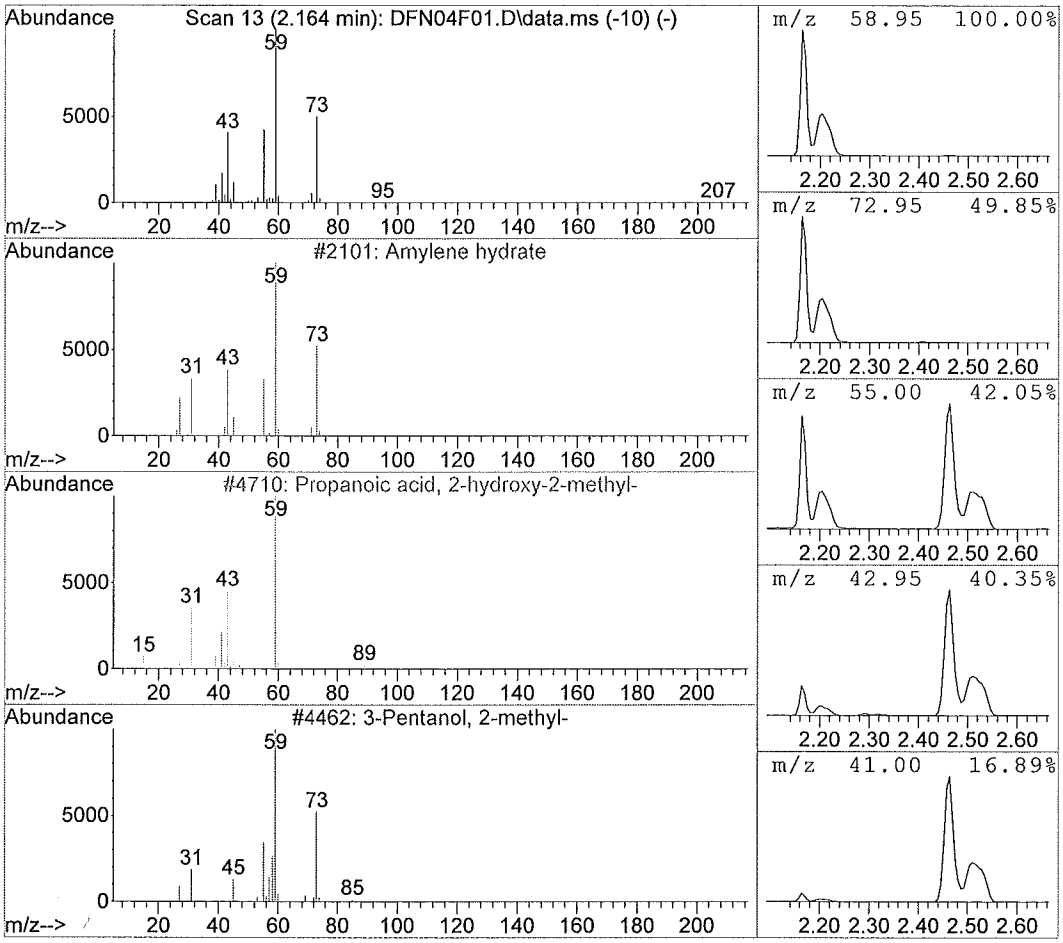
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER 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
2.16	2.89 ug/ml	744116	1,4-Dichlorobenzene-d4	5152788

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	83.00
2	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	59.00
3	3-Pentanol, 2-methyl-	4462	000565-67-3	50.00
4	3-Hexanol	4415	000623-37-0	40.00
5	Silane, trimethyl-	800	000993-07-7	38.00



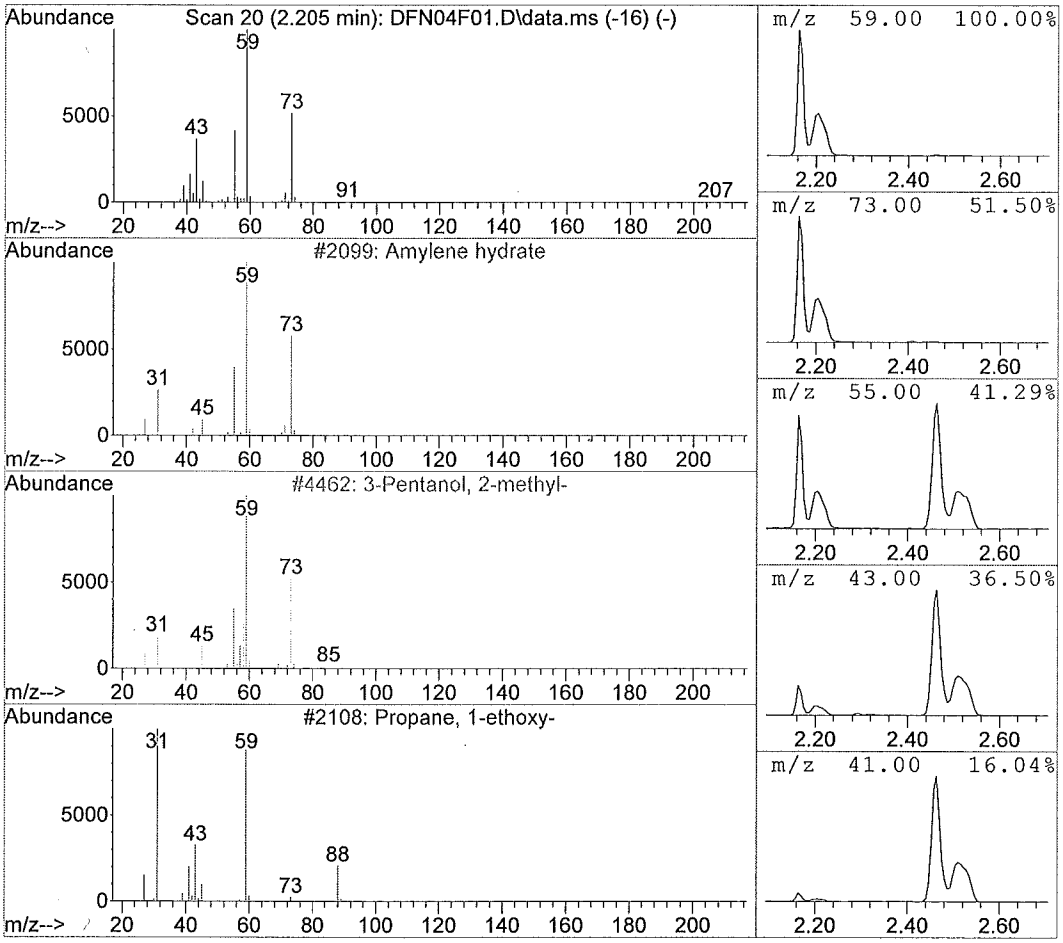
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER 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
2.20	2.04 ug/ml	525953	1,4-Dichlorobenzene-d4	5152788

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2099	000075-85-4	83.00
2	3-Pentanol, 2-methyl-	4462	000565-67-3	56.00
3	Propane, 1-ethoxy-	2108	000628-32-0	45.00
4	3-Hexanol	4415	000623-37-0	39.00
5	3-Hydroxy-3-methyl-2-butanone	4324	000115-22-0	36.00



Library Search Compound Report

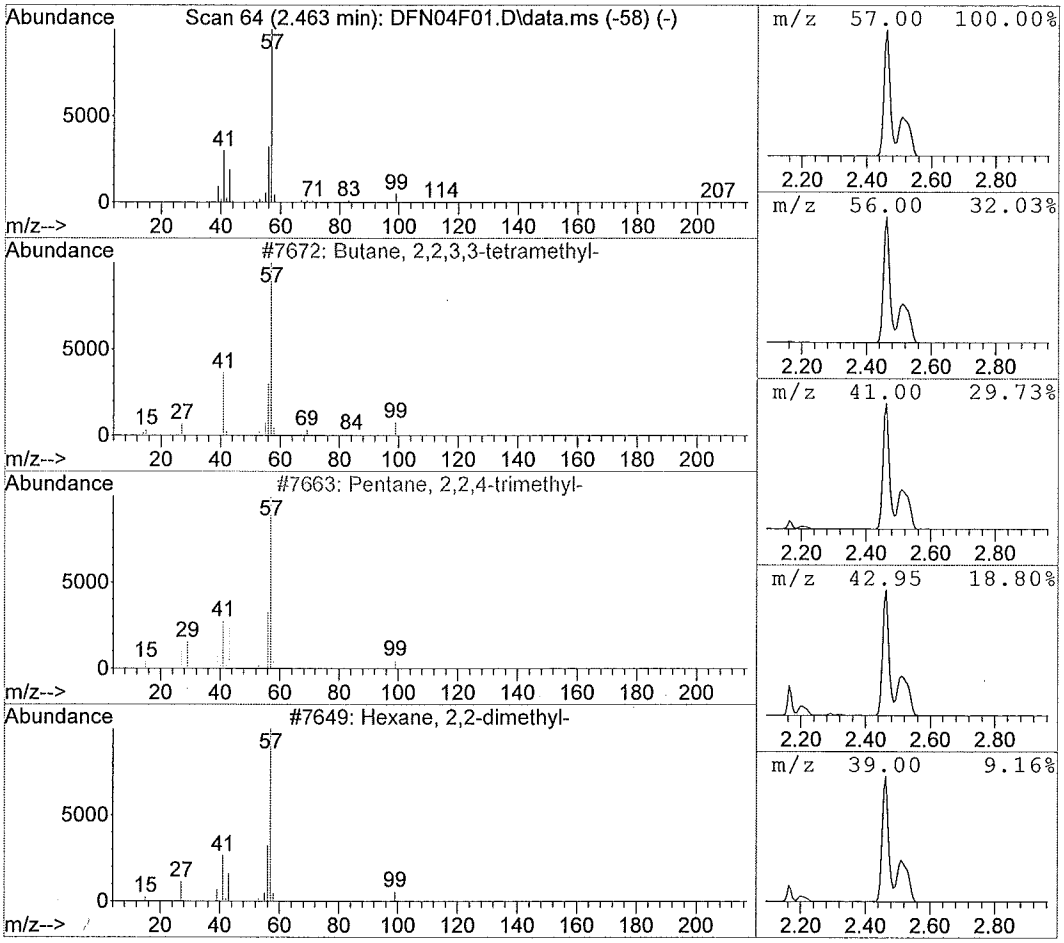
Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

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
2.46	27.71 ug/ml	7139955	1,4-Dichlorobenzene-d4	5152788

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	7672	000594-82-1	83.00
2	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
3	Hexane, 2,2-dimethyl-	7649	000590-73-8	78.00
4	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	72.00
5	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	72.00

BA



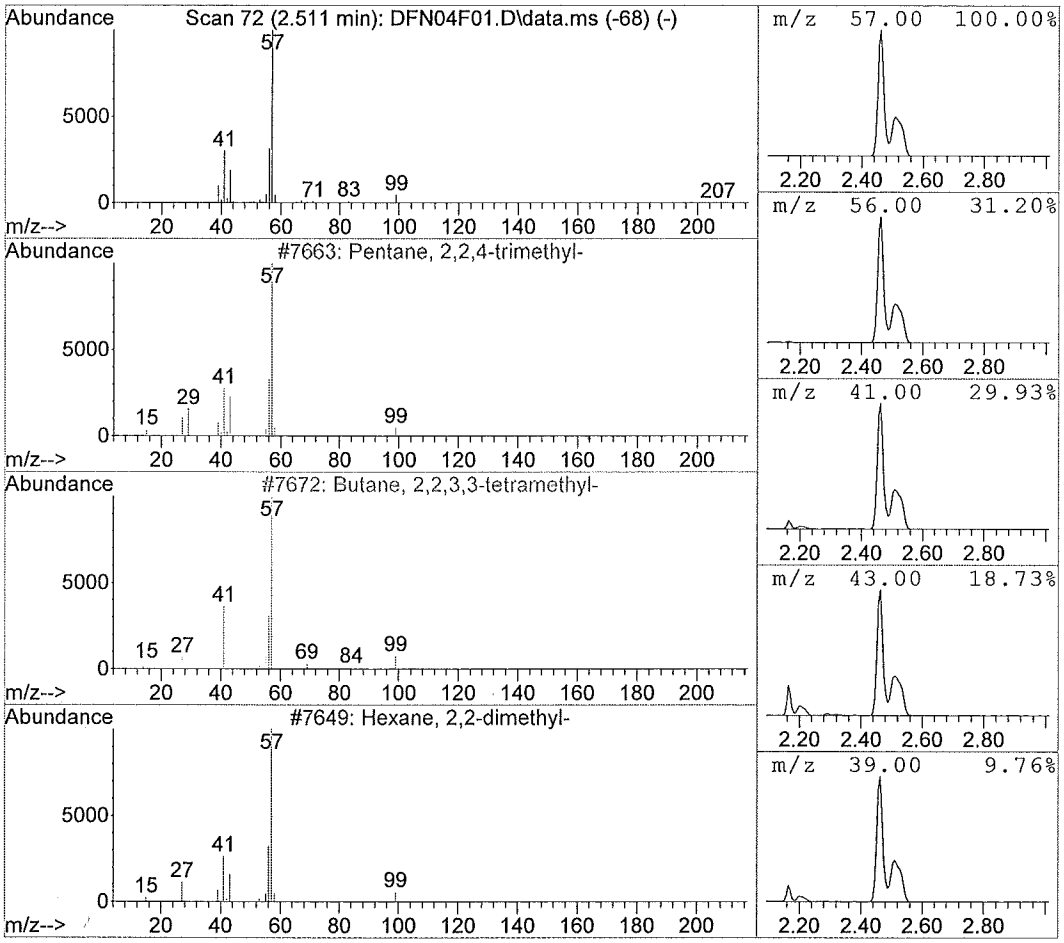
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER 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
2.51	15.63 ug/ml	4027965	1,4-Dichlorobenzene-d4	5152788

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
2	Butane, 2,2,3,3-tetramethyl-	7672	000594-82-1	83.00
3	Hexane, 2,2-dimethyl- BA	7649	000590-73-8	78.00
4	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	72.00
5	Heptane, 2,2,4,6,6-pentamethyl-	38358	013475-82-6	56.00



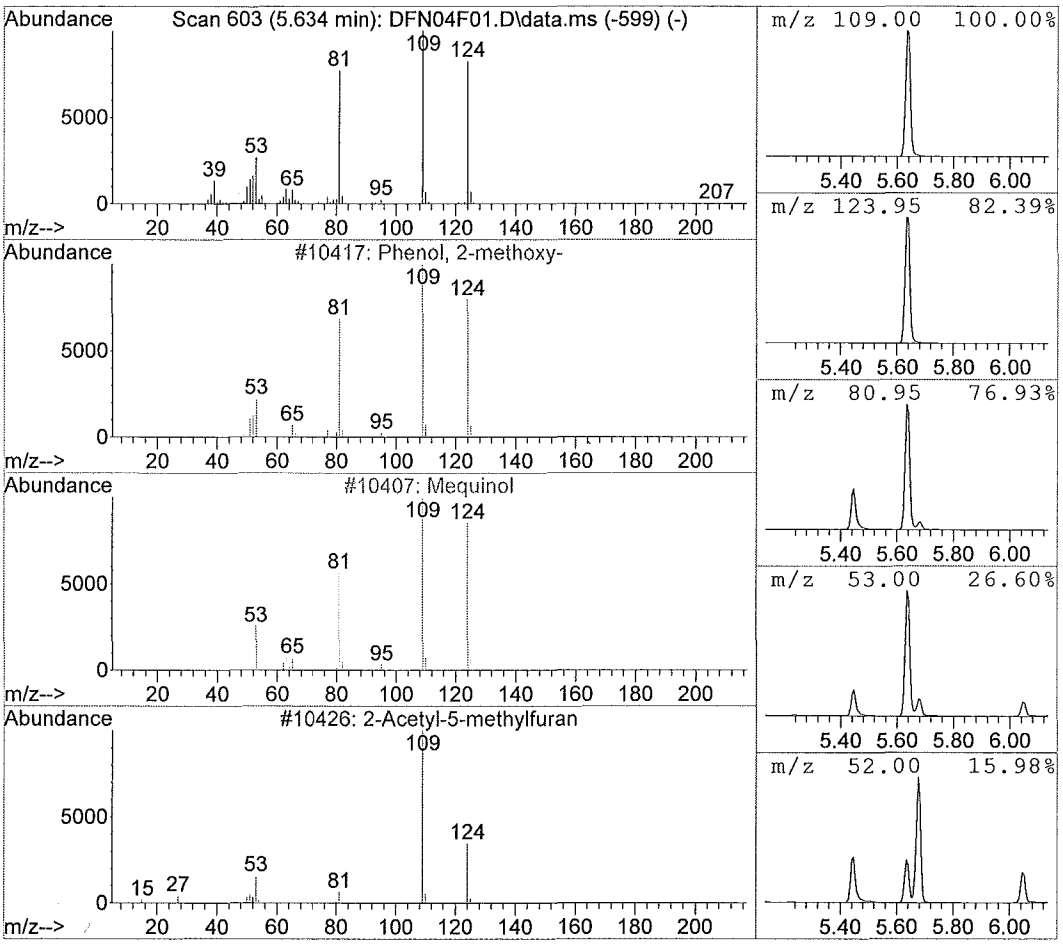
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER 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
5.63	10.17 ug/ml	2618957	1,4-Dichlorobenzene-d4	5152788

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 2-methoxy-	10417	000090-05-1	96.00
2	Mequinol	10407	000150-76-5	91.00
3	2-Acetyl-5-methylfuran	10426	001193-79-9	58.00
4	5-Ethyl-2-furaldehyde	10422	023074-10-4	58.00
5	Ethanone, 1-(2-methyl-1-cyclopenten	10586	003168-90-9	52.00



Library Search Compound Report

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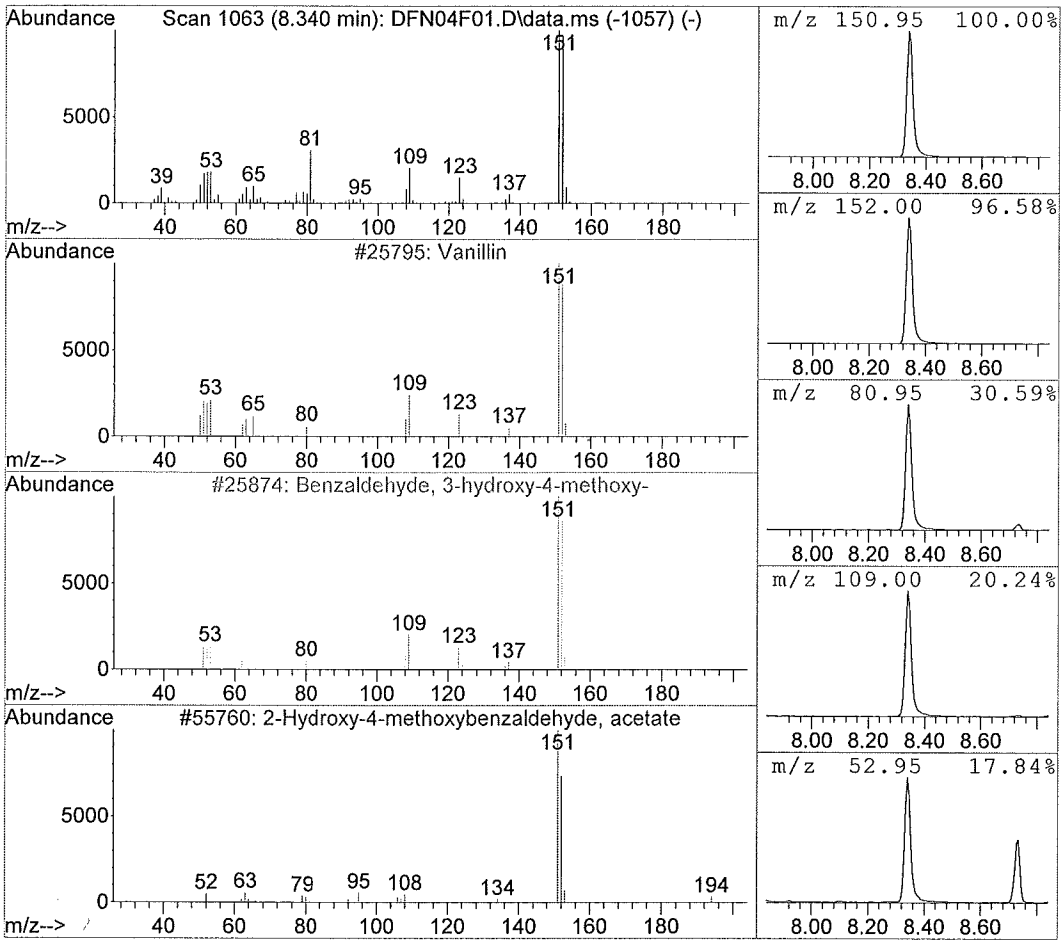
Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On    : 05/28/2015 18:41                          Operator: DJC
Sample    : 1514277001  F9L54                         Inst    : 5975-D
Misc      : . WATER SOM                               Injection volume : 1uL
MS Integration Params: 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
8.34	4.15 ug/ml	1623981	Acenaphthene-d10	7825319

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Vanillin	25795	000121-33-5	98.00
2	Benzaldehyde, 3-hydroxy-4-methoxy-	25874	000621-59-0	96.00
3	2-Hydroxy-4-methoxybenzaldehyde, ac	55760	1000352-92-0	64.00
4	Benzaldehyde, 2,4-dihydroxy-6-methy	25896	000487-69-4	64.00
5	Benzaldehyde, 3-(chloroacetoxy)-4-m	83881	066267-38-7	64.00



Library Search Compound Report

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Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On    : 05/28/2015 18:41                          Operator: DJC
Sample    : 1514277001  F9L54                         Inst    : 5975-D
Misc      : . WATER 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
```
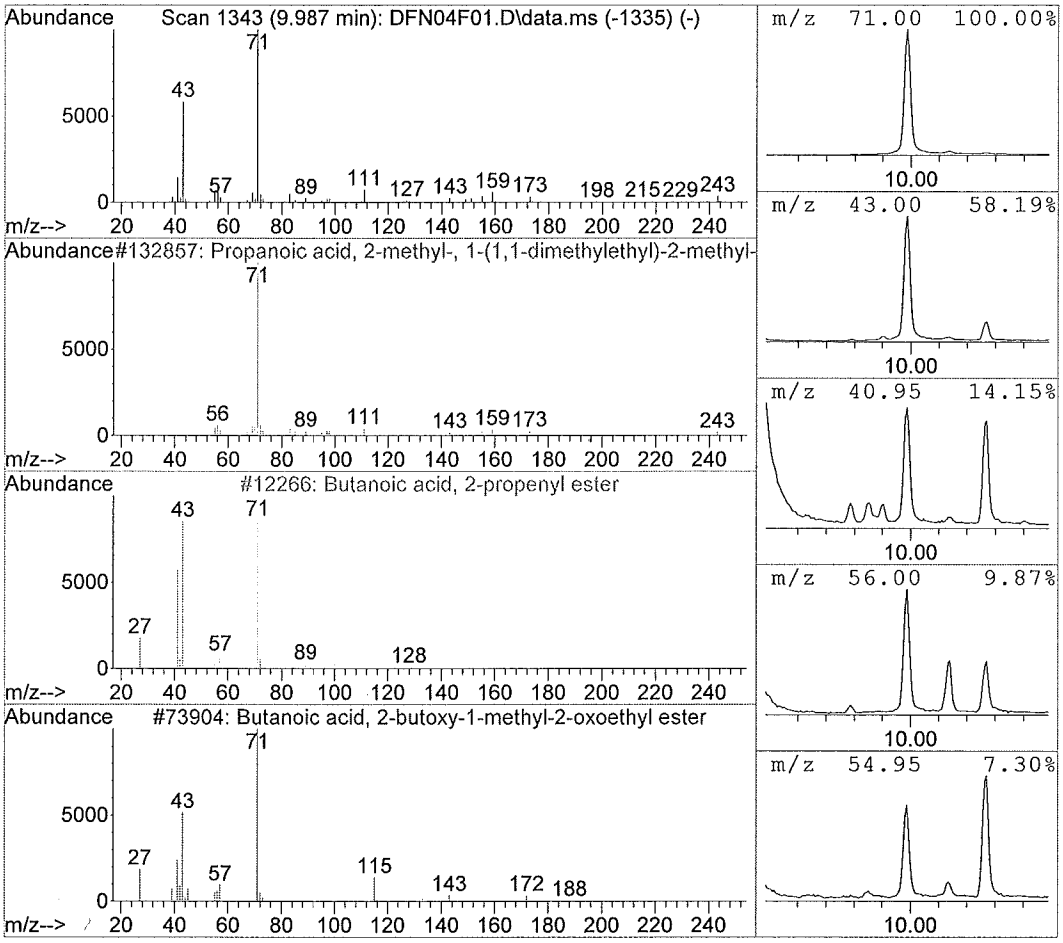

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.99	2.86 ug/ml	1119700	Acenaphthene-d10	7825319

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	56.00
2	Butanoic acid, 2-propenyl ester	12266	002051-78-7	53.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	50.00
4	2-Furanmethanol, tetrahydro-, aceta	20688	000637-64-9	45.00
5	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	45.00



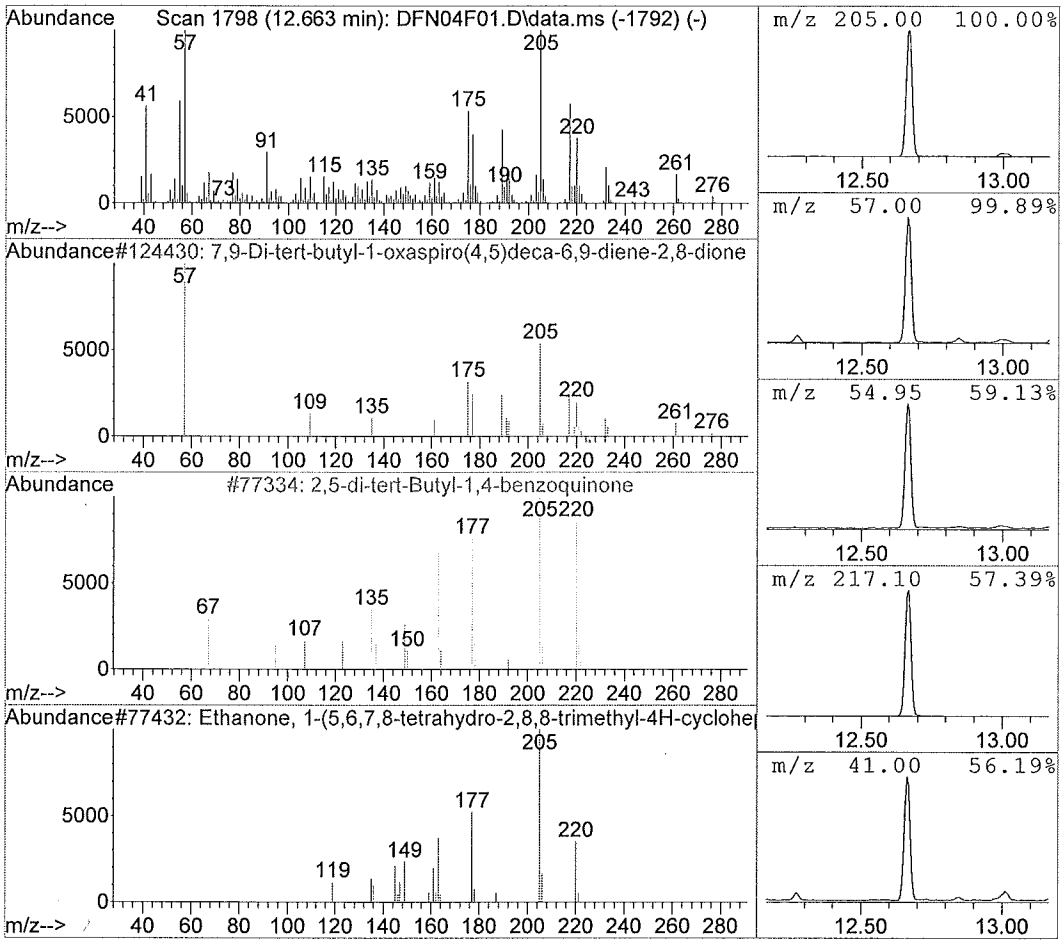
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER 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
12.66	4.19 ug/ml	1757403	Phenanthrene-d10	8386196

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)de	124430	082304-66-3	99.00
2	2,5-di-tert-Butyl-1,4-benzoquinone	77334	002460-77-7	46.00
3	Ethanone, 1-(5,6,7,8-tetrahydro-2,8	77432	071596-88-8	46.00
4	2,5-Cyclohexadien-1-one, 2,6-bis(1,	87768	006738-27-8	38.00
5	Benzenamine, N,N-diethyl-4-(2-nitro	77116	064462-51-7	38.00



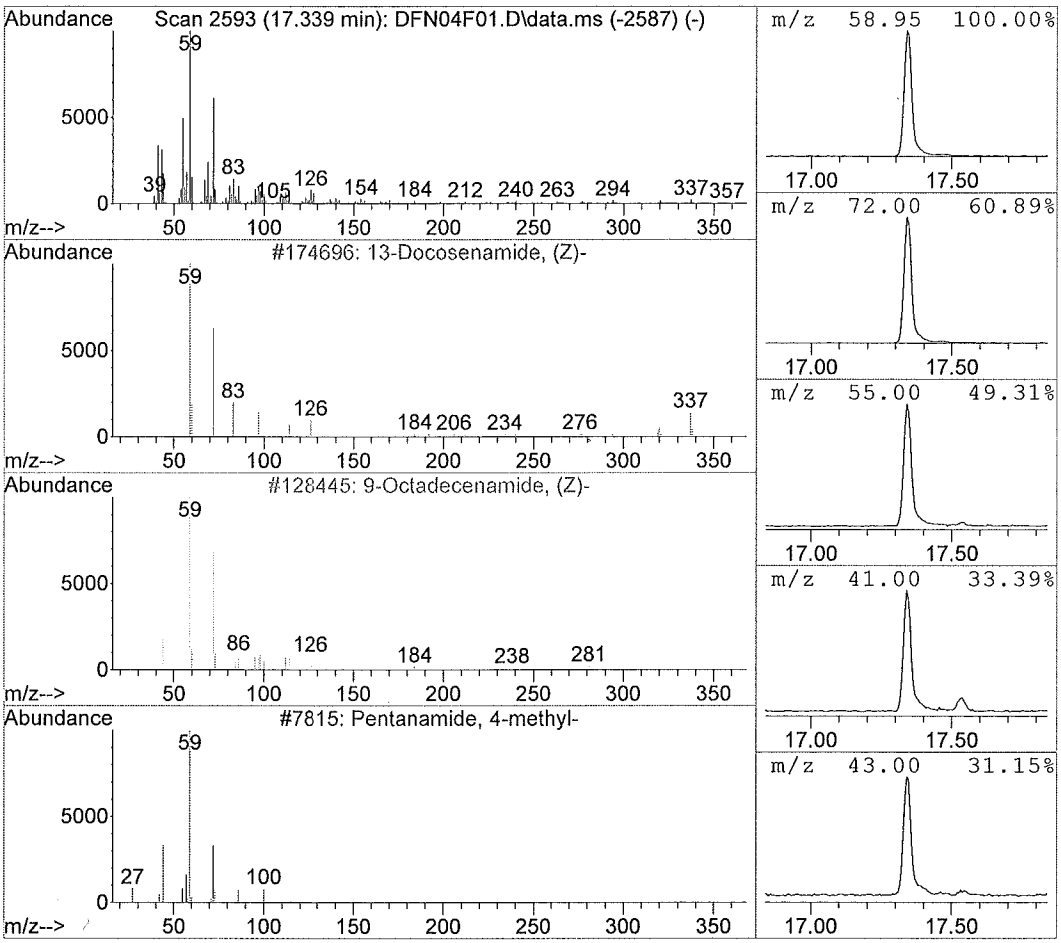
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN04F01.D Vial: 4
Acq On : 05/28/2015 18:41 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER 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	2.66 ug/ml	1257872	Perylene-d12	9466540

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	64.00
4	Tetradecanamide	83610	000638-58-4	64.00
5	Dodecanamide	60440	001120-16-7	59.00



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

EPA SAMPLE NO.: F9L55

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277002
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN05F02
Level: (LOW/MED) LOW Extraction: (Type) CONT
% Moisture: Decanted: (Y/N) Date Received: 05/22/2015
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	0.62	J
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	0.79	J
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

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

EPA SAMPLE NO.: F9L55

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277002
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN05F02
Level: (LOW/MED) LOW Extraction: (Type) CONT
% Moisture: Decanted: (Y/N) Date Received: 05/22/2015
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: F9L55

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277002
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN05F02
Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/22/2015
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Amylene hydrate	2.16	6.9	JB
02		Unknown Amylene hydrate	2.20	4.1	JB
03	90-05-1	Phenol, 2-methoxy-	5.64	12.	JN
04	121-33-5	Vanillin	8.34	5.2	JN
05		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	2.4	JB
06	82304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-	12.66	5.6	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	57.	J

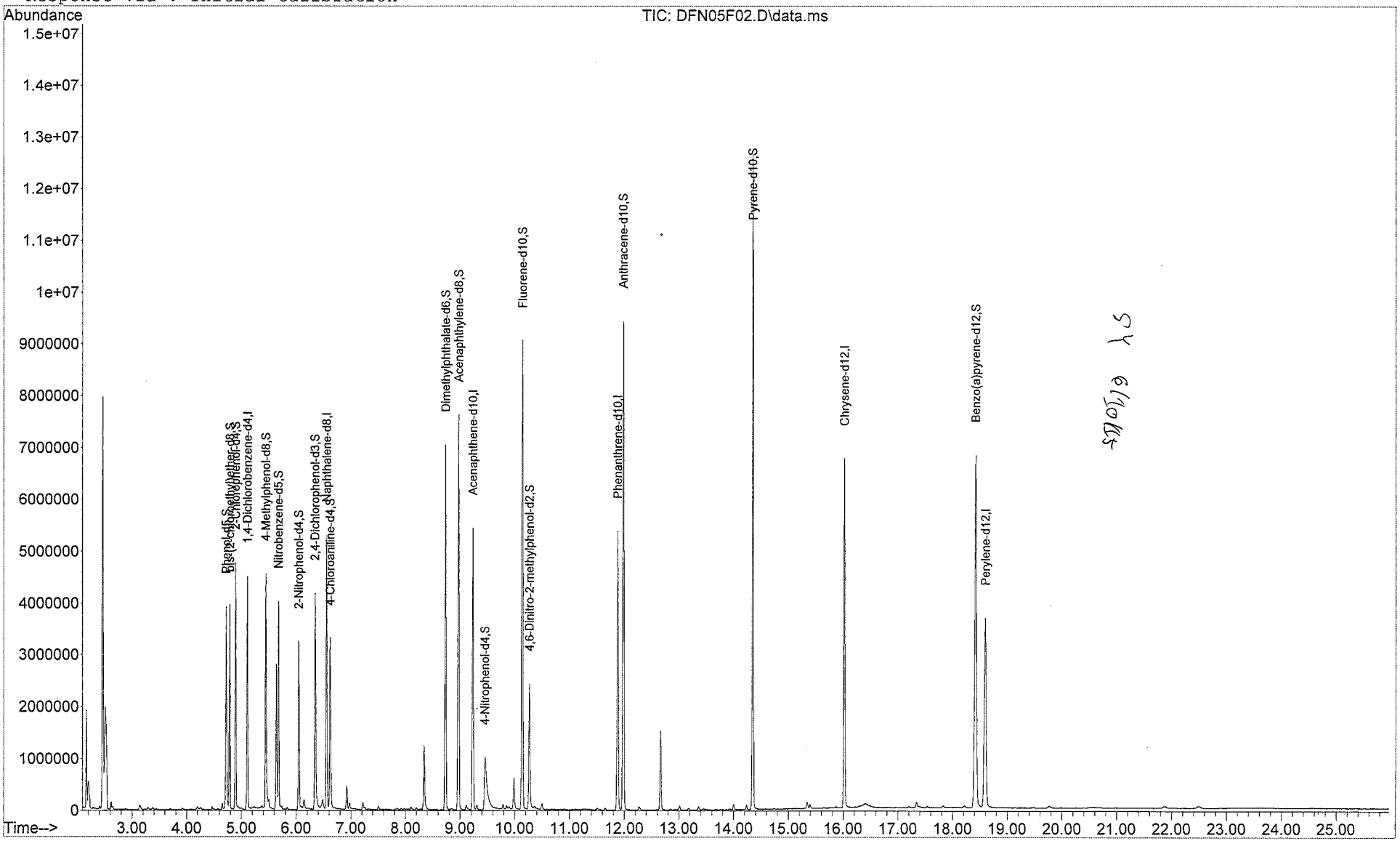
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 11:42:57 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...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:42:57 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	801254	20.00 ug/ml
16) Naphthalene-d8	6.56	136	2818538	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1812986	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3200811	20.00 ug/ml
73) Chrysene-d12	16.02	240	3536989	20.00 ug/ml
81) Perylene-d12	18.59	264	3300480	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1464641	29.371ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1001710	27.452ug/mL
7) 2-Chlorophenol-d4	4.89	132	1389469	27.953ug/ml
13) 4-Methylphenol-d8	5.45	113	1246301	33.342ug/mL
17) Nitrobenzene-d5	5.68	128	678989	29.412ug/ml
21) 2-Nitrophenol-d4	6.05	143	808608	29.537ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1287624	29.106ug/mL
28) 4-Chloroaniline-d4	6.62	131	1335290	40.175ug/mL
42) Dimethylphthalate-d6	8.73	166	4168785	37.294ug/mL
45) Acenaphthylene-d8	8.97	160	5026609	34.152ug/mL
50) 4-Nitrophenol-d4	9.46	143	644951	34.739ug/mL
57) Fluorene-d10	10.14	176	3610502	36.553ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	648096	32.063ug/mL
69) Anthracene-d10	11.99	188	6253737	38.136ug/mL
75) Pyrene-d10	14.35	212	6197711	41.609ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5790897	38.339ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	19907	0.620ug/ml	80
4) Phenol	0.00	94		Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected	
8) 2-Chlorophenol	0.00	128		Not Detected	
9) 2-Methylphenol	0.00	108		Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected	
11) Acetophenone	5.50	105	44873	0.786ug/ml	93
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)

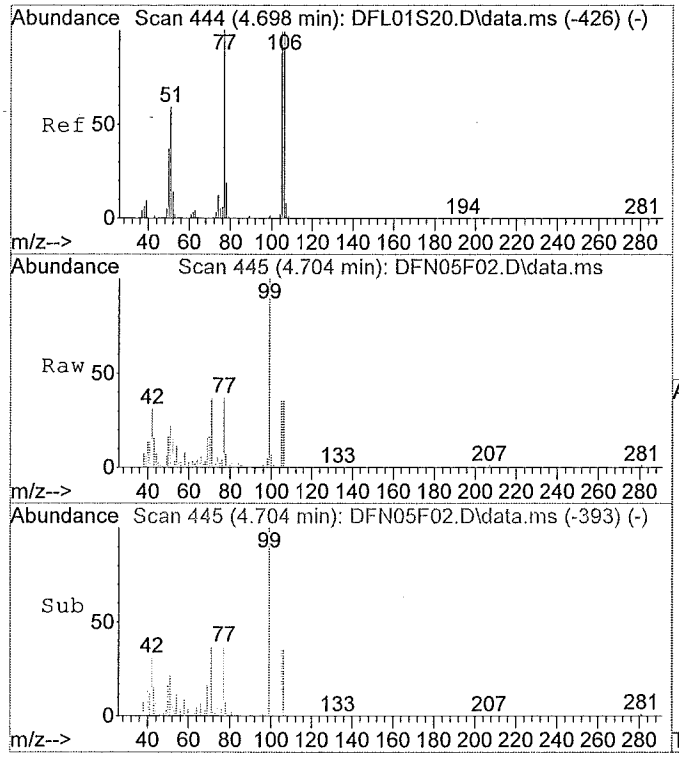
Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:42:57 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	

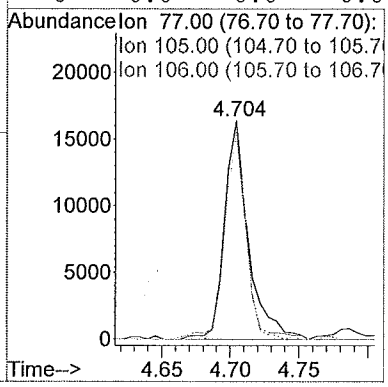
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

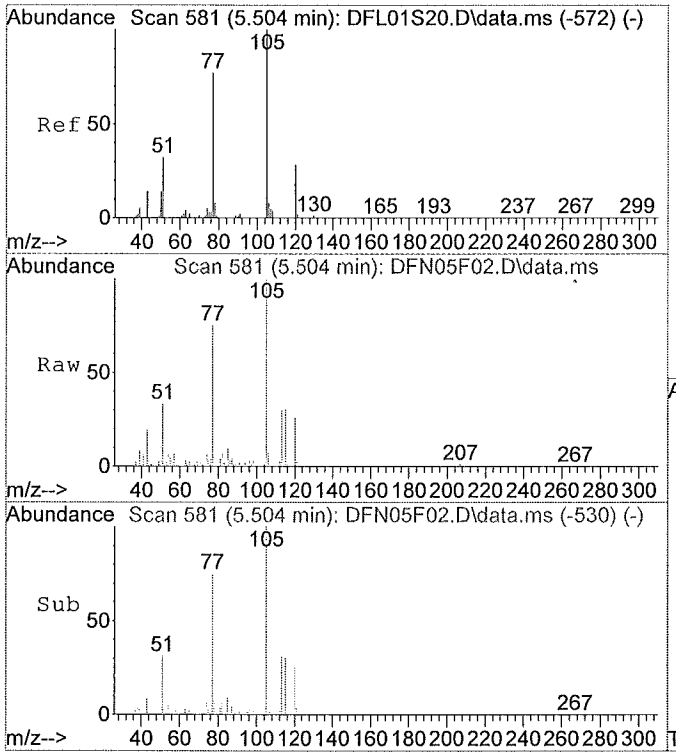


#3
Benzaldehyde
Concen: 0.62 ug/ml
RT: 4.70 min Scan# 445
Delta R.T. 0.01 min
Lab File: DFN05F02.D
Acq: 05/28/2015 19:14

Tgt Ion:77 Resp: 19907

Ion	Ratio	Lower	Upper
77	100		
105	86.2	71.3	132.3
106	81.7	75.0	139.2
0	0.0	0.0	0.0

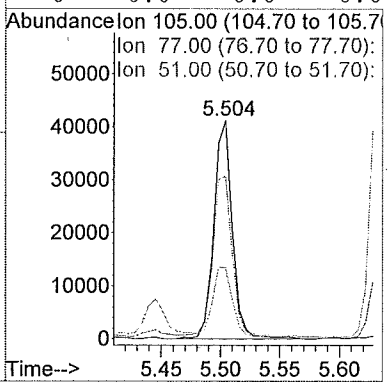




#11
Acetophenone
Concen: 0.79 ug/ml
RT: 5.50 min Scan# 581
Delta R.T. 0.00 min
Lab File: DFN05F02.D
Acq: 05/28/2015 19:14

Tgt Ion:105 Resp: 44873

Ion	Ratio	Lower	Upper
105	100		
77	76.8	51.1	94.9
51	34.6	19.7	36.7
0	0.0	0.0	0.0



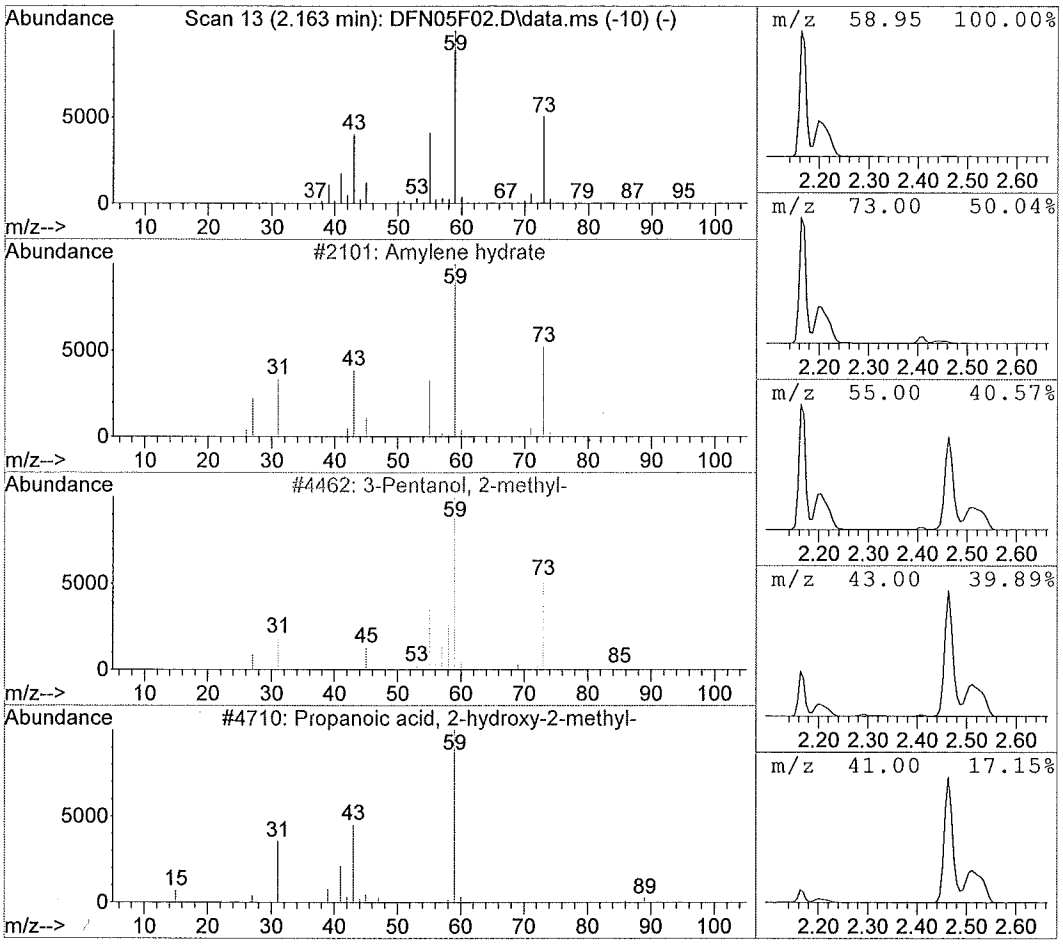
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
2.16	6.88 ug/ml	1704695	1,4-Dichlorobenzene-d4	4956390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	83.00
2	3-Pentanol, 2-methyl-	4462	000565-67-3	64.00
3	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	59.00
4	Silane, trimethyl-	799	000993-07-7	9.00
5	3-Hexanol	4419	000623-37-0	9.00



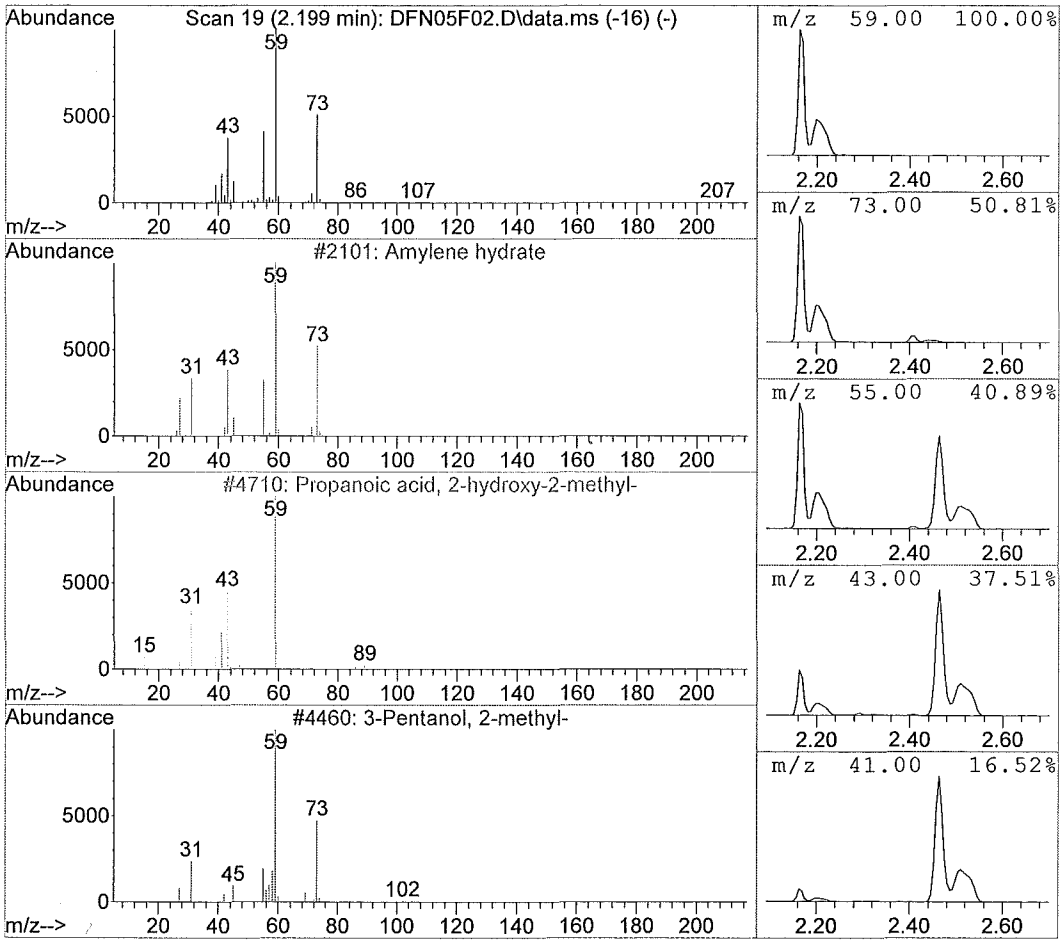
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
2.20	4.05 ug/ml	1003887	1,4-Dichlorobenzene-d4	4956390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	83.00
2	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	42.00
3	3-Pentanol, 2-methyl-	4460	000565-67-3	40.00
4	Silane, trimethyl-	800	000993-07-7	39.00
5	2-Methyl-5-hexen-3-ol	7506	032815-70-6	12.00



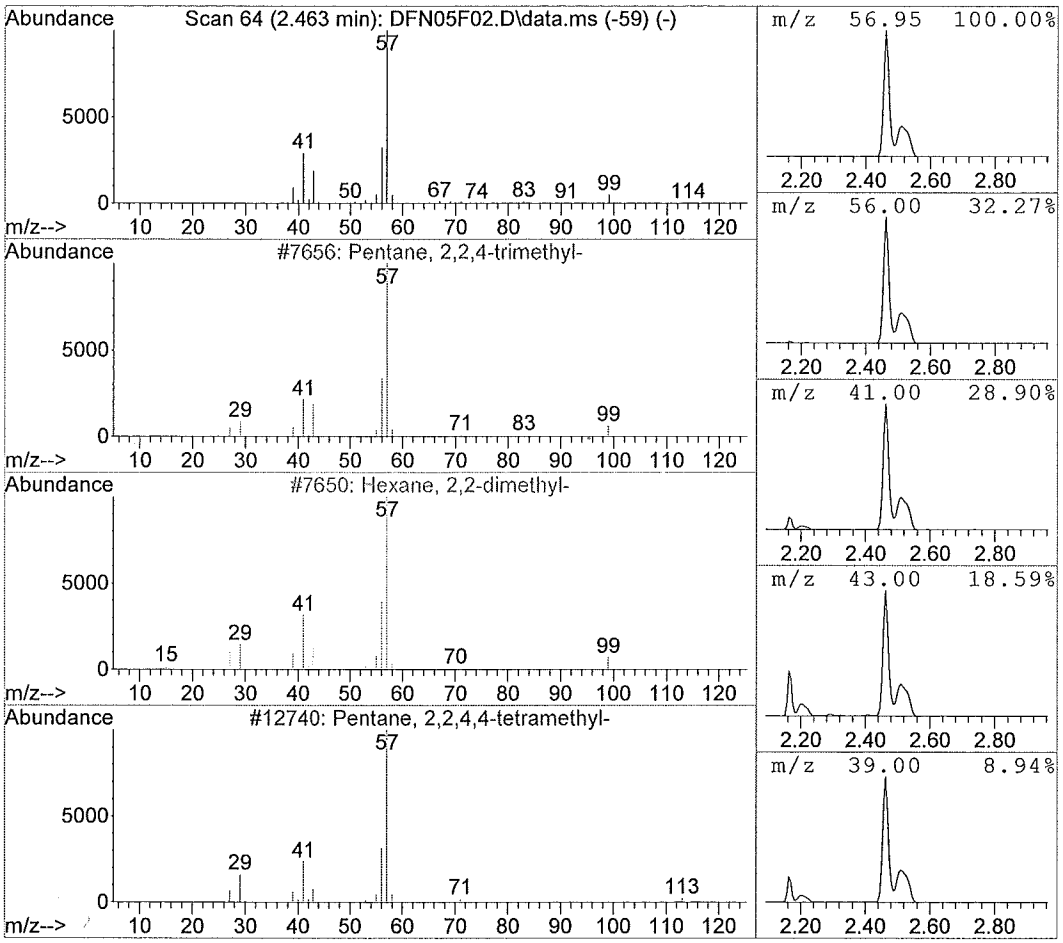
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
2.46	37.86 ug/ml	9381813	1,4-Dichlorobenzene-d4	4956390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	7656	000540-84-1	83.00
2	Hexane, 2,2-dimethyl- BA	7650	000590-73-8	83.00
3	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
4	Butane, 2,2,3,3-tetramethyl-	7672	000594-82-1	78.00
5	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	64.00



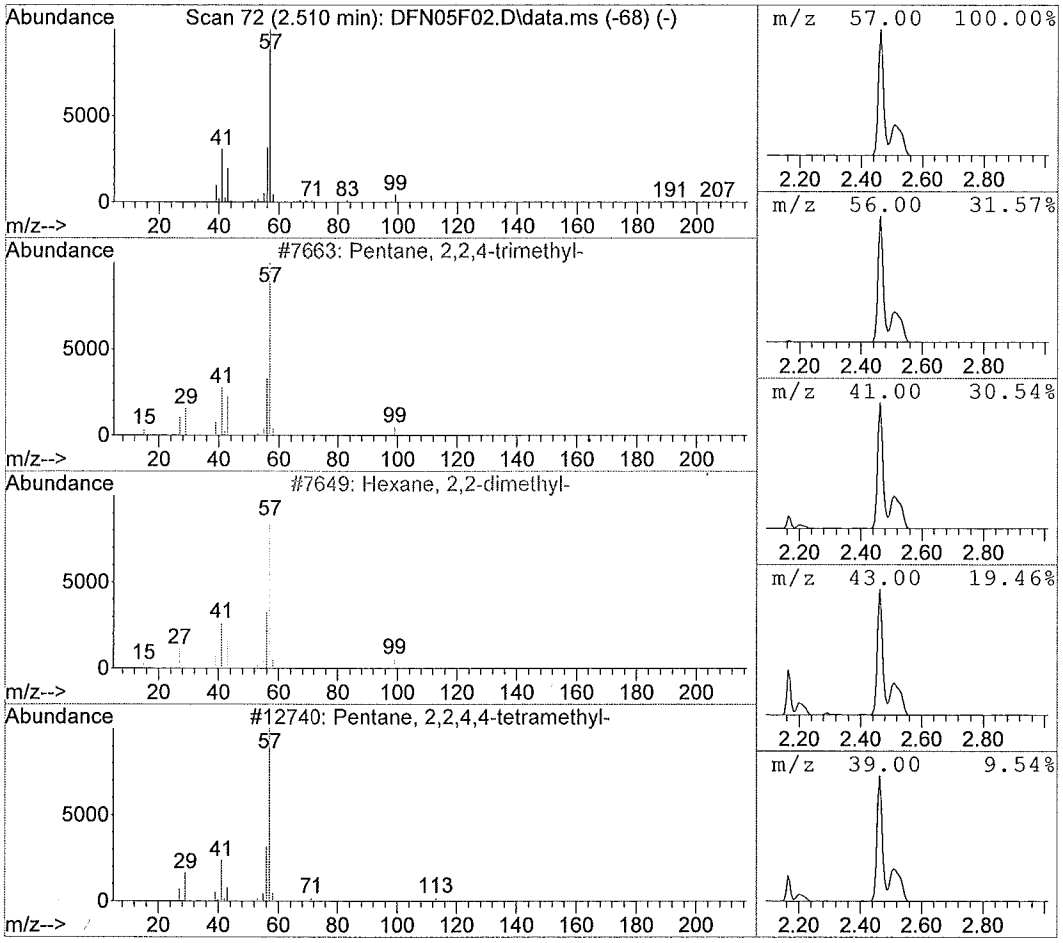
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
2.51	19.34 ug/ml	4791981	1,4-Dichlorobenzene-d4	4956390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
2	Hexane, 2,2-dimethyl- BA	7649	000590-73-8	78.00
3	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
4	Butane, 2,2,3,3-tetramethyl-	7671	000594-82-1	64.00
5	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	50.00



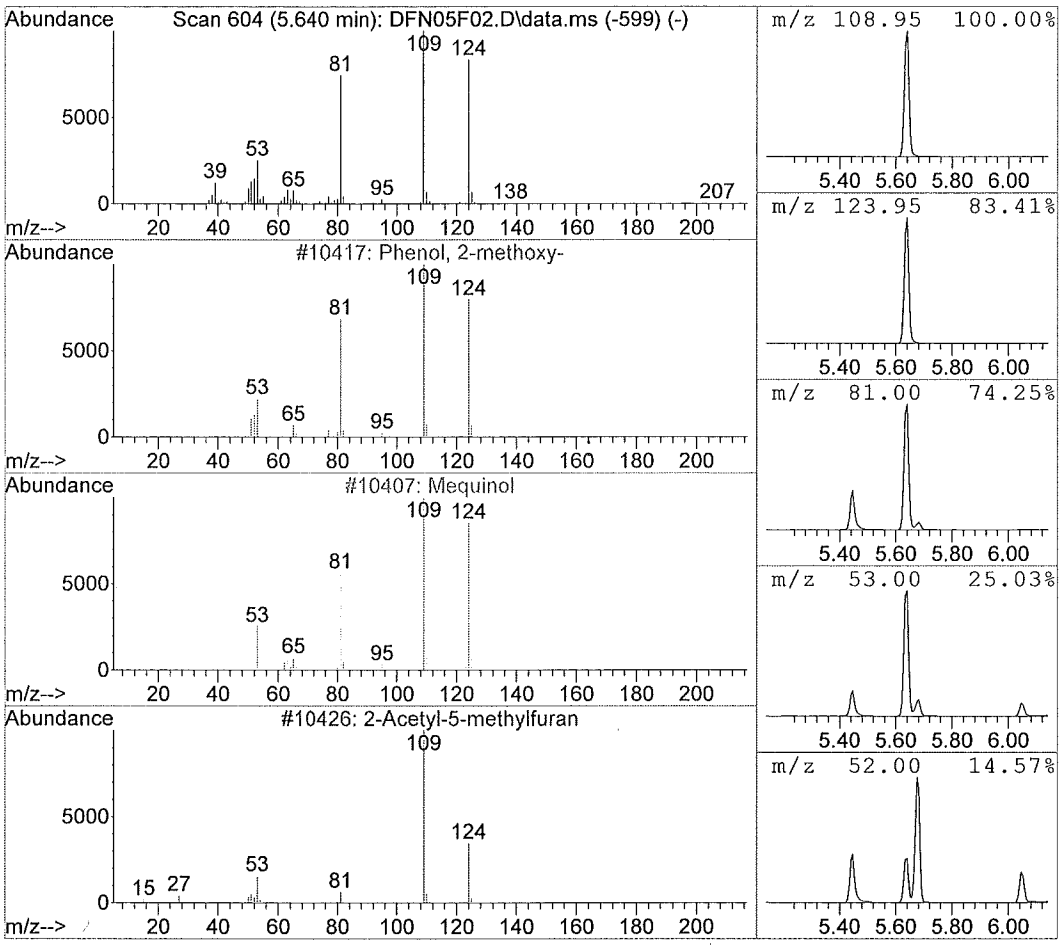
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
5.64	12.40 ug/ml	3072119	1,4-Dichlorobenzene-d4	4956390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 2-methoxy-	10417	000090-05-1	96.00
2	Mequinol	10407	000150-76-5	91.00
3	2-Acetyl-5-methylfuran	10426	001193-79-9	58.00
4	Ethanone, 1-(2-methyl-1-cyclopenten	10586	003168-90-9	58.00
5	5-Ethyl-2-furaldehyde	10422	023074-10-4	53.00



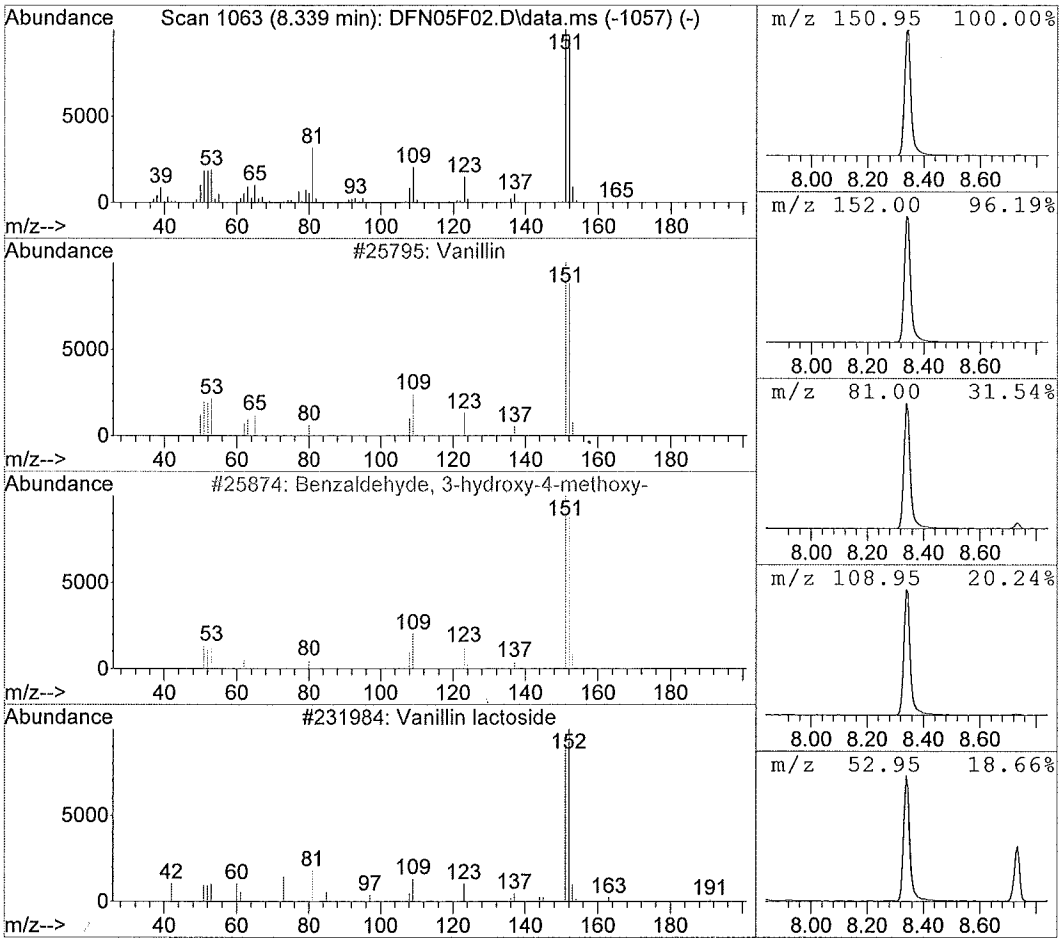
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
8.34	5.22 ug/ml	1941409	Acenaphthene-d10	7434996

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Vanillin	25795	000121-33-5	98.00
2	Benzaldehyde, 3-hydroxy-4-methoxy-	25874	000621-59-0	96.00
3	Vanillin lactoside	231984	1000129-94-7	72.00
4	Pyrimido[1,2-a]azepine, 2,3,4,6,7,8	26138	006674-22-2	64.00
5	Benzaldehyde, 3-(chloroacetoxy)-4-m	83881	066267-38-7	64.00

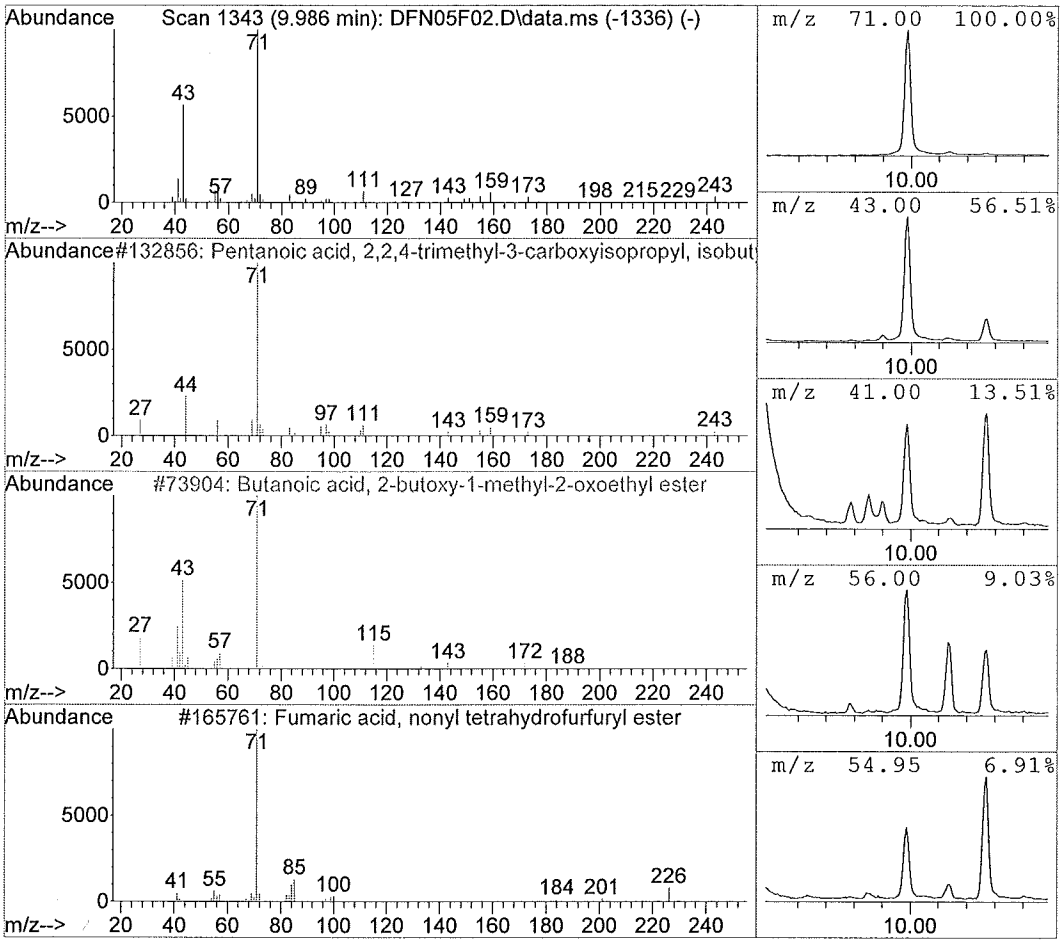


Library Search Compound Report

```
Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On    : 05/28/2015 19:14                          Operator: DJC
Sample    : 1514277002  F9L55                         Inst    : 5975-D
Misc      : . WATER 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	2.41 ug/ml	896646	Acenaphthene-d10	7434996

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	64.00
2	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	64.00
3	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	45.00
4	Valeric acid, 2-tetrahydrofurylmeth	49885	005451-86-5	45.00
5	Diethylmalonic acid, monochloride,	111984	1000370-65-0	42.00



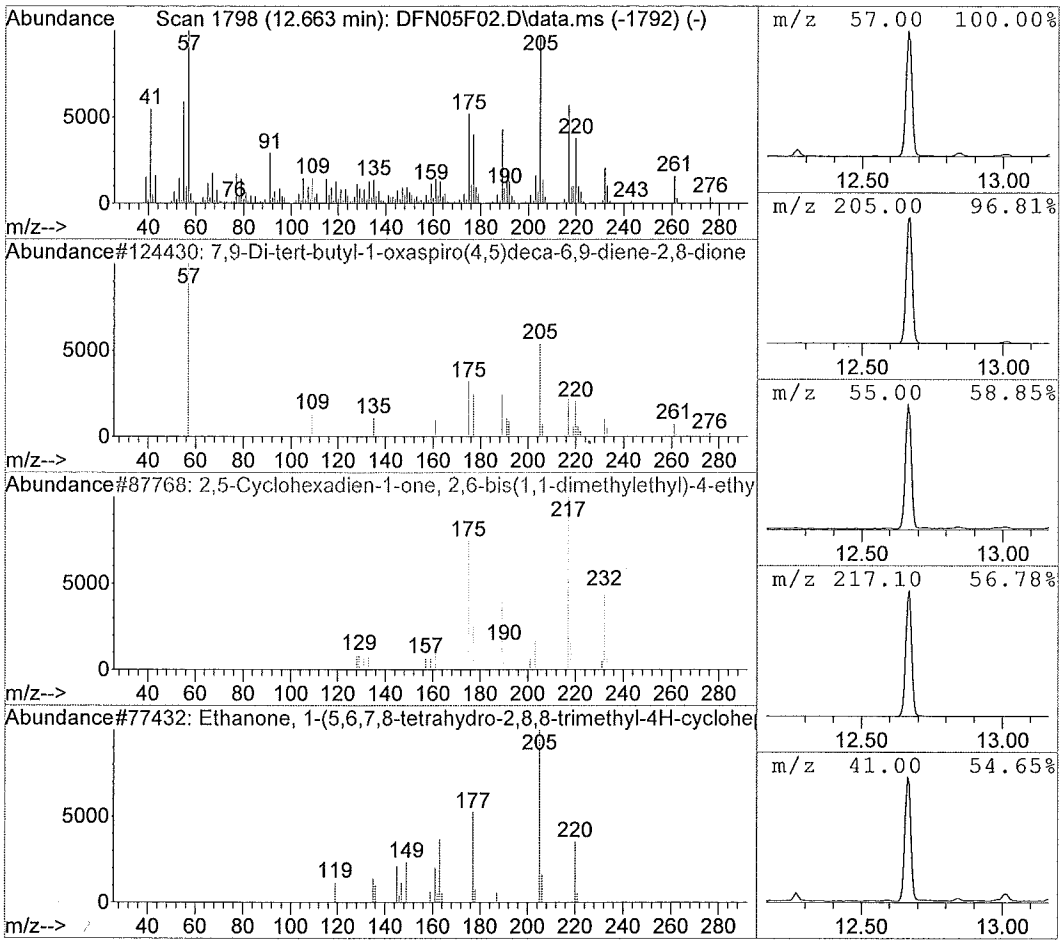
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN05F02.D Vial: 5
Acq On : 05/28/2015 19:14 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER 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
12.66	5.56 ug/ml	2202333	Phenanthrene-d10	7915236

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)de	124430	082304-66-3	99.00
2	2,5-Cyclohexadien-1-one, 2,6-bis(1,	87768	006738-27-8	84.00
3	Ethanone, 1-(5,6,7,8-tetrahydro-2,8	77432	071596-88-8	46.00
4	2,6-Bis(1,1-dimethylethyl)-4-methyl	112646	004278-82-4	30.00
5	Benzenamine, N,N-diethyl-4-(2-nitro	77116	064462-51-7	30.00



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

EPA SAMPLE NO.

F9L74

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN06F02

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/22/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	0.54	J
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	0.66	J
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

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

EPA SAMPLE NO.: F9L74

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306002
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN06F02
Level: (LOW/MED) LOW Extraction: (Type) CONT
% Moisture: Decanted: (Y/N) Date Received: 05/22/2015
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: F9L74

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306002
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN06F02
Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/22/2015
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Amylene hydrate	2.17	3.9	JB
02		Unknown Amylene hydrate	2.20	2.0	JB
03	90-05-1	Phenol, 2-methoxy-	5.63	8.5	JN
04	121-33-5	Vanillin	8.34	5.5	JN
05		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	2.0	JB
06	82304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-	12.67	5.0	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	54.	J

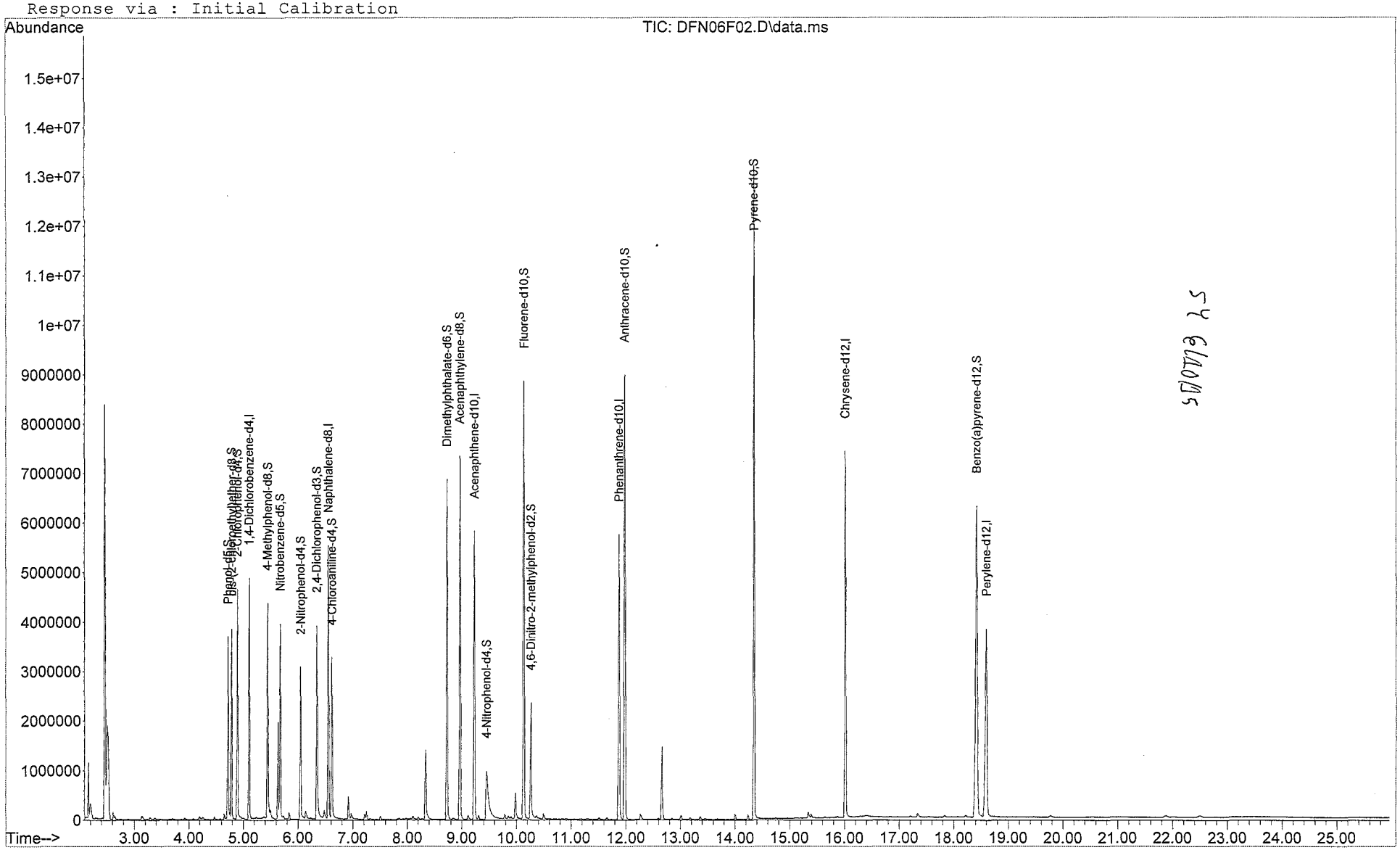
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 11:43:43 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



Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:43:43 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	868751	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3031290	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1949431	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3411514	20.00 ug/ml
73) Chrysene-d12	16.02	240	3724611	20.00 ug/ml
81) Perylene-d12	18.60	264	3407490	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1395819	25.816ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	987130	24.951ug/mL
7) 2-Chlorophenol-d4	4.89	132	1367904	25.381ug/ml
13) 4-Methylphenol-d8	5.45	113	1197650	29.551ug/mL
17) Nitrobenzene-d5	5.67	128	661572	26.646ug/ml
21) 2-Nitrophenol-d4	6.05	143	778697	26.448ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1229264	25.836ug/mL
28) 4-Chloroaniline-d4	6.62	131	1269518	35.516ug/mL
42) Dimethylphthalate-d6	8.73	166	4038189	33.598ug/mL
45) Acenaphthylene-d8	8.97	160	4901873	30.973ug/mL
50) 4-Nitrophenol-d4	9.46	143	618999	31.008ug/mL
57) Fluorene-d10	10.14	176	3459349	32.572ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	620340	28.794ug/mL
69) Anthracene-d10	11.99	188	6040221	34.559ug/mL
75) Pyrene-d10	14.35	212	6058260	38.624ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5584511	35.812ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	18973	0.545ug/ml	82
4) Phenol	0.00	94		Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected	
8) 2-Chlorophenol	0.00	128		Not Detected	
9) 2-Methylphenol	0.00	108		Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected	
11) Acetophenone	5.50	105	40999	0.663ug/ml	93
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)

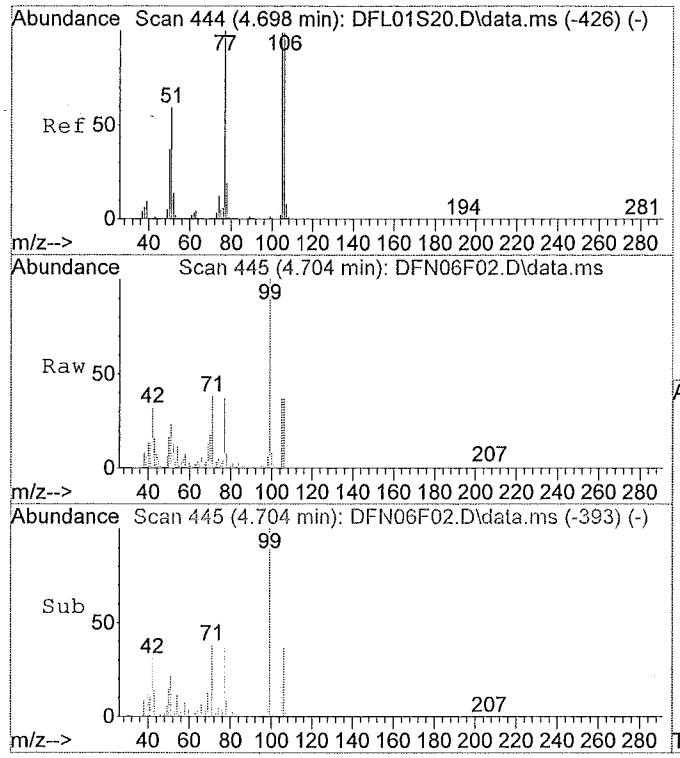
Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:43:43 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	

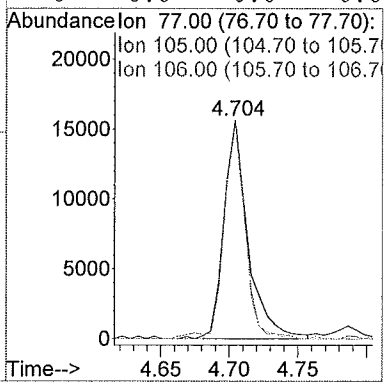
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

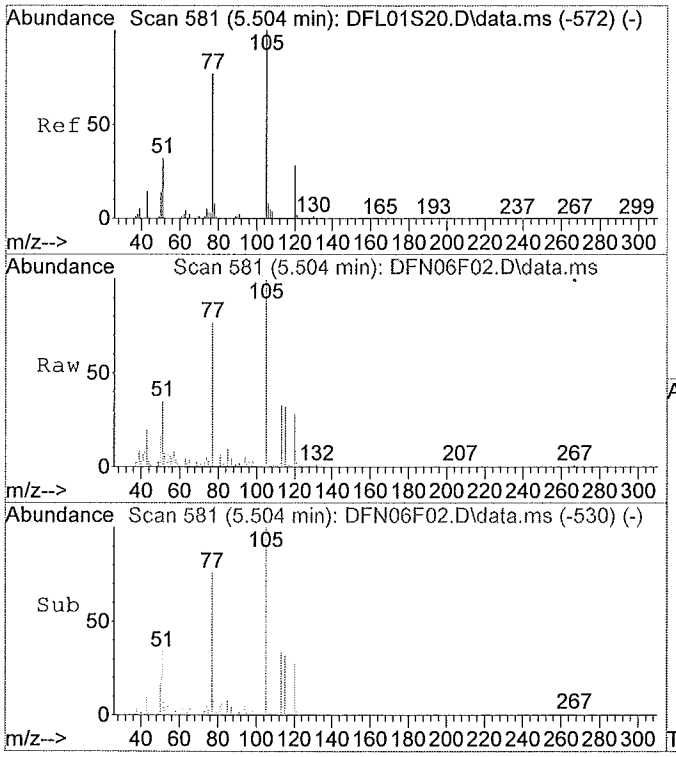


#3
Benzaldehyde
Concen: 0.54 ug/ml
RT: 4.70 min Scan# 445
Delta R.T. 0.01 min
Lab File: DFN06F02.D
Acq: 05/28/2015 19:47

Tgt Ion:77 Resp: 18973

Ion	Ratio	Lower	Upper
77	100		
105	87.7	71.3	132.3
106	83.6	75.0	139.2
0	0.0	0.0	0.0

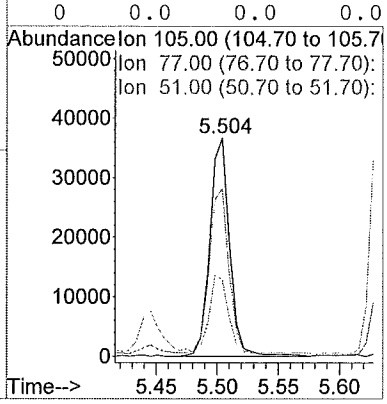




#11
Acetophenone
Concen: 0.66 ug/ml
RT: 5.50 min Scan# 581
Delta R.T. -0.00 min
Lab File: DFN06F02.D
Acq: 05/28/2015 19:47

Tgt Ion:105 Resp: 40999

Ion	Ratio	Lower	Upper
105	100		
77	78.0	51.1	94.9
51	33.9	19.7	36.7
0	0.0	0.0	0.0



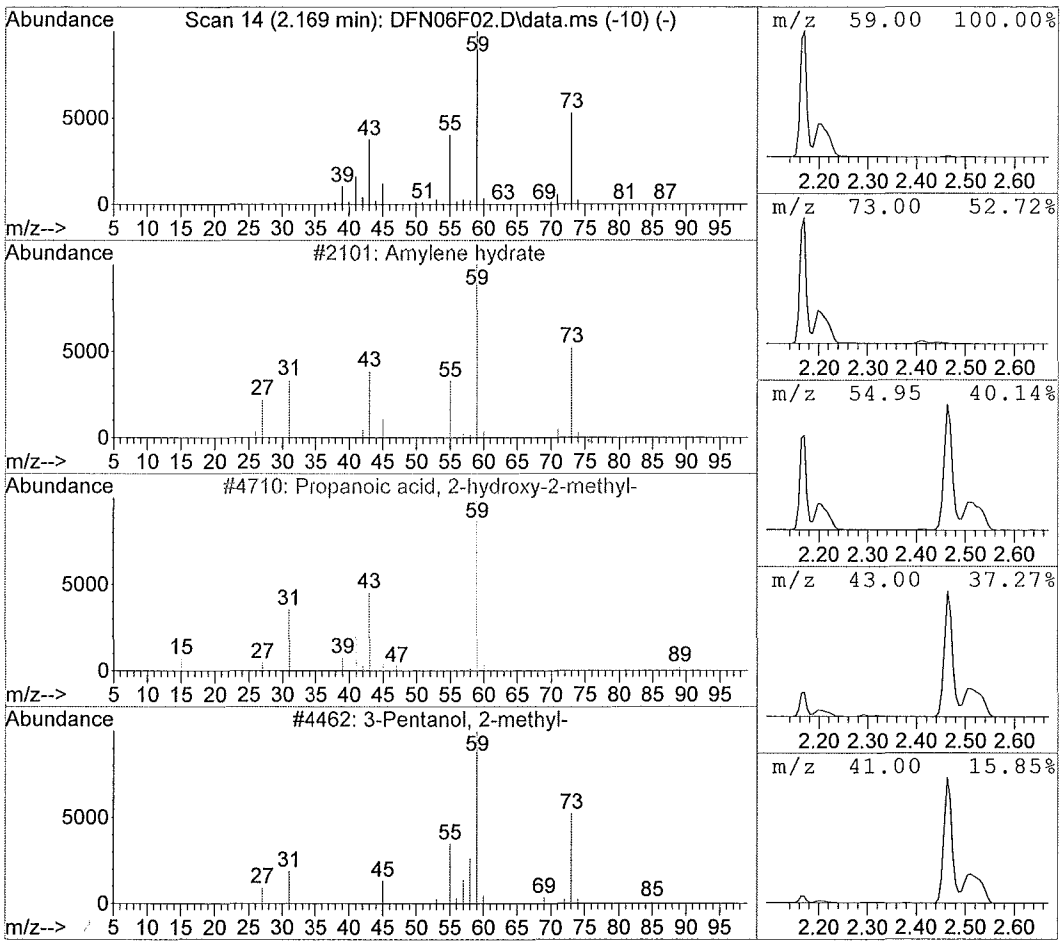
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
2.17	3.94 ug/ml	1048160	1,4-Dichlorobenzene-d4	5318386

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	83.00
2	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	42.00
3	3-Pentanol, 2-methyl-	4462	000565-67-3	40.00
4	2-Methyl-5-hexen-3-ol	7506	032815-70-6	10.00
5	Silane, trimethyl-	799	000993-07-7	9.00



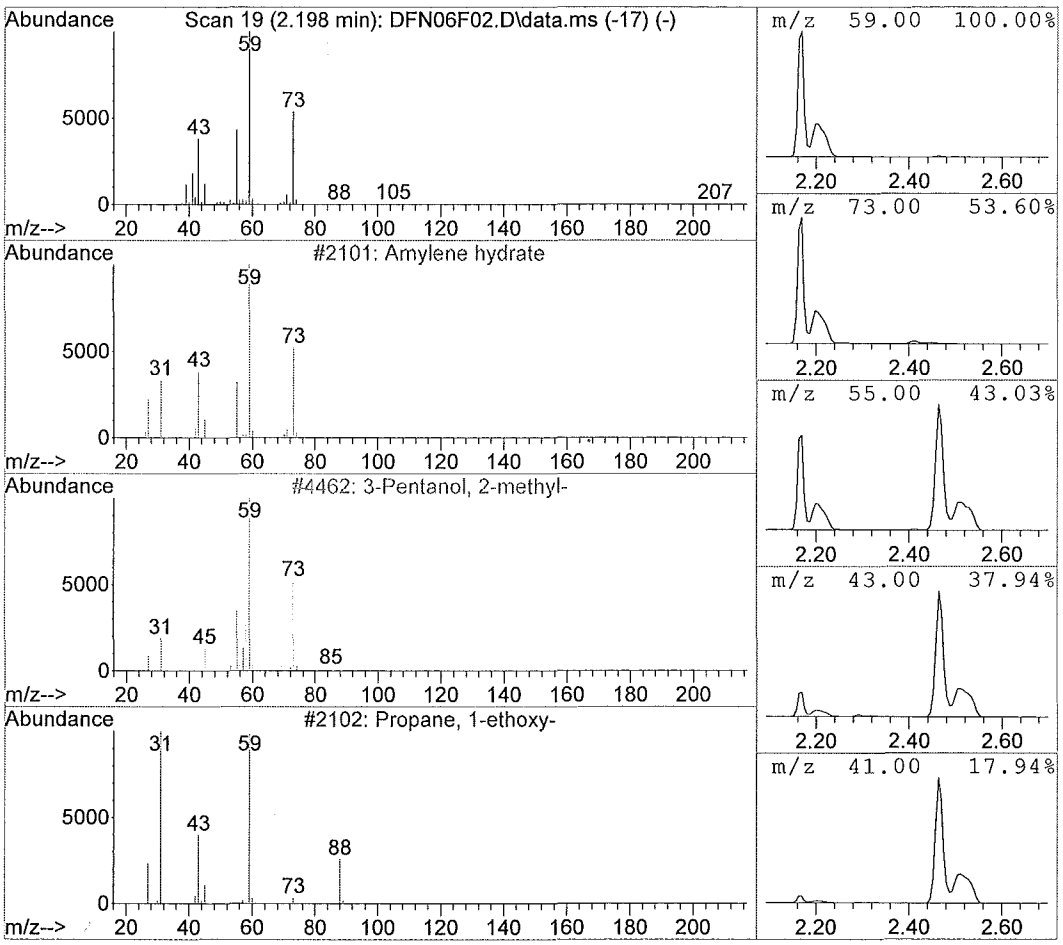
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
2.20	2.05 ug/ml	543808	1,4-Dichlorobenzene-d4	5318386

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	78.00
2	3-Pentanol, 2-methyl-	4462	000565-67-3	56.00
3	Propane, 1-ethoxy-	2102	000628-32-0	45.00
4	3-Hydroxy-3-methyl-2-butanone	4319	000115-22-0	42.00
5	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	42.00



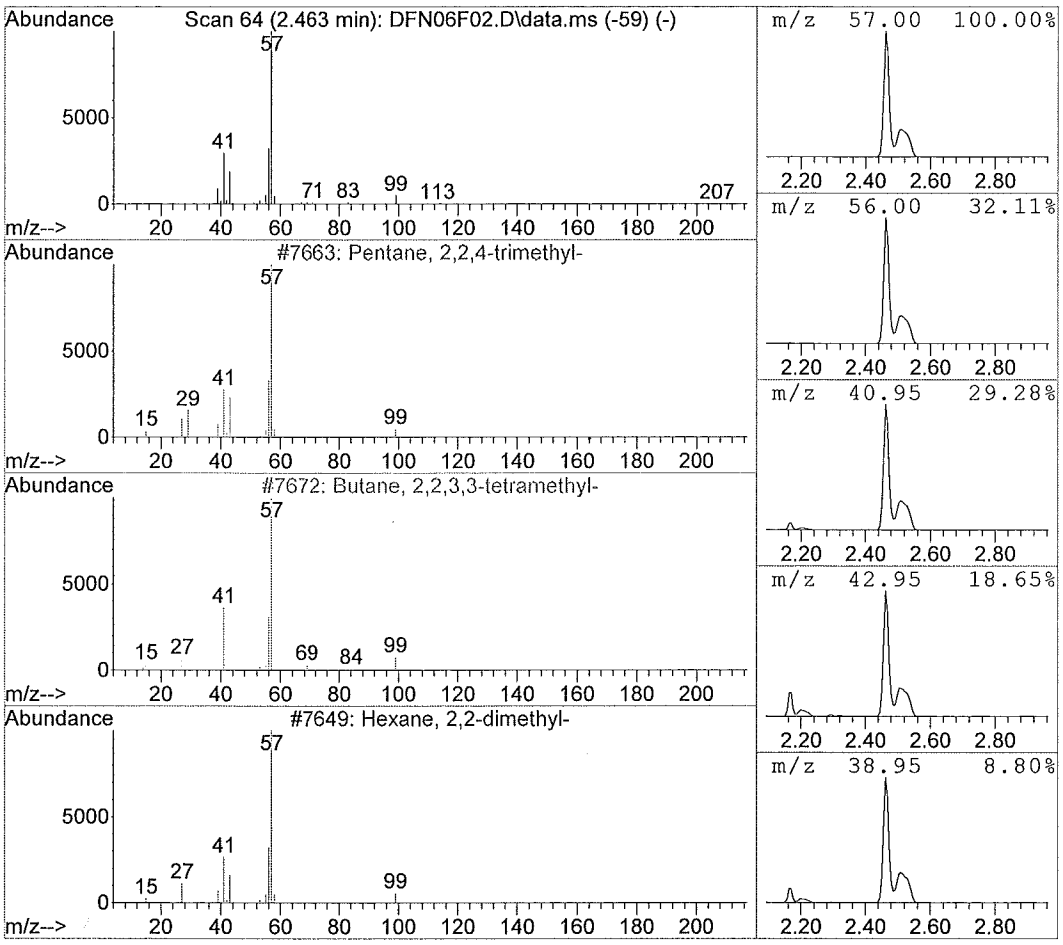
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
2.46	36.26 ug/ml	9642999	1,4-Dichlorobenzene-d4	5318386

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl- BA	7663	000540-84-1	83.00
2	Butane, 2,2,3,3-tetramethyl-	7672	000594-82-1	78.00
3	Hexane, 2,2-dimethyl-	7649	000590-73-8	78.00
4	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
5	Heptane, 2,2,4,6,6-pentamethyl-	38358	013475-82-6	64.00



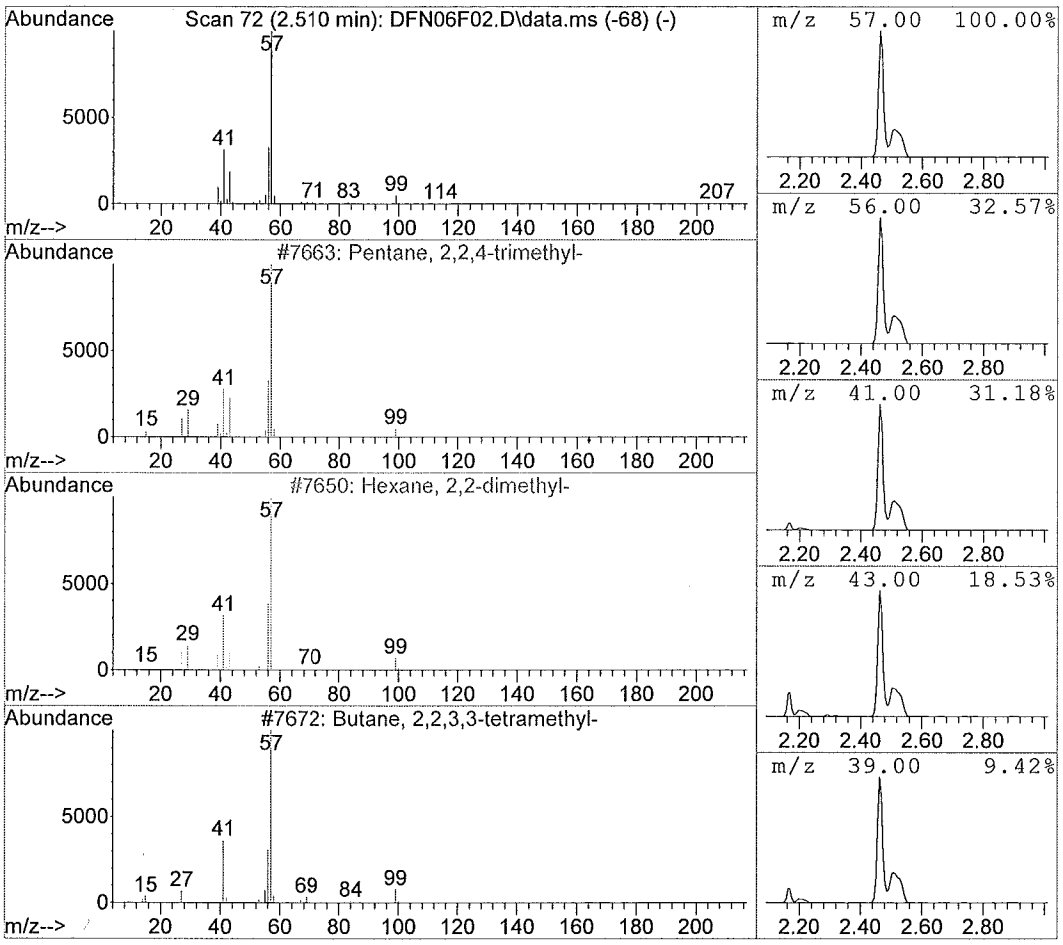
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
2.51	17.69 ug/ml	4704945	1,4-Dichlorobenzene-d4	5318386

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
2	Hexane, 2,2-dimethyl- BA	7650	000590-73-8	83.00
3	Butane, 2,2,3,3-tetramethyl-	7672	000594-82-1	78.00
4	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	72.00
5	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	72.00



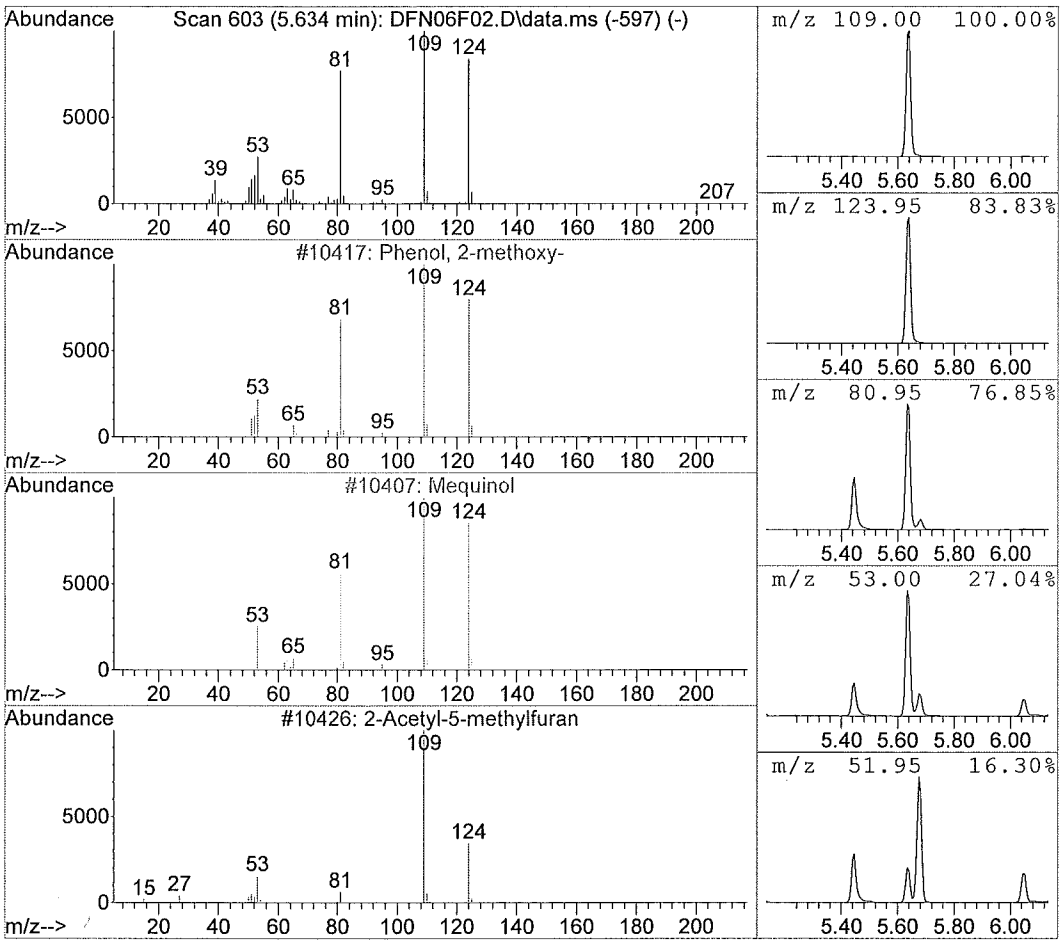
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
5.63	8.45 ug/ml	2247144	1,4-Dichlorobenzene-d4	5318386

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 2-methoxy-	10417	000090-05-1	96.00
2	Mequinol	10407	000150-76-5	93.00
3	2-Acetyl-5-methylfuran	10426	001193-79-9	58.00
4	5-Ethyl-2-furaldehyde	10422	023074-10-4	53.00
5	Ethanone, 1-(2-methyl-1-cyclopenten	10586	003168-90-9	52.00



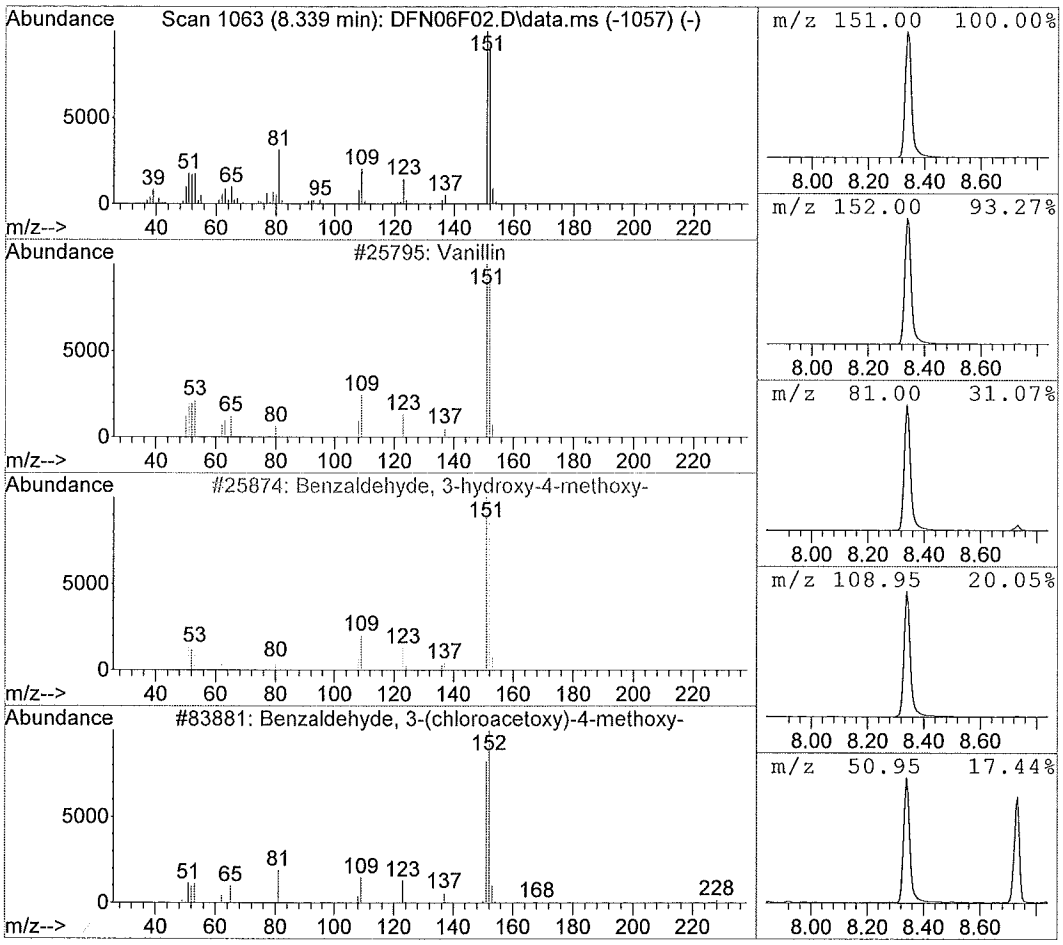
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
8.34	5.54 ug/ml	2200298	Acenaphthene-d10	7945359

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Vanillin	25795	000121-33-5	98.00
2	Benzaldehyde, 3-hydroxy-4-methoxy-	25874	000621-59-0	97.00
3	Benzaldehyde, 3-(chloroacetoxy)-4-m	83881	066267-38-7	86.00
4	Benzaldehyde, 2,4-dihydroxy-6-methy	25896	000487-69-4	64.00
5	Pyrimido[1,2-a]azepine, 2,3,4,6,7,8	26138	006674-22-2	64.00



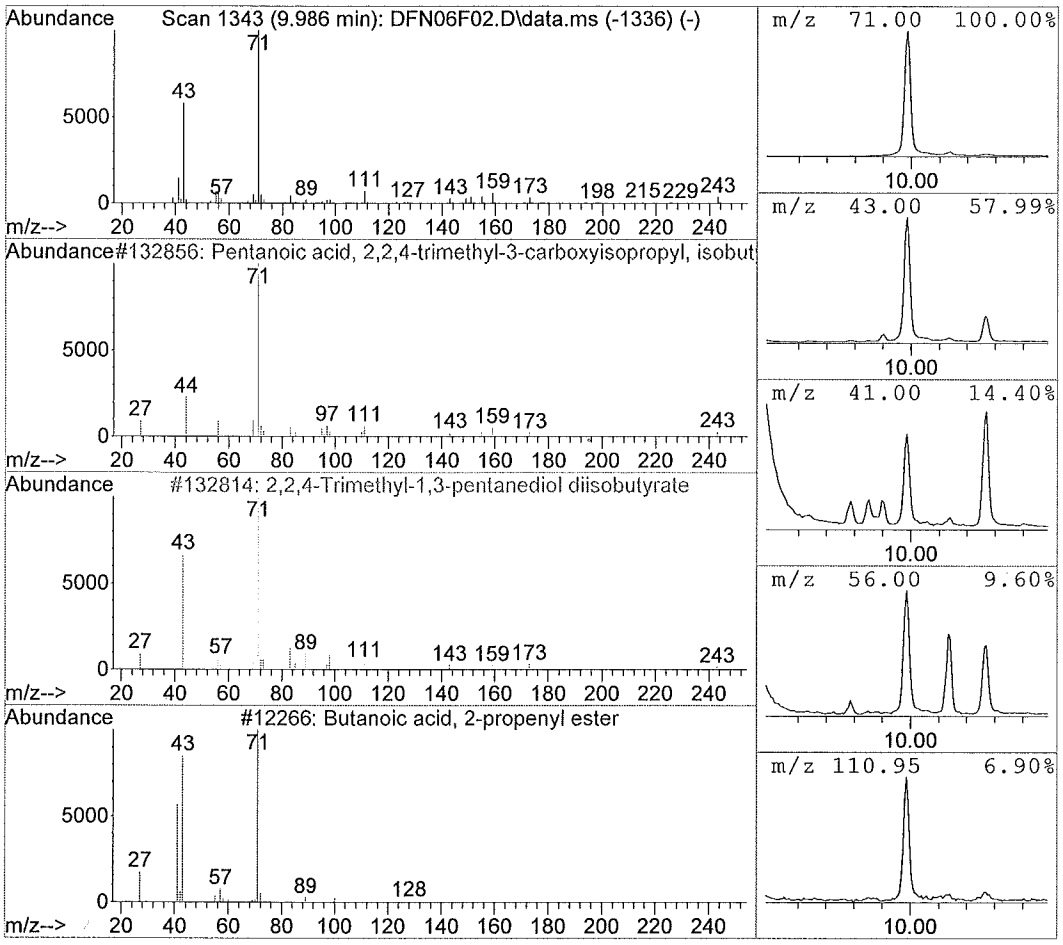
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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	2.00 ug/ml	794623	Acenaphthene-d10	7945359

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	50.00
3	Butanoic acid, 2-propenyl ester	12266	002051-78-7	50.00
4	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
5	Butanoic acid, 3-butenyl ester	19731	021698-32-8	42.00



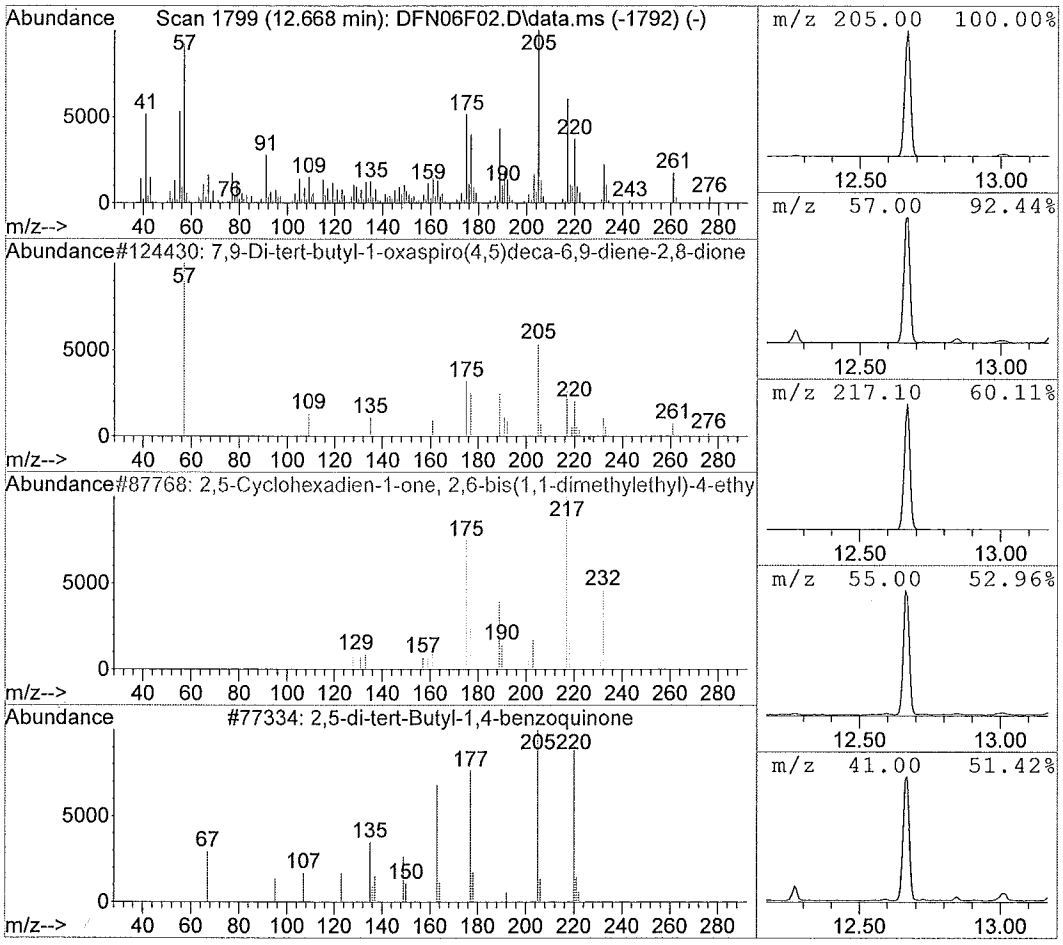
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN06F02.D Vial: 6
Acq On : 05/28/2015 19:47 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER 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
12.67	5.00 ug/ml	2106136	Phenanthrene-d10	8421158

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)de	124430	082304-66-3	99.00
2	2,5-Cyclohexadien-1-one, 2,6-bis(1,	87768	006738-27-8	84.00
3	2,5-di-tert-Butyl-1,4-benzoquinone	77334	002460-77-7	46.00
4	Benzenamine, N,N-diethyl-4-(2-nitro	77116	064462-51-7	30.00
5	Butylated Hydroxytoluene	77555	000128-37-0	25.00



6E - FORM VI SV-1
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

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.: F9L37

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.: F9L37

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

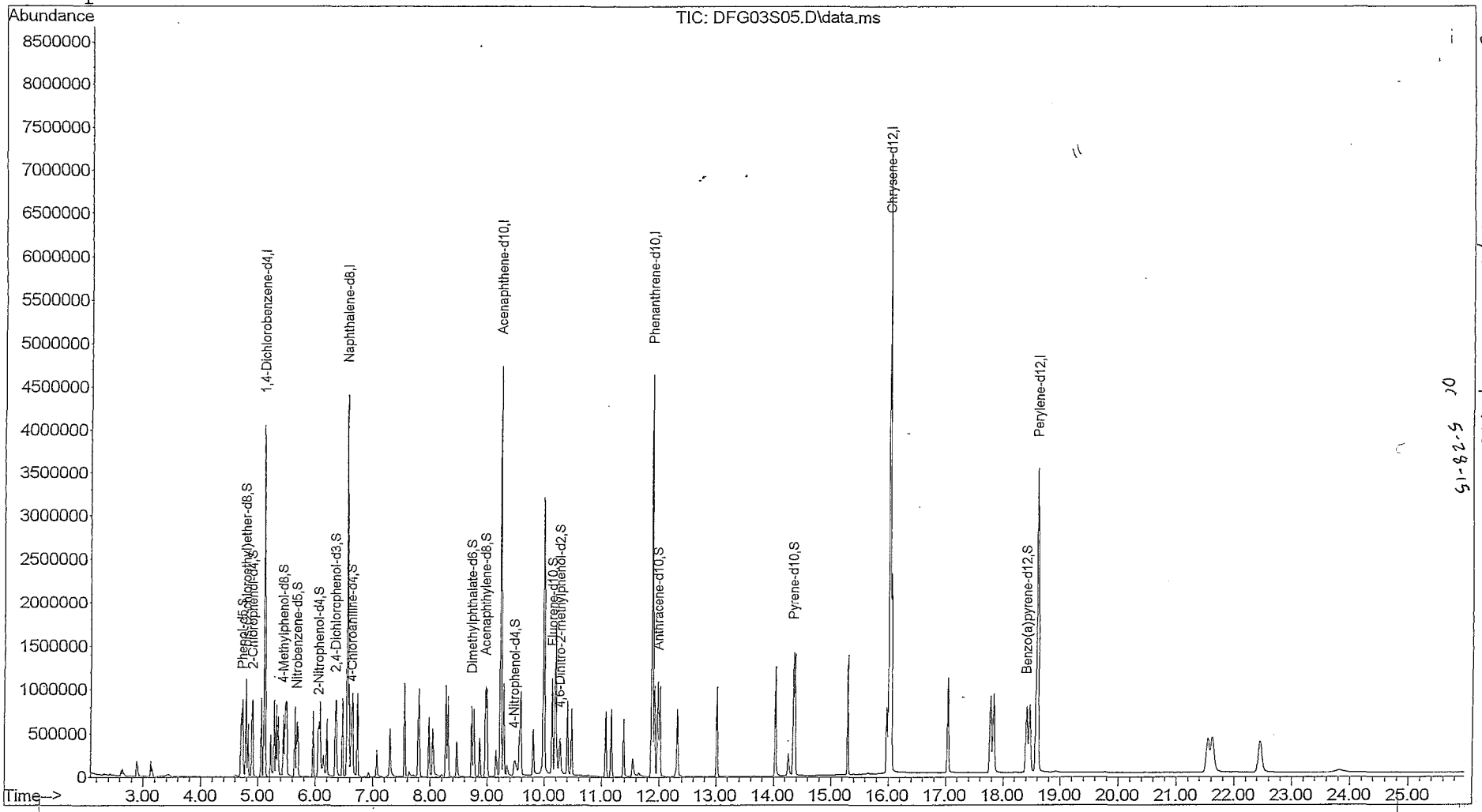
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.239	1.221	1.279	1.263	1.222	1.245	2.1
Bis(2-chloroethyl)ether-d8	0.919	0.896	0.934	0.906	0.900	0.911	1.7
2-Chlorophenol-d4	1.234	1.206	1.258	1.271	1.234	1.241	2.0
4-Methylphenol-d8	0.915	0.893	0.956	0.960	0.942	0.933	3.1
Nitrobenzene-d5	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: FGK50 Case: 45316
DC 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

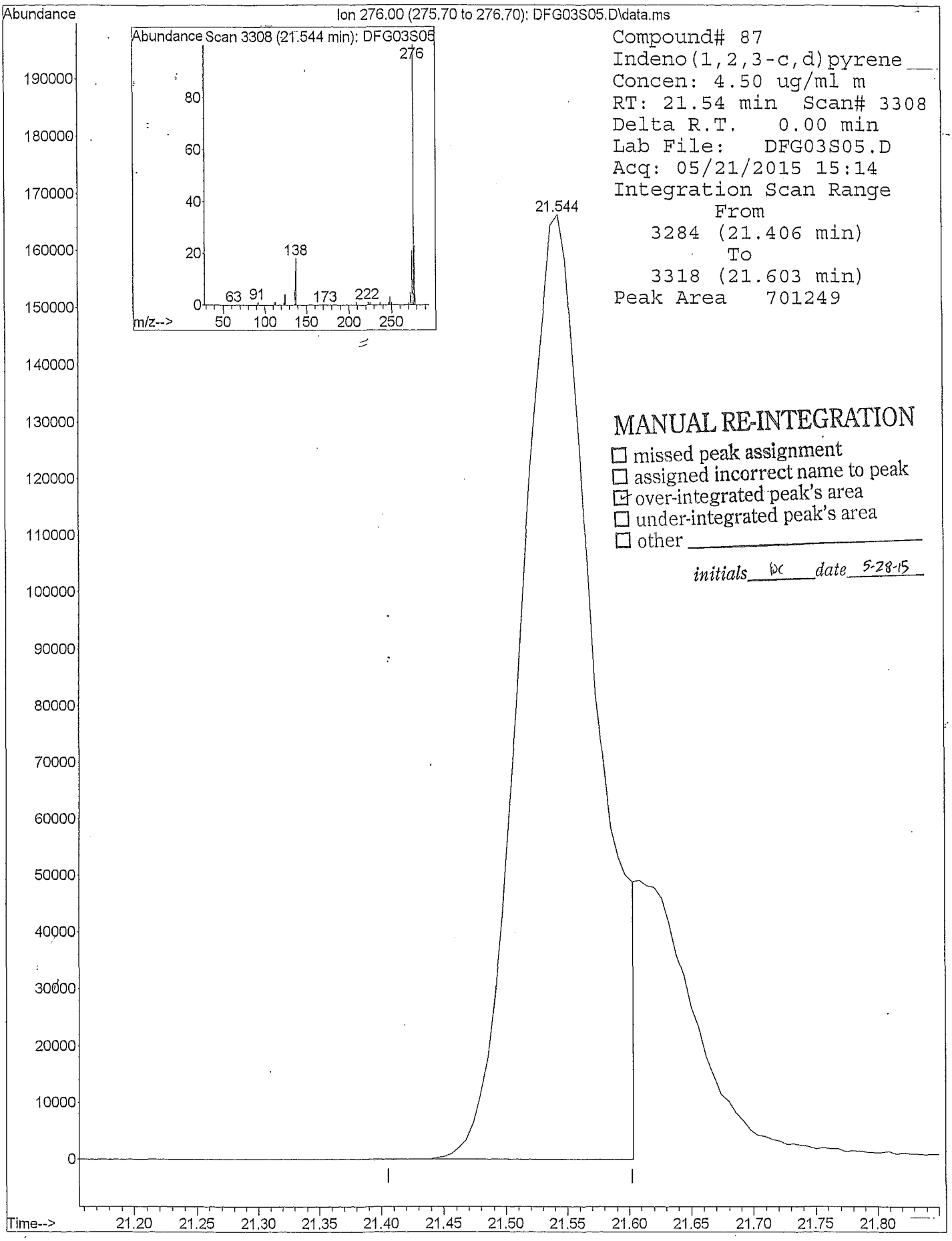
Data File : C:\msdchem\1\DATA\20...15\21MAY15\DFG03S05.D Vial: 2
Acq On : 05/21/2015 15:14 Operator: DJC
Sample : SSTD005DG 28102 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 22 14:18:21 2015 Results File: DSOM01D5.RES

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



Compound# 87
Indeno(1,2,3-c,d)pyrene
Concen: 4.50 ug/ml m
RT: 21.54 min Scan# 3308
Delta R.T. 0.00 min
Lab File: DFG03S05.D
Acq: 05/21/2015 15:14
Integration Scan Range
From
3284 (21.406 min)
To
3318 (21.603 min)
Peak Area 701249

MANUAL RE-INTEGRATION

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

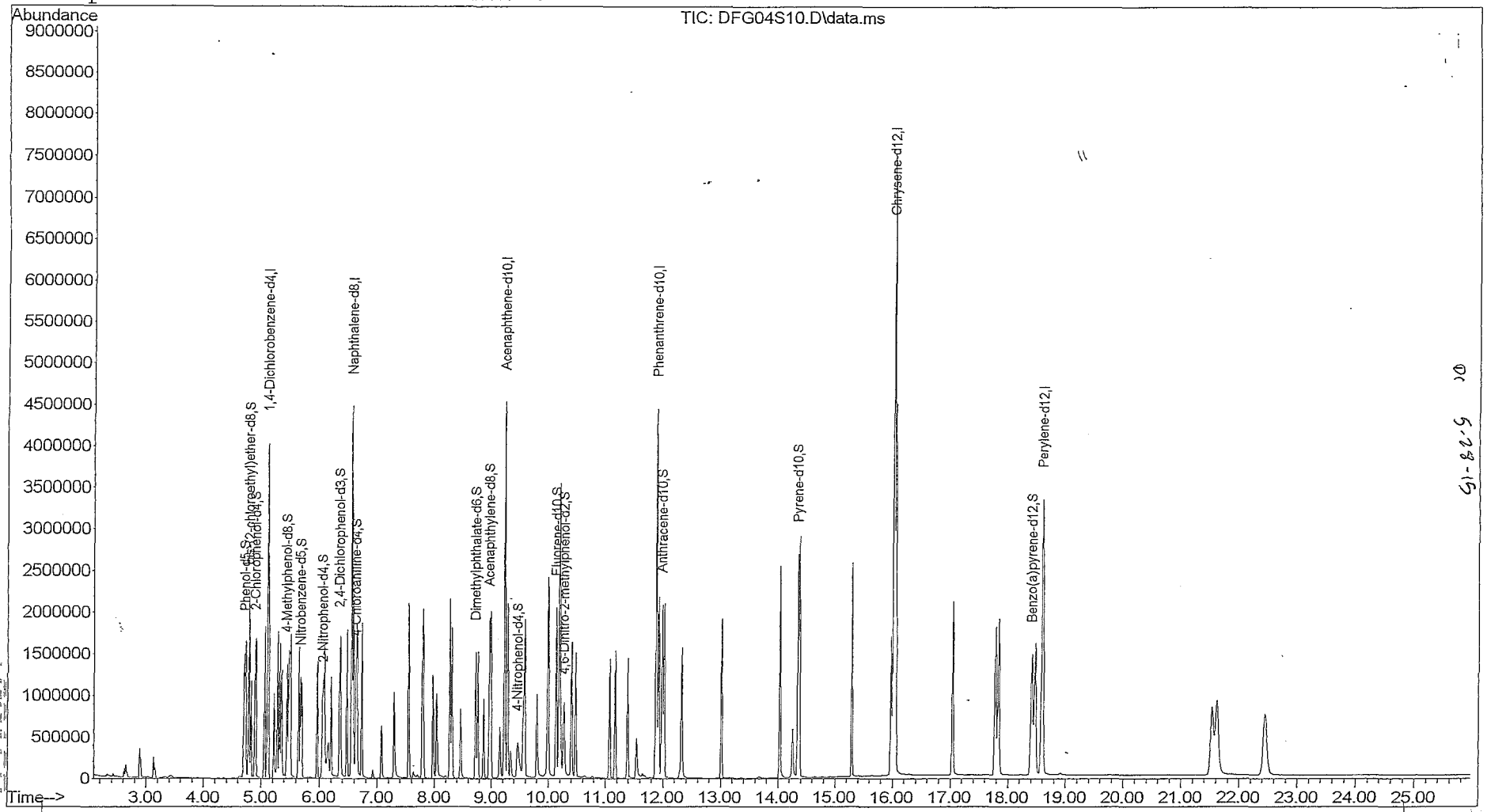
initials pc *date* 5-28-15

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

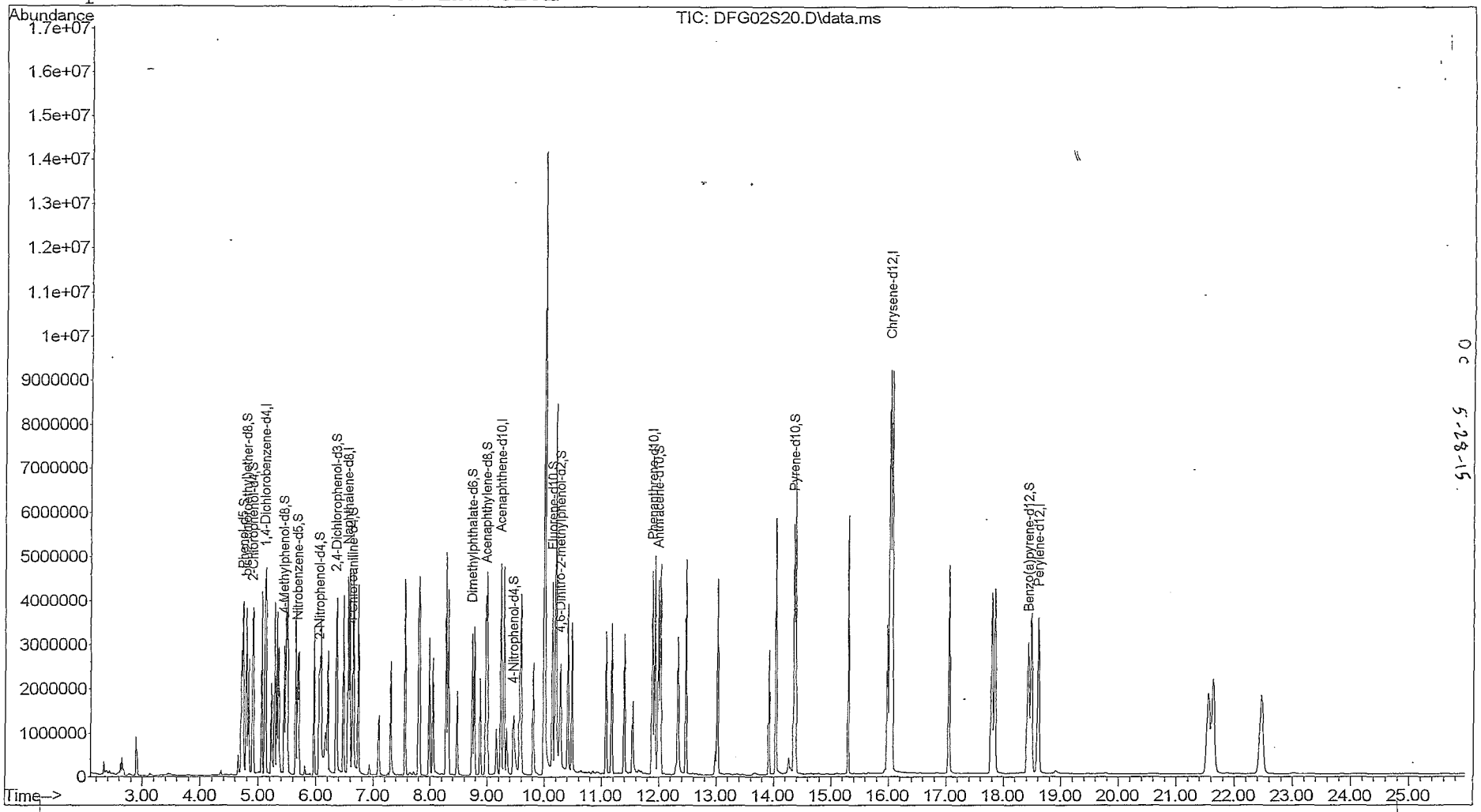
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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

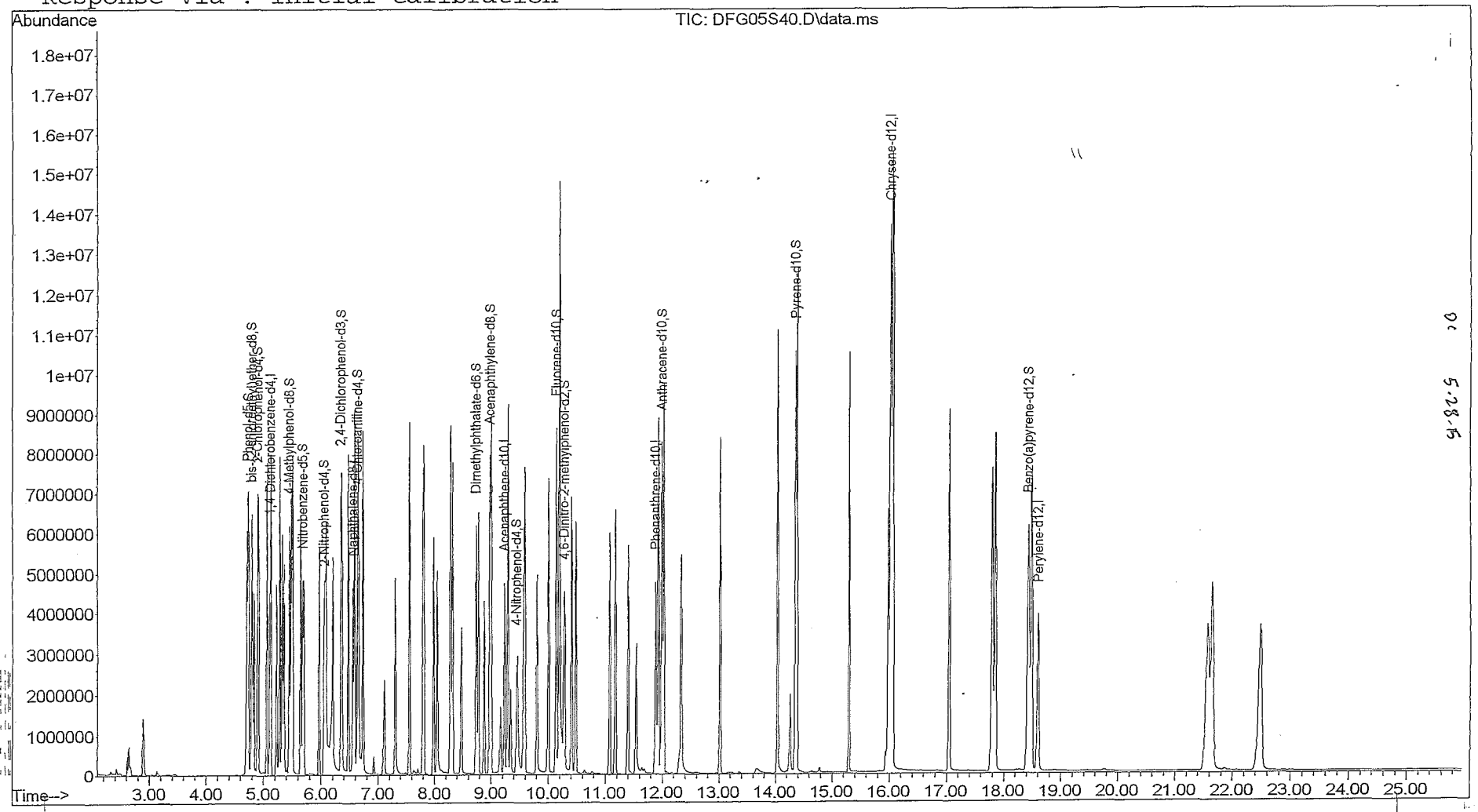
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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 : 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

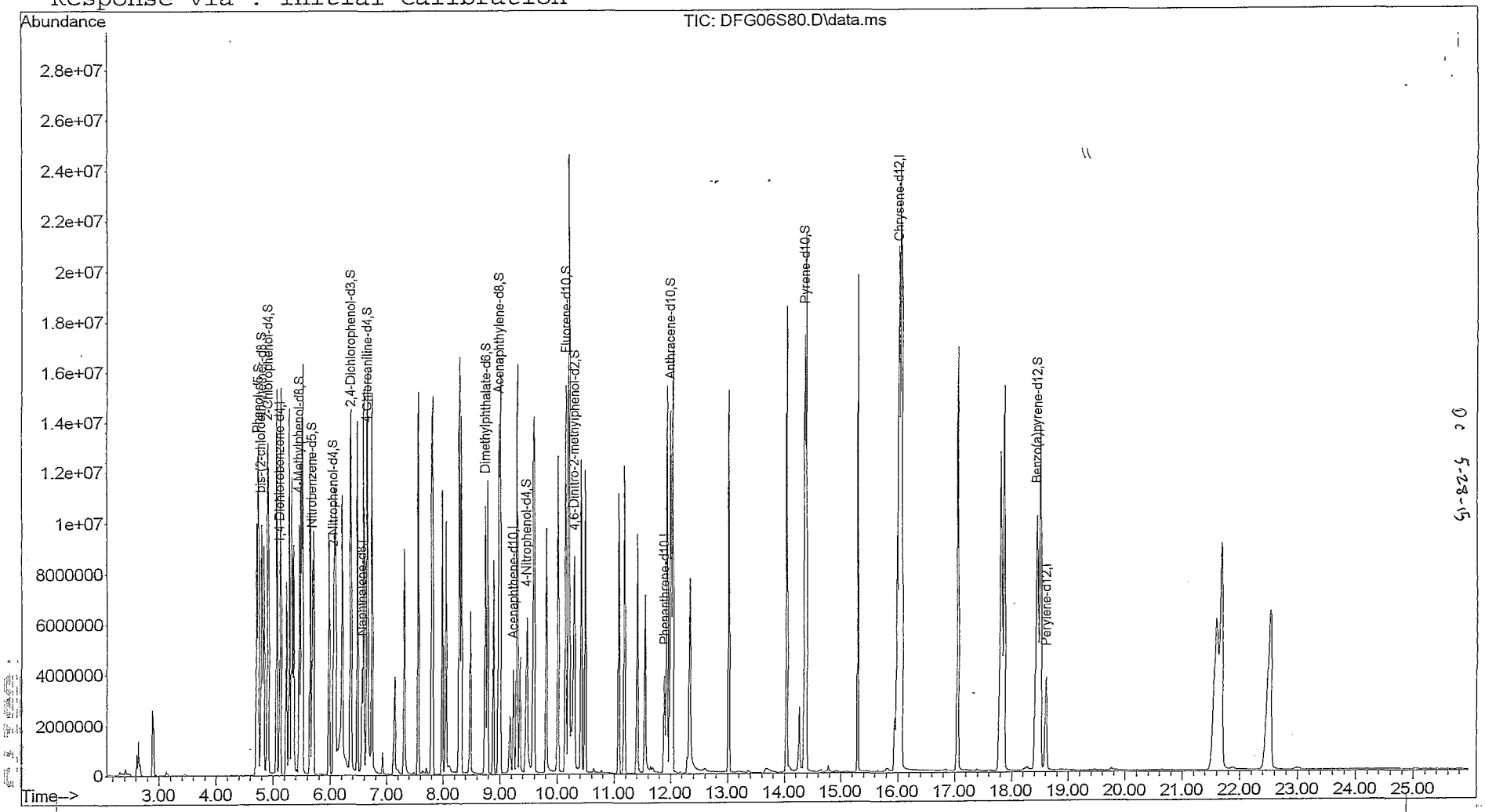
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-28-15

DFG06S80.D DSOM01D5.M Thu May 28 11:42:57 2015

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
(*) 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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 16:59

Lab File ID: DFN01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DN 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	0.699	0.010	-12.8	40.0
Phenol	1.288	1.410	0.800	9.4	25.0
Bis(2-chloroethyl)ether	1.134	1.140	0.700	0.5	25.0
2-Chlorophenol	1.178	1.244	0.800	5.6	25.0
2-Methylphenol	0.999	1.104	0.700	10.5	25.0
2,2'-Oxybis(1-chloropropane)	1.638	1.806	0.010	10.2	40.0
Acetophenone	1.424	1.623	0.010	13.9	40.0
4-Methylphenol	1.043	1.173	0.600	12.5	25.0
N-Nitroso-di-n-propylamine	0.700	0.821	0.500	17.3	25.0
Hexachloroethane	0.556	0.582	0.300	4.6	25.0
Nitrobenzene	0.322	0.349	0.200	8.4	25.0
Isophorone	0.555	0.615	0.400	10.8	25.0
2-Nitrophenol	0.196	0.201	0.100	2.7	25.0
2,4-Dimethylphenol	0.315	0.322	0.200	2.2	25.0
Bis(2-chloroethoxy)methane	0.359	0.384	0.300	6.9	25.0
2,4-Dichlorophenol	0.314	0.328	0.200	4.6	25.0
Naphthalene	0.957	1.018	0.700	6.3	25.0
4-Chloroaniline	0.290	0.357	0.010	23.2	40.0
Hexachlorobutadiene	0.240	0.241	0.010	0.3	40.0
Caprolactam	0.084	0.098	0.010	16.7	40.0
4-Chloro-3-methylphenol	0.262	0.284	0.200	8.1	25.0
2-Methylnaphthalene	0.648	0.687	0.400	6.0	25.0
Hexachlorocyclopentadiene	0.382	0.406	0.010	6.2	40.0
2,4,6-Trichlorophenol	0.392	0.393	0.200	0.2	25.0
2,4,5-Trichlorophenol	0.414	0.423	0.200	2.2	25.0
1,1'-Biphenyl	1.267	1.375	0.010	8.5	40.0
2-Chloronaphthalene	1.060	1.082	0.800	2.1	25.0
2-Nitroaniline	0.273	0.296	0.010	8.5	40.0
Dimethylphthalate	1.193	1.227	0.010	2.8	40.0
2,6-Dinitrotoluene	0.260	0.274	0.200	5.5	25.0
Acenaphthylene	1.661	1.748	0.900	5.2	25.0
3-Nitroaniline	0.182	0.239	0.010	31.6	40.0
Acenaphthene	1.030	1.084	0.900	5.3	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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 16:59

Lab File ID: DFN01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DN 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	0.168	0.010	5.3	40.0
4-Nitrophenol	0.121	0.126	0.010	3.6	40.0
Dibenzofuran	1.520	1.549	0.800	1.9	25.0
2,4-Dinitrotoluene	0.351	0.374	0.200	6.7	25.0
Diethylphthalate	1.206	1.304	0.010	8.1	40.0
Fluorene	1.204	1.320	0.900	9.6	25.0
4-Chlorophenyl-phenylether	0.650	0.697	0.400	7.2	25.0
4-Nitroaniline	0.227	0.244	0.010	7.6	40.0
4,6-Dinitro-2-methylphenol	0.141	0.146	0.010	3.5	40.0
N-Nitrosodiphenylamine (1)	0.486	0.513	0.010	5.6	40.0
1,2,4,5-Tetrachlorobenzene	0.635	0.643	0.010	1.3	40.0
4-Bromophenyl-phenylether	0.236	0.237	0.100	0.5	25.0
Hexachlorobenzene	0.249	0.245	0.100	-1.6	25.0
Atrazine	0.200	0.164	0.010	-17.7	40.0
Pentachlorophenol	0.130	0.124	0.050	-4.5	25.0
Phenanthrene	1.000	1.064	0.700	6.3	25.0
Anthracene	1.029	1.086	0.700	5.6	25.0
Carbazole	0.835	0.877	0.010	5.1	40.0
Di-n-butylphthalate	1.163	1.246	0.010	7.2	40.0
Fluoranthene	1.147	1.246	0.600	8.6	25.0
Pyrene	1.040	1.146	0.600	10.2	25.0
Butylbenzylphthalate	0.446	0.478	0.010	7.2	40.0
3,3'-Dichlorobenzidine	0.342	0.350	0.010	2.2	40.0
Benzo(a)anthracene	1.051	1.116	0.800	6.2	25.0
Chrysene	0.948	1.026	0.700	8.2	25.0
Bis(2-ethylhexyl)phthalate	0.689	0.753	0.010	9.3	40.0
Di-n-octylphthalate	1.180	1.356	0.010	14.9	40.0
Benzo(b)fluoranthene	1.067	1.139	0.700	6.7	25.0
Benzo(k)fluoranthene	1.043	1.152	0.700	10.4	25.0
Benzo(a)pyrene	1.036	1.083	0.700	4.6	25.0
Indeno(1,2,3-cd)pyrene	0.990	1.023	0.500	3.4	25.0
Dibenzo(a,h)anthracene	1.020	1.043	0.400	2.3	25.0
Benzo(g,h,i)perylene	1.001	1.025	0.500	2.4	25.0
2,3,4,6-Tetrachlorophenol	0.339	0.338	0.100	-0.4	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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 16:59

Lab File ID: DFN01S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020DN Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

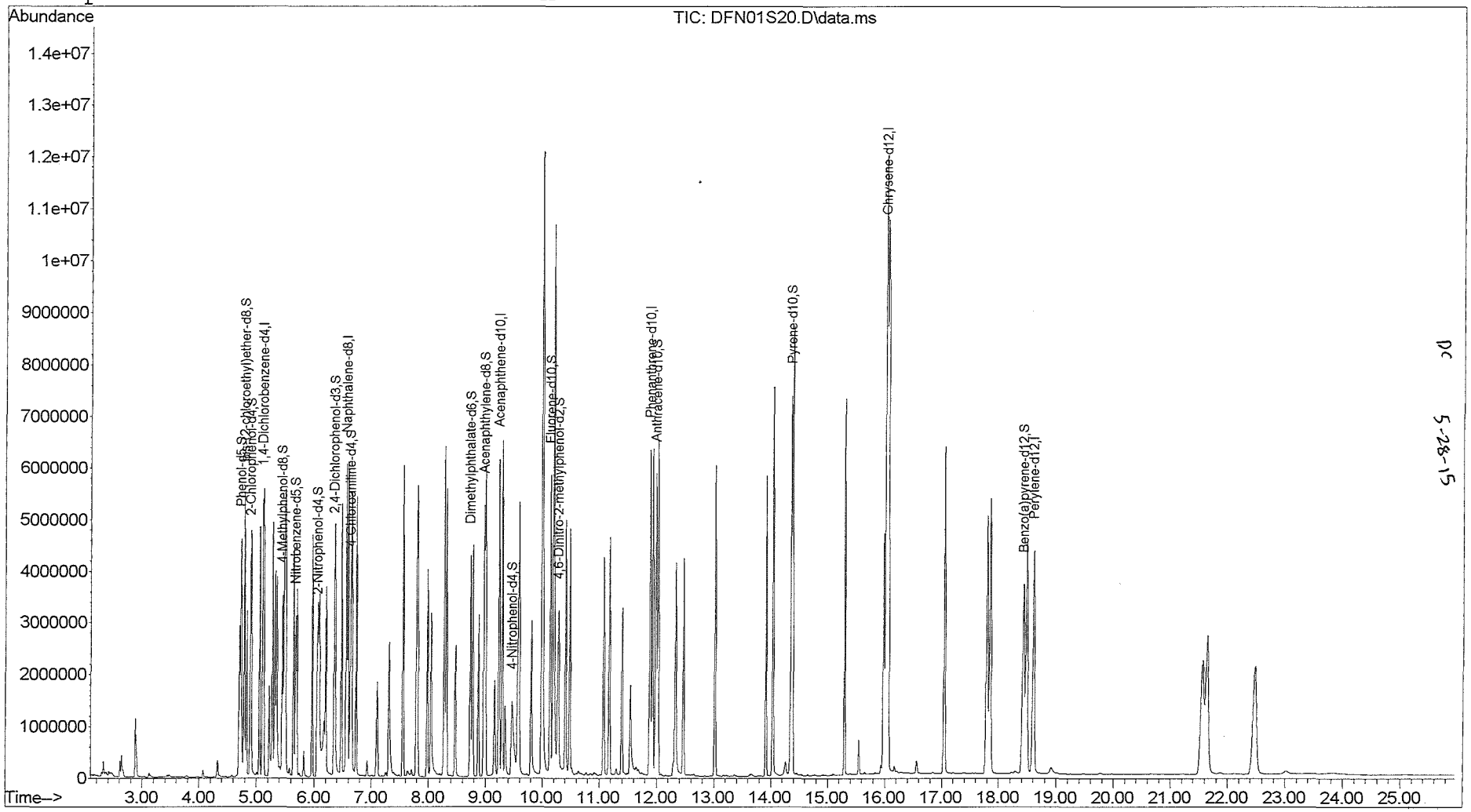
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.322	0.010	6.2	25.0
Bis(2-chloroethyl)ether-d8	0.911	0.971	0.010	6.6	25.0
2-Chlorophenol-d4	1.241	1.261	0.010	1.6	25.0
4-Methylphenol-d8	0.933	0.973	0.010	4.3	25.0
Nitrobenzene-d5	0.164	0.166	0.010	1.1	25.0
2-Nitrophenol-d4	0.194	0.189	0.010	-3.0	25.0
2,4-Dichlorophenol-d3	0.314	0.322	0.010	2.6	25.0
4-Chloroaniline-d4	0.236	0.264	0.010	11.9	40.0
Dimethylphthalate-d6	1.233	1.228	0.010	-0.4	40.0
Acenaphthylene-d8	1.624	1.624	0.010	0.0	25.0
4-Nitrophenol-d4	0.205	0.202	0.010	-1.6	40.0
Fluorene-d10	1.090	1.087	0.010	-0.2	25.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.127	0.010	0.4	40.0
Anthracene-d10	1.025	1.017	0.010	-0.7	25.0
Pyrene-d10	0.842	0.876	0.010	4.0	25.0
Benzo(a)pyrene-d12	0.915	0.913	0.010	-0.2	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN01S20.D Vial: 1
Acq On : 05/28/2015 16:59 Operator: DJC
Sample : SSTD020DN 28104 DFTPPDN Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 17:25:10 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 17:26:42 2015
Response via : Initial Calibration



5-28-15 DC

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN01S20.D Vial: 1
Acq On : 05/28/2015 16:59 Operator: DJC
Sample : SSTD020DN 28104 DFTPPDN Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 17:25:10 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 17:26:42 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.10	152	927637	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3215474	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	2112124	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3720791	20.00 ug/ml
73) Chrysene-d12	16.03	240	4260810	20.00 ug/ml
81) Perylene-d12	18.60	264	3710387	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1226495	21.244ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	900406	21.314ug/mL
7) 2-Chlorophenol-d4	4.89	132	1169494	20.322ug/ml
13) 4-Methylphenol-d8	5.45	113	902634	20.858ug/mL
17) Nitrobenzene-d5	5.67	128	532367	20.214ug/ml
21) 2-Nitrophenol-d4	6.05	143	606126	19.407ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1035453	20.516ug/mL
28) 4-Chloroaniline-d4	6.63	131	848866	22.387ug/mL
42) Dimethylphthalate-d6	8.73	166	2593518	19.916ug/mL
45) Acenaphthylene-d8	8.97	160	3430749	20.008ug/mL
50) 4-Nitrophenol-d4	9.46	143	425817	19.688ug/mL
57) Fluorene-d10	10.14	176	2296306	19.956ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	472038	20.089ug/mL
69) Anthracene-d10	11.99	188	3784681	19.854ug/mL
75) Pyrene-d10	14.35	212	3732092	20.799ug/mL
86) Benzo(a)pyrene-d12	18.43	264	3389195	19.960ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	648429	17.443ug/ml	91
4) Phenol	4.73	94	1308042	21.888ug/ml	89
5) Bis(2-chloroethyl)ether	4.83	93	1057145	20.104ug/ml	98
8) 2-Chlorophenol	4.91	128	1154064	21.127ug/ml	99
9) 2-Methylphenol	5.32	108	1024146	22.099ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1674956	22.043ug/ml	100
11) Acetophenone	5.50	105	1505295	22.783ug/ml	90
12) 4-methylphenol	5.47	108	1088019	22.500ug/ml	98
14) N-Nitroso-di-n-propylamine	5.49	70	761369	23.464ug/ml	82
15) Hexachloroethane	5.64	117	539693	20.922ug/ml	80
18) Nitrobenzene	5.70	77	1121164	21.681ug/ml	96
19) Isophorone	5.96	82	1977031	22.164ug/ml	94
20) 2-Nitrophenol	6.07	139	645777	20.543ug/ml	88
22) 2,4-Dimethylphenol	6.09	107	1035394	20.431ug/ml	90
23) Bis(2-chloroethoxy)methane	6.20	93	1234725	21.384ug/ml	98
24) 2,4-Dichlorophenol	6.36	162	1056090	20.926ug/ml	96
26) Naphthalene	6.59	128	3272389	21.265ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN01S20.D Vial: 1
Acq On : 05/28/2015 16:59 Operator: DJC
Sample : SSTD020DN 28104 DFTPPDN Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 17:25:10 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 17:26:42 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.64	127	1147257	24.645ug/ml	98
29)	Hexachlorobutadiene	6.73	225	774707	20.064ug/ml	99
30)	Caprolactam	7.10	113	316023	23.331ug/ml	93
31)	4-Chloro-3-methylphenol	7.31	107	912183	21.615ug/ml	94
32)	2-Methylnaphthalene	7.56	142	2207427	21.201ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	1358031	20.254ug/mL	97
35)	Hexachlorocyclopentadiene	7.79	237	857169	21.249ug/ml	99
36)	2,4,6-Trichlorophenol	7.98	196	829437	20.038ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	893127	20.450ug/ml	99
38)	1,1'-Biphenyl	8.28	154	2903736	21.697ug/ml	97
39)	2-Chloronaphthalene	8.32	162	2285736	20.419ug/ml	90
40)	2-Nitroaniline	8.47	65	625393	21.692ug/ml	97
41)	Dimethylphthalate	8.77	163	2590816	20.564ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	578699	21.102ug/ml	95
44)	Acenaphthylene	9.00	152	3692070	21.050ug/ml	98
46)	3-Nitroaniline	9.16	138	504770	26.325ug/ml	95
47)	Acenaphthene	9.29	153	2289711	21.056ug/ml	93
48)	2,4-Dinitrophenol	9.35	184	354261	21.056ug/ml	100
49)	4-Nitrophenol	9.47	109	265815	20.725ug/ml	93
51)	Dibenzofuran	9.59	168	3271607	20.379ug/ml	96
52)	2,4-Dinitrotoluene	9.57	165	790927	21.345ug/ml	75
53)	2,3,4,6-Tetrachlorophenol	9.80	232	714132	19.928ug/mL	93
54)	Diethylphthalate	10.00	149	2753401	21.621ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	1472973	21.449ug/ml	90
56)	Fluorene	10.19	166	2788315	21.929ug/ml	99
58)	4-Nitroaniline	10.22	138	514971	21.521ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.29	198	542351	20.703ug/ml	91
62)	N-Nitrosodiphenylamine	10.41	169	1909792	21.113ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	881521	20.103ug/ml	87
64)	Hexachlorobenzene	11.17	284	910454	19.679ug/ml	84
65)	Atrazine	11.40	200	611992	16.469ug/ml	99
66)	Pentachlorophenol	11.55	266	461132	19.095ug/ml	98
67)	Phenanthrene	11.93	178	3958178	21.265ug/ml	99
68)	Anthracene	12.02	178	4041739	21.112ug/ml	99
70)	Carbazole	12.33	167	3264318	21.021ug/mL	97
71)	Di-n-butylphthalate	13.02	149	4636178	21.436ug/ml	99
72)	Fluoranthene	14.03	202	4634976	21.717ug/ml	88
74)	Pyrene	14.38	202	4883641	22.046ug/ml	87
76)	Butylbenzylphthalate	15.30	149	2036088	21.434ug/ml	95
77)	3,3'-Dichlorobenzidine	15.97	252	1489994	20.432ug/ml	95
78)	Benzo(a)anthracene	16.01	228	4753396	21.232ug/ml	97
79)	Chrysene	16.06	228	4372078	21.641ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	3207599	21.853ug/ml	100

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN01S20.D Vial: 1
Acq On : 05/28/2015 16:59 Operator: DJC
Sample : SSTD020DN 28104 DFTPPDN Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 17:25:10 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 17:26:42 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	5030235	22.971ug/ml	99
83) Benzo(b)fluoranthene	17.79	252	4224853	21.334ug/ml	93
84) Benzo(k)fluoranthene	17.84	252	4273354	22.078ug/ml	93
85) Benzo(a)pyrene	18.48	252	4018424	20.916ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.56	276	3796865	20.677ug/ml	75
88) Dibenzo(a,h)anthracene	21.64	278	3870937	20.456ug/ml	90
89) Benzo(g,h,i)perylene	22.47	276	3801337	20.476ug/ml	86

(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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 23:03

Lab File ID: DFN12S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020N1 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	0.739	0.010	-7.8	50.0
Phenol	1.288	1.400	0.010	8.7	50.0
Bis(2-chloroethyl)ether	1.134	1.089	0.010	-3.9	50.0
2-Chlorophenol	1.178	1.239	0.010	5.2	50.0
2-Methylphenol	0.999	1.091	0.010	9.1	50.0
2,2'-Oxybis(1-chloropropane)	1.638	1.800	0.010	9.9	50.0
Acetophenone	1.424	1.600	0.010	12.4	50.0
4-Methylphenol	1.043	1.165	0.010	11.7	50.0
N-Nitroso-di-n-propylamine	0.700	0.804	0.010	14.9	50.0
Hexachloroethane	0.556	0.583	0.010	4.7	50.0
Nitrobenzene	0.322	0.349	0.010	8.5	50.0
Isophorone	0.555	0.611	0.010	10.1	50.0
2-Nitrophenol	0.196	0.198	0.010	1.3	50.0
2,4-Dimethylphenol	0.315	0.319	0.010	1.3	50.0
Bis(2-chloroethoxy)methane	0.359	0.382	0.010	6.4	50.0
2,4-Dichlorophenol	0.314	0.328	0.010	4.6	50.0
Naphthalene	0.957	1.009	0.010	5.4	50.0
4-Chloroaniline	0.290	0.346	0.010	19.5	50.0
Hexachlorobutadiene	0.240	0.243	0.010	1.2	50.0
Caprolactam	0.084	0.094	0.010	11.9	50.0
4-Chloro-3-methylphenol	0.262	0.277	0.010	5.6	50.0
2-Methylnaphthalene	0.648	0.683	0.010	5.5	50.0
Hexachlorocyclopentadiene	0.382	0.373	0.010	-2.4	50.0
2,4,6-Trichlorophenol	0.392	0.395	0.010	0.9	50.0
2,4,5-Trichlorophenol	0.414	0.414	0.010	0.1	50.0
1,1'-Biphenyl	1.267	1.349	0.010	6.4	50.0
2-Chloronaphthalene	1.060	1.100	0.010	3.8	50.0
2-Nitroaniline	0.273	0.291	0.010	6.6	50.0
Dimethylphthalate	1.193	1.238	0.010	3.8	50.0
2,6-Dinitrotoluene	0.260	0.273	0.010	5.1	50.0
Acenaphthylene	1.661	1.749	0.010	5.3	50.0
3-Nitroaniline	0.182	0.231	0.010	27.1	50.0
Acenaphthene	1.030	1.094	0.010	6.3	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 23:03

Lab File ID: DFN12S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020N1 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	0.151	0.010	-5.1	50.0
4-Nitrophenol	0.121	0.121	0.010	-0.1	50.0
Dibenzofuran	1.520	1.562	0.010	2.8	50.0
2,4-Dinitrotoluene	0.351	0.373	0.010	6.3	50.0
Diethylphthalate	1.206	1.231	0.010	2.1	50.0
Fluorene	1.204	1.314	0.010	9.2	50.0
4-Chlorophenyl-phenylether	0.650	0.698	0.010	7.3	50.0
4-Nitroaniline	0.227	0.251	0.010	10.7	50.0
4,6-Dinitro-2-methylphenol	0.141	0.138	0.010	-2.1	50.0
N-Nitrosodiphenylamine (1)	0.486	0.520	0.010	6.9	50.0
1,2,4,5-Tetrachlorobenzene	0.635	0.655	0.010	3.2	50.0
4-Bromophenyl-phenylether	0.236	0.239	0.010	1.5	50.0
Hexachlorobenzene	0.249	0.247	0.010	-0.7	50.0
Atrazine	0.200	0.164	0.010	-17.8	50.0
Pentachlorophenol	0.130	0.118	0.010	-9.4	50.0
Phenanthrene	1.000	1.073	0.010	7.2	50.0
Anthracene	1.029	1.088	0.010	5.7	50.0
Carbazole	0.835	0.880	0.010	5.4	50.0
Di-n-butylphthalate	1.163	1.243	0.010	6.9	50.0
Fluoranthene	1.147	1.236	0.010	7.7	50.0
Pyrene	1.040	1.161	0.010	11.6	50.0
Butylbenzylphthalate	0.446	0.473	0.010	6.2	50.0
3,3'-Dichlorobenzidine	0.342	0.355	0.010	3.6	50.0
Benzo(a)anthracene	1.051	1.113	0.010	5.9	50.0
Chrysene	0.948	1.007	0.010	6.2	50.0
Bis(2-ethylhexyl)phthalate	0.689	0.765	0.010	11.0	50.0
Di-n-octylphthalate	1.180	1.366	0.010	15.7	50.0
Benzo(b)fluoranthene	1.067	1.134	0.010	6.2	50.0
Benzo(k)fluoranthene	1.043	1.154	0.010	10.6	50.0
Benzo(a)pyrene	1.036	1.080	0.010	4.3	50.0
Indeno(1,2,3-cd)pyrene	0.990	0.979	0.010	-1.0	50.0
Dibenzo(a,h)anthracene	1.020	1.011	0.010	-0.9	50.0
Benzo(g,h,i)perylene	1.001	0.984	0.010	-1.7	50.0
2,3,4,6-Tetrachlorophenol	0.339	0.340	0.010	0.2	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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/28/2015 Time: 23:03

Lab File ID: DFN12S20 Init. Calib. Date(s): 05/21/2015 05/21/2015

EPA Sample No.(SSTD020##): SSTD020N1 Init. Calib. Time(s): 14:38 16:56

GC Column: DB5MS ID: 0.32 (mm)

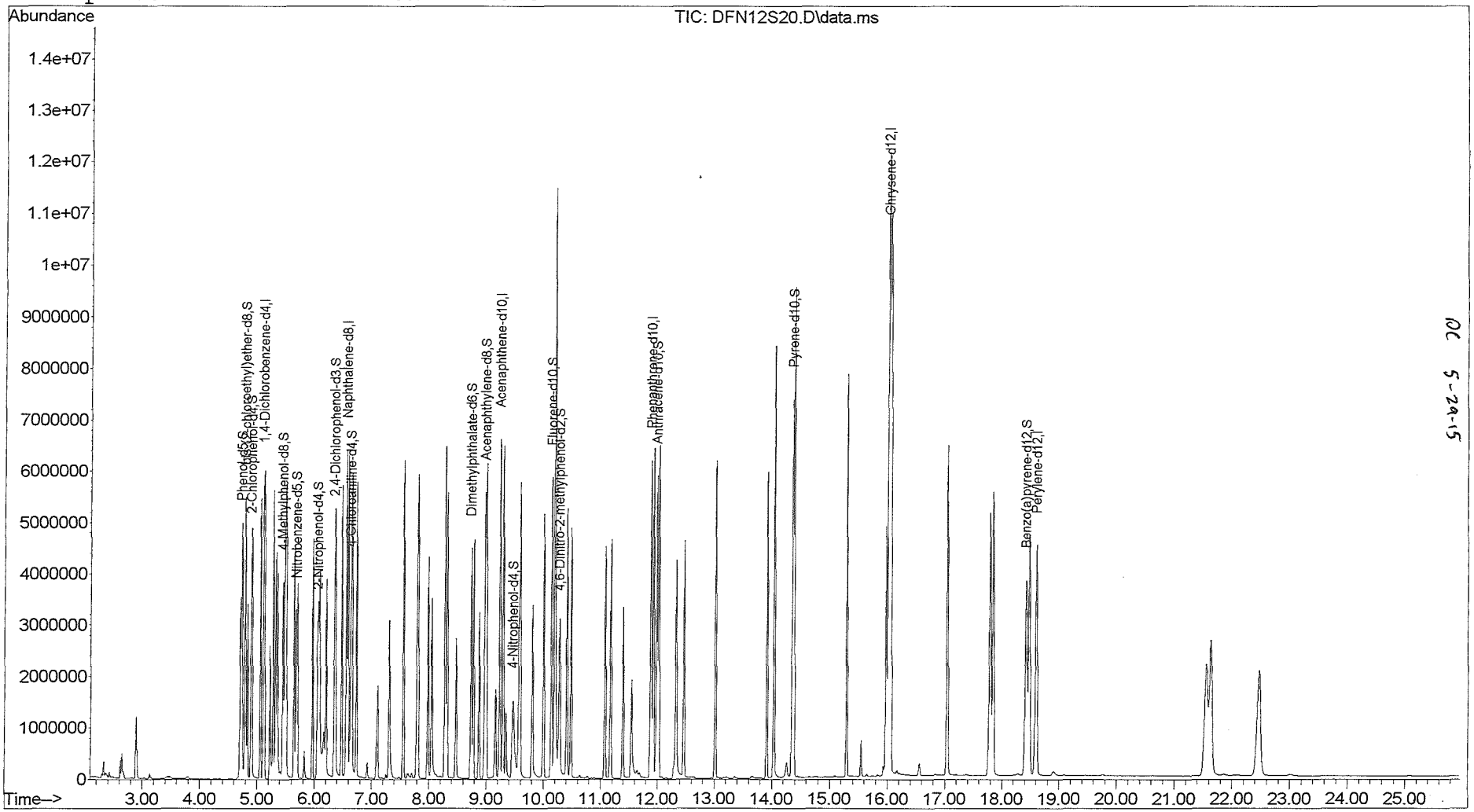
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.245	1.309	0.010	5.1	50.0
Bis(2-chloroethyl)ether-d8	0.911	0.964	0.010	5.8	50.0
2-Chlorophenol-d4	1.241	1.263	0.010	1.8	50.0
4-Methylphenol-d8	0.933	0.966	0.010	3.5	50.0
Nitrobenzene-d5	0.164	0.165	0.010	0.9	50.0
2-Nitrophenol-d4	0.194	0.188	0.010	-3.2	50.0
2,4-Dichlorophenol-d3	0.314	0.322	0.010	2.5	50.0
4-Chloroaniline-d4	0.236	0.262	0.010	10.9	50.0
Dimethylphthalate-d6	1.233	1.235	0.010	0.1	50.0
Acenaphthylene-d8	1.624	1.629	0.010	0.3	50.0
4-Nitrophenol-d4	0.205	0.198	0.010	-3.5	50.0
Fluorene-d10	1.090	1.089	0.010	-0.1	50.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.122	0.010	-3.7	50.0
Anthracene-d10	1.025	1.023	0.010	-0.2	50.0
Pyrene-d10	0.842	0.879	0.010	4.4	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...\28MAY15PM\DFN12S20.D Vial: 1
Acq On : 05/28/2015 23:03 Operator: DJC
Sample : SSTD020N1 28104 DFTPPN1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 23:30:07 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 11:38:52 2015
Response via : Initial Calibration



JC 5-29-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN12S20.D Vial: 1
Acq On : 05/28/2015 23:03 Operator: DJC
Sample : SSTD020N1 28104 DFTPPN1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 23:30:07 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 11:38:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	5.11	152	990512	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3421152	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	2207804	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3862490	20.00 ug/ml
73) Chrysene-d12	16.02	240	4429457	20.00 ug/ml
81) Perylene-d12	18.60	264	3828779	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1296170	21.026ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	954669	21.164ug/mL
7) 2-Chlorophenol-d4	4.89	132	1251045	20.360ug/ml
13) 4-Methylphenol-d8	5.45	113	956682	20.703ug/mL
17) Nitrobenzene-d5	5.68	128	565341	20.176ug/ml
21) 2-Nitrophenol-d4	6.05	143	643314	19.360ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1101113	20.506ug/mL
28) 4-Chloroaniline-d4	6.63	131	894990	22.185ug/mL
42) Dimethylphthalate-d6	8.73	166	2725648	20.023ug/mL
45) Acenaphthylene-d8	8.97	160	3596179	20.064ug/mL
50) 4-Nitrophenol-d4	9.46	143	436376	19.301ug/mL
57) Fluorene-d10	10.14	176	2403750	19.984ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	469683	19.256ug/mL
69) Anthracene-d10	11.98	188	3949403	19.958ug/mL
75) Pyrene-d10	14.35	212	3894332	20.877ug/mL
86) Benzo(a)pyrene-d12	18.42	264	3466027	19.781ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.70	77	732219	18.447ug/ml	92
4) Phenol	4.73	94	1386729	21.731ug/ml	90
5) Bis(2-chloroethyl)ether	4.83	93	1078819	19.213ug/ml	98
8) 2-Chlorophenol	4.91	128	1227300	21.041ug/ml	100
9) 2-Methylphenol	5.32	108	1080238	21.830ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.35	45	1782945	21.975ug/ml	100
11) Acetophenone	5.50	105	1585237	22.470ug/ml	91
12) 4-methylphenol	5.47	108	1153719	22.344ug/ml	99
14) N-Nitroso-di-n-propylamine	5.49	70	795992	22.974ug/ml	82
15) Hexachloroethane	5.64	117	577011	20.949ug/ml	80
18) Nitrobenzene	5.70	77	1193643	21.695ug/ml	96
19) Isophorone	5.96	82	2090260	22.025ug/ml	94
20) 2-Nitrophenol	6.07	139	677653	20.261ug/ml	87
22) 2,4-Dimethylphenol	6.09	107	1091871	20.250ug/ml	91
23) Bis(2-chloroethoxy)methane	6.20	93	1307490	21.283ug/ml	99
24) 2,4-Dichlorophenol	6.36	162	1122975	20.913ug/ml	95
26) Naphthalene	6.59	128	3450441	21.074ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN12S20.D Vial: 1
Acq On : 05/28/2015 23:03 Operator: DJC
Sample : SSTD020N1 28104 DFTPPN1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 23:30:07 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 11:38:52 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.64	127	1184185	23.909ug/ml	97
29)	Hexachlorobutadiene	6.73	225	831084	20.230ug/ml	99
30)	Caprolactam	7.10	113	322659	22.388ug/ml	93
31)	4-Chloro-3-methylphenol	7.30	107	948418	21.123ug/ml	94
32)	2-Methylnaphthalene	7.56	142	2337352	21.100ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.81	216	1446109	20.633ug/mL	96
35)	Hexachlorocyclopentadiene	7.79	237	823148	19.522ug/ml	98
36)	2,4,6-Trichlorophenol	7.98	196	872994	20.177ug/ml	99
37)	2,4,5-Trichlorophenol	8.05	196	913802	20.016ug/ml	99
38)	1,1'-Biphenyl	8.28	154	2977330	21.283ug/ml	97
39)	2-Chloronaphthalene	8.32	162	2428699	20.755ug/ml	90
40)	2-Nitroaniline	8.47	65	642745	21.327ug/ml	99
41)	Dimethylphthalate	8.77	163	2733302	20.755ug/ml	99
43)	2,6-Dinitrotoluene	8.87	165	602379	21.014ug/ml	95
44)	Acenaphthylene	9.00	152	3861477	21.062ug/ml	99
46)	3-Nitroaniline	9.16	138	509656	25.428ug/ml	95
47)	Acenaphthene	9.29	153	2416132	21.256ug/ml	92
48)	2,4-Dinitrophenol	9.34	184	333943	18.988ug/ml	100
49)	4-Nitrophenol	9.47	109	267733	19.970ug/ml	94
51)	Dibenzofuran	9.59	168	3449681	20.557ug/ml	95
52)	2,4-Dinitrotoluene	9.57	165	823415	21.259ug/ml	77
53)	2,3,4,6-Tetrachlorophenol	9.80	232	750427	20.034ug/mL	93
54)	Diethylphthalate	10.00	149	2716963	20.411ug/ml	99
55)	4-Chlorophenyl-phenylether	10.20	204	1540689	21.463ug/ml	90
56)	Fluorene	10.19	166	2902121	21.835ug/ml	98
58)	4-Nitroaniline	10.22	138	553560	22.131ug/ml	67
60)	4,6-Dinitro-2-methylphenol	10.29	198	532572	19.584ug/ml	92
62)	N-Nitrosodiphenylamine	10.40	169	2006713	21.371ug/ml	97
63)	4-Bromophenyl-phenyl ether	11.07	248	924498	20.309ug/ml	87
64)	Hexachlorobenzene	11.17	284	953767	19.859ug/ml	84
65)	Atrazine	11.39	200	633874	16.432ug/ml	99
66)	Pentachlorophenol	11.54	266	454045	18.111ug/ml	98
67)	Phenanthrene	11.93	178	4144178	21.448ug/ml	99
68)	Anthracene	12.02	178	4200572	21.137ug/ml	99
70)	Carbazole	12.32	167	3397471	21.076ug/mL	96
71)	Di-n-butylphthalate	13.02	149	4801405	21.386ug/ml	99
72)	Fluoranthene	14.03	202	4773355	21.545ug/ml	89
74)	Pyrene	14.37	202	5141054	22.324ug/ml	87
76)	Butylbenzylphthalate	15.29	149	2097023	21.234ug/ml	95
77)	3,3'-Dichlorobenzidine	15.97	252	1571008	20.722ug/ml	96
78)	Benzo(a)anthracene	16.00	228	4930152	21.183ug/ml	96
79)	Chrysene	16.06	228	4462013	21.245ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	16.04	149	3387043	22.197ug/ml	99

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

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\28MAY15PM\DFN12S20.D Vial: 1
Acq On : 05/28/2015 23:03 Operator: DJC
Sample : SSTD020N1 28104 DFTPPN1 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 23:30:07 2015 Results File: DSOM01D5.RES

Method : C:\msdchem\1\methods\DSOM01D5.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 11:38:52 2015
Response via : Initial Calibration

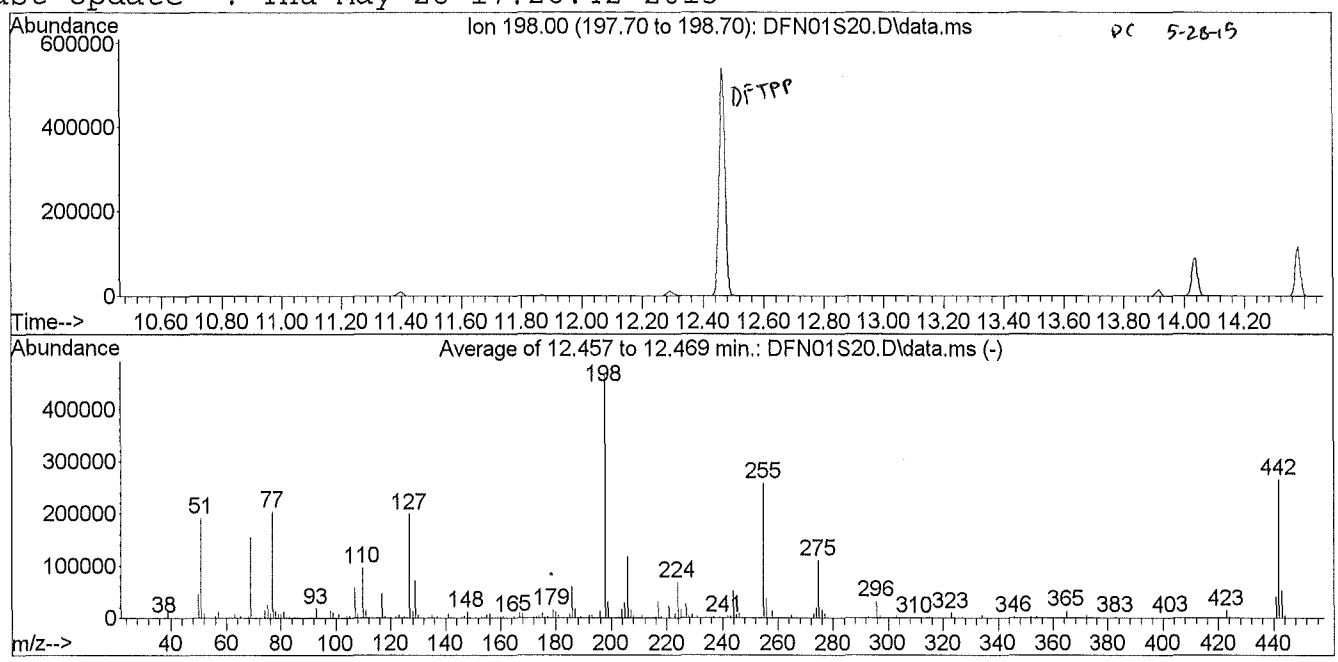
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	17.04	149	5229901	23.145ug/ml	99
83) Benzo(b)fluoranthene	17.79	252	4341803	21.246ug/ml	93
84) Benzo(k)fluoranthene	17.84	252	4418337	22.122ug/ml	93
85) Benzo(a)pyrene	18.47	252	4136793	20.866ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	21.55	276	3750242	19.792ug/ml	77
88) Dibenzo(a,h)anthracene	21.63	278	3871189	19.825ug/ml	90
89) Benzo(g,h,i)perylene	22.47	276	3766024	19.659ug/ml	86

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

Data Path : C:\msdchem\1\DATA\2015\MAY15\28MAY15PM\
Data File : DFN01S20.D
Acq On : 05/28/2015 16:59
Operator : DJC
Sample : SSTD020DN 28104 DFTPPDN
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 17:26:42 2015



Average of 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	40.8	191258	PASS
68	69	0.00	2	1.4	2146	PASS
69	198	0.00	100	33.3	155925	PASS
70	69	0.00	2	0.9	1370	PASS
127	198	10	80	42.5	199201	PASS
197	198	0.00	2	0.5	2204	PASS
198	198	100	100	100.0	468459	PASS
199	198	5	9	6.7	31360	PASS
275	198	10	60	23.5	110056	PASS
365	198	1	100	2.6	12410	PASS
441	443	0.01	100	77.2	39941	PASS
442	198	50	100	56.4	264405	PASS
443	442	15	24	19.6	51707	PASS

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	37	48.90	1318	60.90	1857	72.00	112
36.95	613	50.00	45923	61.90	1788	72.90	937
37.95	2017	51.00	191258	62.95	6078	73.95	15423
39.00	12983	52.00	9393	63.90	722	75.00	24489
39.90	513	52.95	423	65.00	3505	76.00	9506
41.00	205	55.00	569	65.95	118	76.95	203314
41.95	53	55.95	4372	67.05	259	77.95	13538
43.00	605	56.95	12253	67.90	2146	78.95	9272
44.90	416	57.95	666	68.90	155925	79.95	7638
47.00	56	58.85	302	69.95	1370	80.95	12574
47.95	113	59.85	120	70.95	338	81.95	3201

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.90	2915	94.95	298	105.95	1345	116.90	47449
84.90	2370	95.95	1010	106.90	57732	117.90	3369
85.90	2936	97.00	466	107.95	9260	118.90	316
86.90	1170	97.95	12942	108.95	1499	119.95	815
87.90	510	98.90	10986	109.90	96711	120.90	52
89.85	135	99.95	1042	110.90	14441	121.10	124
90.10	57	100.85	7476	111.90	1693	121.90	2957
90.95	2372	101.90	229	112.95	241	122.85	5000
91.95	2786	102.85	1774	113.95	28	123.90	2372
92.90	18415	103.90	3765	115.10	196	124.90	2471
93.90	1237	104.95	3851	115.95	2516	125.95	863

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.90	199201	137.95	379	151.00	1157	161.90	1506
127.95	14419	140.90	8068	151.80	417	162.95	313
128.90	71504	141.90	2880	152.95	2979	163.90	324
129.90	6185	142.95	2210	153.95	2439	164.90	3095
130.90	1100	143.95	717	154.90	5828	166.00	129
131.85	744	144.80	549	155.95	8400	167.00	9408
132.85	207	145.95	1487	157.00	1701	167.95	9513
133.90	1853	146.90	4149	157.85	1798	168.90	1808
134.90	5680	147.90	11872	158.90	1336	169.85	805
135.95	2292	148.95	2288	159.95	2959	170.90	796
136.90	2923	149.90	651	160.90	4168	171.95	1722

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.95	2534	183.90	1338	194.90	700	206.00	116632
173.95	4598	184.95	7425	195.90	12825	206.95	15414
174.95	8621	185.95	60331	196.90	2204	207.90	3516
175.95	2471	186.90	17049	197.90	468459	208.90	1235
176.95	3260	187.95	1747	198.90	31360	210.15	1272
177.90	1094	188.90	3190	199.90	2429	210.95	4618
178.90	14936	189.90	565	201.20	526	211.80	301
179.95	11372	190.90	1425	201.40	1665	212.90	367
180.90	5375	191.90	4998	202.90	2849	213.80	72
181.95	871	192.90	5431	203.85	16452	214.05	144
182.95	622	193.90	1479	204.90	28056	214.85	1155

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	2655	227.90	3780	237.90	305	248.90	1969
216.90	31355	228.90	6069	238.90	973	249.85	463
217.90	4175	229.80	660	239.85	744	250.85	537
218.95	461	230.00	375	240.90	1512	251.90	467
219.70	116	230.90	2510	241.95	3514	252.95	1192
220.90	22424	231.80	460	242.90	3924	254.00	2268
222.90	7203	232.95	440	243.95	52501	254.90	257451
224.00	67877	233.90	1676	244.95	6909	255.90	37843
224.95	16855	234.95	2042	245.90	9415	256.90	3015
225.95	1865	235.90	1468	246.90	1881	257.90	14009
226.90	25368	236.90	2212	247.85	579	258.95	2141

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
259.85	425	272.00	799	283.90	717	294.85	629
260.90	500	272.90	8365	284.95	1492	295.90	31256
262.90	76	273.90	20249	285.95	293	296.95	4382
263.10	77	274.90	110056	287.90	120	297.95	323
263.75	360	275.95	14598	288.85	353	300.85	478
264.90	5638	276.90	8539	289.90	331	301.90	590
265.80	541	277.90	1726	290.85	260	302.95	3624
266.85	246	278.90	385	291.85	477	303.90	921
267.70	86	281.10	112	292.90	2190	307.95	384
269.80	409	281.95	375	293.70	90	308.85	287
270.85	446	282.95	984	293.90	508	309.95	412

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
310.90	65	323.95	1709	338.95	115	358.85	266
311.90	63	324.95	177	339.90	87	364.90	12410
312.90	237	325.85	208	340.90	1047	365.90	1735
313.90	1474	326.90	1728	341.95	353	369.80	59
314.90	3109	327.90	998	345.90	2158	369.95	224
315.90	1742	329.00	189	346.85	365	370.95	695
316.70	82	331.90	712	350.90	67	371.95	4894
317.00	273	332.95	927	351.95	2598	373.00	1050
320.95	925	334.00	5709	352.95	1867	376.90	68
321.95	477	334.95	1512	354.00	2616	382.95	1305
322.95	9560	335.90	149	354.95	648	383.90	354

Average of 12.457 to 12.469 min.: DFN01S20.D\data.ms
SSTD020DN 28104 DFTPPDN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
384.90	50	420.95	2025	437.75	137		
389.90	552	422.00	1845	438.40	75		
391.00	417	423.00	13855	438.70	113		
391.95	291	424.00	2799	439.10	60		
400.80	181	425.00	342	439.35	161		
401.00	115	432.70	58	440.00	95		
401.95	1820	433.30	55	441.00	39941		
402.95	2239	435.50	54	442.00	264405		
403.95	814	435.70	65	443.00	51707		
405.00	61	436.85	113	444.00	4487		
414.80	66	437.40	51	444.95	283		

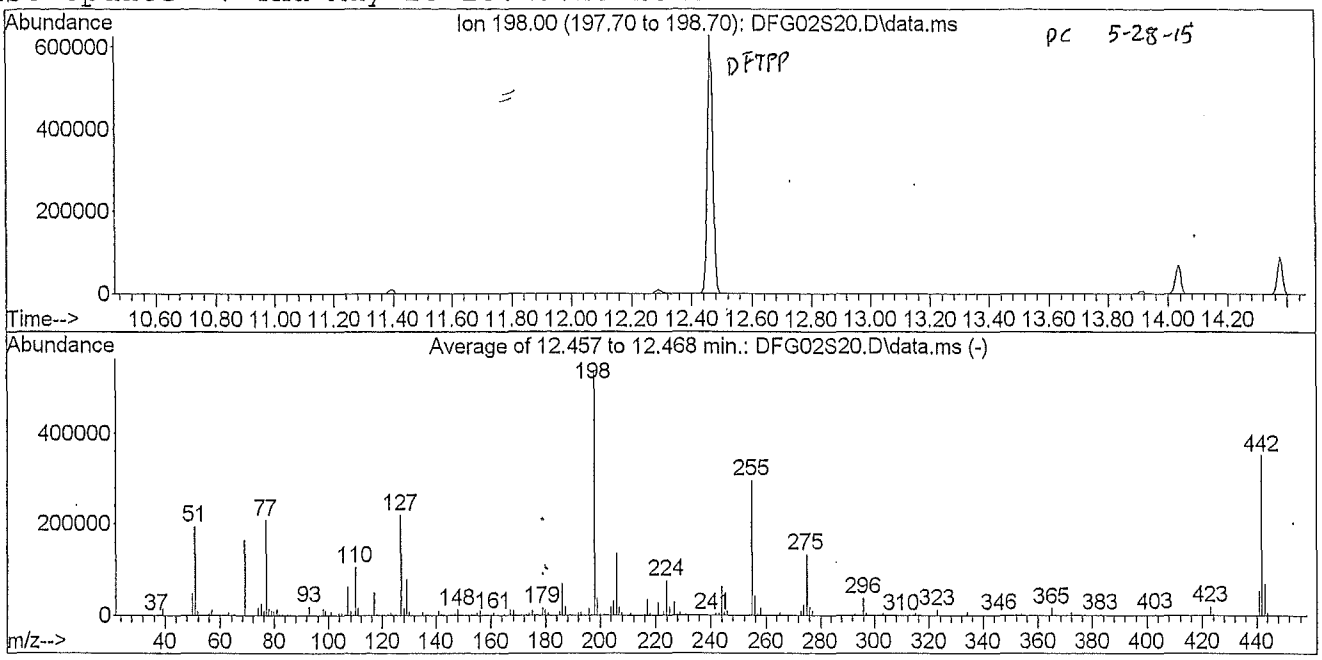
DFTPP

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		

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

EPA SAMPLE NO.: SBLK34

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 448734
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN02BLK
Level: (LOW/MED) LOW Extraction: (Type) CONT
% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10.	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	5.0	U

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

EPA SAMPLE NO.: SBLK34

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 448734
Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN02BLK
Level: (LOW/MED) LOW Extraction: (Type) CONT
% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015
Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/28/2015
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	10.	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	10.	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10.	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.: SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 448734

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFN02BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Amylene hydrate	2.16	3.8	J
02		Unknown Amylene hydrate	2.20	2.1	J
03		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.99	8.1	J
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	58.	J

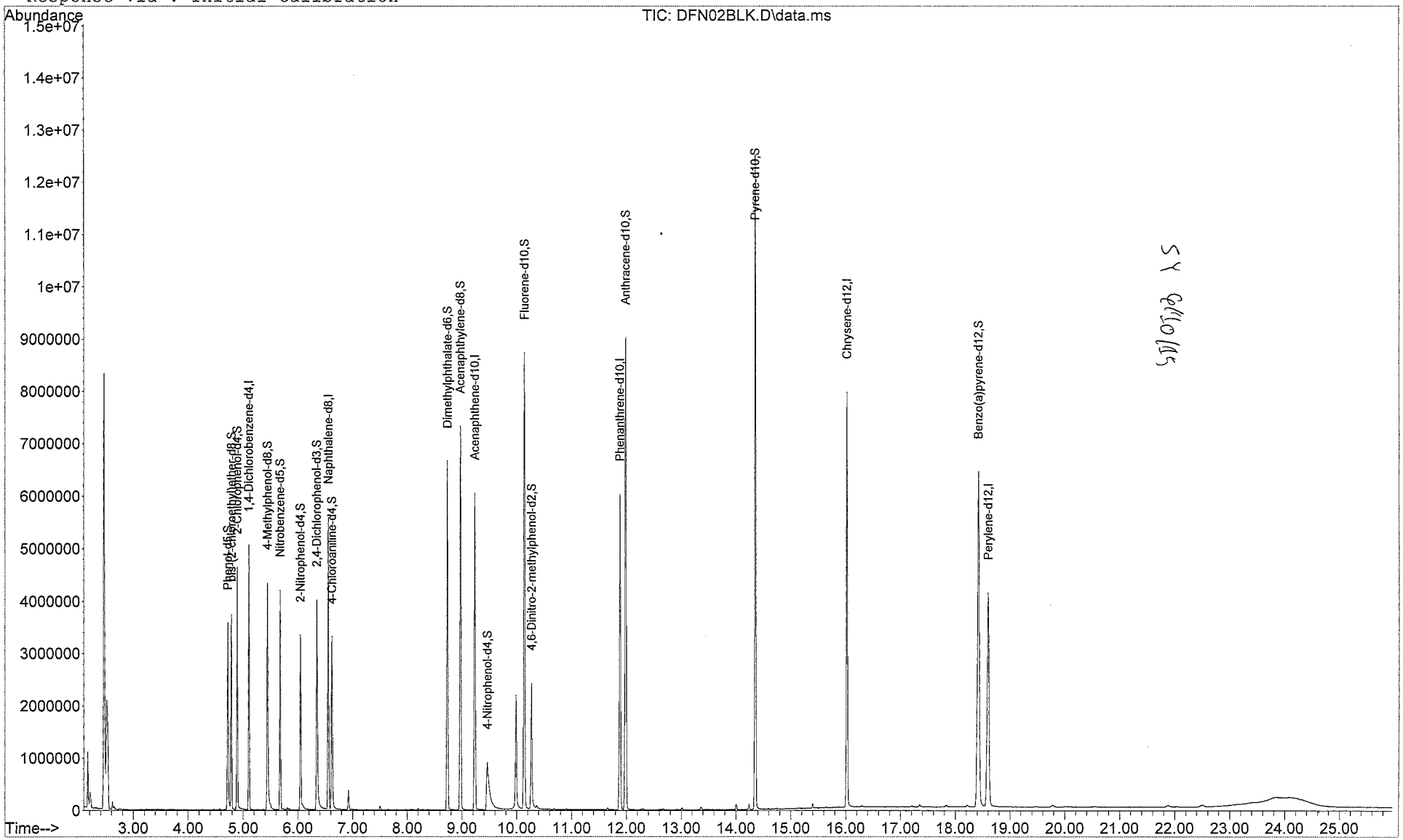
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 11:40:51 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...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:40:51 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	892294	20.00 ug/ml
16) Naphthalene-d8	6.56	136	3104074	20.00 ug/ml
33) Acenaphthene-d10	9.23	164	1988347	20.00 ug/ml
59) Phenanthrene-d10	11.88	188	3527166	20.00 ug/ml
73) Chrysene-d12	16.02	240	3935578	20.00 ug/ml
81) Perylene-d12	18.60	264	3629575	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.72	99	1409083	25.374ug/ml
6) bis-(2-chloroethyl)ether-d	4.79	67	1000919	24.632ug/mL
7) 2-Chlorophenol-d4	4.89	132	1364784	24.655ug/ml
13) 4-Methylphenol-d8	5.45	113	1233655	29.636ug/mL
17) Nitrobenzene-d5	5.67	128	677360	26.643ug/ml
21) 2-Nitrophenol-d4	6.05	143	837161	27.767ug/mL
25) 2,4-Dichlorophenol-d3	6.35	165	1270306	26.073ug/mL
28) 4-Chloroaniline-d4	6.62	131	1342633	36.680ug/mL
42) Dimethylphthalate-d6	8.73	166	4096744	33.418ug/mL
45) Acenaphthylene-d8	8.97	160	4952073	30.678ug/mL
50) 4-Nitrophenol-d4	9.46	143	595664	29.255ug/mL
57) Fluorene-d10	10.14	176	3507265	32.377ug/mL
61) 4,6-Dinitro-2-methylphenol	10.27	200	640557	28.758ug/mL
69) Anthracene-d10	11.99	188	6105458	33.787ug/mL
75) Pyrene-d10	14.35	212	6048743	36.496ug/mL
86) Benzo(a)pyrene-d12	18.42	264	5695710	34.290ug/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...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 11:40:51 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)

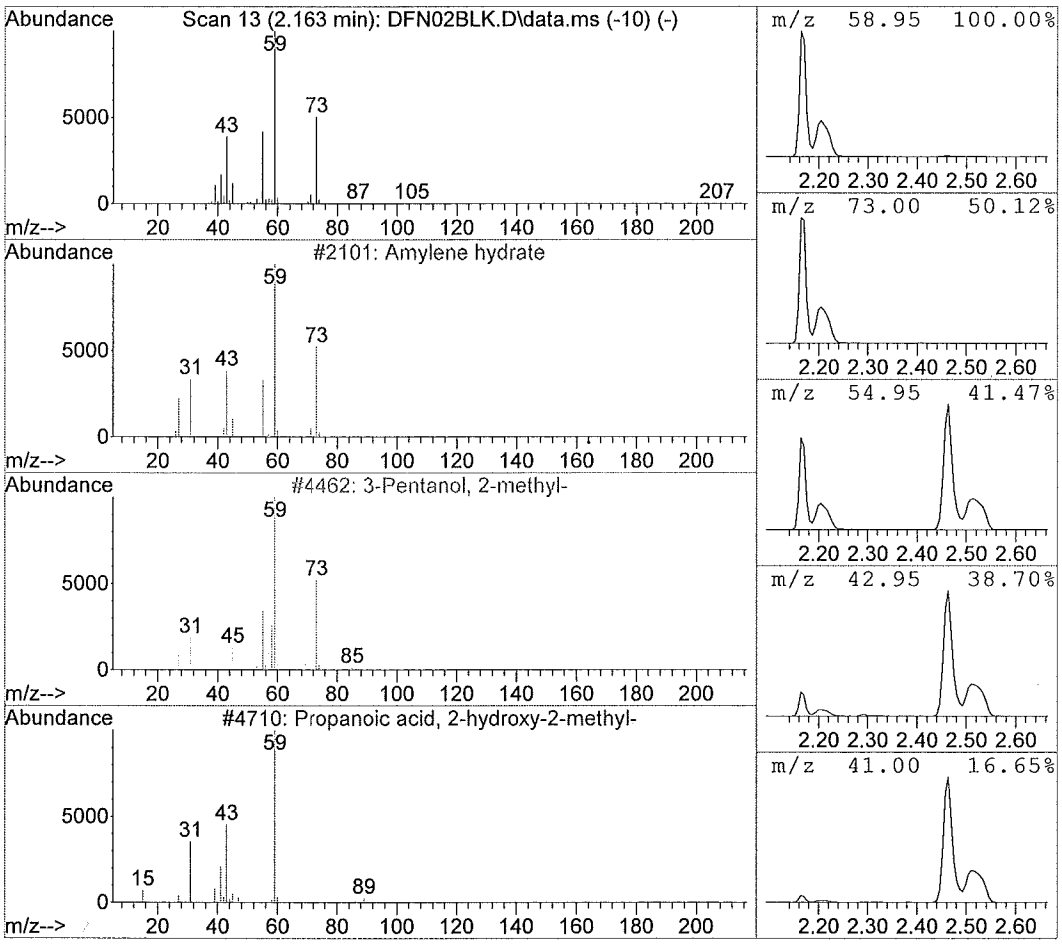
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER 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
2.16	3.82 ug/ml	1015689	1,4-Dichlorobenzene-d4	5317618

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	83.00
2	3-Pentanol, 2-methyl-	4462	000565-67-3	64.00
3	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	45.00
4	Acetamide, N-methyl-	740	000079-16-3	9.00
5	Silane, trimethyl-	799	000993-07-7	9.00



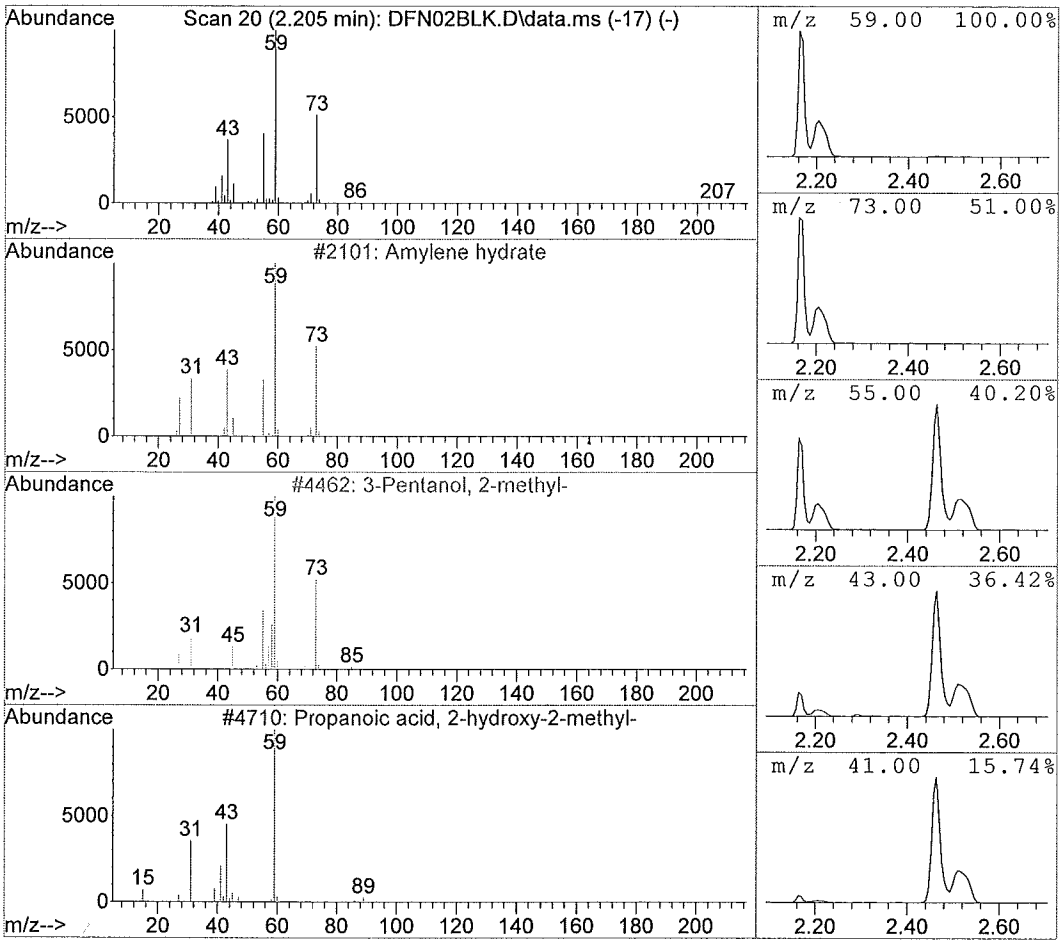
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER 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
2.20	2.07 ug/ml	551280	1,4-Dichlorobenzene-d4	5317618

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Amylene hydrate	2101	000075-85-4	83.00
2	3-Pentanol, 2-methyl-	4462	000565-67-3	56.00
3	Propanoic acid, 2-hydroxy-2-methyl-	4710	000594-61-6	42.00
4	Silane, trimethyl-	799	000993-07-7	9.00
5	Methane, isothiocyanato-	715	000556-61-6	9.00



Library Search Compound Report

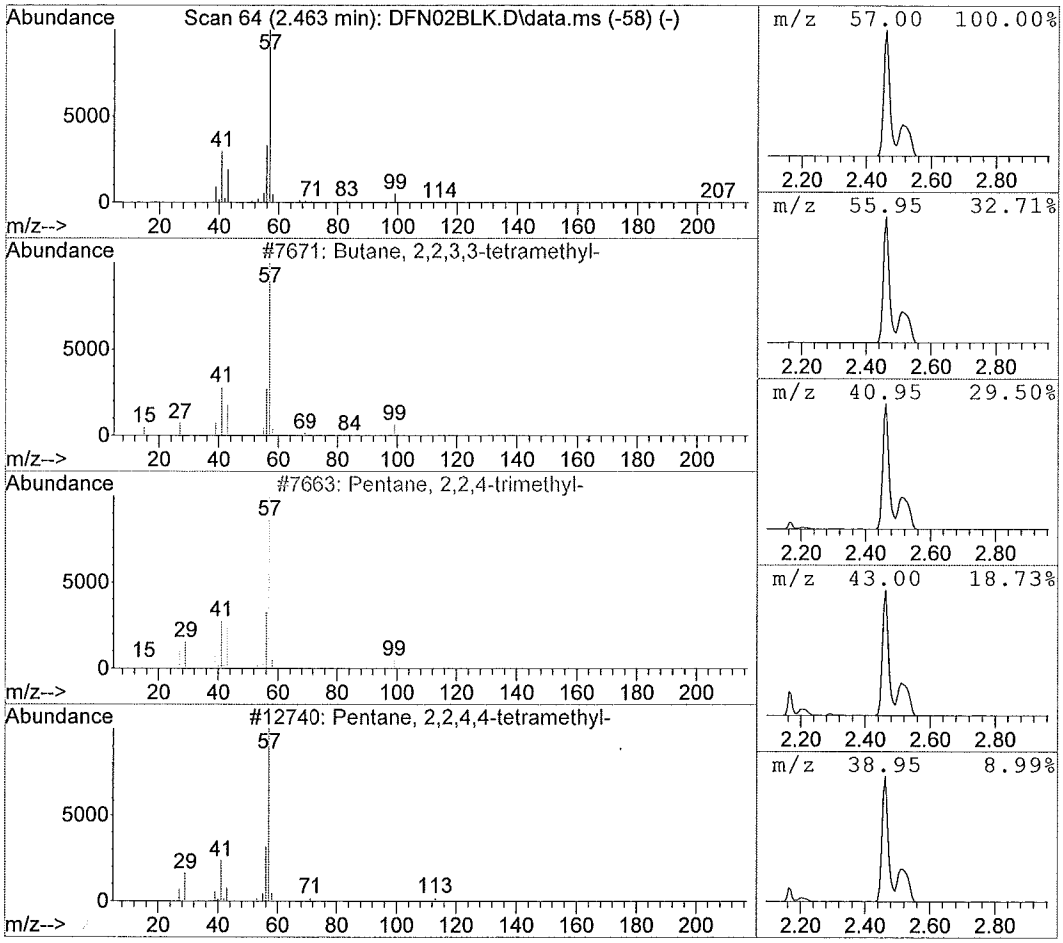
Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

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
2.46	40.54 ug/ml	10779335	1,4-Dichlorobenzene-d4	5317618

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	7671	000594-82-1	83.00
2	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
3	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
4	Hexane, 2,2-dimethyl-	7649	000590-73-8	78.00
5	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	64.00

BA



Library Search Compound Report

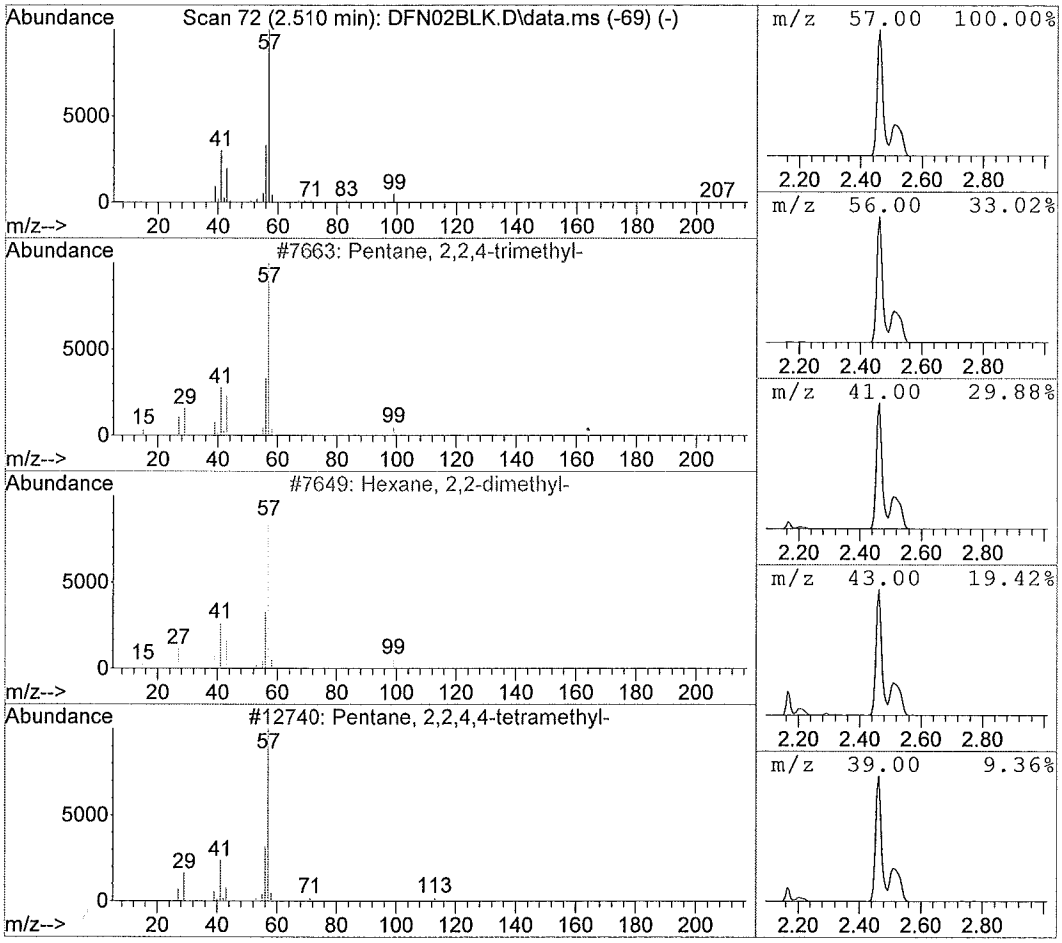
Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SOM Injection volume : 1uL
MS Integration Params: rteint.p

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
2.51	17.86 ug/ml	4748211	1,4-Dichlorobenzene-d4	5317618

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	7663	000540-84-1	83.00
2	Hexane, 2,2-dimethyl-	7649	000590-73-8	78.00
3	Pentane, 2,2,4,4-tetramethyl-	12740	001070-87-7	78.00
4	Butane, 2,2,3,3-tetramethyl-	7671	000594-82-1	74.00
5	Hexane, 2,2,4-trimethyl-	12720	016747-26-5	50.00

BA



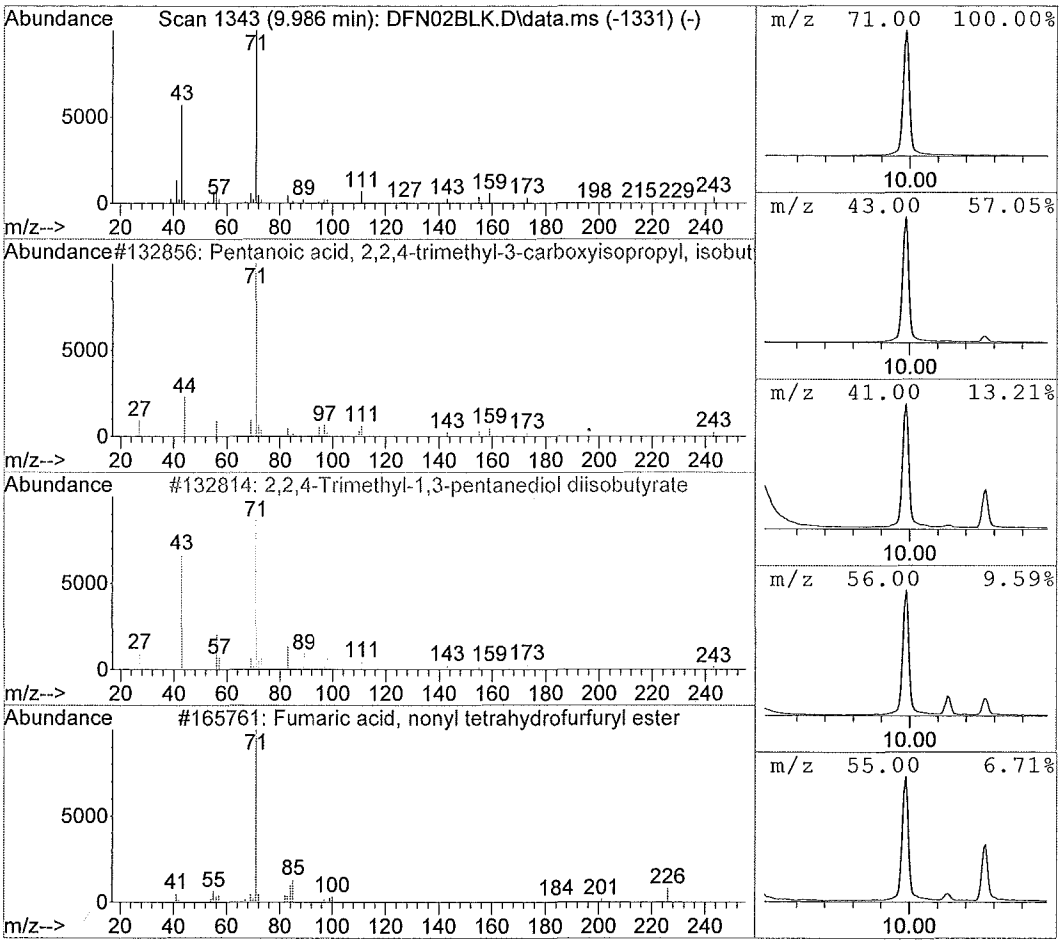
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\28MAY15PM\DFN02BLK.D Vial: 2
Acq On : 05/28/2015 17:35 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER 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	8.11 ug/ml	3269036	Acenaphthene-d10	8061326

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	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	53.00
4	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00
5	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	42.00



2L - FORM II SV-SIM1

WATER SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9L54	90	66	0
02	F9L55	86	65	0
03	F9L74	86	67	0
04	SBLK34	90	69	0
05				
06				
07				
08				
09				
10				
11				
12				
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15				
16				
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18				
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26				
27				
28				
29				
30				

	QC LIMITS
SDMC17 (FLN) = Fluoranthene-d10	(50-150)
SDMC18 (2MN) = 2-Methylnaphthalene-d10	(50-150)

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.: SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Lab File ID: DFP04BLK Lab Sample ID: 448734

Instrument ID: 5975-D Date Extracted: 05/27/2015

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/29/2015

Time Analyzed: 15:32 Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L54	1514277001	DFP06F01	05/29/2015
02	F9L55	1514277002	DFP07F02	05/29/2015
03	F9L74	1514306002	DFP08F02	05/29/2015
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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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.: F9L37

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.: SSTD0.4DP

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Lab File ID: DFP03SP4 DFTPP Injection Date: 05/29/2015

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

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	SSTD0.4DP	SSTD0.4DP	DFP03SP4	05/29/2015	14:38
02	SBLK34	448734	DFP04BLK	05/29/2015	15:32
03	F9L54	1514277001	DFP06F01	05/29/2015	16:32
04	F9L55	1514277002	DFP07F02	05/29/2015	17:02
05	F9L74	1514306002	DFP08F02	05/29/2015	17:31
06	SSTD0.4P1	SSTD0.4P1	DFP14SP4	05/29/2015	20:30
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DP Date Analyzed: 05/29/2015

Lab File ID (Standard): DFP03SP4 Time Analyzed: 14:38

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			358241	6.06	209670	8.73
	UPPER LIMIT			716482	6.56	419340	9.23
	LOWER LIMIT			179121	5.56	104835	8.23
	EPA SAMPLE NO.						
01	SBLK34			348346	6.07	230559	8.73
02	F9L54			366341	6.07	228257	8.73
03	F9L55			393897	6.07	243243	8.73
04	F9L74			439708	6.07	280845	8.73
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.: F9L37

EPA Sample No.(SSTD0.4##): SSTD0.4DP Date Analyzed: 05/29/2015

Lab File ID (Standard): DFP03SP4 Time Analyzed: 14:38

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	394867	11.36	399828	15.52	365409	18.02
	UPPER LIMIT	789734	11.86	799656	16.02	730818	18.52
	LOWER LIMIT	197434	10.86	199914	15.02	182705	17.52
	EPA SAMPLE NO.						
01	SBLK34	364753	11.36	397080	15.52	436771	18.02
02	F9L54	364668	11.36	376602	15.51	414033	18.01
03	F9L55	390906	11.36	404212	15.51	440668	18.01
04	F9L74	451649	11.36	466236	15.51	507542	18.01
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.

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L54

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFP06F01

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/22/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/29/2015

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

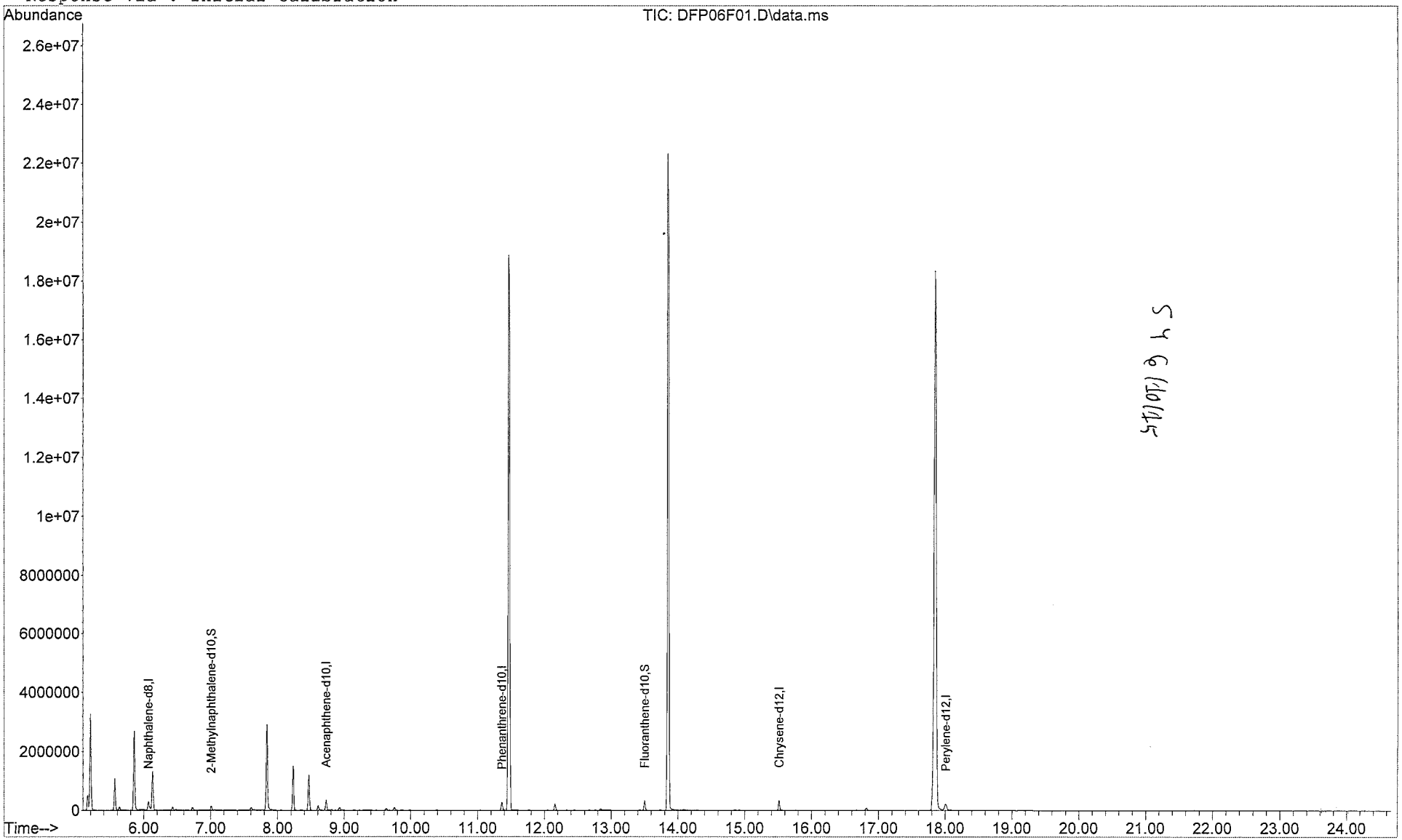
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.038	J
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.038	J
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.087	JB
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP06F01.D Vial: 4
Acq On : 05/29/2015 16:32 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 12:06:18 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

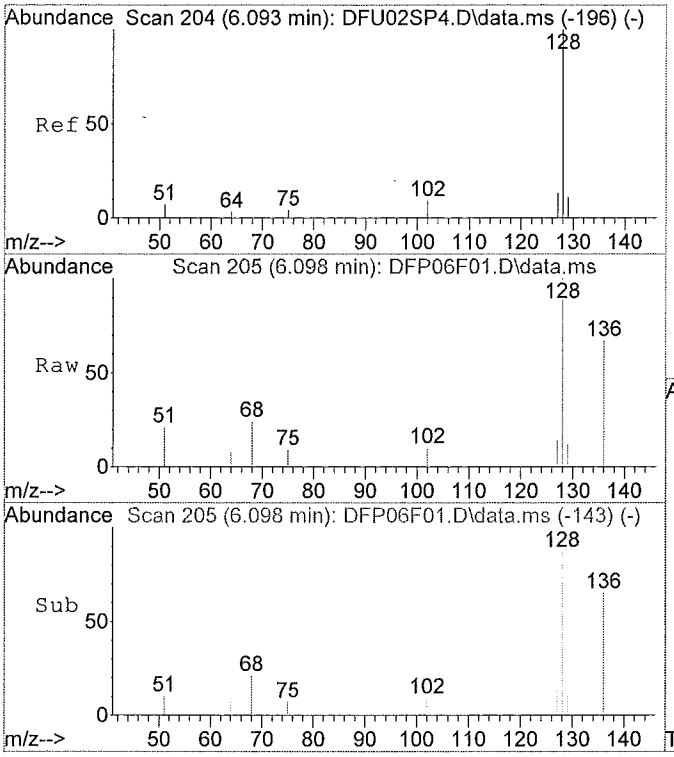
Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP06F01.D Vial: 4
Acq On : 05/29/2015 16:32 Operator: DJC
Sample : 1514277001 F9L54 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 12:06:18 2015 Results File: DSOM_SIMJ2.RES

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	366341	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	228257	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	364668	0.40 ug/ml
15) Chrysene-d12	15.51	240	376602	0.40 ug/ml
19) Perylene-d12	18.01	264	414033	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	155647	0.263ug/mL
13) Fluoranthene-d10	13.50	212	358157	0.359ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.10	128	36667	0.038ug/ml	96
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.81	153	24120	0.038ug/ml	28
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	17.85	252	107859	0.087ug/ml	72
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	

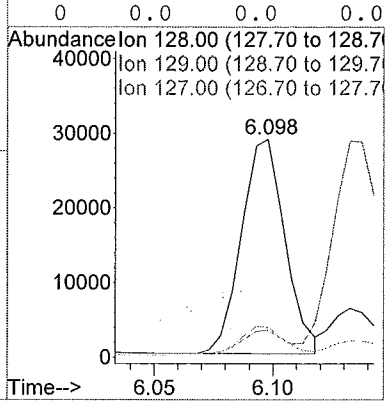
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

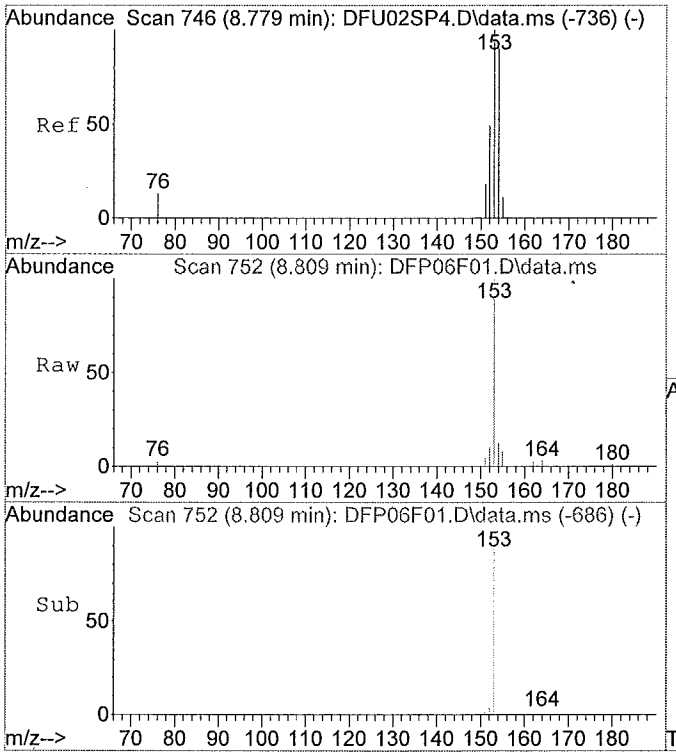


#2
Naphthalene
Concen: 0.04 ug/ml
RT: 6.10 min Scan# 205
Delta R.T. 0.01 min
Lab File: DFP06F01.D
Acq: 05/29/2015 16:32

Tgt Ion:128 Resp: 36667

Ion	Ratio	Lower	Upper
128	100		
129	10.4	0.0	0.0#
127	14.0	11.1	20.5
0	0.0	0.0	0.0

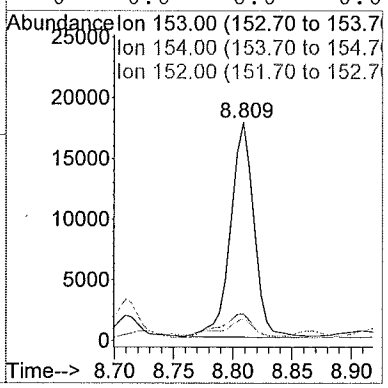


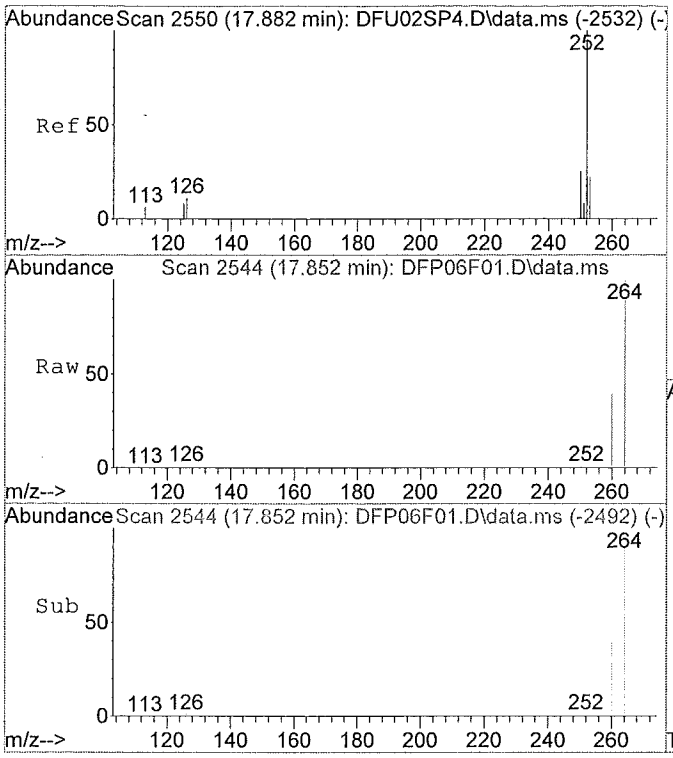


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.81 min Scan# 752
Delta R.T. 0.02 min
Lab File: DFP06F01.D
Acq: 05/29/2015 16:32

Tgt Ion:153 Resp: 24120

Ion	Ratio	Lower	Upper
153	100		
154	16.2	65.1	120.9#
152	9.9	35.2	65.4#
0	0.0	0.0	0.0

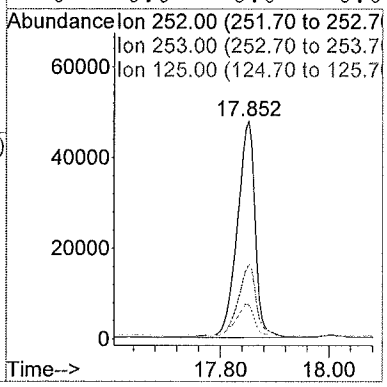




#22
Benzo(a)pyrene
Concen: 0.09 ug/ml
RT: 17.85 min Scan# 2544
Delta R.T. -0.04 min
Lab File: DFP06F01.D
Acq: 05/29/2015 16:32

Tgt Ion:252 Resp: 107859

Ion	Ratio	Lower	Upper
252	100		
253	34.7	15.0	27.8#
125	14.6	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.

F9L55

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514277002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFP07F02

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 05/22/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/29/2015

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

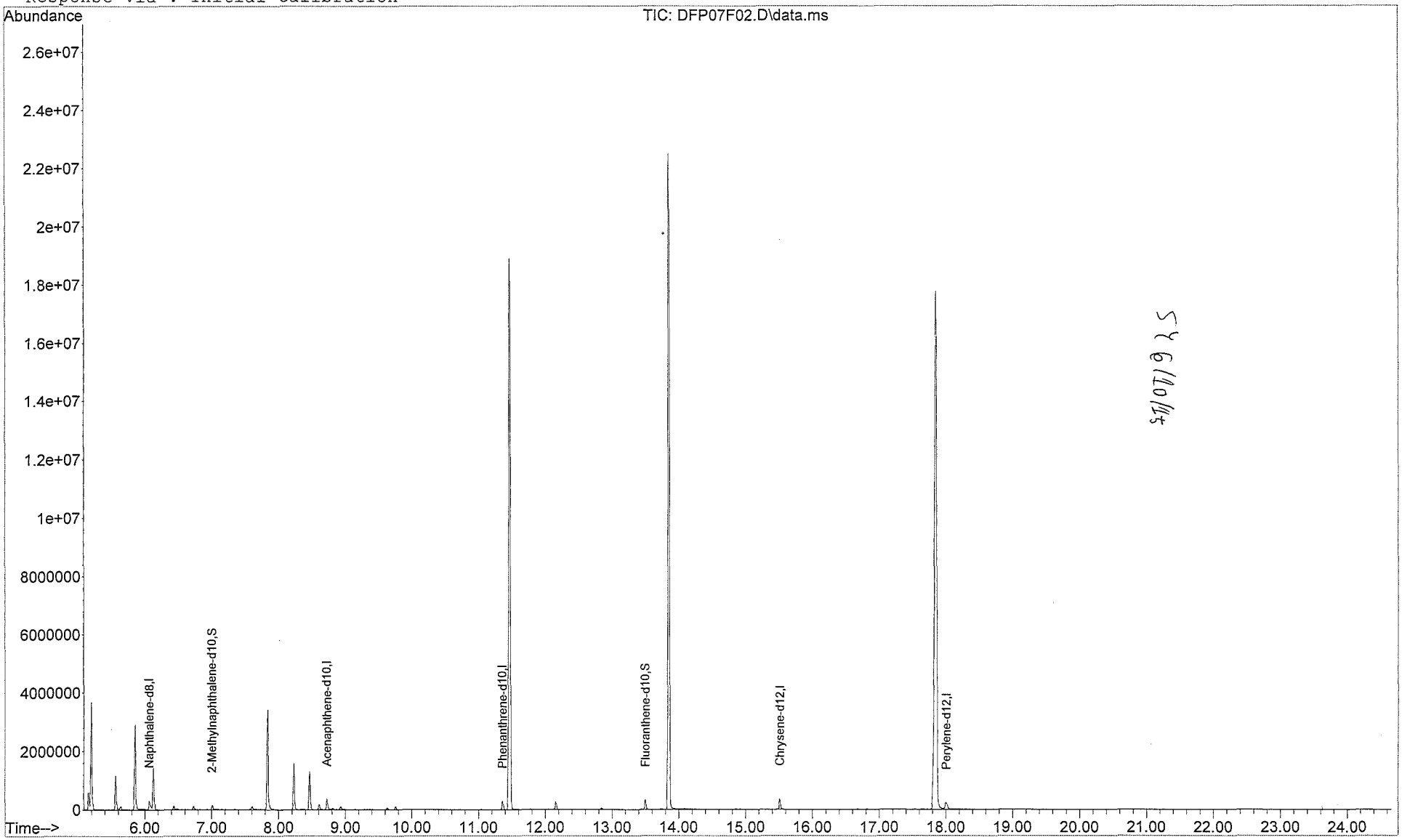
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.052	J
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.088	J
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.082	JB
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP07F02.D Vial: 5
Acq On : 05/29/2015 17:02 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 12:08:28 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



5 6/10/15

Quantitation Report

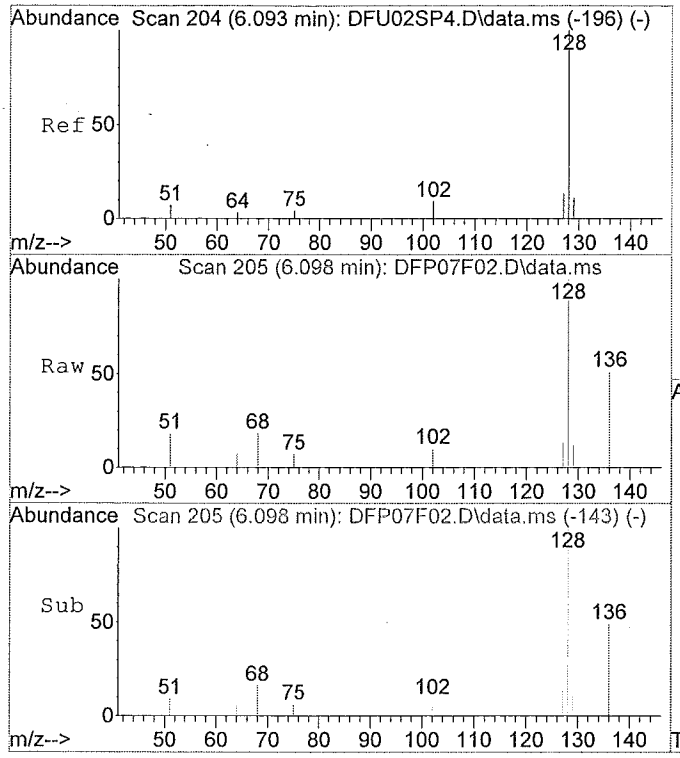
Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP07F02.D Vial: 5
Acq On : 05/29/2015 17:02 Operator: DJC
Sample : 1514277002 F9L55 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 12:08:28 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	393897	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	243243	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	390906	0.40 ug/ml
15) Chrysene-d12	15.51	240	404212	0.40 ug/ml
19) Perylene-d12	18.01	264	440668	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	165876	0.261ug/mL
13) Fluoranthene-d10	13.50	212	366773	0.343ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.10	128	53303	0.052ug/ml	94
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.81	153	59764	0.088ug/ml	23
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	17.85	252	107262	0.082ug/ml	72
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	

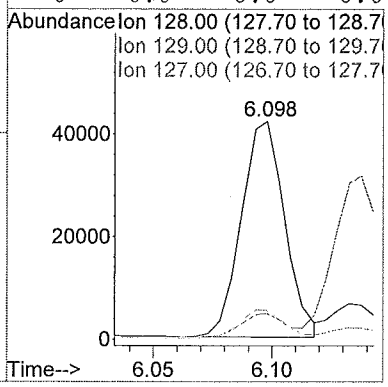
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

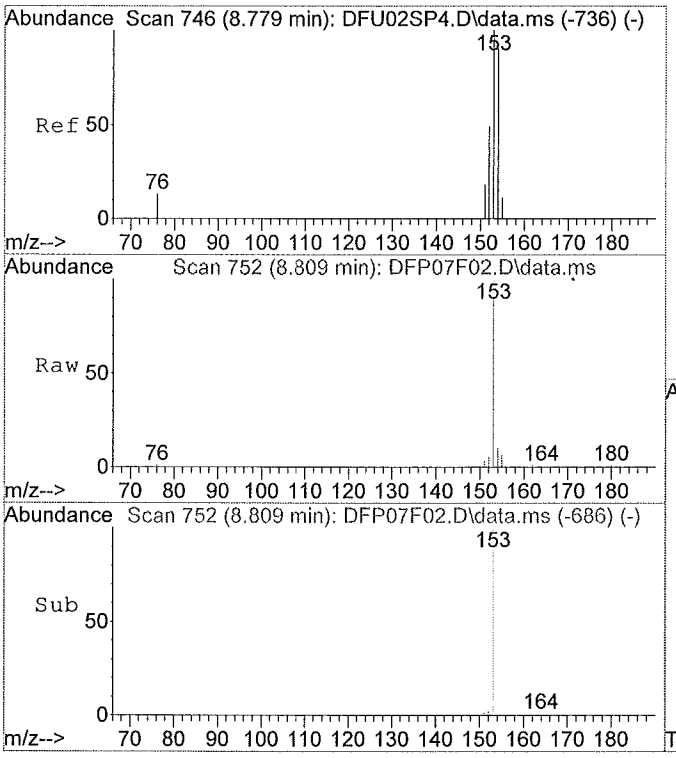


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 6.10 min Scan# 205
Delta R.T. 0.01 min
Lab File: DFP07F02.D
Acq: 05/29/2015 17:02

Tgt Ion:128 Resp: 53303

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	0.0#
127	13.5	11.1	20.5
0	0.0	0.0	0.0

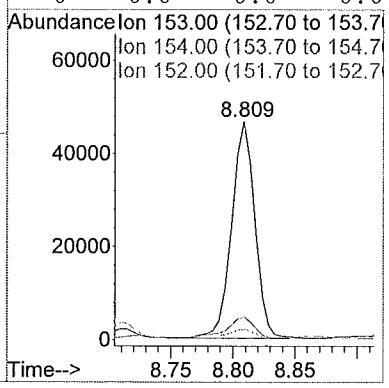


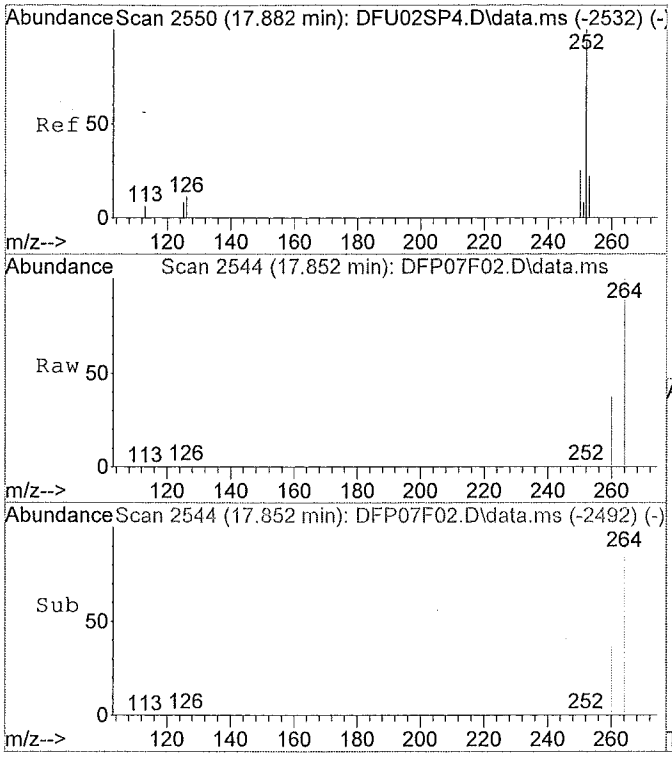


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.81 min Scan# 752
Delta R.T. 0.02 min
Lab File: DFP07F02.D
Acq: 05/29/2015 17:02

Tgt Ion:153 Resp: 59764

Ion	Ratio	Lower	Upper
153	100		
154	12.4	65.1	120.9#
152	5.2	35.2	65.4#
0	0.0	0.0	0.0

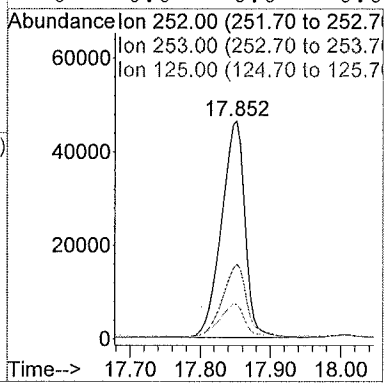




#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.85 min Scan# 2544
Delta R.T. -0.04 min
Lab File: DFP07F02.D
Acq: 05/29/2015 17:02

Tgt Ion:252 Resp: 107262

Ion	Ratio	Lower	Upper
252	100		
253	34.8	15.0	27.8#
125	15.1	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.

F9L74

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1514306002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFP08F02

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 05/22/2015

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

Injection Volume: 1.0 (uL) GPC Factor: Date Analyzed: 05/29/2015

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

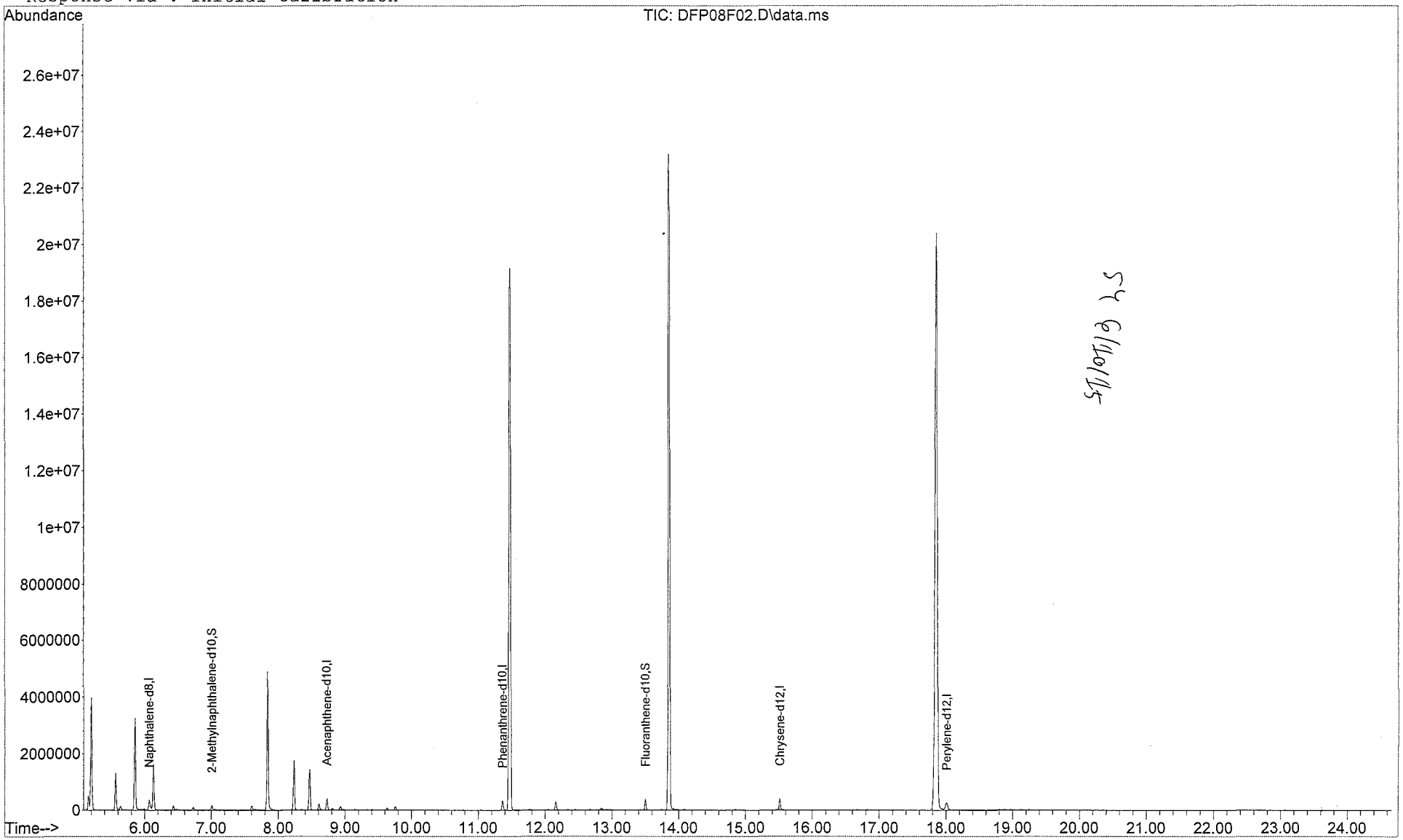
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.045	J
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.090	J
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.083	JB
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP08F02.D Vial: 6
Acq On : 05/29/2015 17:31 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 12:08:42 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

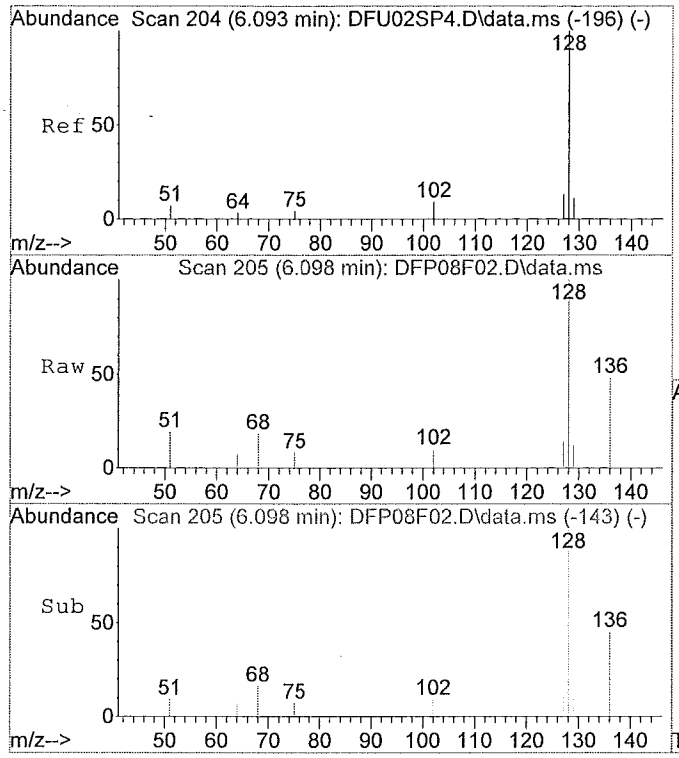
Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP08F02.D Vial: 6
Acq On : 05/29/2015 17:31 Operator: DJC
Sample : 1514306002 F9L74 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 12:08:42 2015 Results File: DSOM_SIMJ2.RES

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	439708	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	280845	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	451649	0.40 ug/ml
15) Chrysene-d12	15.51	240	466236	0.40 ug/ml
19) Perylene-d12	18.01	264	507542	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	191199	0.269ug/mL
13) Fluoranthene-d10	13.50	212	426306	0.345ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.10	128	51461	0.045ug/ml	95
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.81	153	70395	0.090ug/ml	21
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	17.86	252	125984	0.083ug/ml	72
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	

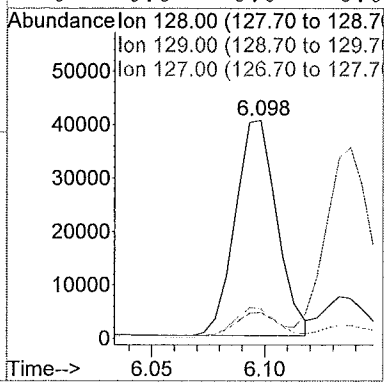
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

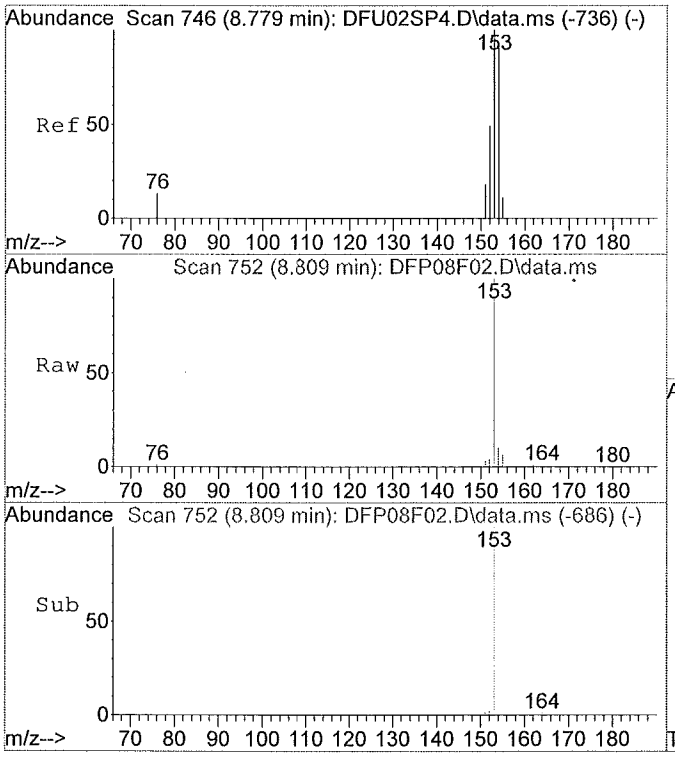


#2
Naphthalene
Concen: 0.04 ug/ml
RT: 6.10 min Scan# 205
Delta R.T. 0.01 min
Lab File: DFP08F02.D
Acq: 05/29/2015 17:31

Tgt Ion:128 Resp: 51461

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	0.0#
127	13.8	11.1	20.5
0	0.0	0.0	0.0

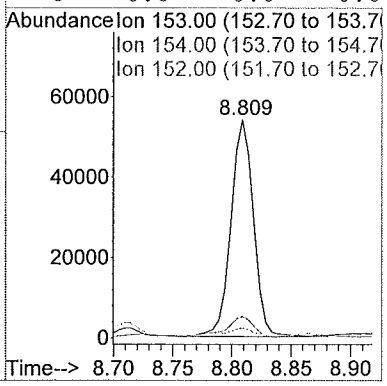


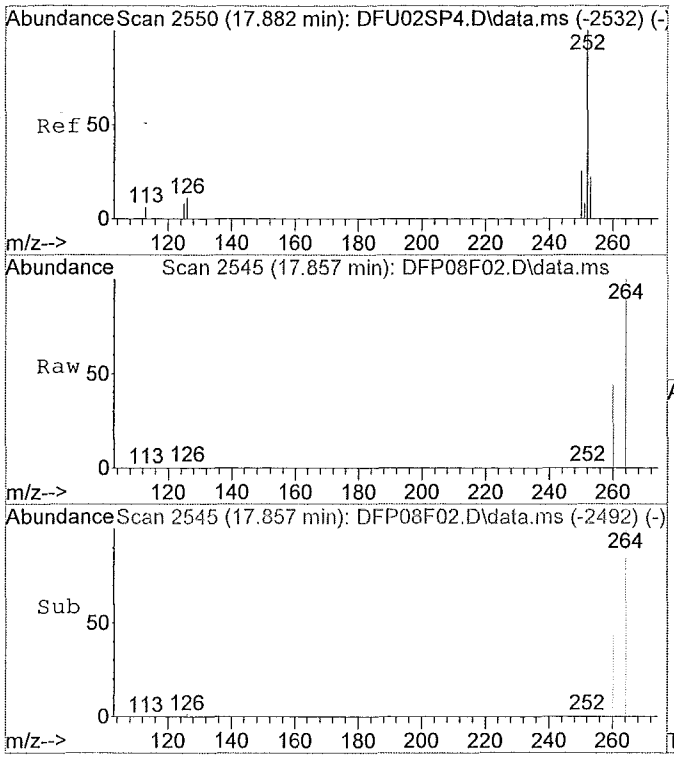


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.81 min Scan# 752
Delta R.T. 0.03 min
Lab File: DFP08F02.D
Acq: 05/29/2015 17:31

Tgt Ion:153 Resp: 70395

Ion	Ratio	Lower	Upper
153	100		
154	10.9	65.1	120.9#
152	4.7	35.2	65.4#
0	0.0	0.0	0.0

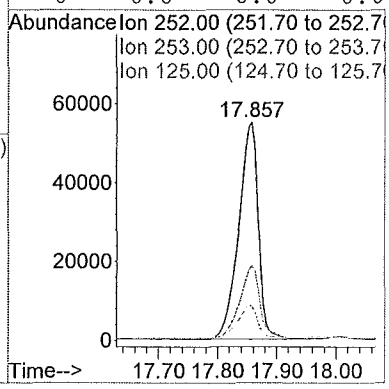




#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.86 min Scan# 2545
Delta R.T. -0.03 min
Lab File: DFP08F02.D
Acq: 05/29/2015 17:31

Tgt Ion:252 Resp: 125984

Ion	Ratio	Lower	Upper
252	100		
253	34.8	15.0	27.8#
125	14.8	0.0	0.0#
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.: F9L37

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

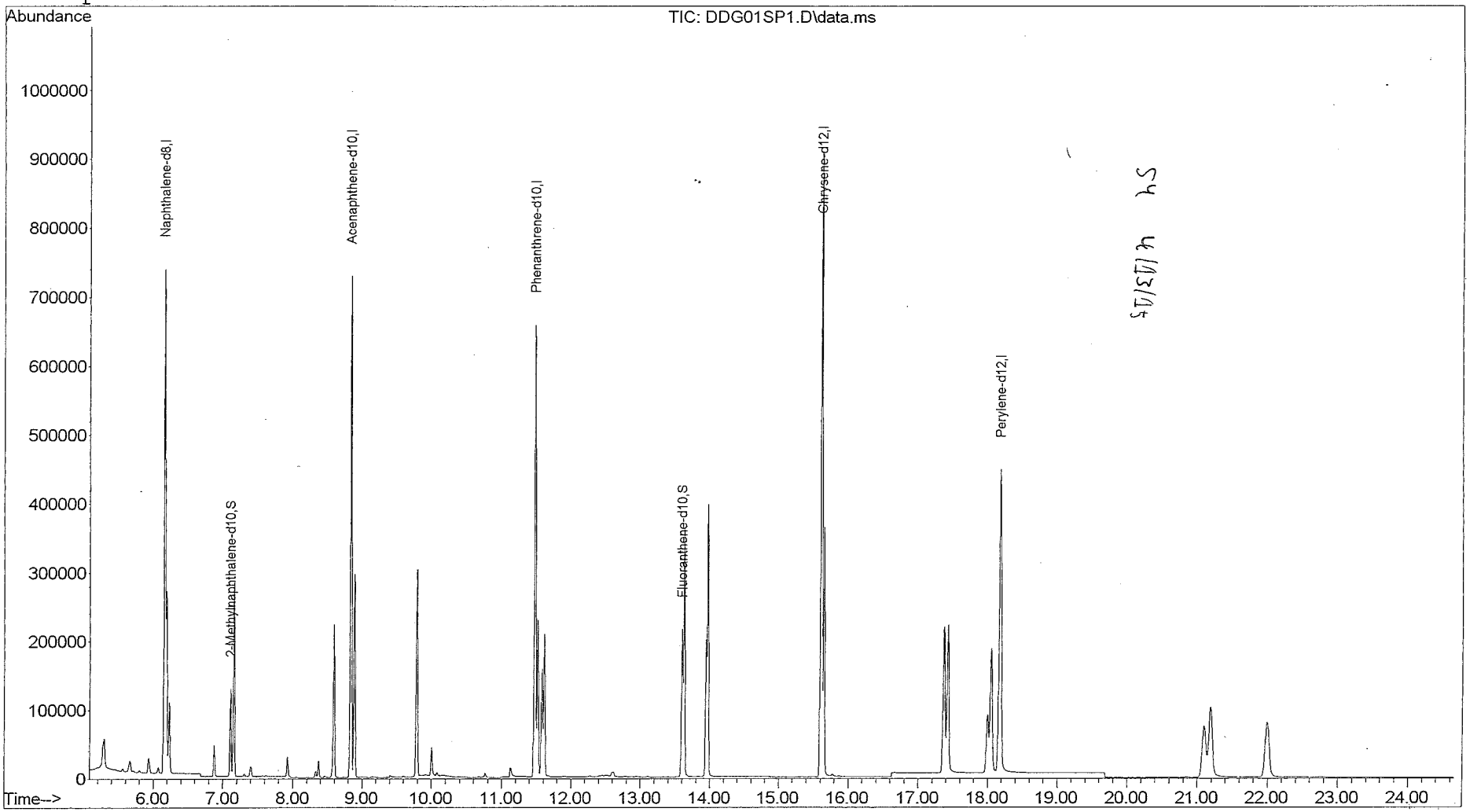
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	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 : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 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

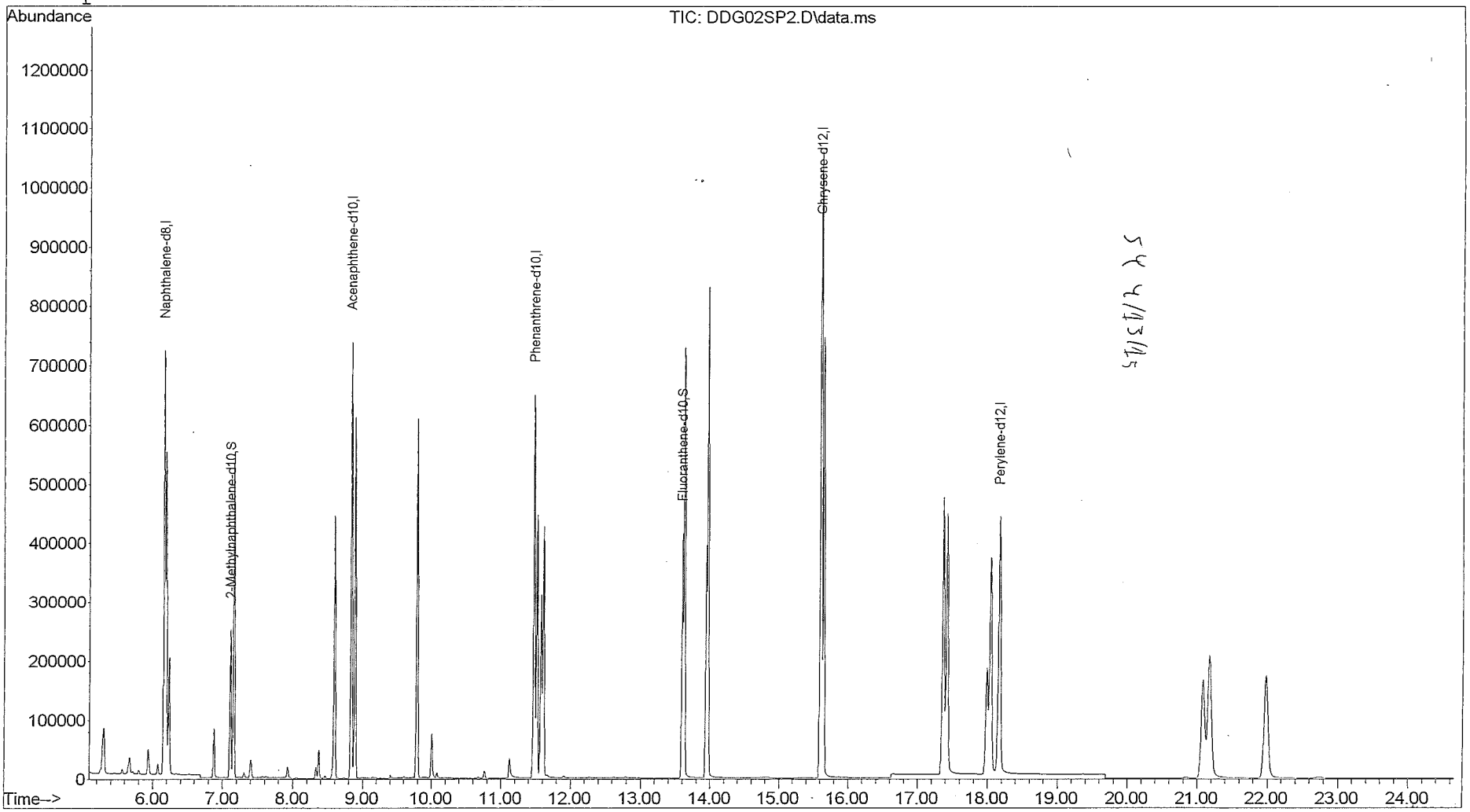
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 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

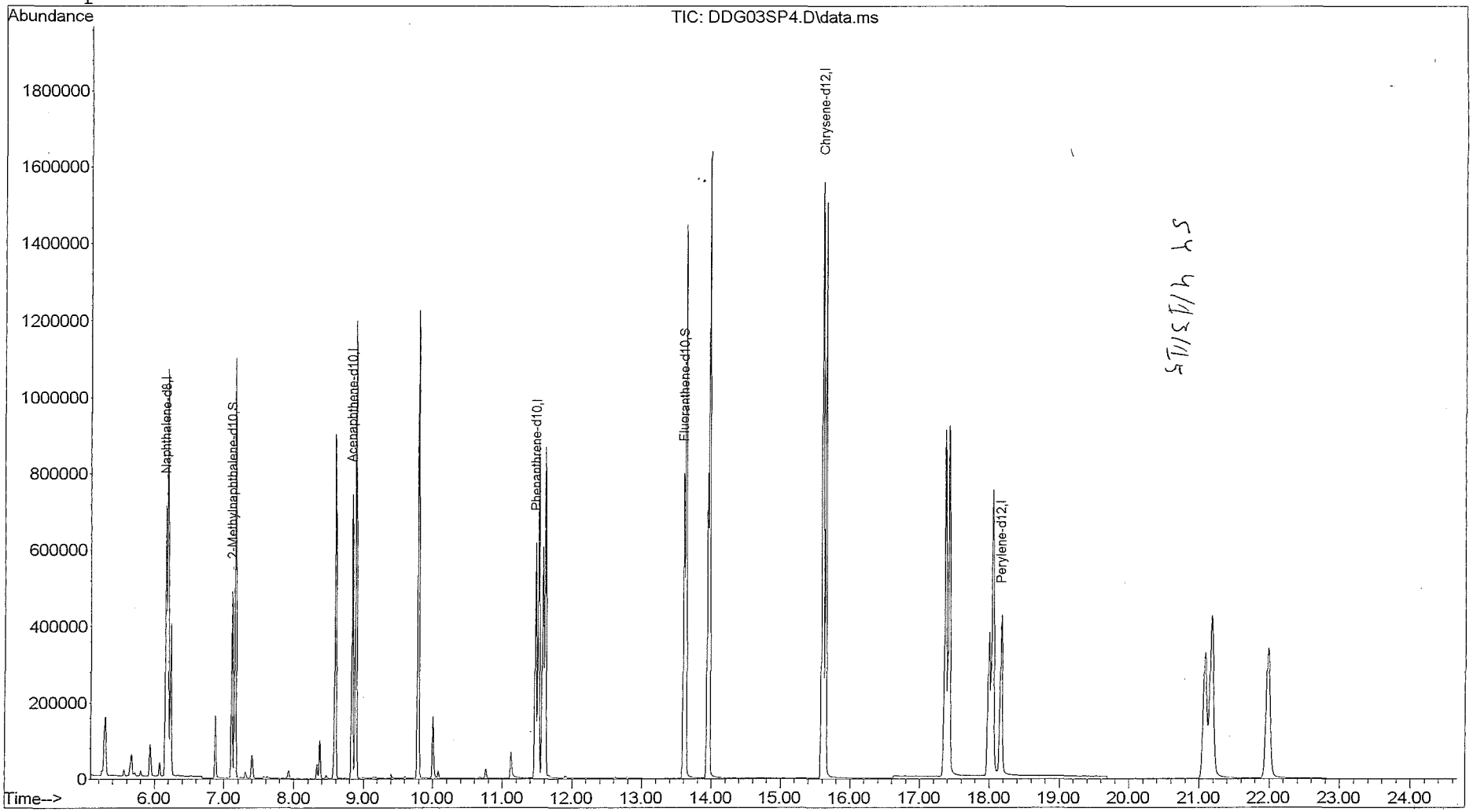
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 4/13/15

Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 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

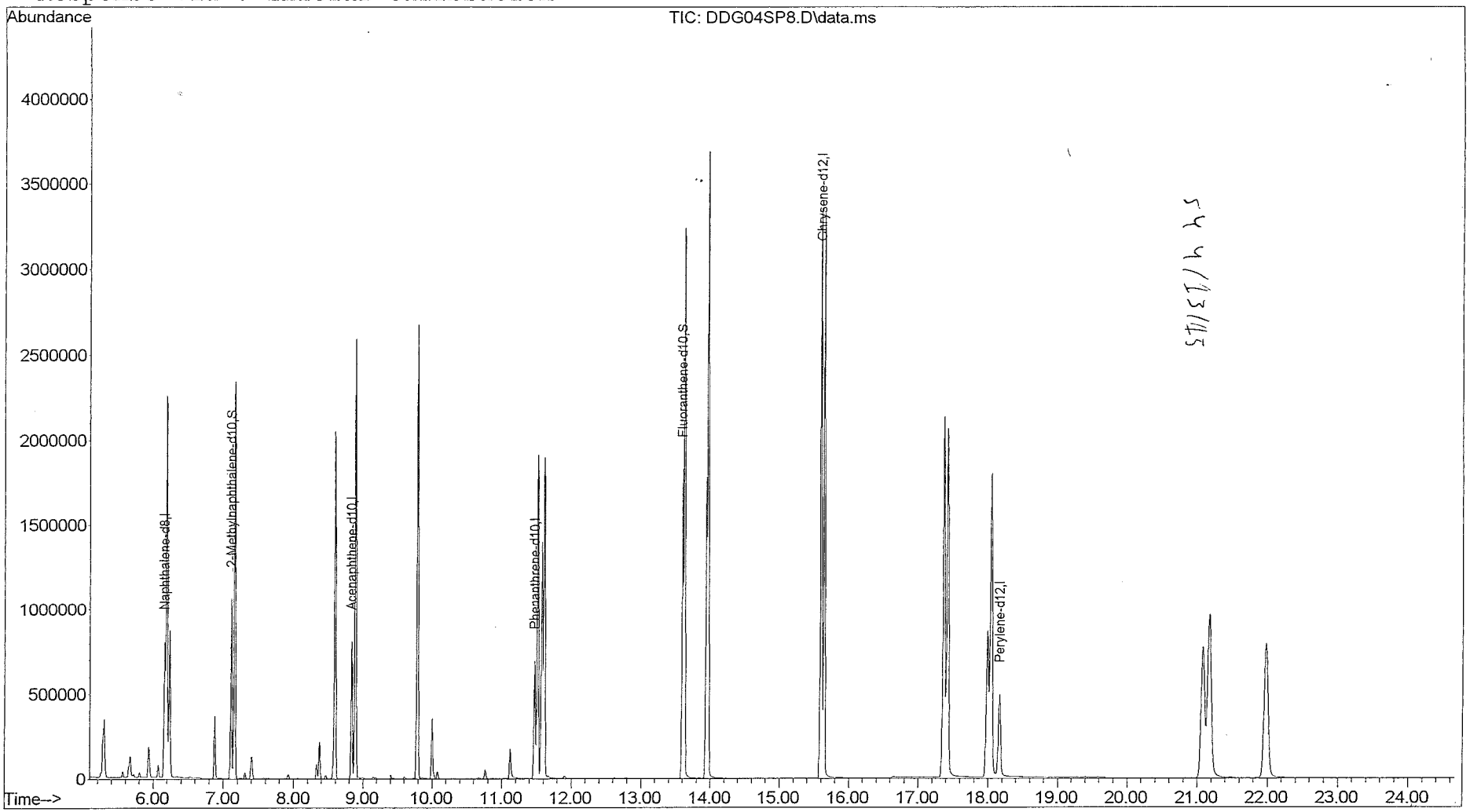
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\MAR15\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 : Wed Apr 08 13:45:23 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

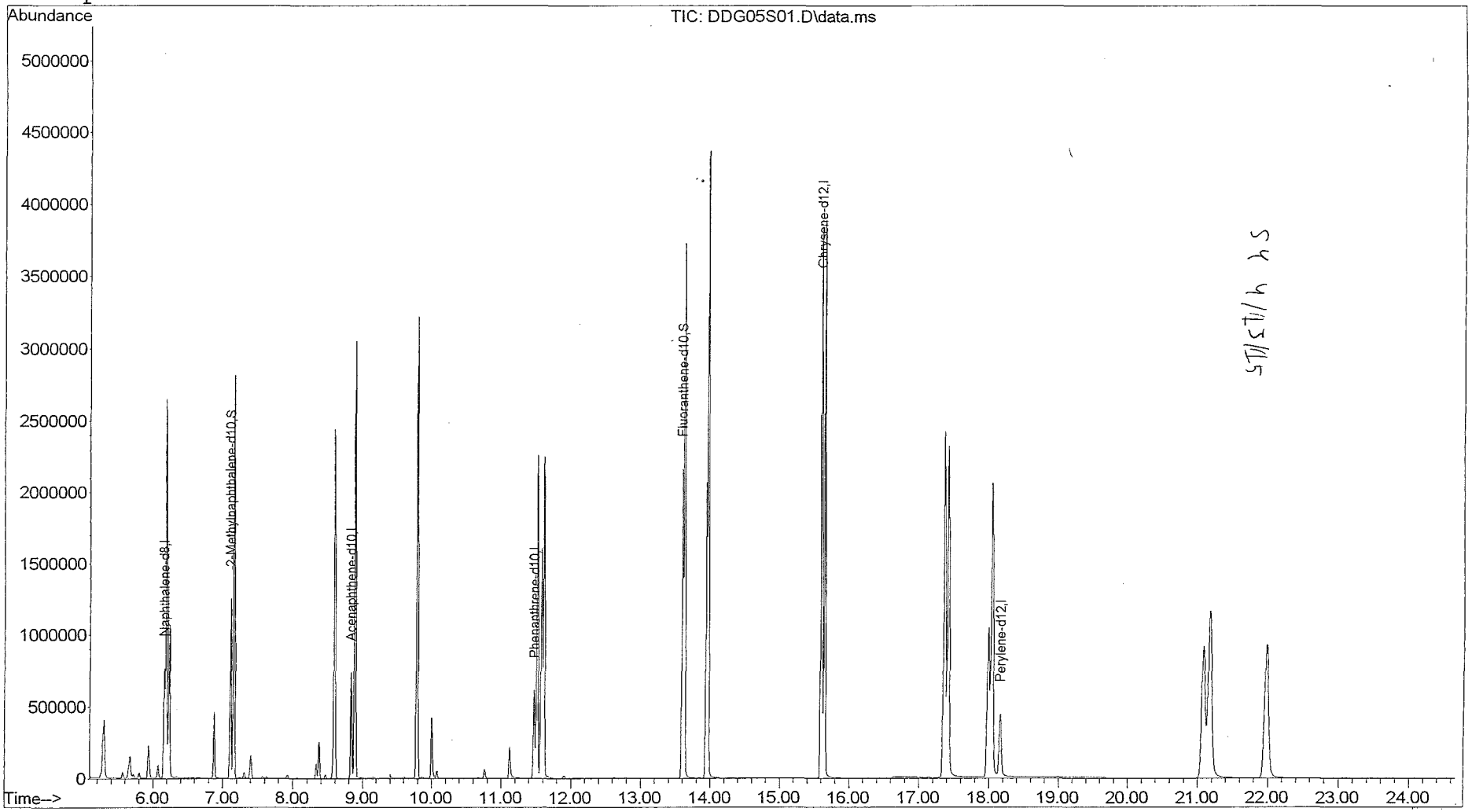
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\D\2015\MAR15\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: Apr 10 08:00:03 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\MAR15\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: Apr 10 08:00:03 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 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	809648	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	1.037ug/mL
Target Compounds				Qvalue
2) Naphthalene	6.19	128	2194653	0.992ug/ml 93
4) 2-Methylnaphthalene	7.16	142	1433660	1.006ug/ml 97
6) Acenaphthylene	8.59	152	2294412	1.049ug/ml 96
7) Acenaphthene	8.89	153	1429745	1.021ug/ml 98
8) Fluorene	9.79	166	1682594	1.036ug/ml 97
10) Pentachlorophenol	11.12	266	143501	1.126ug/ml 100
11) Phenanthrene	11.51	178	2514177	1.029ug/ml 97
12) Anthracene	11.61	178	2532691	1.066ug/ml 96
14) Fluoranthene	13.62	202	2908132	1.045ug/ml 91
16) Pyrene	13.97	202	3088951	1.017ug/ml 91
17) Benzo(a)anthracene	15.59	228	2644584	1.025ug/ml 99
18) Chrysene	15.64	228	2764927	1.014ug/ml 98
20) Benzo(b)fluoranthene	17.36	252	2644337	1.048ug/ml 100
21) Benzo(k)fluoranthene	17.41	252	2738771	1.048ug/ml 99
22) Benzo(a)pyrene	18.04	252	2582631	1.071ug/ml 99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	2264899	1.073ug/ml 100
24) Dibenzo(a,h)anthracene	21.17	278	2511813	1.076ug/ml 98
25) Benzo(g,h,i)perylene	21.98	276	2501128	1.054ug/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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/29/2015 Time: 14:38

Lab File ID: DFP03SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DP Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

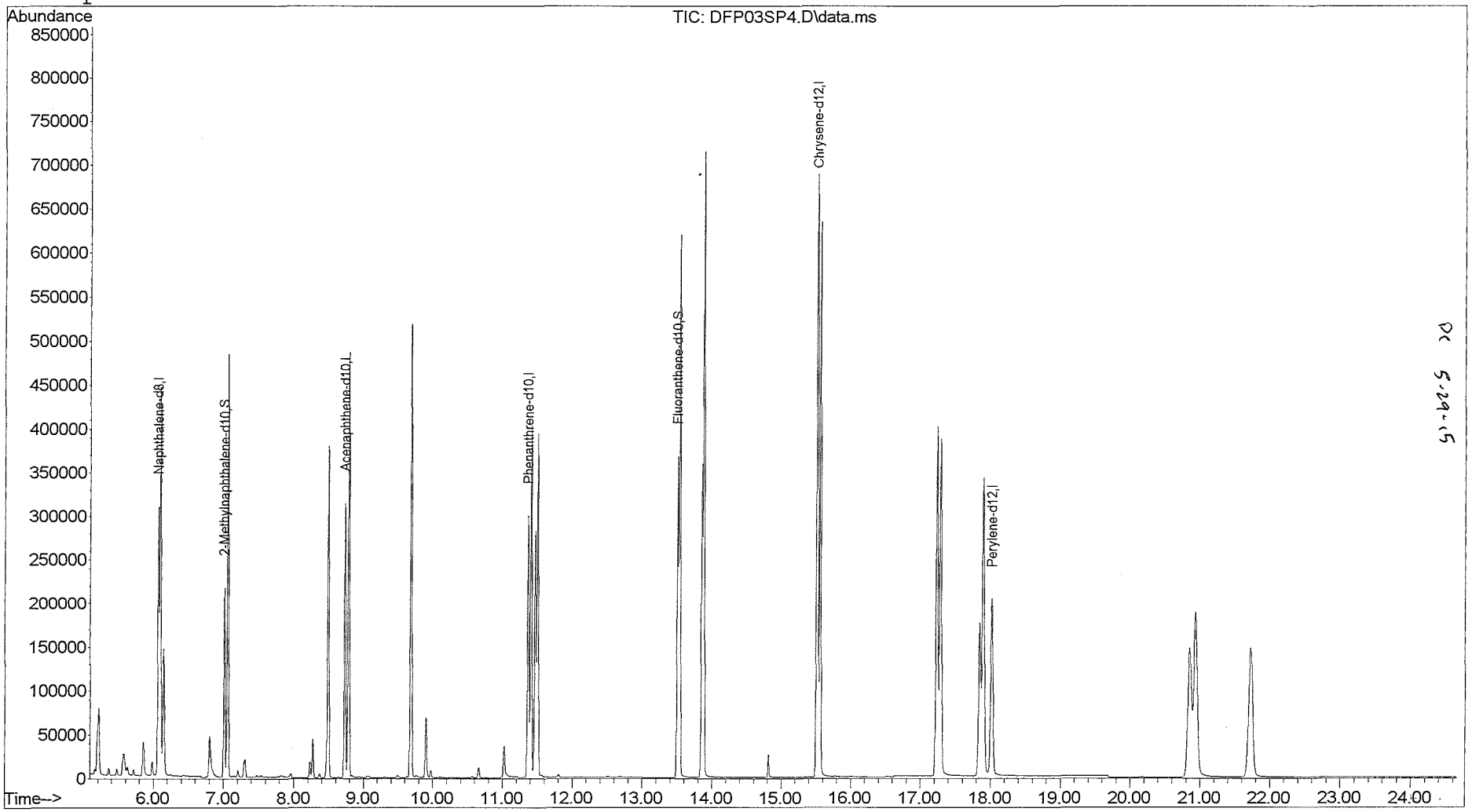
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.014	0.700	-2.8	25.0
2-Methylnaphthalene	0.672	0.670	0.400	-0.2	25.0
Acenaphthylene	1.750	1.733	0.900	-1.0	25.0
Acenaphthene	1.120	1.111	0.900	-0.8	25.0
Fluorene	1.299	1.274	0.900	-1.9	25.0
Pentachlorophenol	0.060	0.067	0.050	12.2	25.0
Phenanthrene	1.152	1.086	0.700	-5.7	25.0
Anthracene	1.120	1.060	0.700	-5.4	25.0
Fluoranthene	1.311	1.254	0.600	-4.4	25.0
Pyrene	1.255	1.310	0.600	4.4	25.0
Benzo(a)anthracene	1.067	1.087	0.800	1.9	25.0
Chrysene	1.127	1.078	0.700	-4.4	25.0
Benzo(b)fluoranthene	1.247	1.166	0.700	-6.5	25.0
Benzo(k)fluoranthene	1.292	1.192	0.700	-7.7	25.0
Benzo(a)pyrene	1.191	1.113	0.700	-6.6	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.997	0.500	-4.3	25.0
Dibenzo(a,h)anthracene	1.153	1.041	0.400	-9.8	25.0
Benzo(g,h,i)perylene	1.172	1.071	0.500	-8.7	25.0
Fluoranthene-d10	1.094	1.071	0.010	-2.1	25.0
2-Methylnaphthalene-d10	0.645	0.654	0.010	1.4	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\29MAY15\DFP03SP4.D Vial: 1
Acq On : 05/29/2015 14:38 Operator: DJC
Sample : SSTD0.4DP 28211 Inst : 5975-D
Misc : . X6-19-15 Trimmed column Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 29 15:16:23 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 May 29 15:16:04 2015
Response via : Initial Calibration



DK 5-29-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\29MAY15\DFP03SP4.D Vial: 1
Acq On : 05/29/2015 14:38 Operator: DJC
Sample : SSTD0.4DP 28211 Inst : 5975-D
Misc : . X6-19-15 Trimmed column Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 29 15:16:23 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 May 29 15:16:04 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	358241	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	209670	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	394867	0.40 ug/ml	
15) Chrysene-d12	15.52	240	399828	0.40 ug/ml	
19) Perylene-d12	18.02	264	365409	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	234393	0.406ug/mL	
13) Fluoranthene-d10	13.50	212	422846	0.392ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	363235	0.389ug/ml	97
4) 2-Methylnaphthalene	7.06	142	240000	0.399ug/ml	98
6) Acenaphthylene	8.49	152	363360	0.396ug/ml	97
7) Acenaphthene	8.78	153	233027	0.397ug/ml	99
8) Fluorene	9.68	166	267211	0.392ug/ml	100
10) Pentachlorophenol	11.02	266	26600	0.449ug/ml	100
11) Phenanthrene	11.41	178	428861	0.377ug/ml	98
12) Anthracene	11.50	178	418539	0.379ug/ml	97
14) Fluoranthene	13.53	202	495090	0.383ug/ml	88
16) Pyrene	13.88	202	523878	0.418ug/ml	88
17) Benzo(a)anthracene	15.51	228	434611	0.408ug/ml	98
18) Chrysene	15.56	228	431021	0.383ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	425893	0.374ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	435571	0.369ug/ml	99
22) Benzo(a)pyrene	17.89	252	406624	0.374ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	364425	0.383ug/ml	100
24) Dibenzo(a,h)anthracene	20.93	278	380210	0.361ug/ml	98
25) Benzo(g,h,i)perylene	21.72	276	391198	0.365ug/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.: F9L37

Instrument ID: 5975-D Calibration Date: 05/29/2015 Time: 20:30

Lab File ID: DFP14SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4P1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

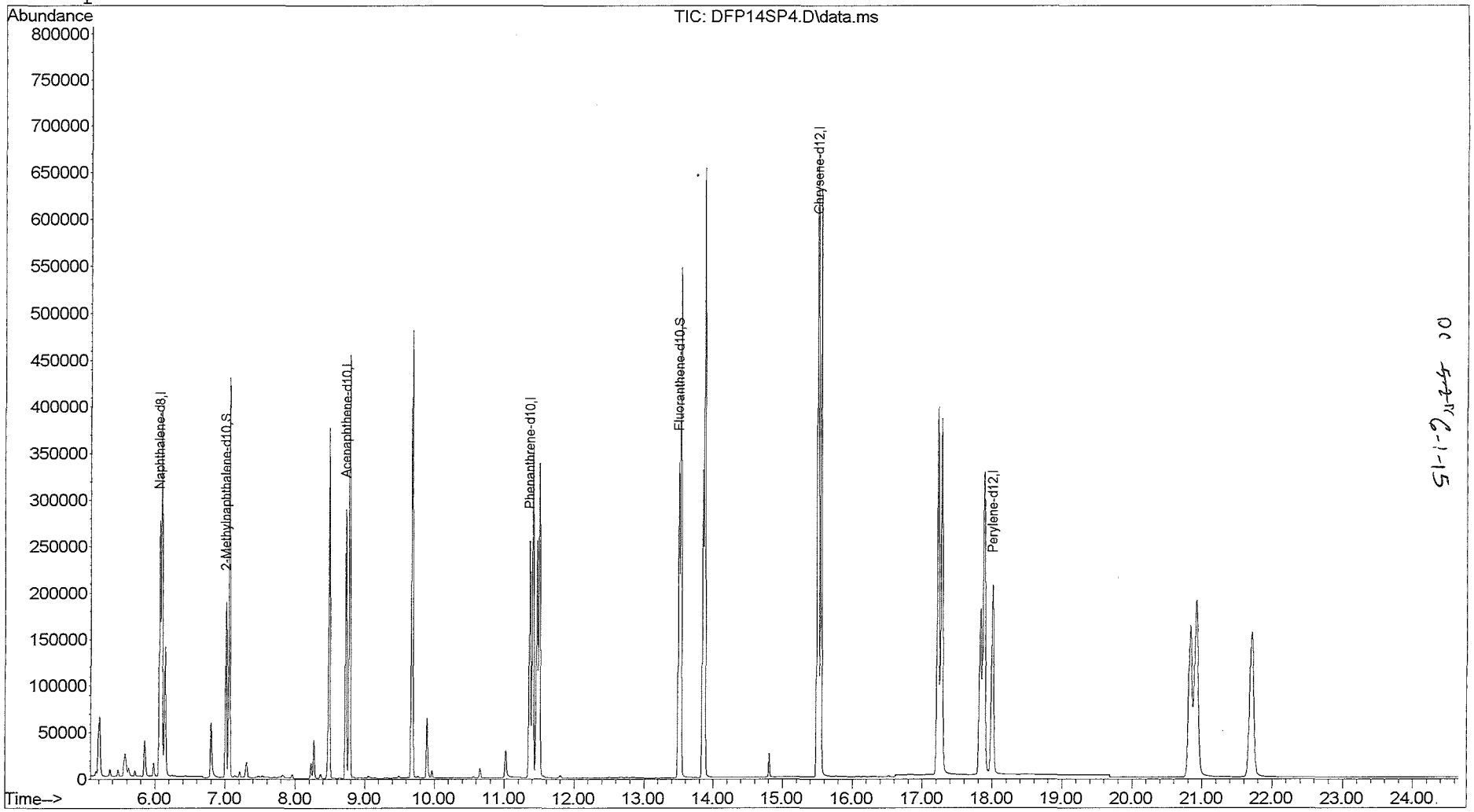
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.011	0.010	-3.1	50.0
2-Methylnaphthalene	0.672	0.669	0.010	-0.3	50.0
Acenaphthylene	1.750	1.748	0.010	-0.1	50.0
Acenaphthene	1.120	1.112	0.010	-0.7	50.0
Fluorene	1.299	1.278	0.010	-1.6	50.0
Pentachlorophenol	0.060	0.060	0.010	0.5	50.0
Phenanthrene	1.152	1.084	0.010	-5.8	50.0
Anthracene	1.120	1.069	0.010	-4.6	50.0
Fluoranthene	1.311	1.253	0.010	-4.5	50.0
Pyrene	1.255	1.200	0.010	-4.4	50.0
Benzo(a)anthracene	1.067	1.110	0.010	4.1	50.0
Chrysene	1.127	1.076	0.010	-4.5	50.0
Benzo(b)fluoranthene	1.247	1.152	0.010	-7.6	50.0
Benzo(k)fluoranthene	1.292	1.178	0.010	-8.8	50.0
Benzo(a)pyrene	1.191	1.110	0.010	-6.8	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.060	0.010	1.7	50.0
Dibenzo(a,h)anthracene	1.153	1.101	0.010	-4.6	50.0
Benzo(g,h,i)perylene	1.172	1.129	0.010	-3.7	50.0
Fluoranthene-d10	1.094	1.079	0.010	-1.4	50.0
2-Methylnaphthalene-d10	0.645	0.655	0.010	1.4	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\29MAY15\DFP14SP4.D Vial: 1
Acq On : 05/29/2015 20:30 Operator: DJC
Sample : SSTD0.4P1 28211 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 29 20:55:05 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 May 29 15:32:17 2015
Response via : Initial Calibration



DC 6-1-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\29MAY15\DFP14SP4.D Vial: 1
Acq On : 05/29/2015 20:30 Operator: DJC
Sample : SSTD0.4P1 28211 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 29 20:55:05 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 May 29 15:32:17 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	316288	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	196647	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	351746	0.40 ug/ml
15) Chrysene-d12	15.51	240	389574	0.40 ug/ml
19) Perylene-d12	18.00	264	366721	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	207086	0.406ug/mL
13) Fluoranthene-d10	13.50	212	379544	0.395ug/mL
Target Compounds				Qvalue
2) Naphthalene	6.09	128	319622	0.388ug/ml 94
4) 2-Methylnaphthalene	7.06	142	211703	0.399ug/ml 98
6) Acenaphthylene	8.49	152	343782	0.400ug/ml 97
7) Acenaphthene	8.78	153	218720	0.397ug/ml 99
8) Fluorene	9.68	166	251258	0.393ug/ml 100
10) Pentachlorophenol	11.02	266	21229	0.402ug/ml 100
11) Phenanthrene	11.40	178	381432	0.377ug/ml 98
12) Anthracene	11.50	178	375847	0.382ug/ml 97
14) Fluoranthene	13.53	202	440563	0.382ug/ml 88
16) Pyrene	13.87	202	467651	0.383ug/ml 88
17) Benzo(a)anthracene	15.50	228	432586	0.416ug/ml 98
18) Chrysene	15.55	228	419353	0.382ug/ml 97
20) Benzo(b)fluoranthene	17.22	252	422452	0.370ug/ml 100
21) Benzo(k)fluoranthene	17.28	252	432044	0.365ug/ml 99
22) Benzo(a)pyrene	17.88	252	407128	0.373ug/ml 99
23) Indeno(1,2,3-c,d)pyrene	20.83	276	388679	0.407ug/ml 100
24) Dibenzo(a,h)anthracene	20.92	278	403667	0.382ug/ml 98
25) Benzo(g,h,i)perylene	21.70	276	414164	0.385ug/ml 71

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

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L37

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 448734

Sample wt/vol: 1000 (g/mL) mL Lab File ID: DFP04BLK

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 05/27/2015

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 05/29/2015

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

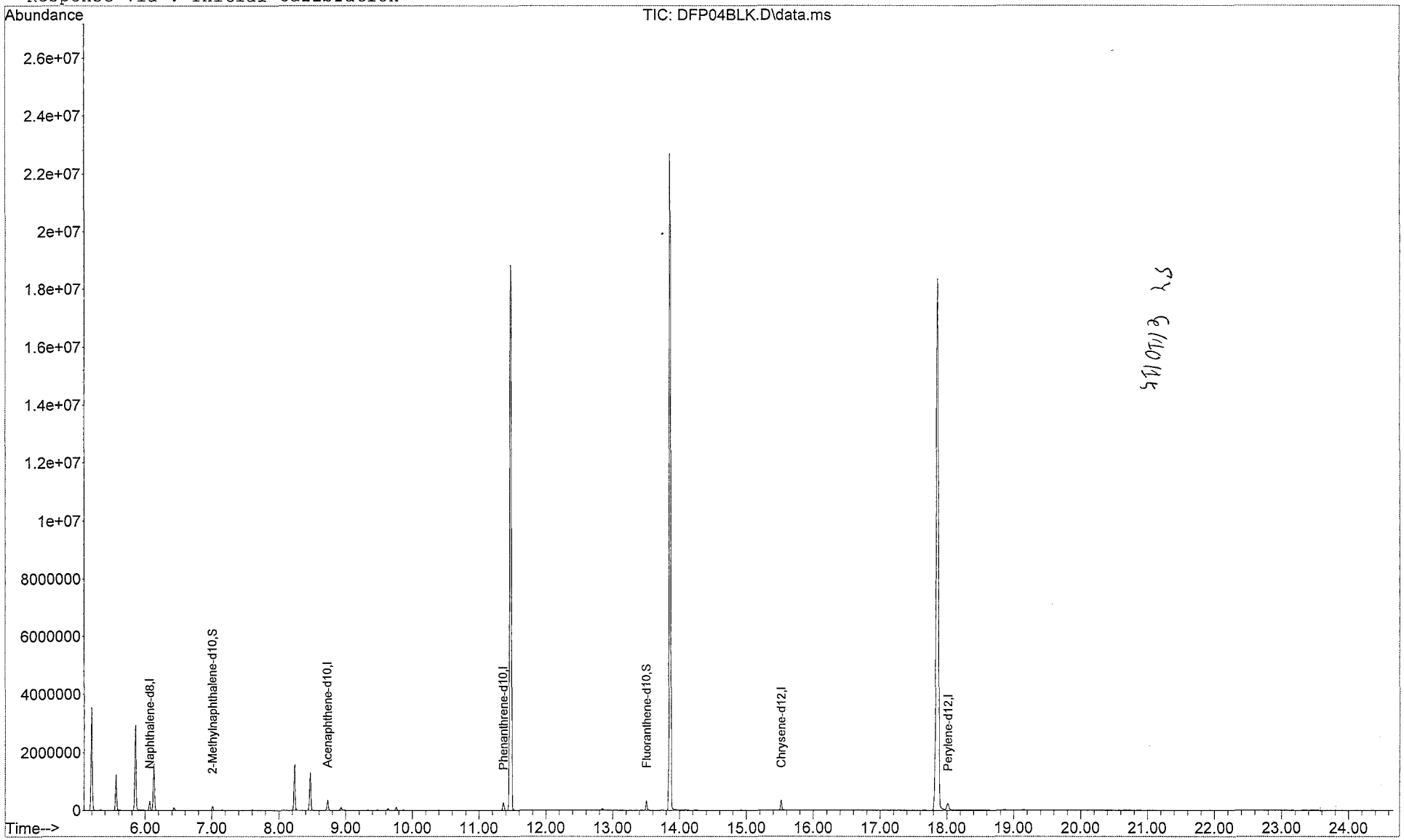
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	0.10	U
91-57-6	2-Methylnaphthalene	0.10	U
208-96-8	Acenaphthylene	0.10	U
83-32-9	Acenaphthene	0.10	U
86-73-7	Fluorene	0.10	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.10	U
120-12-7	Anthracene	0.10	U
206-44-0	Fluoranthene	0.10	U
129-00-0	Pyrene	0.10	U
56-55-3	Benzo(a)anthracene	0.10	U
218-01-9	Chrysene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.10	U
207-08-9	Benzo(k)fluoranthene	0.10	U
50-32-8	Benzo(a)pyrene	0.10	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U
53-70-3	Dibenzo(a,h)anthracene	0.10	U
191-24-2	Benzo(g,h,i)perylene	0.10	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP04BLK.D Vial: 2
Acq On : 05/29/2015 15:32 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 10 12:52:01 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 Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\29MAY15\DFP04BLK.D Vial: 2
Acq On : 05/29/2015 15:32 Operator: DJC
Sample : 448734 SBLK34 Inst : 5975-D
Misc : . WATER SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 10 12:52:01 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 Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	348346	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	230559	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	364753	0.40 ug/ml
15) Chrysene-d12	15.52	240	397080	0.40 ug/ml
19) Perylene-d12	18.02	264	436771	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	154365	0.275ug/mL
13) Fluoranthene-d10	13.50	212	358575	0.359ug/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: EVO/ 5654 **Created:** 6/1/2015 12:27 **Instrument:** 5975-E **HBN:** 149652

Rule: SOM VOA, Water **Analyst:** R. Haynes **Status:** WP

Workorder: 1514108 **SDG:** F9L37 **Case:** 45316
Workorder: 1514187 **SDG:** F9L37 **Case:** 45316
Workorder: 1514306 **SDG:** F9L37 **Case:** 45316
Workorder: 1514328 **SDG:** F9L37 **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	449328	HB for HBN 149652 [EVO/5654]				HB	3		SOMVOAW..3	6188	6/11/2015	5/30/2015	5/29/2015
2	449329	MB for HBN 149652 [EVO/5654]				MB	3		SOMVOAW..3	6188	6/11/2015	5/30/2015	5/29/2015
3	1514108001	F9L37				FLDBK	3	1514108001-A	S12VOAW..3	5936	5/30/2015	5/30/2015	5/29/2015
4	1514187001	F9L47				FLDBK	3	1514187001-A	S12VOAW..3	5936	5/31/2015	5/31/2015	5/29/2015
5	1514306001	F9L56				FLDQC	3	1514306001-A	S12VOAW..3	5936	6/1/2015	6/1/2015	5/29/2015
6	1514328001	F9L90				FLDQC	3	1514328001-A	S12VOAW..3	5936	6/2/2015	6/2/2015	5/29/2015

ALS Laboratory Group GC/MS Volatile Organic Analysis			
DCL Ref ID:	Samples:	Date Received:	Date Analyzed:
1514108	1	5/20/2015	5/29/2015
1514187	1	5/21/2015	5/29/2015
1514306	1	5/22/2015	5/29/2015
1514328	1	5/23/2015	5/29/2015
Sample Matrix: Water			
Method: EPA CLP SOM01.2 Low Water			
Instrument: 5975-E			
Column: Rtx-VMS 30 m 0.250 mm			
Temp. Program: 45° C (5.0 min) 15°C /min ramp to 200°C (0 min) 30°C /min ramp to 230°C (2.67 min). Run Time = 19.0 min.			
Carrier Gas: Helium			
Purge/Trap: OI Analytical Eclipse 4660/#10 Trap; Varian Archon Autosampler.			
Purge/Trap Conditions: Purge Time: 11 min. (1 min. dry purge); Desorb Time: 0.8 min. @ 190° C.			
Purge Gas: Helium			
Purge Flow: ~35 mL/min. Sample heated to 40° C.			
Trap Temp: < 35° C			
Initial Calibration Curve: The calibration curve is ECLPSB3 analyzed on 05-28-15.			
Initial Calibration Standards for ECLPSB2: VSTD005SE, 010SE, 050SE, 100SE, 200SE - 27660, 28016, 017, 019.			
Calibration Verification Standards VSTD050W1, VSTD050W2 - 27333, 27334, 27336, 26984.			
All analyses meet established QC acceptance criteria.			
Results reported in units of ug/L.			RJH

Low (E), ~~Trace (F)~~

EPA Sample Receipt History

Due Thurs 6/11

Client: U. S. EPA Region 6 **Contract:** EPW11037 **Case:** 45316 **SDG:** F9L37 **Mod:** None

Due to Client: Sat, Jun 13, 2015 **TAT:** 21 **Date Reported:** Not Reported **Status:** CLOSED

Workorder Information **Program:** SOM01.2 **Region:** 6 **EDD Level:** 3 HBN: 149652/5654

Work Order	Received	PR	Fractions
1514108	05/20/15 8:42 AM	No	Volatiles Low 29MAY15 E
1514187	05/21/15 8:59 AM	No	Volatiles Low
1514277	05/22/15 8:38 AM	No	Semivolatiles, Semivolatiles SIM
1514306	05/22/15 8:38 AM	No	Semivolatiles, Semivolatiles SIM, Volatiles Low
1514328	05/23/15 9:16 AM	No	Volatiles Low

Sample Information

	Lab ID	Client ID	Type	Matrix	ARO	PEST	BNA	BNASIM	VT	VOASIM	VLM
pH<2 ✓	1514108001	F9L37	FLDBK	Water	☐	☐	☐	☐	☐	☐	☒
pH<2 ✓	1514187001	F9L47	FLDBK	Water	☐	☐	☐	☐	☐	☐	☒
	1514277001	F9L54	FLDQC	Water[P]	☐	☐	☒	☒	☐	☐	☐
	1514277002	F9L55	FLDQC	Water[P]	☐	☐	☒	☒	☐	☐	☐
pH<2 ✓	1514306001	F9L56	FLDQC	Water	☐	☐	☐	☐	☐	☐	☒
	1514306002	F9L74	FLDQC	Water[P]	☐	☐	☒	☒	☐	☐	☐
pH<2 ✓	1514328001	F9L90	FLDQC	Water	☐	☐	☐	☐	☐	☐	☒

Field Samples: 7 **MS:** 0 **MSD:** 0 **MD:** 0 **PE:** 0

ECLP5B3

Low (E)

~~Trace (F)~~

~~EP85BFB~~

✓ EP56550 T85

✓ EP57 MB

✓ EP62 HBLK

✓ EP63550

Report Parameters = SDG:F9L37 Case:<NULL> Region:<NULL>
Mod:<NULL> Workorder:<NULL> BeginDate:<NULL> EndDate:<NULL>
OpenSummary:No SortBy:Case

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
EP10S50	05/28/2015 09:40	RJH	ECLPSB2	1	19.00	1	WATER	BFBWE	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660									
EP11S50	05/28/2015 10:05	RJH	ECLPSB2	2	19.00	1	WATER	VSTD050W3	VSTD050W3	1569445
	COMMENTS: 2.5 uL of 28016, 28017, 28019; 2.0 uL 27660									
EP12S50	05/28/2015 10:33	RJH	ECLPSB2	3	19.00	1	WATER	VSTD050W3	VSTD050W4	1637500
	COMMENTS: 2.5 uL of 28016, 28017, 28019									
EP13BLK	05/28/2015 11:03	RJH	ECLPSB2	4	19.00	1	WATER	XXXXXX	VBLKW2	1465109
	COMMENTS: 2.5 uL of 28016, 28017									
EP14S50	05/28/2015 11:39	RJH	ECLPSB2	1	19.00	1	WATER	VSTD050WX	VSTD050WX	1582620
	COMMENTS: 2.5 uL of 28016, 28017, 28019									
EP15S50	05/28/2015 12:03	RJH	ECLPSB2	2	19.00	1	WATER	VSTD050WE	VSTD050WE	1648821
	COMMENTS: 2.5 uL of 28016, 28017, 28019									
EP17S05	05/28/2015 13:15	RJH	ECLPSB2	1	19.00	1	WATER	VSTD005WE	VSTD005WE	1465647
	COMMENTS: 0.25 uL of 28017, 28019; 2.5 uL 28016									
EP18S10	05/28/2015 13:39	RJH	ECLPSB2	2	19.00	1	WATER	VSTD010WE	VSTD010WE	1504040
	COMMENTS: 0.5 uL of 28017, 28019; 2.5 uL 28016									
EP19S100	05/28/2015 14:03	RJH	ECLPSB2	3	19.00	1	WATER	VSTD100WE	VSTD100WE	1736734
	COMMENTS: 5 uL of 28017, 28019; 2.5 uL 28016									
EP20S200	05/28/2015 14:27	RJH	ECLPSB2	4	19.00	1	WATER	VSTD200WE	VSTD200WE	1809866
	COMMENTS: 10 uL of 28017, 28019; 2.5 uL 28016									
EP21BLK	05/28/2015 14:57	RJH	ECLPSB2	5	19.00	1	WATER	BLK		1575154
	COMMENTS: 2.5 uL 28016, 28017									
EP22BLK	05/28/2015 15:21	RJH	ECLPSB3	6	19.00	1	WATER	XXXXXX	VBLKW2	1508849
	COMMENTS: 2.5 uL 28016, 28017									
EP23BLK	05/28/2015 15:48	RJH	ECLPSB3	7	19.00	1	WATER	XXXXXX	VBLKW2	1459993
	COMMENTS: 2.5 uL 28016, 28017									
EP24C012	05/28/2015 16:15	RJH	ECLPSB3	8	19.00	1	WATER	1514319012	H0DZ6	1526490
	COMMENTS: 1514319									
EP25C013	05/28/2015 16:39	RJH	ECLPSB3	9	19.00	1	WATER	1514319013	H0DZ9	1448786
	COMMENTS: 1514319									
EP26C014	05/28/2015 17:03	RJH	ECLPSB3	10	19.00	1	WATER	1514319014	H0E00	1419712
	COMMENTS: 1514319									
EP27C015	05/28/2015 17:27	RJH	ECLPSB3	11	19.00	1	WATER	1514319015	H0DX1	1404538
	COMMENTS: 1514319									
EP28C016	05/28/2015 17:50	RJH	ECLPSB3	12	19.00	1	WATER	1514319016	H0DW9	1499632
	COMMENTS: 1514319									
EP29S003	05/28/2015 18:14	RJH	ECLPSB3	13	19.00	1	WATER	1514319003	H0DW0MS	1476747
	COMMENTS: 1514319									
EP30D004	05/28/2015 18:38	RJH	ECLPSB3	14	19.00	1	WATER	1514319004	H0DW0MSD	1510034
	COMMENTS: 1514319									
EP31HBLK	05/28/2015 19:02	RJH	ECLPSB3	15	19.00	1	WATER	XXXXXX	VHBLKW1	1378556
	COMMENTS: 2.5 uL 28016, 28017									
EP32S050	05/28/2015 19:27	RJH	ECLPSB3	16	19.00	1	WATER	VSTD050W2	VSTD050W2	1565382
	COMMENTS: 2.5 uL 28016, 28017, 28019									
EP33S050	05/28/2015 19:51	RJH	ECLPSB3	17	19.00	1	WATER	VSTD050W2	VSTD050W2	1624453
	COMMENTS: 2.5 uL 28016, 28017, 28019									

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
EP55BFB	05/29/2015 13:19	RJH	ECLPSB3	1	19.00	1	WATER	BFBW1		0
	COMMENTS: 2.0 uL of 27660									
EP56S50	05/29/2015 13:43	RJH	ECLPSB3	2	19.00	1	WATER	VSTD050W1	VSTD050W1	1519398
	COMMENTS: 2.5 uL 28016,17,19; 2 uL 27660									
EP57BLK	05/29/2015 14:08	RJH	ECLPSB3	3	19.00	1	WATER	XXXXXX	VBLKW1	1354397
	COMMENTS: 2.5 uL 28016, 28017									
EP58FL47	05/29/2015 14:34	RJH	ECLPSB3	4	19.00	1	WATER	1514187001	F9L47	1402297
	COMMENTS: 2.5 uL 28016, 28017									
EP59FL56	05/29/2015 14:58	RJH	ECLPSB3	5	19.00	1	WATER	1514306001	F9L56	1364979
	COMMENTS: 2.5 uL 28016, 28017									
EP60FL90	05/29/2015 15:22	RJH	ECLPSB3	6	19.00	1	WATER	1514328001	F9L90	1395714
	COMMENTS: 2.5 uL 28016, 28017									
EP61FL37	05/29/2015 15:47	RJH	ECLPSB3	7	19.00	1	WATER	1514108001	F9L37	1316289
	COMMENTS: 2.5 uL 28016, 28017									
EP62HBLK	05/29/2015 16:20	RJH	ECLPSB3	8	19.00	1	WATER	XXXXXX	VHBLKW1	1365656
	COMMENTS: 2.5 uL 28016, 28017									
EP63S50	05/29/2015 16:50	RJH	ECLPSB3	9	19.00	1	WATER	VSTD050W2	VSTD050W2	1424474
	COMMENTS: 2.5 uL 28016,17,19									
EP64S50	05/29/2015 17:14	RJH	ECLPSB3	10	19.00	1	WATER	VSTD050W2	VSTD050W2	1513186
	COMMENTS: 2.5 uL 28016,17,19									

STANDARD REPORT

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 27660 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 04/06/2015 | Expires: 06/07/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	25 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22119	BFB	Bromofluorobenzene Stock	BFB CH-3248	62.5 uL	11/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	4.9375 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - BFB

BFB — Description - Bromofluorobenzene Stock

Standard: 22119 | Created By: C. Coleman | Amount:
MFG: Ultra Scientific | Create Date: 1/22/2014 | Expires: 11/30/2015
MFG Lot: CH-3248 | Lab Lot: BFB CH-3248 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Working Standard - CLPIstdOnly

CLPIstdOnly — Description - CLP Internal Standard Only

Standard: 28016 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/11/2015 | Expires: 06/12/2015
MFG Lot: | Lab Lot: CLP Istd Only | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 060811	80 uL	08/08/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.92 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD		Description - EPA CLP Istd Stock
Standard: 13356	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011	Expires: 8/8/2016
MFG Lot: 080811	Lab Lot: CLP Istd 080811	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Working Standard - CLPDMCOnly

CLPDMCOnly		Description - CLP DMC Only
Standard: 28017	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/11/2015	Expires: 06/12/2015
MFG Lot:	Lab Lot: CLP DMC Only	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	100 ug/mL
2	6745-35-3	Vinyl Chloride-d3	100 ug/mL
3	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
4	1076-43-3	Benzene-d6	100 ug/mL
5	865-49-6	Chloroform-d	100 ug/mL
6	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
7	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
8	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
9	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
10	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
11	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
12	2037-26-5	Toluene-d8	100 ug/mL
13	24313-50-6	2-Butanone-d5	200 ug/mL
14	4840-82-8	2-Hexanone-d5	200 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21489	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 091212	128 uL	09/12/2015
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.512 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8	Description - EPA CLP 1,4-Dioxane-d8 Stock

Standard: 21489 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 12/2/2013 | Expires: 9/12/2015
MFG Lot: 091212 | Lab Lot: CLP 14Dioxd8 091212 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas	Description - EPA CLP DMC Gases Stock

Standard: 27293 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 3/3/2015 | Expires: 2/23/2018
MFG Lot: 022315 | Lab Lot: CLP DMC Gas 022315 | Usable: Yes
Part ID: 94156

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC	Description - EPA CLP DMC Liquids Stock

Standard: 22416 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 2/11/2014 | Expires: 1/16/2017
MFG Lot: 011614 | Lab Lot: CLP DMC 011614 | Usable: Yes
Part ID: 94155

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET	Description - EPA CLP DMC Ketones Stock

Standard: 26068 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 11/20/2014 | Expires: 8/4/2017
MFG Lot: 080414 | Lab Lot: CLP DMC Ket 080414 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLPIstd/DMC

CLPIstd/DMC — Description - CLP Internal Standard/DMC

Standard: 28018 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/11/2015 | Expires: 06/12/2015
MFG Lot: | Lab Lot: CLP Istd/DMC | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL
4	19199-91-8	Chloroethane-d5	100 ug/mL
5	6745-35-3	Vinyl Chloride-d3	100 ug/mL
6	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
7	1076-43-3	Benzene-d6	100 ug/mL
8	865-49-6	Chloroform-d	100 ug/mL
9	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
10	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
11	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
12	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
13	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
14	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
15	2037-26-5	Toluene-d8	100 ug/mL
16	24313-50-6	2-Butanone-d5	200 ug/mL
17	4840-82-8	2-Hexanone-d5	200 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080811	80 uL	08/08/2016
21489	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 091212	128 uL	09/12/2015
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.432 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD — Description - EPA CLP Istd Stock

Standard: 13356 | Created By: C. Coleman | Amount:
MFG: ABSOLUTE STANDARDS, | Create Date: 8/8/2011 | Expires: 8/8/2016
MFG Lot: 080811 | Lab Lot: CLP Istd 080811 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8 — Description - EPA CLP 1,4-Dioxane-d8 Stock

Standard: 21489 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 12/2/2013 | Expires: 9/12/2015
MFG Lot: 091212 | Lab Lot: CLP 14Dioxd8 091212 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas		Description - EPA CLP DMC Gases Stock
Standard: 27293	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015	Expires: 2/23/2018
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes
Part ID: 94156		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC		Description - EPA CLP DMC Liquids Stock
Standard: 22415	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 2/11/2014	Expires: 1/16/2017
MFG Lot: 011614	Lab Lot: CLP DMC 011614	Usable: Yes
Part ID: 94155		

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET		Description - EPA CLP DMC Ketones Stock
Standard: 26068	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP DMC Ket 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA		Description - CLP VOA
Standard: 28019	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/11/2015	Expires: 06/12/2015
MFG Lot:	Lab Lot: CLP VOA	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	2000 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	108-88-3	Toluene	100 ug/mL
4	100-41-4	Ethyl benzene	100 ug/mL
5	95-47-6	o-Xylene	100 ug/mL
6	108-38-3	m-Xylene	50 ug/mL
7	106-42-3	p-Xylene	50 ug/mL
8	75-27-4	Bromodichloromethane	100 ug/mL
9	124-48-1	Dibromochloromethane	100 ug/mL
10	75-35-4	1,1-Dichloroethene	100 ug/mL
11	156-59-2	cis-1,2-Dichloroethene	100 ug/mL
12	156-60-5	trans-1,2-Dichloroethene	100 ug/mL
13	75-09-2	Methylene chloride	100 ug/mL
14	74-97-5	Bromochloromethane	100 ug/mL
15	75-25-2	Bromoform	100 ug/mL
16	56-23-5	Carbon tetrachloride	100 ug/mL
17	67-66-3	Chloroform	100 ug/mL
18	75-34-3	1,1-Dichloroethane	100 ug/mL
19	127-18-4	Tetrachloroethene	100 ug/mL
20	71-55-6	1,1,1-Trichloroethane	100 ug/mL
21	96-12-8	1,2-Dibromo-3-Chloropropane	100 ug/mL
22	106-93-4	1,2-Dibromoethane	100 ug/mL
23	107-06-2	1,2-Dichloroethane	100 ug/mL
24	78-87-5	1,2-Dichloropropane	100 ug/mL
25	10061-01-5	cis-1,3-Dichloropropene	100 ug/mL
26	10061-02-6	trans-1,3-Dichloropropene	100 ug/mL
27	79-34-5	1,1,2,2-Tetrachloroethane	100 ug/mL
28	79-00-5	1,1,2-Trichloroethane	100 ug/mL
29	79-01-6	Trichloroethene	100 ug/mL
30	108-90-7	Chlorobenzene	100 ug/mL
31	95-50-1	1,2-Dichlorobenzene	100 ug/mL
32	541-73-1	1,3-Dichlorobenzene	100 ug/mL
33	106-46-7	1,4-Dichlorobenzene	100 ug/mL
34	98-82-8	Cumene	100 ug/mL
35	100-42-5	Styrene	100 ug/mL
36	87-61-6	1,2,3-Trichlorobenzene	100 ug/mL
37	120-82-1	1,2,4-Trichlorobenzene	100 ug/mL
38	75-15-0	Carbon disulfide	100 ug/mL
39	110-82-7	Cyclohexane	100 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28019 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/11/2015 | Expires: 06/12/2015
MFG Lot: | Lab Lot: CLP VOA | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
40	79-20-9	Methyl Acetate	100 ug/mL
41	108-87-2	Methylcyclohexane	100 ug/mL
42	1634-04-4	Methyl t-butyl ether	100 ug/mL
43	76-13-1	Freon 113	100 ug/mL
44	67-64-1	Acetone	200 ug/mL
45	78-93-3	Methyl ethyl ketone	200 ug/mL
46	108-10-1	Methyl isobutyl ketone	200 ug/mL
47	591-78-6	2-Hexanone	200 ug/mL
48	75-71-8	Dichlorodifluoromethane	100 ug/mL
49	74-87-3	Methyl chloride	100 ug/mL
50	75-01-4	Vinyl chloride	100 ug/mL
51	74-83-9	Bromomethane	100 ug/mL
52	75-00-3	Ethyl chloride	100 ug/mL
53	75-69-4	Freon 11	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19269	CLP 14Dioxan	CLP 1,4-Dioxane Stock	CLP 14Diox 121410	200 uL	12/14/2015
20026	CLP VOA	EPA CLP VOA Stock	CLP VOA 040213	100 uL	04/02/2016
22414	CLP Ketones	EPA CLP Ketones Stock	CLP Ketones 092713	20 uL	09/27/2016
23090	CLP Gases	EPA CLP Gases Stock	CLP Gases 010213	100 uL	01/02/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.58 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - CLP VOA

CLP VOA — Description - EPA CLP VOA Stock

Standard: 20026 | Created By: J. Gress | Amount: 2
MFG: ABSOLUTE STANDARDS, | Create Date: 7/22/2013 | Expires: 4/2/2016
MFG Lot: 040213 | Lab Lot: CLP VOA 040213 | Usable: Yes
Part ID: 94159

Pos.	Analyte	Name	Concentration
1	71-43-2	Benzene	2000 ug/mL
2	108-88-3	Toluene	2000 ug/mL
3	100-41-4	Ethyl benzene	2000 ug/mL
4	95-47-6	o-Xylene	2000 ug/mL
5	108-38-3	m-Xylene	1000 ug/mL
6	106-42-3	p-Xylene	1000 ug/mL
7	75-27-4	Bromodichloromethane	2000 ug/mL
8	124-48-1	Dibromochloromethane	2000 ug/mL
9	75-35-4	1,1-Dichloroethene	2000 ug/mL
10	156-59-2	cis-1,2-Dichloroethene	2000 ug/mL
11	156-60-5	trans-1,2-Dichloroethene	2000 ug/mL
12	75-09-2	Methylene chloride	2000 ug/mL
13	74-97-5	Bromochloromethane	2000 ug/mL
14	75-25-2	Bromoform	2000 ug/mL
15	56-23-5	Carbon tetrachloride	2000 ug/mL
16	67-66-3	Chloroform	2000 ug/mL
17	75-34-3	1,1-Dichloroethane	2000 ug/mL
18	127-18-4	Tetrachloroethene	2000 ug/mL
19	71-55-6	1,1,1-Trichloroethane	2000 ug/mL
20	96-12-8	1,2-Dibromo-3-Chloropropane	2000 ug/mL
21	106-93-4	1,2-Dibromoethane	2000 ug/mL
22	107-06-2	1,2-Dichloroethane	2000 ug/mL
23	78-87-5	1,2-Dichloropropane	2000 ug/mL
24	10061-01-5	cis-1,3-Dichloropropene	2000 ug/mL
25	10061-02-6	trans-1,3-Dichloropropene	2000 ug/mL
26	79-34-5	1,1,2,2-Tetrachloroethane	2000 ug/mL
27	79-00-5	1,1,2-Trichloroethane	2000 ug/mL
28	79-01-6	Trichloroethene	2000 ug/mL
29	108-90-7	Chlorobenzene	2000 ug/mL
30	95-50-1	1,2-Dichlorobenzene	2000 ug/mL
31	541-73-1	1,3-Dichlorobenzene	2000 ug/mL
32	106-46-7	1,4-Dichlorobenzene	2000 ug/mL
33	98-82-8	Cumene	2000 ug/mL
34	100-42-5	Styrene	2000 ug/mL
35	87-61-6	1,2,3-Trichlorobenzene	2000 ug/mL
36	120-82-1	1,2,4-Trichlorobenzene	2000 ug/mL
37	75-15-0	Carbon disulfide	2000 ug/mL
38	110-82-7	Cyclohexane	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP VOA

CLP VOA — Description - EPA CLP VOA Stock

Standard: 20026 | Created By: J. Gress | Amount: 2
MFG: ABSOLUTE STANDARDS, | Create Date: 7/22/2013 | Expires: 4/2/2016
MFG Lot: 040213 | Lab Lot: CLP VOA 040213 | Usable: Yes
Part ID: 94159

Pos.	Analyte	Name	Concentration
39	79-20-9	Methyl Acetate	2000 ug/mL
40	108-87-2	Methylcyclohexane	2000 ug/mL
41	1634-04-4	Methyl t-butyl ether	2000 ug/mL
42	76-13-1	Freon 113	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP Ketones

CLP Ketones — Description - EPA CLP Ketones Stock

Standard: 22414
MFG: ABSOLUTE STANDARDS,
MFG Lot: 092713
Part ID: 82492

Created By: C. Coleman
Create Date: 2/11/2014
Lab Lot: CLP Ketones 092713

Amount:
Expires: 9/27/2016
Usable: Yes

Pos.	Analyte	Name	Concentration
1	67-64-1	Acetone	20000 ug/mL
2	78-93-3	Methyl ethyl ketone	20000 ug/mL
3	108-10-1	Methyl isobutyl ketone	20000 ug/mL
4	591-78-6	2-Hexanone	20000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP Gases

CLP Gases — Description - EPA CLP Gases Stock

Standard: 23090
MFG: Absolute Standards, Inc.
MFG Lot: 010213
Part ID: 30058

Created By: C. Coleman
Create Date: 4/1/2014
Lab Lot: CLP Gases 010213

Amount:
Expires: 1/2/2016
Usable: Yes

Pos.	Analyte	Name	Concentration
1	75-71-8	Dichlorodifluoromethane	2000 ug/mL
2	74-87-3	Methyl chloride	2000 ug/mL
3	75-01-4	Vinyl chloride	2000 ug/mL
4	74-83-9	Bromomethane	2000 ug/mL
5	75-00-3	Ethyl chloride	2000 ug/mL
6	75-69-4	Freon 11	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxan

CLP 14Dioxan — Description - CLP 1,4-Dioxane Stock

Standard: 19269
MFG: Absolute Standards, Inc.
MFG Lot: 121410
Part ID: 90577

Created By: C. Coleman
Create Date: 12/14/2010
Lab Lot: CLP 14Diox 121410

Amount:
Expires: 12/14/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	20000 ug/mL

STANDARD REPORT

Working Standard - CLP M.S.

CLP M.S. — Description - CLP Matrix Spike

Standard: 28020
MFG: Ultra Scientific
MFG Lot: CH-1788A
Part ID:

Created By: C. Coleman
Create Date: 05/11/2015
Lab Lot: CLP M.S. CH-1788A

Amount: 2 mL
Expires: 06/12/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	100 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	79-01-6	Trichloroethene	100 ug/mL
4	108-88-3	Toluene	100 ug/mL
5	108-90-7	Chlorobenzene	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	200 uL	09/30/2015
28311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.8 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S. — Description - CLP Matrix Spike Stock

Standard: 22428 | Created By: C. Coleman | Amount:
MFG: Ultra Scientific | Create Date: 2/12/2014 | Expires: 9/30/2015
MFG Lot: CH-1788A | Lab Lot: CLP MS CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

STANDARD REPORT

Working Standard - CLP Med M.S.

CLP Med M.S. — Description - CLP Medium Level Matrix Spike

Standard: 28021 | Created By: C. Coleman | Amount: 25 mL
MFG: Ultra Scientific | Create Date: 05/11/2015 | Expires: 06/12/2015
MFG Lot: CH-1788A | Lab Lot: CLP Med M.S.CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	12.5 ug/mL
2	71-43-2	Benzene	12.5 ug/mL
3	79-01-6	Trichloroethene	12.5 ug/mL
4	108-88-3	Toluene	12.5 ug/mL
5	108-90-7	Chlorobenzene	12.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	312.5 uL	09/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	24.6875 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT
Constituent

Stock Standard - CLP M.S.

CLP M.S.		Description - CLP Matrix Spike Stock
Standard: 22428	Created By: C. Coleman	Amount:
MFG: Ultra Scientific	Create Date: 2/12/2014	Expires: 9/30/2015
MFG Lot: CH-1768A	Lab Lot: CLP MS CH-1768A	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

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Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

IFIED WEIGHT REPORT

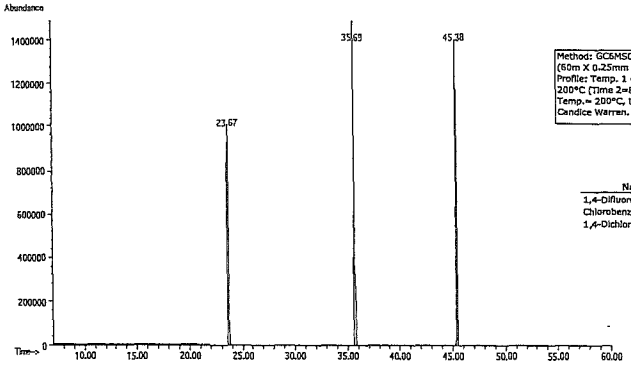
Part Number:	20048	Solvent(s):	Lot # DD948	Methanol
Lot Number:	080811			
Description:	CLP Volatiles - Low Concentration Internal Standard			
	3 components			
Expiration Date:	080816			
		Storage:	4 °C	
Nominal Concentration (µg/mL):	2500			

Formulated By: Justin Dippold 080811 DATE

Reviewed By: Pedro L. Rentas 080811 DATE

Weight(s) shown below were combined and diluted to: 100.0 — 5E-05 Balance Uncertainty; 0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
Chlorobenzene-d5	89	V581P26	2500	99.3	0.2	0.25173	0.25220	2504.7	0.00405	03114-55-4	N/A	orl-rat 1110mg/kg
,4-Dichlorobenzene-d4	118	PR-18488/07207C81	2500	98	0.2	0.25507	0.25537	2502.9	0.00410	03855-82-1	75 ppm	orl-rat 500mg/kg
,4-Difluorobenzene	155	13105AO	2500	99	0.2	0.25249	0.25271	2502.1	0.00408	00540-36-3	N/A	N/A



Method: GC6MSD-1. Detector: MSD. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
1,4-Difluorobenzene	23.67
Chlorobenzene-d5	35.69
1,4-Dichlorobenzene-d4	45.38

ALSSTANDARDS V2.3
Wed, 05/13/16 11:24 PM

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Analytical Reference Material ARM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

TIFIED WEIGHT REPORT

Part Number:	94156	Solvent(s):	Lot#
Lot Number:	022315	Methanol	DK793
Description:	CLP SOM 01.1 VOC DMC Gases		
	2 components		
Expiration Date:	022318		
Recommended Storage:	Freezer (0 °C)		
Nominal Concentration (µg/mL):	2000		

Formulated By: Vincent K. Criscio, Jr. 022315 DATE

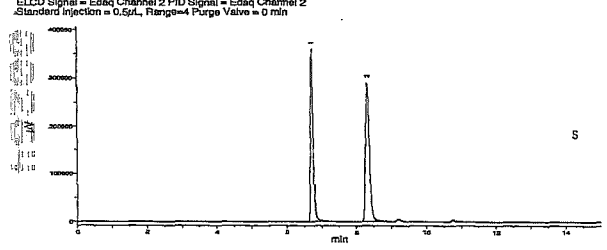
Reviewed By: Pedro L. Rentas 022315 DATE

Volume(s) shown below were combined and diluted to (mL): 25.0 — 5E-05 Balance Uncertainty; 0.006 Flask Uncertainty

Compound	Part Number	Lot Number	DIL Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
Chloroethane-d5	94176	072214	0.20	5.00	0.025	10034.4	2006.8	0.01080	19199-91-8	N/A	N/A
Vinyl chloride-d3	94177	072214	0.20	5.00	0.025	10053.6	2010.8	0.00409	06745-35-3	N/A	orl-rat 500mg/kg

Analyte	ELCD RT (min.)
Vinyl chloride-d3	6.74
Chloroethane-d5	8.33

Comments
GC15-M9 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydogen (make-up) = 100mL/min.,
Oven Profile: Temp. 1 = 35°C (Time 1 = 9 min.), Temp 2 = 200°C (Time 2 = 1 min.),
Rate = 33°C/min., Total run time = 15 min. Injector temp. = 200°C, FID Temp. = 200°C.
ELCD Signal = Edaq Channel 2 FID Signal = Edaq Channel 2
Standard injection = 0.5µL, Range=4 Purge Valve = 0 min



S 27293

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

4-Bromofluorobenzene Solution

Product Number:	STS-110N		
Lot Number:	CH-3248	Lot Issue Date:	07-Oct-2011
		Expiration Date:	30-Nov-2015

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM003385	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ISO 17025:2005 Accredited ANAB Cert. No. 66141
ISO 9001:2008 Registered TÜV USA Inc. Cert. No. 99 100

S 22119
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250 SMITH STREET N. KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

William J. Leary
Quality Assurance Manager

IED WEIGHT REPORT

		Lot #	Solvent(s):	
Part Number:	94157	DK010	Methanol	(90%)
Lot Number:	080414	072414	Water	(10%)
Description:	CLP SOM 01.1 DMC Ketones			
	2 components			
Expiration Date:	080417			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	2500			

Gabriel Helland 080414
Formulated By: Gabriel Helland DATE

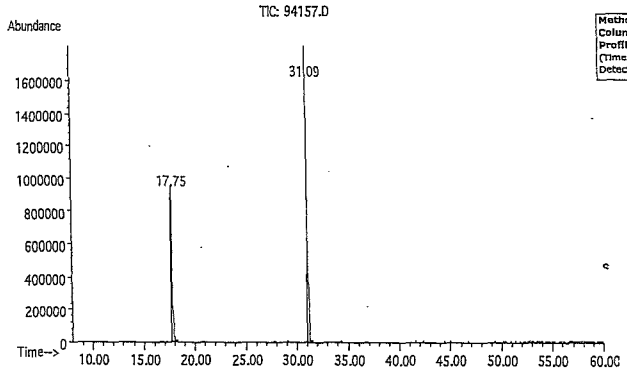
Pedro Rentas 080414
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty

eight(s) shown below were combined and diluted to (mL): 100.0 0.006 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
utanone-1,1,1,3,3-d5	2557	M276P7	2500	99	0.2	0.25254	0.25268	2501.4	0.0041	24413-50-6	N/A	orl-rat 2737mg/kg
Hexanone-1,1,1,3,3-d5	2558	S166P26	2500	98.5	0.2	0.25382	0.25419	2503.6	0.0041	04840-82-8	N/A	orl-rat 2590mg/kg



Method: GC6MSD-1. **Detector:** Mass Selective Detector. **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. **Analyst:** Candice Warren.

Name	MSD RT (min.)
2-Butanone-1,1,1,3,3-d5	17.75
2-Hexanone-1,1,1,3,3-d5	31.12

CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):	
Part Number:	94158	51182	Methanol	
Lot Number:	091212			
Description:	CLP SOM 01.1 DMC			
	1,4-Dioxane-d8			
Expiration Date:	091215			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	31250			

Gabriel Helland 091212
Formulated By: Gabriel Helland DATE

Pedro Rentas 091212
Reviewed By: Pedro L. Rentas DATE

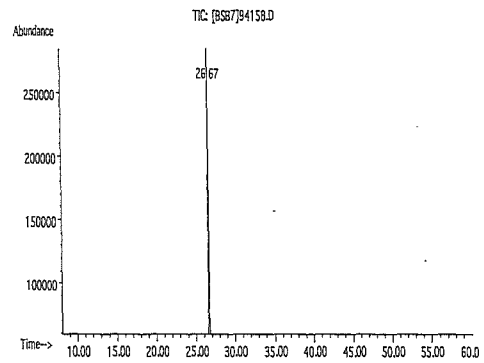
5E-05 Balance Uncertainty

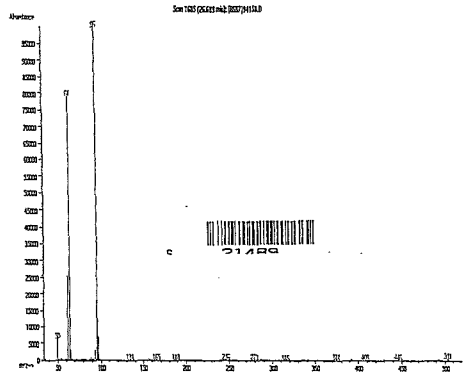
Weight(s) shown below were combined and diluted to (mL): 25.0 0.011 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane-d8	1882	SZ1285	31250	99	0.2	0.78912	0.78925	31255.1	0.0041	17647-74-4	N/A	orl-rbt 2000mg/kg

Method GC6MSD-1: Column: Vocol (30m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.





CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):	
Part Number:	30058	DE997	Methanol	
Lot Number:	010213			
Description:	EPA Method 502/524 - Volatile Gases Mix #1			
	6 components			
Expiration Date:	010216			
Recommended Storage:	Freezer (0 °C)			
Nominal Concentration (µg/mL):	2000			

Vincent K. Criscio, Jr. 010213
Formulated By: Vincent K. Criscio, Jr. DATE

Pedro Rentas 010213
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 499.0 0.058 Flask Uncertainty

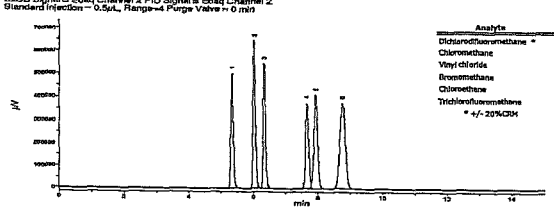
MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Bromomethane	50	01611JK	2000	99.5	0.2	1.00475	1.0069	2004.3	0.00403	00074-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
2. Chloroethane	72	007271KX	2000	99	0.2	1.00982	1.0100	2009.4	0.00405	00075-00-3	1000 ppm (2600mg/m3/8H)	N/A
3. Chloromethane	79	08908MS	2000	99.5	0.2	1.00475	1.0117	2013.8	0.00403	00074-87-3	100 ppm	orl-rat 1800mg/kg
4. Dichlorodifluoromethane	134	92-0487	2000	99	0.2	1.00982	1.0204	2029.9	0.00405	00075-71-8	1000 ppm (4950mg/m3/8H)	N/A
5. Trichlorofluoromethane	294	01823MW	2000	99	0.2	1.00982	1.0150	2019.3	0.00405	00075-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
6. Vinyl chloride	305	1281833 2130138	2000	99.5	0.2	1.00475	1.0113	2013.0	0.00403	00075-01-4	N/A	N/A

Run 9, "P30058 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min. (total points at 10 points/second.
Created: Wed, Jan 2, 2013 at 5:20:00 PM.
Created: Sequence "122112-GC1", Method "GC1-MS".
Analyzed using Method "GC1-MS".

Comments
GC1-MS Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydrogen (make-up) = 100mL/min.
Oven Profile: Temp. 1 = 35°C (Time 1 = 0 min.), Temp 2 = 200°C (Time 2 = 1 min.),
Rate = 20°C/min., Total run time = 15 min. Injector temp. = 200°C, DID Temp. = 200°C.
ELCD Signal = Edac Channel 2 PID Signal = Edac Channel 2
Standard Injection – 0.5µL, Range=4 Purge Valve = 0 min



Analyte	ELCD RT (min.)
Dichlorodifluoromethane *	5.34
Chloromethane	5.63
Vinyl chloride	6.34
Bromomethane	7.67
Chloroethane	7.93
Trichlorofluoromethane	8.76

* +/- 20%CRM

S 23090

CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):	
Part Number:	94155	DG596	Methanol	
Lot Number:	011614			
Description:	CLP SOM 01.1 DMC Volatiles			
	9 components			
Expiration Date:	011617			
Recommended Storage:	Freezer (0 °C)			
Nominal Concentration (µg/mL):	2000			

Paul Barron 011614
Formulated By: Paul Barron DATE

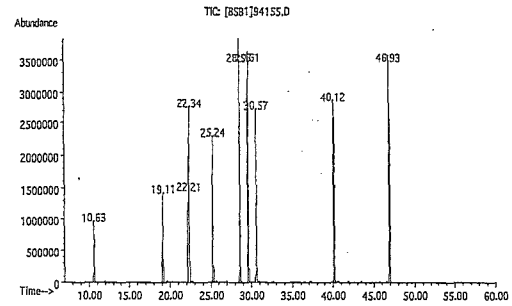
Pedro Rentas 011614
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Benzene-d6	26	4605DKDK	2000	99	0.2	0.20204	0.20220	2001.6	0.0041	01076-43-3	1 ppm (8H)	N/A
2. Chloroform-d	2558	V210P1	2000	99.8	0.2	0.20042	0.20065	2002.3	0.0040	00865-49-6	N/A	orl-hmn 140mg/kg
3. 1,2-Dichlorobenzene-d4	128	PR-18653/2207DB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
4. 1,2-Dichloroethane-d4	137	V288P18	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	orl-mus 825mg/kg
5. 1,1-Dichloroethene-d2	2047	W151P5	2000	99	0.2	0.20204	0.20220	2002.6	0.0041	22280-73-3	N/A	N/A
6. 1,2-Dichloropropane-d6	2051	L283P25	2000	99.7	0.2	0.20082	0.20090	2002.8	0.0040	93951-09-0	N/A	orl-rat 1947mg/kg
7. cis,trans-1,3-Dichloropropene-d4	2052	Z181P6	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-23-3	N/A	orl-rat 470mg/kg
8. 1,1,2,2-Tetrachloroethane-d2	2053	F465P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	orl-rat 800mg/kg
9. Toluene-d8	252	6D-549	2000	99.5	0.2	0.20103	0.20130	2002.7	0.0041	02037-26-5	200 ppm	orl-rat 5000mg/kg



Method: GC6MSD-1. **Detector:** Mass Selective Detector. **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. **Analyst:** Candice Warren.

Name	MSD RT (min.)
1,1-Dichloroethene-d2	10.61
Chloroform-d	19.13
1,2-Dichloroethane-d4	22.20
Benzene-d6	22.36
1,2-Dichloropropane-d6	25.23
cis-1,3-Dichloropropene-d4	28.53
Toluene-d8	29.62
trans-1,3-Dichloropropene-d4	30.59
1,1,2,2-Tetrachloroethane-d2	40.08
1,2-Dichlorobenzene-d4	46.93

S 22415

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TIFIED WEIGHT REPORT

Part Number: 94159
Lot Number: 040213
Description: CLP SOM 01.1 Volatiles
42 components
Expiration Date: 040216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied

Lot #: DH247O1 — Solvent(s): Methanol

Formulated By: Justin Dippold — DATE 040213
Reviewed By: Pedro L. Rentas — DATE 040213

5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 100.0 — 0.001 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc. (ug/mL)	Final Conc. (ug/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50
Benzene	93831	072910	0.10	10.00	0.006	20013.0	2001.1	0.00433	00071-43-2	1 ppm	orl-rat 4894mg/kg
Toluene	93831	072910	0.10	10.00	0.006	20019.6	2001.8	0.00420	00108-88-3	200 ppm	orl-rat 5000mg/kg
Ethyl benzene	93831	072910	0.10	10.00	0.006	20015.0	2001.3	0.00416	00100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
o-Xylene	93831	072910	0.10	10.00	0.006	20020.6	2001.9	0.00424	00095-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
m-Xylene	93831	072910	0.10	10.00	0.006	10008.1	1000.7	0.00420	00108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
p-Xylene	93831	072910	0.10	10.00	0.006	10009.3	1000.8	0.00420	00106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
Bromodichloromethane	30171	020712	0.10	10.00	0.006	20011.9	2001.0	0.00408	00075-27-4	N/A	orl-rat 916mg/kg
Dibromochloromethane	30171	020712	0.10	10.00	0.006	20006.1	2000.6	0.00408	00124-48-1	N/A	orl-rat 848mg/kg
cis-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20009.2	2000.7	0.00404	00156-59-2	N/A	N/A
trans-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20003.4	2000.1	0.00408	00156-60-5	N/A	orl-rat 1235mg/kg
Methylene chloride	30171	020712	0.10	10.00	0.006	20001.9	2000.0	0.00401	00075-09-2	500 ppm	orl-rat 2136mg/kg
1,1-Dichloroethene	32251	122112	0.10	10.00	0.006	20002.4	2000.0	0.00404	00075-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
Bromochloromethane	94170	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00074-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
Bromoform	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00075-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 1147mg/kg
Carbon tetrachloride	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00418	00056-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
Chloroform	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00067-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
1,1-Dichloroethane	94170	072910	0.10	10.00	0.006	20019.4	2001.7	0.00420	00075-34-3	100 ppm	orl-rat 725mg/kg
Tetrachloroethene	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00127-18-4	5 ppm (170mg/m3/8H)(fina	orl-rat 2629mg/kg
1,1,1-Trichloroethane	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00071-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
1,2-Dibromo-3-chloropropane	94171	092310	0.10	10.00	0.006	20002.6	2000.1	0.00420	00096-12-8	0.001 ppm	orl-rat 170mg/kg
1,2-Dibromoethane	94171	092310	0.10	10.00	0.006	20008.0	2000.6	0.00420	00106-93-4	20 ppm (8H)	orl-rat 108mg/kg
1,2-Dichloroethane	94171	092310	0.10	10.00	0.006	20004.4	2000.2	0.00416	00107-06-2	50 ppm (8H)	orl-rat 670mg/kg
1,2-Dichloropropane	94171	092310	0.10	10.00	0.006	20010.2	2000.8	0.00420	00078-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
cis-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20004.8	2000.3	0.00420	10061-01-5	N/A	N/A
trans-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	10061-02-6	N/A	N/A
1,1,2,2-Tetrachloroethane	94171	092310	0.10	10.00	0.006	20004.3	2000.2	0.00420	00079-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
1,1,2-Trichloroethane	94171	092310	0.10	10.00	0.006	20005.9	2000.4	0.00424	00079-00-5	10 ppm (45mg/m3/8H)(skin	orl-rat 836mg/kg
Trichloroethene	94171	092310	0.10	10.00	0.006	20011.8	2001.0	0.00416	00079-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
Chlorobenzene	94172	092310	0.10	10.00	0.006	20009.9	2000.8	0.00420	00108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
1,2-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20011.9	2001.0	0.00420	00095-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
1,3-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20010.7	2000.9	0.00424	00541-73-1	N/A	ipr-mus 1062mg/kg
1,4-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	00106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
Isopropylbenzene	94172	092310	0.10	10.00	0.006	20006.8	2000.7	0.00424	00098-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
Styrene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00100-42-5	100 ppm	orl-rat 5000mg/kg
1,2,3-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00087-61-6	N/A	ipr-mus 1390mg/kg
1,2,4-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20010.8	2000.9	0.00420	00120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
Carbon disulphide	94173	072910	0.10	10.00	0.006	20018.9	2001.7	0.00420	00075-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
Cyclohexane	94173	072910	0.10	10.00	0.006	20018.5	2001.8	0.00418	00110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
Methyl acetate	94173	072910	0.10	10.00	0.006	20017.0	2001.5	0.00416	00079-20-9	200 ppm (610mg/m3/8H)	orl-rat 3705mg/kg
Methylcyclohexane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00108-87-2	N/A	N/A
Methyl tert-butyl ether (MTBE)	94173	072910	0.10	10.00	0.006	20018.5	2001.7	0.00416	01634-04-4	N/A	orl-rat 4g/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00076-13-1	1000 ppm (7600mg/m3/8H	orl-rat 43g/kg

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CERTIFIED WEIGHT REPORT

Part Number: 82492
Lot Number: 092713
Description: EPA Method 8240A - Mix #2 (Concentrate)
Ketones - 4 components
Expiration Date: 092716
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 20000

Solvent(s): Lot # DG598 Methanol (90%); 083013 Water (10%)

Formulated By: Paul Barron — DATE 092713
Reviewed By: Pedro L. Rentas — DATE 092713

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 — 0.001 Flask Uncertainty

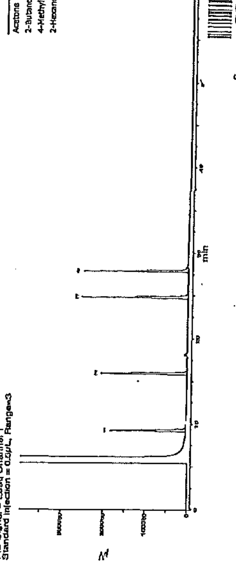
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Acetone	4	09484BH	20000	99.5	0.2	2.01026	2.01120	20009.4	0.00402	00067-64-1	750 ppm	orl-rat 5800mg/kg
2. 2-Butanone (Methyl ethyl ketone)	53	4605EL	20000	99.9	0.2	2.00221	2.00310	20008.9	0.00400	00078-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
3. 2-Hexanone	200	10714PE	20000	98	0.2	2.04103	2.04250	20014.5	0.00408	00591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
4. 4-Methyl-2-pentanone	210	00861PH	20000	99.5	0.2	2.01026	2.01140	20011.4	0.00402	00108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg

Run 42, "P82492 L092713 [20mg/mL in MtW(9:1)] Df=1:10"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:58:28 AM.
Sampled: Sequence "092613-GC13M1". Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow ratios: Total flow=200mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3

Name	FID RT (min.)
Acetone	9.23
2-Butanone	15.90
4-Methyl-2-pentanone	24.84
2-Hexanone	27.89



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ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 90577
Lot Number: 121410
Description: 1,4-Dioxane
Expiration Date: 121415
Nominal Concentration (µg/mL): 20000
Storage: 4 °C

Solvent(s): Lot # 50172 Methanol

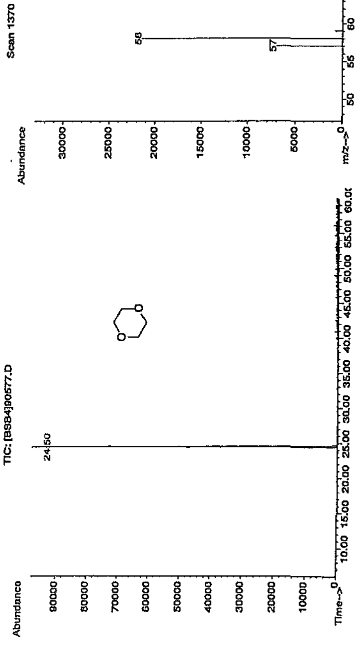
Formulated By: Pat Scaturchio — DATE 121410
Reviewed By: Pedro L. Rentas — DATE 121410

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 — 0.002 Flask Uncertainty

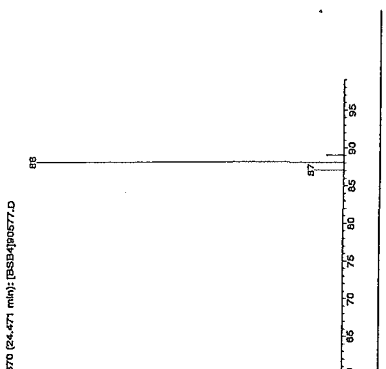
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane	373	03853KE	20000	99	0.2	2.01994	2.02085	20009.0	0.0040	00123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.

TIC: [BSB4]90577.D



Scan 1370 (24.471 min): [BSB4]90577.D



ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Volatiles Matrix Spiking Solution

Product Number: CLP-100N — **Page:** 1 of 1
Lot Number: CH-1788A — **Lot Issue Date:** 19-Aug-2013 — **Expiration Date:** 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
benzene	000071-43-2	34097	1004 ± 5 µg/mL
chlorobenzene	000108-90-7	07774MG	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	1004 ± 5 µg/mL
toluene	000108-88-3	47144	1004 ± 5 µg/mL
trichloroethene	000079-01-6	KN-08846KN	1004 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

S 22428

ACCREDITED
ISO 17025 Accredited A2LA — ISO 9001 Registered TUV USA, Inc.

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330

William J. Leary
Quality Assurance Manager

Batch Worklist

Batch: ESVO/ 4974 **Created:** 6/10/2015 12:28 **Instrument:** 5975-D **HBN:** 150274
Rule: SOM SVOA, Water **Analyst:** S. Yourstone **Status:** WP

Workorder: 1514277 **SDG:** F9L37 **Case:** 45316
Workorder: 1514306 **SDG:** F9L37 **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	448734	MB for HBN 149427 [ENVX/21675]	1000 mL	1 mL		MB	3		SOMSVOAW.3	6158	7/7/2015	6/11/2015	6/10/2015
2	1514277001	F9L54	1000 mL	1 mL		FLDQC	3	1514277001-A	S12SVOAW.3	5936	7/7/2015	6/12/2015	6/10/2015
3	1514277002	F9L55	1000 mL	1 mL		FLDQC	3	1514277002-A	S12SVOAW.3	5936	7/7/2015	6/12/2015	6/10/2015
4	1514306002	F9L74	1000 mL	1 mL		FLDQC	3	1514306002-A	S12SVOAW.3	5936	7/7/2015	6/12/2015	6/10/2015

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
DFN01S20	05/28/2015 16:59	DJC	DSOM01D5	1	25.96	1	SSTD020DN 28104 DFTPPDN	X6-19-15
DFN02BLK	05/28/2015 17:35	DJC	DSOM01D5	2	25.96	1	448734 SBLK34	WATER SOM
DFN03BLK	05/28/2015 18:08	DJC	DSOM01D5	3	25.96	1	448422 SBLK22	WATER SOM
DFN04F01	05/28/2015 18:41	DJC	DSOM01D5	4	25.96	1	1514277001 F9L54	WATER SOM
DFN05F02	05/28/2015 19:14	DJC	DSOM01D5	5	25.96	1	1514277002 F9L55	WATER SOM
DFN06F02	05/28/2015 19:47	DJC	DSOM01D5	6	25.96	1	1514306002 F9L74	WATER SOM
DFN07B12	05/28/2015 20:20	DJC	DSOM01D5	7	25.96	1	1514326012 GW-15-620-052015	WATER SOM
DFN08B13	05/28/2015 20:53	DJC	DSOM01D5	8	25.96	1	1514326013 GW-15-620-052015	WATER SOM
DFN09B14	05/28/2015 21:25	DJC	DSOM01D5	9	25.96	1	1514326014 GW-15-620-052015	WATER SOM
DFN10B16	05/28/2015 21:58	DJC	DSOM01D5	10	25.96	1	1514326016 DUPLICATE-052015	WATER SOM
DFN11B17	05/28/2015 22:31	DJC	DSOM01D5	11	25.96	1	1514326017 FIELD BLANK 2-05	WATER SOM
DFN12S20	05/28/2015 23:03	DJC	DSOM01D5	1	25.96	1	SSTD020N1 28104 DFTPPN1	X6-19-15
DFN13S20	05/28/2015 23:36	DJC	DSOM01D5	1	25.96	1	SSTD020N1 28104 DFTPPN1	X6-19-15
DFN14S20	05/29/2015 00:09	DJC	DSOM01D5	1	25.96	1	SSTD020N1 28104 DFTPPN1	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
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

Batch Worklist

Batch: ENVX/ 21675 Created: 5/27/2015 15:48 Instrument: HBN: 149427

Rule: Liquid Liquid, Continuous Analyst: L. Edwards Status: NA

Workorder: 1514277 SDG: F9L37 Case: 45316

Workorder: 1514306 SDG: F9L37 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	448734	MB for HBN 149427 [ENVX/21675]	1000mL	1mL		MB	3		LQDLQDC.3P	6158	6/1/2015	5/27/2015	
2	1514277001	F9L54	5 1000mL			FLDQC	3	1514277001-A	LQDLQDC.3P	5936	5/27/2015	5/27/2015	
3	1514277002	F9L55	5 1000mL			FLDQC	3	1514277002-A	LQDLQDC.3P	5936	5/27/2015	5/27/2015	
4	1514306002	F9L74	5 1000mL			FLDQC	3	1514306002-A	LQDLQDC.3P	5936	5/27/2015	5/27/2015	

mgl

50mo SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9L37 Horizon Extraction HBN 149427

Work Order# 1514277 / 1514306 Sample #'s 1-2, 2 Extraction Method SOMO 1.2

SOP: OE-EP-SOM Analytical Fraction SV/SV-SIM Matrix WATER

~~Date samples weighed out~~ _____ by UK ~~balance #~~ _____

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/27/15 1700 Stop Date/Time (CLLE's/Soxlet) 5/28/15 12:00 Extracted by CA

	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		JT BAKER		
Lot Number	18985		97623		
Amount	PER SOP		PER SOP		

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27653			
Spiked Amount	1mL			
Spiked By	CA			

	Acid Solution	Base Solution		
Standard ID	521510305			
Spiked Amount *	5mL			
pH Adjustment *	2			
Spiked By	UK			

* exceptions are noted in comments below

Comments _____

Pre-GPC Concentration: Date/Time — by — Comments —

Final Concentration: Date/Time 5/28/15 12:00 by [illegible] Comments The Temp was 66°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments _____

Checker Signature [illegible] **Date** 5/28/15

Batch Worklist

Batch: ESVO/ 4973 **Created:** 6/10/2015 12:24 **Instrument:** 5975-D **HBN:** 150273

Rule: SOM SVOA SIM, Water **Analyst:** S. Yourstone **Status:** WP

Workorder: 1514277 **SDG:** F9L37 **Case:** 45316

Workorder: 1514306 **SDG:** F9L37 **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	448734	MB for HBN 149427 [ENVX/21675]	1000 mL	1 mL		MB	3		SOMSVOASW3	6158	7/7/2015	6/11/2015	6/10/2015
2	1514277001	F9L54	1000 mL	1 mL		FLDQC	3	1514277001-A	S12SVOASW3	5936	7/7/2015	6/12/2015	6/10/2015
3	1514277002	F9L55	1000 mL	1 mL		FLDQC	3	1514277002-A	S12SVOASW3	5936	7/7/2015	6/12/2015	6/10/2015
4	1514306002	F9L74	1000 mL	1 mL		FLDQC	3	1514306002-A	S12SVOASW3	5936	7/7/2015	6/12/2015	6/10/2015

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
DFP01SP4	05/29/2015 12:56	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DP 28211	X6-19-15
DFP02SP4	05/29/2015 13:26	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DP 28211	X6-19-15
DFP03SP4	05/29/2015 14:38	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DP 28211	X6-19-15 Trimmed
DFP04BLK	05/29/2015 15:32	DJC	DSOM_SIMJ2	2	24.66	1	448734 SBLK34	WATER SIM
DFP05BLK	05/29/2015 16:02	DJC	DSOM_SIMJ2	3	24.66	1	448422 SBLK22	WATER SIM
DFP06F01	05/29/2015 16:32	DJC	DSOM_SIMJ2	4	24.66	1	1514277001 F9L54	WATER SIM
DFP07F02	05/29/2015 17:02	DJC	DSOM_SIMJ2	5	24.66	1	1514277002 F9L55	WATER SIM
DFP08F02	05/29/2015 17:31	DJC	DSOM_SIMJ2	6	24.66	1	1514306002 F9L74	WATER SIM
DFP09B12	05/29/2015 18:01	DJC	DSOM_SIMJ2	7	24.66	1	1514326012 GW-15-620-052015	WATER SIM
DFP10B13	05/29/2015 18:31	DJC	DSOM_SIMJ2	8	24.66	1	1514326013 GW-15-620-052015	WATER SIM
DFP11B14	05/29/2015 19:01	DJC	DSOM_SIMJ2	9	24.66	1	1514326014 GW-15-620-052015	WATER SIM
DFP12B16	05/29/2015 19:31	DJC	DSOM_SIMJ2	10	24.66	1	1514326016 DUPLICATE-052015	WATER SIM
DFP13B17	05/29/2015 20:00	DJC	DSOM_SIMJ2	11	24.66	1	1514326017 FIELD BLANK 2-052	WATER SIM
DFP14SP4	05/29/2015 20:30	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4P1 28211	X6-19-15
DFP15SP4	05/29/2015 20:59	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4P1 28211	X6-19-15
DFP16SP4	05/29/2015 21:29	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4P1 28211	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
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

Batch Worklist

Batch: ENVX/ 21675 | Created: 5/27/2015 15:48 | Instrument: | HBN: 149427
Rule: Liquid Liquid, Continuous | Analyst: L. Edwards | Status: NA

Workorder: 1514277 | SDG: F9L37 | Case: 45316
Workorder: 1514306 | SDG: F9L37 | 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	448734	MB for HBN 149427 [ENVX/21675]	1000mL	1ml		MB	3		LQDLQDC.3P	6158	6/1/2015	5/27/2015	
2	1514277001	F9L54 5	1000mL			FLDQC	3	1514277001-A	LQDLQDC.3P	5936	5/27/2015	5/27/2015	
3	1514277002	F9L55 5	1000mL			FLDQC	3	1514277002-A	LQDLQDC.3P	5936	5/27/2015	5/27/2015	
4	1514306002	F9L74 5	1000mL			FLDQC	3	1514306002-A	LQDLQDC.3P	5936	5/27/2015	5/27/2015	

some SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9L37 Horizon Extraction HBN 149427

Work Order# 1514277 / 1514306 Sample #'s 1-2, 2 Extraction Method 5030 1.2

SOP: OE-EP-5030 Analytical Fraction SV/SV-SIM Matrix WATER

~~Date samples weighed out~~ _____ by UR ~~balance #~~ _____

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/27/15 1700 Stop Date/Time (CLLE's/Soxlet) 5/28/15 12:00 Extracted by CA

	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	J.T. BAKER		J.T. BAKER		
Lot Number	18485		97623		
Amount	PERSOP		PERSOP		

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27653			
Spiked Amount	1mL			
Spiked By	CA			

	Acid Solution	Base Solution		
Standard ID	52151030 5			
Spiked Amount *	5mL			
pH Adjustment *	2			
Spiked By	UR			

* exceptions are noted in comments below

Comments _____

Pre-GPC Concentration: Date/Time — by — Comments —

Final Concentration: Date/Time 5/28/15 12:00 by [illegible] Comments The Temp was 66°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments _____

Checker Signature [signature] Date 5/28/15

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514108	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA
Comments:			Preservatives: HCL

Requested Analysis: SOM01.2 VOA Low, Water

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/19/2015 12:50	F9L37	1514108001		Water	A,B,C	3	A
2								
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	05/20/2015 08:42	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 14:45	Storage 2	Storage
storage	5/27/15 1400	[illegible]	VOA Analysis 12-62-46

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

Wed, 05/20/15 6:41 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514187	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/20/2015 17:20	F9L47	1514187001	FLDBK	Water	A,B,C	3	A
2								
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	05/21/2015 08:59	ALS Sample Receiving	Sample Login
[illegible]	05/21/2015 16:00	Storage2	Storage
storage	05/28/15 0850	[illegible]	VOA Analysis R-61-4C

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: 1514306	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/21/2015 07:50	F9L56	1514306001	FLDQC	Water	A,B,C	3	A
2								
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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1827	[signature] Storage	Storage
Storage	5/28/15 0850	[signature]	VOA Analysis R-61-VC

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: 1514328	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/22/2015 07:55	F9L90	1514328001	FLDQC	Water	A,B,C	3	A
2								
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
Edwards, Meredith D.	05/23/2015 09:16	ALS Sample Receiving	Sample Login
[illegible]	5/23/2015 1052	[illegible] Storage	Storage
storage	5/26/15 0850	[illegible]	VOA Analysis 12-61-4C

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: 1514277	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water
1	05/20/2015 16:00	F9L54	1514277001	FLDQC	Water	A,B,C,D	4	A	A
2	05/18/2015 14:25	F9L55	1514277002	FLDQC	Water	A,B,C,D	4	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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Meredith Edwards	5/22/2015 1648	R331 Cmt	Storage
R-33-1	5/27/15 1600	Lyle Edwards	EXT
Lyle Edwards	5/27/15 1700	R-33-1 LTS	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
Lyle Edwards	5/28/15 12:00	[illegible]	COOL
[illegible]	5/28/15 15:00	R-60-6	STOR
R-60-6	5-28-15 15:00	[illegible]	GC/MS

Fri, 05/22/15 4:54 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514306	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water
1	05/21/2015 11:40	F9L74	1514306002	FLDQC	Water	A,B,C,D	4	A	A
2									
3									
4									
5									
6									
7									
8									
9									
10									

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Meredith Edwards	5/22/2015 1824	R33-1 Cust	Storage
R-33-1 CAGT	5/27/15 1600	Lyle Edwards	EXT
Lyle Edwards	5/27/15 1700	R-33-1 LTS	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
Lyle Edwards	5/28/15 12:00	[illegible]	cool
[illegible]	5/28/15 15:00	R-60-6	STOR
R-60-6	5-28-15 15:00	Dustin Calder	GC/MS

Fri, 05/22/15 8:01 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514277	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water
1	05/20/2015 16:00	F9L54	1514277001	FLDQC	Water	A,B,C,D	4	A	A
2	05/18/2015 14:25	F9L55	1514277002	FLDQC	Water	A,B,C,D	4	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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Meredith Edwards	5/22/2015 11:48	R331 [illegible]	Storage
R-33-1	5/27/15 1600	Lyle Edwards	EXT
Lyle Edwards	5/27/15 1700	R-33-1 LTS	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
Lyle Edwards	5/28/15 12:00	[illegible]	COOL
[illegible]	5/28/15 15:00	R-60-6	STOR
R-60-6	5-28-15 15:00	Dustin Cold	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514306	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG
Comments:			Preservatives: COOL

Requested Analysis: SOM01.2 Semivoa. Water; SOM01.2 Semivoa Silvl. Water

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa. Water	SOM01.2 Semivoa Silvl. Water
1	05/21/2015 11:40	F9L74	1514306002	FLDQC	Water	A,B,C,D	4	A	A
2									
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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[illegible]	5/22/2015 1824	R-33-1 [illegible]	Storage
R-33-1 [illegible]	5/27/15 1600	[illegible]	EXT
[illegible]	5/27/15 1700	R-33-1 LTS	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]	5/28/15 12:00	[illegible]	cool
[illegible]	5/28/15 15:00	R-60-6	STOR
R-60-6	5-28-15 15:00	[illegible]	GCMS

Fri, 05/22/15 8:01 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514108	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA
Comments:			Preservatives: HCL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 VOA Low, Water
1	05/19/2015 12:50	F9L37	1514108001		Water	A,B,C	3	A
2								
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	05/20/2015 08:42	ALS Sample Receiving	Sample Login
[illegible]	05/20/2015 14:45	Storage 2	Storage
storage	5/22/15 MVO	[illegible]	VOA Analysis 12-62-46

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: 1514187	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/20/2015 17:20	F9L47	1514187001	FLDBK	Water	A,B,C	3	A
2								
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	05/21/2015 08:59	ALS Sample Receiving	Sample Login
[illegible]	05/21/2015 16:58	Storage2	Storage
storage	05/28/15 0850	[illegible]	VOA Analysis R-61-4C

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: 1514277	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa SIM, Water										
1	05/20/2015 16:00	F9L54	1514277001	FLDQC	Water	A,B,C,D	4	A	A										
2	05/18/2015 14:25	F9L55	1514277002	FLDQC	Water	A,B,C,D	4	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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Meredith Edwards	5/22/2015 1448	R331 out	Storage
R-33-1	5/27/15 1600	Lyle Edwards	EXT
Lyle Edwards	5/27/15 1700	R-33-1 LTS	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

roject / Job / Task: EPW09036 | Split: | Workorder ID: 1514838 | Level: EPACLP_PDF

lient: U. S. EPA Region 3 | Account: 8201 | Type: 500Poly

omments:

Preservatives: HNO3

Containers

Requested Analysis: ISM01.3 ICP-AES, Water

m	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	ID(s)	Count	ISM01.3 ICP-AES, Water
	05/27/2015 10:10	MC0BJ2	1514838001		Water	A	1	A
	05/27/2015 09:55	MC0BJ3	1514838002		Water	A	1	A
	05/27/2015 09:45	MC0BJ4	1514838003		Water	A	1	A
	05/27/2015 09:50	MC0BJ5	1514838004		Water	A	1	A
	05/27/2015 10:00	MC0BJ6	1514838005		Water	A	1	A
	05/27/2015 10:00	MC0BJ6S	1514838006	MS	Water	A	1	A
	05/27/2015 10:00	MC0BJ6D	1514838007	MD	Water	A	1	A
)								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	05/28/2015 10:21	ALS Sample Receiving	Sample Login
[illegible]	05/28/2015 [illegible]	4B	Storage
R33-1 4B Sal 06/01/2015 0800	06/04/2015 0800	Metals prep	metals

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: 1514306	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA
Comments:			Preservatives: HCL

Requested Analysis: SOM01.2 VOA Low, Water

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/21/2015 07:50	F9L56	1514306001	FLDQC	Water	A,B,C	3	A
2								
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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1827	[signature] Storage	Storage
Storage	5/28/15 0850	[signature]	VOA Analysis R-61-VC

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: 1514306	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 1000AG	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Water	SOM01.2 Semivoa Slm, Water
1	05/21/2015 11:40	F9L74	1514306002	FLDQC	Water	A,B,C,D	4	A	A
2									
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
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[illegible]	5/22/2015 1824	R-33-1 [illegible]	Storage
R-33-1 [illegible]	5/27/15 1600	[illegible]	EXT
[illegible]	5/27/15 1700	R-33-1 LTS	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: 1514328	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 40AGVOA	
Comments:			Preservatives: HCL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA Low, Water
1	05/22/2015 07:55	F9L90	1514328001	FLDQC	Water	A,B,C	3	A
2								
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
Edwards, Meredith D.	05/23/2015 09:16	ALS Sample Receiving	Sample Login
[illegible]	5/23/15 1052	[illegible] Storage?	Storage
storage	5/25/15 0850	[illegible]	VOA Analysis 12-61-4C

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

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8066 6991 0601

1 From

Date 5/19/15

Sender's Name Derrick Cobb Phone 832 347-4180

Company Weston Solutions, Inc

Address 5599 San Felipe Ste #700

Dept./Floor/Suite/Room

City Houston State TX ZIP 77056

2 Your Internal Billing Reference

3 To

Recipient's Name Meredith Edwards Phone 801 266-7700

Company ALS Laboratory Group

Address 960 West Levoy Street

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

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HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

05/20/2015 08:42

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UNITED STATES US

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CAD: /POS1601
DIMS: 23x14x14 IN
BILL SENDER

TO MEREDITH EDWARDS
ALS LABORATORY GROUP
960 W LEVOY DR

SALT LAKE CITY UT 84123
(801) 266-7700
INV: REF:
PO: DEPT:

FedEx Express

E

J151215022301uv

TRK# 0200 8066 6991 0601

WED - 20 MAY 10:30A
PRIORITY OVERNIGHT

XH BTFA

84123
UT-US SLC

COPY Original in SDC F9K24

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J15121502230 3uv

Ship Date: 20MAY15
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

THU - 21 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7736 5068 4748
0201

XH BTFA

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UT-US
SLC

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05/21/2015 08:59

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Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

E

J151215022303uv

Copy original in SPG F9K24

Ship Date: 20MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700

BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

MC 5/22/2015 | 8:38

THU - 21 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7736 5152 8914
0201

XH BTFA

84123
UT-US
SLC

537J3/C918/EE4B

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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

J151215022303uv

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
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SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

5/22/2015 8:38

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 6235 9606

XH BTFA

84123
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SLC

537J3/C918/EE4B

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

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Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

NL 5/22/2015 / 838

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7736 5329 7378
0201

XH BTFA

84123
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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

J15121502230Juv

Ship Date: 22MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

5/23/2015 / 9:16

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7736 6375 2377

X0 BTFA

84123
UT-US
SLC

537J3/C918/EE4B

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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.

1514108

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015

CarrierName: FedEx

AirbillNo: ~~773641082663~~ 3D 8066 6991 0601 Copy original in SDG F9K24

CHAIN OF CUSTODY RECORD

F9L37

Case #: 45316

Cooler #:

No: 6-051915-182457-0034

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-00-51	F9K24	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/19/2015 14:45	Good
WO-005-002-00-51	F9K40	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/19/2015 15:30	
WO-006-004-12-51	F9K48	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 09:25	
WO-006-004-24-51	F9K49	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 09:30	
WO-006-005-06-51	F9K51	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:45	
WO-006-006-12-51	F9K54	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 11:50	
WO-006-006-24-51	F9K55	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:00	
WO-006-002-24-51	F9K79	Soil/ START	Composite	VOA(21)	1025 (Ice) (3)	006	05/19/2015 08:50	
WO-006-003-06-51	F9K83	Soil/ START	Composite	VOA(21)	1035 (Ice) (3)	006	05/19/2015 10:15	
WO-006-003-12-51	F9K84	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:20	

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

Analysis Key: VOA=CLP VOA

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

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773641082663

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316
Cooler #:

No: 6-051915-182457-0034

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

Copy of original in SDG F9K24

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-003-24-51	F9K85	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:25	Good
WO-006-004-06-51	F9K87	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 09:20	
WO-006-005-12-51	F9K90	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:50	
WO-006-005-24-51	F9K91	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 10:55	
WO-006-006-06-51	F9K93	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 11:45	
WO-006-007-12-51	F9K96	Soil/ START	Composite	VOA(21).	1002 (Ice) (3)	006	05/19/2015 12:20	
WO-006-007-24-51	F9K97	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:25	
WO-006-007-06-51	F9KA1	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:15	
WO-006-008-06-51	F9KA3	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:40	
WO-006-008-12-51	F9KB6	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:45	

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

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

USEPA CLP COC (LAB COPY)

DateShipped: 5/19/2015
CarrierName: FedEx
AirbillNo: 773641082663

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316
Cooler #:

No: 6-051915-182457-0034

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

Copy Original in SDG F9K24

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-006-008-24-51	F9KB7	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	006	05/19/2015 12:50	Good
WO-006-003-24-52	F9L35	Soil/ START	Composite	VOA(21)	1029 (Ice) (3)	006	05/19/2015 10:30	
WO-006-006-12-52	F9L36	Soil/ START	Composite	VOA(21)	1038 (Ice) (3)	006	05/19/2015 11:55	
WO-006-006-44-20150519	F9L37	Water/ START	Grab	VOA(21)	1042 (HCl) (3)	FieldQC	05/19/2015 12:45	
WO-005-001-00-52	F9L38	Soil/ START	Composite	VOA(21)	1044 (Ice) (3)	005	05/19/2015 14:50	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Weston	5/19/15 2100	Fed Ex	5/19/15 2100	
	FedEx	05/20/2015 08:42	DATAC	05/20/2015 08:42	Good

1514187

USEPA CLP COC (LAB COPY)

DateShipped: 5/20/2015

CarrierName: FedEx

AirbillNo: 773650684748

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CHAIN OF CUSTODY RECORD

Case #: 45316 F9L37

Cooler #:

No: 6-052015-172117-0042

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-003-00-51	F9K32	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 07:30	Good
WO-005-004-00-51	F9K36	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 08:00	
WO-005-005-00-51	F9K58	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 08:15	
WO-005-006-00-51	F9K64	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	005	05/20/2015 08:40	
WO-005-004-00-52	F9L39	Soil/ START	Composite	VOA(21)	1049 (Ice) (3)	005	05/20/2015 08:05	
WO-017-005-00-51	F9L40	Soil/ START	Composite	VOA(21)	1054 (Ice) (3)	017	05/20/2015 08:10	
WO-017-006-00-51	F9L41	Soil/ START	Composite	VOA(21)	1002 (Ice) (3)	017	05/20/2015 08:55	
WO-017-001-00-51	F9L42	Soil/ START	Composite	VOA(21)	1059 (Ice) (3)	017	05/20/2015 09:15	
WO-017-002-00-51	F9L43	Soil/ START	Composite	VOA(21)	1064 (Ice) (3)	017	05/20/2015 09:20	
WO-017-004-00-51	F9L44	Soil/ START	Composite	VOA(21)	1069 (Ice) (3)	017	05/20/2015 09:40	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
18 samples	[signature] western	5/20/15 2100	Fedex	5/20/15 2100	
	[signature] FedEx 05/21/2015	05/21/2015 08:59	[signature] DATAC	05/21/2015 08:59	Good

USEPA CLP COC (LAB COPY)

DateShipped: 5/20/2015
CarrierName: FedEx
AirbillNo: 773650684748
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CHAIN OF CUSTODY RECORD

Case #: 45316 F9L37
Cooler #:

No: 6-052015-172117-0042

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-00-51	F9L45	Soil/ START	Composite	VOA(21)	1074 (Ice) (3)	017	05/20/2015 09:45	Good
WO-017-003-00-52	F9L46	Soil/ START	Composite	VOA(21)	1079 (Ice) (3)	017	05/20/2015 09:50	
WO-017-003-44-20150520	F9L47	Water/ START	Grab	VOA(21)	1083 (HCl) (3)	FieldQC	05/20/2015 17:20	
WO-017-006-06-51	F9L49	Soil/ START	Composite	VOA(21)	1086 (Ice) (3)	017	05/20/2015 14:50	
WO-017-006-12-51	F9L50	Soil/ START	Composite	VOA(21)	1091 (Ice) (3)	017	05/20/2015 14:55	
WO-017-005-06-51	F9L51	Soil/ START	Composite	VOA(21)	1096 (Ice) (3)	017	05/20/2015 10:20	
WO-017-005-12-51	F9L52	Soil/ START	Composite	VOA(21)	1101 (Ice) (3)	017	05/20/2015 10:25	
WO-017-005-24-51	F9L53	Soil/ START	Composite	VOA(21)	1106 (Ice) (3)	017	05/20/2015 10:30	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
18/samples	[illegible] Weston	5/20/15 2100	Fedex	5/21/15 2100	
	Fed EX	05/21/2015 08:59	[illegible] DATAC	05/21/2015 08:59	Good

1514277

USEPA CLP COC (REGION COPY)

DateShipped: 5/20/2015

CarrierName: FedEx

AirbillNo: 773651528914

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CHAIN OF CUSTODY RECORD F9L37

Wilcox Oil

Case #: 45316

Cooler #:

No: 6-052015-180419-0045

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-017-006-06-51	F9L49	Soil/ START	Composite	SVOA/SVOASIM(21)	1087 (Ice) (2)	017	05/20/2015 14:50	Field Sample
WO-017-005-12-51	F9L52	Soil/ START	Composite	SVOA/SVOASIM(21)	1102 (Ice) (2)	017	05/20/2015 10:25	Field Sample
WO-017-005-24-51	F9L53	Soil/ START	Composite	SVOA/SVOASIM(21)	1107 (Ice) (2)	017	05/20/2015 10:30	Field Sample
WO-17-005-43-20150520	F9L54	Water/ START	Grab	SVOA/SVOASIM(21)	1110 (Ice) (4)	FieldQC	05/20/2015 16:00	
WO-020-001-43-20150518	F9L55	Water/ START	Grab	SVOA/SVOASIM(21)	1114 (Ice) (4)	FieldQC	05/18/2015 14:25	

Special Instructions: No Lab QC on SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	Weston	5-20-15 2100	Fed Ex	5/20/15 2100	
	FedEx	5/22/2015 8:38	DATA	5/22/2015 15:38	good

1514306

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015

CarrierName: FedEx

AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD F9L57

Case #: 45316

Cooler #:

No: 6-052115-180330-0062

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Copy original in SDG F9L58

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

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

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

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653297378

Copy original in Sch F9L58

CHAIN OF CUSTODY RECORD F9L37

Case #: 45316
Cooler #:

No: 6-052115-155002-0052

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

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

Special Instructions: No Lab QC on SVOA/SVOASIM Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	Weston	5/21/15 2100	FedEx	5/21/15 2100	
	FEDEX	5/22/2015 838	Meredith Edwards DATA	5/22/2015 1838	good

1514328

USEPA CLP COC (LAB COPY)

DateShipped: 5/22/2015
CarrierName: FedEx
AirbillNo: 773663752377

CHAIN OF CUSTODY RECORD F9L37

Case #: ~~45299~~ 45316 ME 5/23/2015
Cooler #:

No: 6-052215-084331-0063

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-006-002-44-20150522	F9L90	Water/ START	Grab	VOA(21)	1285 (HCl) (3)	FieldQC	05/22/2015 07:55	SDG Final Sample
WO-006-001-06-51_R	F9L91	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1287 (Ice), 1290 (Ice) (4)	017	05/22/2015 08:00	
WO-006-001-12-51_R	F9L92	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1292 (Ice), 1295 (Ice) (4)	017	05/22/2015 08:05	
WO-006-001-24-51_R	F9L93	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1297 (Ice), 1300 (Ice) (4)	006	05/22/2015 08:10	
WO-006-002-06-51_R	F9L94	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1302 (Ice), 1305 (Ice) (4)	006	05/22/2015 08:15	
WO-006-002-12-51_R	F9L95	Soil/ START	Composite	VOA(21), CLP Moisture(21)	1307 (Ice), 1310 (Ice) (4)	006	05/22/2015 08:20	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
6/samples	[signature] WESTON	5/22/15 1325	Fedex	5/22/15 1325	
	FedEx	5/23/2015 9:16	Meredith Edwards DATAL	5/23/2015 9:16	good

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG

Notations concerning the location of the Sample Tags are included in Forms DC-1, DC-2 and in the SDG Administrative Narrative (if it is required).

Copy original in SDG F9K24

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 2
Received By (Print Name): Thomas Carlson	Log-In Date: 05/20/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9L37
	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. — 6066699 1 0601 / 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 — 05/20/2015
12. Time Received — 06:42

Sample Transfer

Fraction	Fraction
VOA Soil	
Area # Storage	Area #
By OJC	By
On 05/20/2015	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K24	N/A		VOA Soil
40			
48			
49			
51			
54			
55			
79			
83			
84			
85			
87			
90			
91			
93			
96			
97			
A1			
A3			
B6			
B7			
F9L35			

05/20/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/21/15	Logbook Page No.: Not Applicable

Copy original in SDG-F9L24

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Thomas Carlson	Log-In Date: 05/20/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9L37
	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. — 8066991 0601 — 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 — 05/20/2015
12. Time Received — 08:42

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9L36	N/A		~~VOA~~ VOA soil
37		1514108001	VOA water
38			VOA soil

TC 05/20/2015

Sample Transfer

Fraction: VOA soil	Fraction: VOA water
Area #: Storage	Area #: Storage
By: TC	By: TC
On: 05/20/2015	On: 05/20/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/21/15	Logbook Page No.: Not Applicable

Copy Original in SDG F9KB7

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: 05/21/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9L37
	Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s) — Present/Absent* (Present); Intact/Broken* (Intact)
2. Custody Seal Nos. — N/A
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists — Present/Absent* (Present)
4. Airbill — Airbill/Sticker Present/Absent* (Airbill/Sticker Present)
5. Airbill No. — 773650684746; N/A
6. Sample Tags — Present/Absent* (Present); Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody (Listed)
7. Sample Condition — Intact/Broken*/Leaking* (Intact)
8. Cooler Temperature Indicator Bottle — Present/Absent* (Present)
9. Cooler Temperature — 2
10. Does information on TR/COCs, and sample tags agree? — Yes/No* (Yes)
11. Date Received at Laboratory — 05/21/2015
12. Time Received —

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K32	N/A		VOA Soil
36			
58			
64			
F9L39			
40			
41			
42			
43			
44			
45			
46			
47			VOA Water
49			VOA Soil
50			
51			
52			
53			

Sample Transfer

Fraction	Fraction
VOA	
Area # Storage	Area #
By BC	By
On 05/21/2015	On

BC 05/21/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/22/15	Logbook Page No.: Not Applicable

Copy original in SDG F9L24

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L37
	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*	F9L49	n/a		SVOA/SVOM soil
	Intact/Broken*	52			
2. Custody Seal Nos.	n/a	53			
		54		1514277001	SVOA/SVOM water
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	55		002	
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	7726515289 14				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	8:38				

Sample Transfer	
Fraction: SVOA/SVOM	Fraction:
Area #: Room 1	Area #:
By: ME	By:
On: 5/22/2015	On:

ME 5/22/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/22/15	Logbook Page No.: Not Applicable

Copy original in SDG F9L58

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L37
Mod. Ref. No.: n/a	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L70	n/a		SVOA/SVSM soil
	Intact/Broken*	72			1
2. Custody Seal Nos.	n/a	74 =		1514306002	water
	1	75			soil
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	77			1
4. Airbill	Airbill/Sticker				
	Present/Absent*				
5. Airbill No.	773653297378				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: SVOA/SVSM	Fraction:
Area #: R331	Area #:
By: ME	By: ME 5/22/2015
On: 5/22/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

Copy original in SDG F9L58

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L37
Mod. Ref. No.: N/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L56	N/a	1514306 001	VOA NE 5/22/2015 Soil Water
	Intact/Broken*	58			Soil
2. Custody Seal Nos.	N/a	59			
	1	60			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	61			
4. Airbill	Airbill/Sticker	62			
	Present/Absent*	63			
5. Airbill No.	7736 6235 9406	64			
	N/a	65			
6. Sample Tags	Present/Absent*	66			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	67			
7. Sample Condition	Intact/Broken*/Leaking*	68			
8. Cooler Temperature Indicator Bottle	Present/Absent*	69			
9. Cooler Temperature	2	70			
10. Does information on TR/COCs, and sample tags agree?	Yes/No*	71			
11. Date Received at Laboratory	5/22/2015	72			
12. Time Received	8:38	73			
Sample Transfer		75			
Fraction: VOA TX / VOA S	Fraction	76			
Area #: Storage2 / Storage3	Area #: NE 5/22/2015	77			
By: NE	By	78			
On: 5/22/2015	On	79			

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

copy original in SDG F9L58

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L37 — 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*	F9L80	n/a		VOA Soil
	Intact/Broken*	81			
2. Custody Seal Nos.	n/a	82			
		83			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	84			
4. Airbill	Airbill/Sticker Present/Absent*	85			
		86			
5. Airbill No.	7136023596026	87			
	n/a	88			
6. Sample Tags	Present/Absent*	89			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°		NE 5/22/2015		
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				
Sample Transfer					
Fraction: VOA	Fraction: NE				
Area #: Storage 3	Area #: 5/22/2015				
By: NE	By:				
On: 5/22/2015	On:				

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/23/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L37
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*	F9L90	n/a	1514328001	VOA Water
	Intact/Broken*	91			VOA/Ore Moist Soil
2. Custody Seal Nos.	n/a	92			
	1	93			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	94			
4. Airbill	Airbill/Sticker Present/Absent*	95			
5. Airbill No.	773663752377				
	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	3				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/23/2015				
12. Time Received	9:16				

Sample Transfer

Fraction: VOA - W/VOAS	Fraction: Ore Moist
Area #: Storage 2 / Storage 3	Area #: R33.1
By: MLE	By: MLE
On: 5/23/2015	On: 5/23/2015

MLE 5/23/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

EPA-CLP CHECKING DOCUMENTATION FORM
FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L37 Fraction VOA

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature _____ Date 6/11/15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 6/11/15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature Thomas J. Mar Date 6.12.15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature Thomas J. Mar Date 6.12.15

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 06/12/2015

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L37 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 6/10/15

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 6/10/15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature Thomas J. [illegible] Date 6.11.15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature Thomas J. [illegible] Date 6.11.15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Desiree Hill Date 06/12/2015

U.S. EPA Region 6 Laboratory
ESB FILE REQUEST / IN-FILING FORM

CONTACT NAME ____Raymond Flores_____ PHONE __281 983 2139_____

DATE____7/17/2015_____

_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_____

Project or Facility Name ___WILCOX OIL _____

Facility Address (if applicable) _____Bristow, OK_____

CERCLIS Number __OK0001010917_____ FRS Number _____

Project Number __Case/SDG 45316/F9L37__Work Order Number _____

Special Instructions:__CLP DATA, Box 1 of 1_____

_____

_____

****

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

Regional CCS Defect Report

12:27 Tue, Jun 16, 2015

SDG F9L37 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216252 **Version** 8.6

DRD 06/15/2015 **LRD** 05/23/2015 **Mailed** 06/16/2015 **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
F9L37			05/20/2015						
F9L47			05/21/2015						
F9L54				05/22/2015	05/22/2015				
F9L55				05/22/2015	05/22/2015				
F9L56			05/22/2015						
F9L74				05/22/2015	05/22/2015				
F9L90			05/23/2015						
Totals	**0**	**0**	**4**	**3**	**3**	**0**	**0**		

Regional CCS Defect Report

12:27 Tue, Jun 16, 2015

SDG F9L37 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216252 **Version** 8.6

DRD 06/15/2015 **LRD** 05/23/2015 **Mailed** 06/16/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

Regional Defect Detail

NONE FOUND

Regional CCS Defect Report

12:27 Tue, Jun 16, 2015

SDG F9L37 **Lab** DATAC **Case** 45316 **Contract** EPW11037 **Client** EPA Region 6 **SOW** SOM01.2 **Stage** 3 **Tracking ID** 216252 **Version** 8.6

DRD 06/15/2015 **LRD** 05/23/2015 **Mailed** 06/16/2015 **Submission Type** First Submission **Screening Type** Semi-Automated

General Comments

NONE FOUND