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

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February 9, 2012

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

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

NGAMMON FOR R. F.

TO: Rafael Casanova, Superfund Project Manager (6SF-RA)

Site: **STATE MARINE OF PORT ARTHUR**

Case#: **42040**

SDG#: **F4XP0**

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.

685329

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: February 8, 2012

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Ying-Ping Hsieh, Data Reviewer, ESAT YPH

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

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	024
Task/Sub-Task:	2-11
ESAT Doc. No.:	A024-211-0154
TDF No.:	6-12-103A
ESAT File No.:	O-0770

Attached is the data review summary for Case # 42040
SDG # F4XP0
Site State Marine of Port Arthur

COMMENTS:

I. LEVEL OF DATA REVIEW

Region 6 Standard Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 2,300 for this data package. Some results were qualified because of technical problems that were not considered significant.

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

CASE NO.	42040	SITE	State Marine of Port Arthur
LABORATORY	KAP	NO. OF SAMPLES	20
CONTRACT#	EP-W-11-031	MATRIX	Soil
SDG#	F4XP0	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2/MA 2207.0	REVIEWER'S NAME	Ying-Ping Hsieh
SF#	303DD2BX	COMPLETION DATE	February 8, 2012

SAMPLE NO.					
	F4XP0	F4XP4	F4XP8	F4XQ2	F4XQ6
	F4XP1	F4XP5	F4XP9	F4XQ3	F4XQ7
	F4XP2	F4XP6	F4XQ0	F4XQ4	F4XQ8
	F4XP3	F4XP7	F4XQ1	F4XQ5	F4XQ9

DATA ASSESSMENT SUMMARY

	BNA	BNA SIM	PEST	ARO
1. HOLDING TIMES	O	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O	O
3. CALIBRATIONS	O	M	O	O
4. BLANKS	O	O	O	O
5. DMC/SURROGATES	O	O	O	O
6. MATRIX SPIKE/DUPLICATE/LCS	O	O	O	M
7. OTHER QC	N/A	N/A	N/A	N/A
8. INTERNAL STANDARDS	O	O	N/A	N/A
9. COMPOUND ID/QUANTITATION	O	O	O	M
10. PERFORMANCE/COMPLETENESS	O	O	O	O
11. OVERALL ASSESSMENT	O	M	O	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-SIM Pentachlorophenol failed the technical %D calibration criteria. **ARO** Aroclor-1254 had poor MS/MSD performance. Aroclor-1242 and/or Aroclor-1254 had inconsistent two-column quantitation results for eight samples.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 42040 **SDG** F4XP0 **SITE** State Marine of Port Arthur **LAB** KAP

COMMENTS: This SDG consisted of 20 soil samples for BNA, BNA-SIM, PEST, and ARO analyses following CLP SOW SOM01.2. The samples were also subject to Modified Analysis Request 2207.0 (MA), which requested lower QLs for Aroclor-1221, Aroclor-1242, and Aroclor-1254; and an LCS spiked with Aroclor-1242 at 2X the MA CRQL. The COC Records designated sample F4XP2 for laboratory QC analyses.

The SOW requires that the soil sample results be adjusted for moisture content, which raised the adjusted QLs above the CRQLs specified in the SOW. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs (Sample Quantitation Limits) in this report.

Although both the full scan and SIM analysis results were available for each BNA sample, the SIM results were designated for use only for pentachlorophenol. The laboratory lowered the QLs for BNA, BNA-SIM, and ARO samples by increased sample size. The laboratory also lowered the low point standard concentration for Aroclor-1221, Aroclor-1242, and Aroclor-1254 to achieve the MA requirements. The MA-requested MDL data for Aroclor-1221, Aroclor-1242, and Aroclor-1254 were acceptable.

Standard Review was performed for this data package as requested by the TDF. The target compounds of concern with the action levels in parentheses are pentachlorophenol (6.7 ug/Kg), 3,3'-dichlorobenzidine (170 ug/Kg), and Aroclor-1242 (33 ug/Kg). The only target compound of concern detected at concentrations above the action level was Aroclor-1242 in samples F4XQ4 and F4XQ7.

Some results were qualified for 10 BNA-SIM and 8 ARO samples because of problems with calibration, MS/MSD performance, and/or compound quantitation. The technical usability of the reported results is indicated by ESAT's final data qualifiers in the Data Summary Table. An Evidence Audit was conducted for the Complete Sample Delivery Group File, and the audit results were reported on the Evidence Inventory Checklist.

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

Acceptable	=	No results were qualified for any problem associated with this QC parameter.
Provisional	=	Some results were qualified because of problems associated with this QC parameter.
Unusable	=	All results are unusable because of major problems associated with this QC parameter.

1. Holding Times: Acceptable. All samples were extracted and analyzed within the contractual and technical holding time limits.

2. Tuning/Performance: Acceptable. The DFTPP analyses met GC/MS tuning criteria. Instrument performance met the QC guidelines for the GC analyses.

3. Calibrations: Provisional. With the exceptions discussed below, the target compounds met contractual and technical calibration criteria.

BNA Pentachlorophenol failed the technical %RSD criteria for the IC. Data qualification was unnecessary because the results for this compound were not designated for use.

BNA-SIM Pentachlorophenol and indeno(1,2,3-cd)pyrene failed the technical %D criteria for some opening CCVs. The reviewer qualified as estimated the pentachlorophenol results for associated samples F4XP0, F4XP1, F4XP2, F4XP3, F4XP4, F4XP5, F4XP6, F4XP7, F4XP8, and F4XQ5. Data qualification was unnecessary for indeno(1,2,3-cd)pyrene because the results for this compound were not designated for use. Pentachlorophenol also failed the technical minimum RRF criteria for the IC and opening CCVs. Since the raw calibration data demonstrated the instrument sensitivity at the CRQL, data qualification was unnecessary in the reviewer's opinion.

4. Blanks: Acceptable. The method, storage, and instrument blanks met contractual requirements and were free of target compound contaminants.

5. Deuterated Monitoring Compounds (DMC's)/Surrogates: Acceptable. The surrogate recoveries were within QC limits for PEST and ARO samples. All BNA and BNA-SIM samples had contractually acceptable DMC performance although four BNA samples had up to two DMC recoveries above the QC limits. No action was taken for these high DMC recoveries because the associated analytes were not detected in the samples.

6. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS): Provisional. An LCS spiked with Aroclor-1242 at 2X the MA CRQL was requested for the ARO fraction. The LCS recoveries were within QC limits for the PEST and ARO fractions. Aroclor-1254 was spiked instead of Aroclor-1016 and Aroclor-1260 for the ARO MS/MSD analyses as requested by the MA. MS/MSD results were within the QC limits except for those discussed below.

BNA The MS and MSD recoveries exceeded the QC limits for phenol, 4-chloro-3-methylphenol, 4-nitrophenol, and pentachlorophenol. Since these compounds were undetected or not designated for use in the unspiked sample, data qualification was not required.

BNA-SIM The MS and MSD recoveries exceeded the QC limit for pentachlorophenol. Since this compound was not detected in the unspiked sample, data qualification was not required.

ARO The MS/MSD recoveries for Aroclor-1254 were below the QC limit. Therefore, the reviewer qualified as estimated the Aroclor-1254 result for unspiked sample F4XP2.

7. **Other QC:** Not Applicable.

8. **Internal Standards (IS):** Acceptable. The BNA and BNA-SIM samples had acceptable IS performance.

9. **Compound Identity (ID)/Quantitation:** Provisional. Target analytes present at concentrations above the SQLs are bis(2-ethylhexyl)phthalate in two BNA samples and Aroclor-1242 and/or Aroclor-1254 in twelve ARO samples. GC/MS confirmation was not required for the reported PEST (all below the SQLs) and ARO results.

The reviewer qualified the following results >SQLs as estimated because the two-column concentrations differed by more than 25%, indicating possible matrix interference: Aroclor-1242 in samples F4XQ2, F4XQ3, F4XQ7, and F4XQ9 and Aroclor-1254 in samples F4XP2, F4XQ1, F4XQ3, F4XQ5, F4XQ8, and F4XQ9. No other compound ID or quantitation problem was detected.

10. **Performance/Completeness:** Acceptable. The data package was complete. The DST included in this report is the final version.

11. **Overall Assessment:** Results designated for use are acceptable for all BNA, 10 BNA-SIM, all PEST, and 12 ARO samples.

BNA-SIM The pentachlorophenol results were qualified for samples F4XP0, F4XP1, F4XP2, F4XP3, F4XP4, F4XP5, F4XP6, F4XP7, F4XP8, and F4XQ5 because of a calibration problem.

ARO Some results were qualified for samples F4XP2, F4XQ1, F4XQ2, F4XQ3, F4XQ5, F4XQ7, F4XQ8, and F4XQ9 because of problems with MS/MSD performance and/or compound quantitation.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CADRE	Computer-Aided Data Review and Evaluation
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
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
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

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.

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP0	
STATION LOCATION		N-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	130	130	U
Phenol	130	130	U
Bis(2-chloroethyl)ether	130	130	U
2-Chlorophenol	130	130	U
2-Methylphenol	130	130	U
2,2'-Oxybis(1-chloropropane)	130	130	U
Acetophenone	130	130	U
4-Methylphenol	130	130	U
N-Nitroso-di-n-propylamine	130	130	U
Hexachloroethane	130	130	U
Nitrobenzene	130	130	U
Isophorone	130	130	U
2-Nitrophenol	130	130	U
2,4-Dimethylphenol	130	130	U
Bis(2-chloroethoxy)methane	130	130	U
2,4-Dichlorophenol	130	130	U
Naphthalene	130	130	U
4-Chloroaniline	130	130	U
Hexachlorobutadiene	130	130	U
Caprolactam	130	130	U
4-Chloro-3-methylphenol	130	130	U
2-Methylnaphthalene	130	130	U
Hexachlorocyclopentadiene	130	130	U
2,4,6-Trichlorophenol	130	130	U
2,4,5-Trichlorophenol	130	130	U
1,1'-Biphenyl	130	130	U
2-Chloronaphthalene	130	130	U
2-Nitroaniline	250	250	U
Dimethylphthalate	130	130	U
2,6-Dinitrotoluene	130	130	U
Acenaphthylene	130	130	U
3-Nitroaniline	250	250	U
Acenaphthene	130	130	U
2,4-Dinitrophenol	250	250	U
4-Nitrophenol	250	250	U
Dibenzofuran	130	130	U
2,4-Dinitrotoluene	130	130	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP0	
STATION LOCATION		N-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	130	130	U
Fluorene	130	130	U
4-Chlorophenyl-phenylether	130	130	U
4-Nitroaniline	250	250	U
4,6-Dinitro-2-methylphenol	250	250	U
N-Nitrosodiphenylamine	130	130	U
1,2,4,5-Tetrachlorobenzene	130	130	U
4-Bromophenyl-phenylether	130	130	U
Hexachlorobenzene	130	130	U
Atrazine	130	130	U
Pentachlorophenol	250	250	U *
Phenanthrene	130	130	U
Anthracene	130	130	U
Carbazole	130	130	U
Di-n-butylphthalate	130	130	U
Fluoranthene	130	130	U
Pyrene	130	130	U
Butylbenzylphthalate	130	130	U
3,3'-Dichlorobenzidine	130	130	U
Benzo(a)anthracene	130	130	U
Chrysene	130	130	U
Bis(2-ethylhexyl)phthalate	130	140	
Di-n-octylphthalate	130	130	U
Benzo(b)fluoranthene	130	51	LJ
Benzo(k)fluoranthene	130	51	LJ
Benzo(a)pyrene	130	51	LJ
Indeno(1,2,3-cd)pyrene	130	130	U
Dibenzo(a,h)anthracene	130	130	U
Benzo(g,h,i)perylene	130	130	U
2,3,4,6-Tetrachlorophenol	130	130	U

Weight (g) : 60.4

%Moisture : 34

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP0(SIM)	
STATION LOCATION		N-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.5	2.6	*
2-Methylnaphthalene	2.5	2.3	*
Acenaphthylene	2.5	3.0	*
Acenaphthene	2.5	2.5	U *
Fluorene	2.5	2.5	U *
Pentachlorophenol	5.0	5.0	UJ
Phenanthrene	2.5	4.0	*
Anthracene	2.5	2.5	U *
Fluoranthene	2.5	20	*
Pyrene	2.5	16	*
Benzo(a)anthracene	2.5	6.1	*
Chrysene	2.5	11	*
Benzo(b)fluoranthene	2.5	8.5	*
Benzo(k)fluoranthene	2.5	3.4	*
Benzo(a)pyrene	2.5	6.5	*
Indeno(1,2,3-cd)pyrene	2.5	4.6	*
Dibenzo(a,h)anthracene	2.5	2.5	U *
Benzo(g,h,i)perylene	2.5	6.8	*

Weight (g) : 60.4

%Moisture : 34

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP1	
STATION LOCATION		L-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	140	140	U
Phenol	140	140	U
Bis(2-chloroethyl)ether	140	140	U
2-Chlorophenol	140	140	U
2-Methylphenol	140	140	U
2,2'-Oxybis(1-chloropropane)	140	140	U
Acetophenone	140	140	U
4-Methylphenol	140	140	U
N-Nitroso-di-n-propylamine	140	140	U
Hexachloroethane	140	140	U
Nitrobenzene	140	140	U
Isophorone	140	140	U
2-Nitrophenol	140	140	U
2,4-Dimethylphenol	140	140	U
Bis(2-chloroethoxy)methane	140	140	U
2,4-Dichlorophenol	140	140	U
Naphthalene	140	140	U
4-Chloroaniline	140	140	U
Hexachlorobutadiene	140	140	U
Caprolactam	140	140	U
4-Chloro-3-methylphenol	140	140	U
2-Methylnaphthalene	140	140	U
Hexachlorocyclopentadiene	140	140	U
2,4,6-Trichlorophenol	140	140	U
2,4,5-Trichlorophenol	140	140	U
1,1'-Biphenyl	140	140	U
2-Chloronaphthalene	140	140	U
2-Nitroaniline	260	260	U
Dimethylphthalate	140	140	U
2,6-Dinitrotoluene	140	140	U
Acenaphthylene	140	140	U
3-Nitroaniline	260	260	U
Acenaphthene	140	140	U
2,4-Dinitrophenol	260	260	U
4-Nitrophenol	260	260	U
Dibenzofuran	140	140	U
2,4-Dinitrotoluene	140	140	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP1	
STATION LOCATION		L-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	140	140	U
Fluorene	140	140	U
4-Chlorophenyl-phenylether	140	140	U
4-Nitroaniline	260	260	U
4,6-Dinitro-2-methylphenol	260	260	U
N-Nitrosodiphenylamine	140	140	U
1,2,4,5-Tetrachlorobenzene	140	140	U
4-Bromophenyl-phenylether	140	140	U
Hexachlorobenzene	140	140	U
Atrazine	140	140	U
Pentachlorophenol	260	260	U *
Phenanthrene	140	140	U
Anthracene	140	140	U
Carbazole	140	140	U
Di-n-butylphthalate	140	140	U
Fluoranthene	140	140	U
Pyrene	140	140	U
Butylbenzylphthalate	140	140	U
3,3'-Dichlorobenzidine	140	140	U
Benzo(a)anthracene	140	140	U
Chrysene	140	140	U
Bis(2-ethylhexyl)phthalate	140	140	U
Di-n-octylphthalate	140	140	U
Benzo(b)fluoranthene	140	140	U
Benzo(k)fluoranthene	140	140	U
Benzo(a)pyrene	140	140	U
Indeno(1,2,3-cd)pyrene	140	140	U
Dibenzo(a,h)anthracene	140	140	U
Benzo(g,h,i)perylene	140	140	U
2,3,4,6-Tetrachlorophenol	140	140	U

Weight (g) : 60.8

%Moisture : 38

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP1(SIM)	
STATION LOCATION		L-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.6	2.6	U *
2-Methylnaphthalene	2.6	2.6	U *
Acenaphthylene	2.6	2.6	U *
Acenaphthene	2.6	2.6	U *
Fluorene	2.6	2.6	U *
Pentachlorophenol	5.3	5.3	UJ
Phenanthrene	2.6	2.6	U *
Anthracene	2.6	2.6	U *
Fluoranthene	2.6	3.6	*
Pyrene	2.6	6.7	*
Benzo(a)anthracene	2.6	2.5	*
Chrysene	2.6	3.3	*
Benzo(b)fluoranthene	2.6	4.5	*
Benzo(k)fluoranthene	2.6	2.6	U *
Benzo(a)pyrene	2.6	4.0	*
Indeno(1,2,3-cd)pyrene	2.6	3.5	*
Dibenzo(a,h)anthracene	2.6	2.6	U *
Benzo(g,h,i)perylene	2.6	5.7	*

Weight (g) : 60.8

%Moisture : 38

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP2	
STATION LOCATION		G-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	140	140	U
Phenol	140	140	U
Bis(2-chloroethyl)ether	140	140	U
2-Chlorophenol	140	140	U
2-Methylphenol	140	140	U
2,2'-Oxybis(1-chloropropane)	140	140	U
Acetophenone	140	140	U
4-Methylphenol	140	140	U
N-Nitroso-di-n-propylamine	140	140	U
Hexachloroethane	140	140	U
Nitrobenzene	140	140	U
Isophorone	140	140	U
2-Nitrophenol	140	140	U
2,4-Dimethylphenol	140	140	U
Bis(2-chloroethoxy)methane	140	140	U
2,4-Dichlorophenol	140	140	U
Naphthalene	140	140	U
4-Chloroaniline	140	140	U
Hexachlorobutadiene	140	140	U
Caprolactam	140	140	U
4-Chloro-3-methylphenol	140	140	U
2-Methylnaphthalene	140	140	U
Hexachlorocyclopentadiene	140	140	U
2,4,6-Trichlorophenol	140	140	U
2,4,5-Trichlorophenol	140	140	U
1,1'-Biphenyl	140	140	U
2-Chloronaphthalene	140	140	U
2-Nitroaniline	270	270	U
Dimethylphthalate	140	140	U
2,6-Dinitrotoluene	140	140	U
Acenaphthylene	140	140	U
3-Nitroaniline	270	270	U
Acenaphthene	140	140	U
2,4-Dinitrophenol	270	270	U
4-Nitrophenol	270	270	U
Dibenzofuran	140	140	U
2,4-Dinitrotoluene	140	140	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP2	
STATION LOCATION		G-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	140	140	U
Fluorene	140	140	U
4-Chlorophenyl-phenylether	140	140	U
4-Nitroaniline	270	270	U
4,6-Dinitro-2-methylphenol	270	270	U
N-Nitrosodiphenylamine	140	140	U
1,2,4,5-Tetrachlorobenzene	140	140	U
4-Bromophenyl-phenylether	140	140	U
Hexachlorobenzene	140	140	U
Atrazine	140	140	U
Pentachlorophenol	270	270	U *
Phenanthrene	140	140	U
Anthracene	140	140	U
Carbazole	140	140	U
Di-n-butylphthalate	140	140	U
Fluoranthene	140	140	U
Pyrene	140	140	U
Butylbenzylphthalate	140	140	U
3,3'-Dichlorobenzidine	140	140	U
Benzo(a)anthracene	140	140	U
Chrysene	140	140	U
Bis(2-ethylhexyl)phthalate	140	160	
Di-n-octylphthalate	140	140	U
Benzo(b)fluoranthene	140	140	U
Benzo(k)fluoranthene	140	140	U
Benzo(a)pyrene	140	140	U
Indeno(1,2,3-cd)pyrene	140	140	U
Dibenzo(a,h)anthracene	140	140	U
Benzo(g,h,i)perylene	140	140	U
2,3,4,6-Tetrachlorophenol	140	140	U

Weight (g): 60.6

%Moisture: 39

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP2(SIM)	
STATION LOCATION		G-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.7	3.0	*
2-Methylnaphthalene	2.7	3.0	*
Acenaphthylene	2.7	7.7	*
Acenaphthene	2.7	2.7	U *
Fluorene	2.7	2.7	U *
Pentachlorophenol	5.4	5.4	UJ
Phenanthrene	2.7	7.0	*
Anthracene	2.7	7.3	*
Fluoranthene	2.7	15	*
Pyrene	2.7	16	*
Benzo(a)anthracene	2.7	10	*
Chrysene	2.7	15	*
Benzo(b)fluoranthene	2.7	16	*
Benzo(k)fluoranthene	2.7	5.3	*
Benzo(a)pyrene	2.7	15	*
Indeno(1,2,3-cd)pyrene	2.7	11	*
Dibenzo(a,h)anthracene	2.7	3.9	*
Benzo(g,h,i)perylene	2.7	14	*

Weight (g) : 60.6

%Moisture : 39

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP3	
STATION LOCATION		F-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	140	140	U
Phenol	140	140	U
Bis(2-chloroethyl)ether	140	140	U
2-Chlorophenol	140	140	U
2-Methylphenol	140	140	U
2,2'-Oxybis(1-chloropropane)	140	140	U
Acetophenone	140	140	U
4-Methylphenol	140	140	U
N-Nitroso-di-n-propylamine	140	140	U
Hexachloroethane	140	140	U
Nitrobenzene	140	140	U
Isophorone	140	140	U
2-Nitrophenol	140	140	U
2,4-Dimethylphenol	140	140	U
Bis(2-chloroethoxy)methane	140	140	U
2,4-Dichlorophenol	140	140	U
Naphthalene	140	140	U
4-Chloroaniline	140	140	U
Hexachlorobutadiene	140	140	U
Caprolactam	140	140	U
4-Chloro-3-methylphenol	140	140	U
2-Methylnaphthalene	140	140	U
Hexachlorocyclopentadiene	140	140	U
2,4,6-Trichlorophenol	140	140	U
2,4,5-Trichlorophenol	140	140	U
1,1'-Biphenyl	140	140	U
2-Chloronaphthalene	140	140	U
2-Nitroaniline	270	270	U
Dimethylphthalate	140	140	U
2,6-Dinitrotoluene	140	140	U
Acenaphthylene	140	140	U
3-Nitroaniline	270	270	U
Acenaphthene	140	140	U
2,4-Dinitrophenol	270	270	U
4-Nitrophenol	270	270	U
Dibenzofuran	140	140	U
2,4-Dinitrotoluene	140	140	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP3	
STATION LOCATION		F-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	140	140	U
Fluorene	140	140	U
4-Chlorophenyl-phenylether	140	140	U
4-Nitroaniline	270	270	U
4,6-Dinitro-2-methylphenol	270	270	U
N-Nitrosodiphenylamine	140	140	U
1,2,4,5-Tetrachlorobenzene	140	140	U
4-Bromophenyl-phenylether	140	140	U
Hexachlorobenzene	140	140	U
Atrazine	140	140	U
Pentachlorophenol	270	270	U *
Phenanthrene	140	140	U
Anthracene	140	140	U
Carbazole	140	140	U
Di-n-butylphthalate	140	140	U
Fluoranthene	140	140	U
Pyrene	140	140	U
Butylbenzylphthalate	140	140	U
3,3'-Dichlorobenzidine	140	140	U
Benzo(a)anthracene	140	140	U
Chrysene	140	140	U
Bis(2-ethylhexyl)phthalate	140	140	U
Di-n-octylphthalate	140	140	U
Benzo(b)fluoranthene	140	140	U
Benzo(k)fluoranthene	140	140	U
Benzo(a)pyrene	140	140	U
Indeno(1,2,3-cd)pyrene	140	140	U
Dibenzo(a,h)anthracene	140	140	U
Benzo(g,h,i)perylene	140	140	U
2,3,4,6-Tetrachlorophenol	140	140	U

Weight (g) : 60.8

%Moisture : 40

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP3(SIM)	
STATION LOCATION		F-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.7	2.7	U *
2-Methylnaphthalene	2.7	2.7	U *
Acenaphthylene	2.7	2.7	U *
Acenaphthene	2.7	2.7	U *
Fluorene	2.7	2.7	U *
Pentachlorophenol	5.5	5.5	UJ
Phenanthrene	2.7	2.7	U *
Anthracene	2.7	2.7	U *
Fluoranthene	2.7	2.7	U *
Pyrene	2.7	2.7	U *
Benzo(a)anthracene	2.7	2.7	U *
Chrysene	2.7	2.7	U *
Benzo(b)fluoranthene	2.7	2.7	U *
Benzo(k)fluoranthene	2.7	2.7	U *
Benzo(a)pyrene	2.7	2.7	U *
Indeno(1,2,3-cd)pyrene	2.7	2.7	U *
Dibenzo(a,h)anthracene	2.7	2.7	U *
Benzo(g,h,i)perylene	2.7	2.9	*

Weight (g): 60.8

%Moisture: 40

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP4	
STATION LOCATION		F-SD5-1 D	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	130	130	U
Phenol	130	130	U
Bis(2-chloroethyl)ether	130	130	U
2-Chlorophenol	130	130	U
2-Methylphenol	130	130	U
2,2'-Oxybis(1-chloropropane)	130	130	U
Acetophenone	130	130	U
4-Methylphenol	130	130	U
N-Nitroso-di-n-propylamine	130	130	U
Hexachloroethane	130	130	U
Nitrobenzene	130	130	U
Isophorone	130	130	U
2-Nitrophenol	130	130	U
2,4-Dimethylphenol	130	130	U
Bis(2-chloroethoxy)methane	130	130	U
2,4-Dichlorophenol	130	130	U
Naphthalene	130	130	U
4-Chloroaniline	130	130	U
Hexachlorobutadiene	130	130	U
Caprolactam	130	130	U
4-Chloro-3-methylphenol	130	130	U
2-Methylnaphthalene	130	130	U
Hexachlorocyclopentadiene	130	130	U
2,4,6-Trichlorophenol	130	130	U
2,4,5-Trichlorophenol	130	130	U
1,1'-Biphenyl	130	130	U
2-Chloronaphthalene	130	130	U
2-Nitroaniline	260	260	U
Dimethylphthalate	130	130	U
2,6-Dinitrotoluene	130	130	U
Acenaphthylene	130	130	U
3-Nitroaniline	260	260	U
Acenaphthene	130	130	U
2,4-Dinitrophenol	260	260	U
4-Nitrophenol	260	260	U
Dibenzofuran	130	130	U
2,4-Dinitrotoluene	130	130	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP4	
STATION LOCATION		F-SD5-1 D	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	130	130	U
Fluorene	130	130	U
4-Chlorophenyl-phenylether	130	130	U
4-Nitroaniline	260	260	U
4,6-Dinitro-2-methylphenol	260	260	U
N-Nitrosodiphenylamine	130	130	U
1,2,4,5-Tetrachlorobenzene	130	130	U
4-Bromophenyl-phenylether	130	130	U
Hexachlorobenzene	130	130	U
Atrazine	130	130	U
Pentachlorophenol	260	260	U *
Phenanthrene	130	130	U
Anthracene	130	130	U
Carbazole	130	130	U
Di-n-butylphthalate	130	130	U
Fluoranthene	130	130	U
Pyrene	130	130	U
Butylbenzylphthalate	130	130	U
3,3'-Dichlorobenzidine	130	130	U
Benzo(a)anthracene	130	130	U
Chrysene	130	130	U
Bis(2-ethylhexyl)phthalate	130	130	U
Di-n-octylphthalate	130	130	U
Benzo(b)fluoranthene	130	130	U
Benzo(k)fluoranthene	130	130	U
Benzo(a)pyrene	130	130	U
Indeno(1,2,3-cd)pyrene	130	130	U
Dibenzo(a,h)anthracene	130	130	U
Benzo(g,h,i)perylene	130	130	U
2,3,4,6-Tetrachlorophenol	130	130	U

Weight (g): 60.3

%Moisture: 37

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP4(SIM)	
STATION LOCATION		F-SD5-1 D	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.6	2.6	U *
2-Methylnaphthalene	2.6	2.6	U *
Acenaphthylene	2.6	2.6	U *
Acenaphthene	2.6	2.6	U *
Fluorene	2.6	2.6	U *
Pentachlorophenol	5.3	5.3	UJ
Phenanthrene	2.6	2.6	U *
Anthracene	2.6	2.6	U *
Fluoranthene	2.6	2.6	U *
Pyrene	2.6	2.6	U *
Benzo(a)anthracene	2.6	2.6	U *
Chrysene	2.6	2.6	U *
Benzo(b)fluoranthene	2.6	2.6	U *
Benzo(k)fluoranthene	2.6	2.6	U *
Benzo(a)pyrene	2.6	2.6	U *
Indeno(1,2,3-cd)pyrene	2.6	2.6	U *
Dibenzo(a,h)anthracene	2.6	2.6	U *
Benzo(g,h,i)perylene	2.6	2.7	*

Weight (g) : 60.3

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP5	
STATION LOCATION		P-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	130	130	U
Phenol	130	130	U
Bis(2-chloroethyl)ether	130	130	U
2-Chlorophenol	130	130	U
2-Methylphenol	130	130	U
2,2'-Oxybis(1-chloropropane)	130	130	U
Acetophenone	130	130	U
4-Methylphenol	130	130	U
N-Nitroso-di-n-propylamine	130	130	U
Hexachloroethane	130	130	U
Nitrobenzene	130	130	U
Isophorone	130	130	U
2-Nitrophenol	130	130	U
2,4-Dimethylphenol	130	130	U
Bis(2-chloroethoxy)methane	130	130	U
2,4-Dichlorophenol	130	130	U
Naphthalene	130	130	U
4-Chloroaniline	130	130	U
Hexachlorobutadiene	130	130	U
Caprolactam	130	130	U
4-Chloro-3-methylphenol	130	130	U
2-Methylnaphthalene	130	130	U
Hexachlorocyclopentadiene	130	130	U
2,4,6-Trichlorophenol	130	130	U
2,4,5-Trichlorophenol	130	130	U
1,1'-Biphenyl	130	130	U
2-Chloronaphthalene	130	130	U
2-Nitroaniline	240	240	U
Dimethylphthalate	130	130	U
2,6-Dinitrotoluene	130	130	U
Acenaphthylene	130	130	U
3-Nitroaniline	240	240	U
Acenaphthene	130	130	U
2,4-Dinitrophenol	240	240	U
4-Nitrophenol	240	240	U
Dibenzofuran	130	130	U
2,4-Dinitrotoluene	130	130	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP5	
STATION LOCATION		P-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	130	130	U
Fluorene	130	130	U
4-Chlorophenyl-phenylether	130	130	U
4-Nitroaniline	240	240	U
4,6-Dinitro-2-methylphenol	240	240	U
N-Nitrosodiphenylamine	130	130	U
1,2,4,5-Tetrachlorobenzene	130	130	U
4-Bromophenyl-phenylether	130	130	U
Hexachlorobenzene	130	130	U
Atrazine	130	130	U
Pentachlorophenol	240	240	U *
Phenanthrene	130	130	U
Anthracene	130	130	U
Carbazole	130	130	U
Di-n-butylphthalate	130	69	LJ
Fluoranthene	130	81	LJ
Pyrene	130	65	LJ
Butylbenzylphthalate	130	130	U
3,3'-Dichlorobenzidine	130	130	U
Benzo(a)anthracene	130	130	U
Chrysene	130	130	U
Bis(2-ethylhexyl)phthalate	130	64	LJ
Di-n-octylphthalate	130	130	U
Benzo(b)fluoranthene	130	130	U
Benzo(k)fluoranthene	130	130	U
Benzo(a)pyrene	130	130	U
Indeno(1,2,3-cd)pyrene	130	130	U
Dibenzo(a,h)anthracene	130	130	U
Benzo(g,h,i)perylene	130	130	U
2,3,4,6-Tetrachlorophenol	130	130	U

Weight (g) : 60.7

%Moisture : 33

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP5(SIM)	
STATION LOCATION		P-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.4	2.4	U *
2-Methylnaphthalene	2.4	2.4	U *
Acenaphthylene	2.4	2.9	*
Acenaphthene	2.4	2.8	*
Fluorene	2.4	2.3	*
Pentachlorophenol	4.9	4.9	UJ
Phenanthrene	2.4	28	*
Anthracene	2.4	9.0	*
Fluoranthene	2.4	88	*
Pyrene	2.4	69	*
Benzo(a)anthracene	2.4	41	*
Chrysene	2.4	41	*
Benzo(b)fluoranthene	2.4	45	*
Benzo(k)fluoranthene	2.4	17	*
Benzo(a)pyrene	2.4	36	*
Indeno(1,2,3-cd)pyrene	2.4	29	*
Dibenzo(a,h)anthracene	2.4	7.8	*
Benzo(g,h,i)perylene	2.4	27	*

Weight (g): 60.7

%Moisture: 33

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP5DL(SIM)	
STATION LOCATION		P-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	12	12	U *
2-Methylnaphthalene	12	12	U *
Acenaphthylene	12	12	U *
Acenaphthene	12	12	U *
Fluorene	12	12	U *
Pentachlorophenol	25	25	U *
Phenanthrene	12	33	*
Anthracene	12	12	U *
Fluoranthene	12	99	*
Pyrene	12	79	*
Benzo(a)anthracene	12	45	*
Chrysene	12	48	*
Benzo(b)fluoranthene	12	44	*
Benzo(k)fluoranthene	12	19	*
Benzo(a)pyrene	12	36	*
Indeno(1,2,3-cd)pyrene	12	32	*
Dibenzo(a,h)anthracene	12	12	U *
Benzo(g,h,i)perylene	12	30	*

Weight (g) : 60.7

%Moisture : 33

Dilution Factor : 5

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP6	
STATION LOCATION		D-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	160	160	U
Phenol	160	160	U
Bis(2-chloroethyl)ether	160	160	U
2-Chlorophenol	160	160	U
2-Methylphenol	160	160	U
2,2'-Oxybis(1-chloropropane)	160	160	U
Acetophenone	160	160	U
4-Methylphenol	160	160	U
N-Nitroso-di-n-propylamine	160	160	U
Hexachloroethane	160	160	U
Nitrobenzene	160	160	U
Isophorone	160	160	U
2-Nitrophenol	160	160	U
2,4-Dimethylphenol	160	160	U
Bis(2-chloroethoxy)methane	160	160	U
2,4-Dichlorophenol	160	160	U
Naphthalene	160	160	U
4-Chloroaniline	160	160	U
Hexachlorobutadiene	160	160	U
Caprolactam	160	160	U
4-Chloro-3-methylphenol	160	160	U
2-Methylnaphthalene	160	160	U
Hexachlorocyclopentadiene	160	160	U
2,4,6-Trichlorophenol	160	160	U
2,4,5-Trichlorophenol	160	160	U
1,1'-Biphenyl	160	160	U
2-Chloronaphthalene	160	160	U
2-Nitroaniline	320	320	U
Dimethylphthalate	160	160	U
2,6-Dinitrotoluene	160	160	U
Acenaphthylene	160	160	U
3-Nitroaniline	320	320	U
Acenaphthene	160	160	U
2,4-Dinitrophenol	320	320	U
4-Nitrophenol	320	320	U
Dibenzofuran	160	160	U
2,4-Dinitrotoluene	160	160	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP6	
STATION LOCATION		D-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	160	160	U
Fluorene	160	160	U
4-Chlorophenyl-phenylether	160	160	U
4-Nitroaniline	320	320	U
4,6-Dinitro-2-methylphenol	320	320	U
N-Nitrosodiphenylamine	160	160	U
1,2,4,5-Tetrachlorobenzene	160	160	U
4-Bromophenyl-phenylether	160	160	U
Hexachlorobenzene	160	160	U
Atrazine	160	160	U
Pentachlorophenol	320	320	U *
Phenanthrene	160	160	U
Anthracene	160	160	U
Carbazole	160	160	U
Di-n-butylphthalate	160	79	LJ
Fluoranthene	160	160	U
Pyrene	160	160	U
Butylbenzylphthalate	160	160	U
3,3'-Dichlorobenzidine	160	160	U
Benzo(a)anthracene	160	160	U
Chrysene	160	160	U
Bis(2-ethylhexyl)phthalate	160	160	U
Di-n-octylphthalate	160	160	U
Benzo(b)fluoranthene	160	160	U
Benzo(k)fluoranthene	160	160	U
Benzo(a)pyrene	160	160	U
Indeno(1,2,3-cd)pyrene	160	160	U
Dibenzo(a,h)anthracene	160	160	U
Benzo(g,h,i)perylene	160	160	U
2,3,4,6-Tetrachlorophenol	160	160	U

Weight (g) : 60.8

%Moisture : 49

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP6(SIM)	
STATION LOCATION		D-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.2	3.2	U *
2-Methylnaphthalene	3.2	3.2	U *
Acenaphthylene	3.2	3.2	U *
Acenaphthene	3.2	3.2	U *
Fluorene	3.2	3.2	U *
Pentachlorophenol	6.5	6.5	UJ
Phenanthrene	3.2	3.2	U *
Anthracene	3.2	3.2	U *
Fluoranthene	3.2	3.2	U *
Pyrene	3.2	3.2	U *
Benzo(a)anthracene	3.2	3.2	U *
Chrysene	3.2	3.2	U *
Benzo(b)fluoranthene	3.2	3.2	U *
Benzo(k)fluoranthene	3.2	3.2	U *
Benzo(a)pyrene	3.2	3.2	U *
Indeno(1,2,3-cd)pyrene	3.2	2.9	*
Dibenzo(a,h)anthracene	3.2	3.2	U *
Benzo(g,h,i)perylene	3.2	5.1	*

Weight (g) : 60.8

%Moisture : 49

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP7	
STATION LOCATION		C-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	160	160	U
Phenol	160	160	U
Bis(2-chloroethyl)ether	160	160	U
2-Chlorophenol	160	160	U
2-Methylphenol	160	160	U
2,2'-Oxybis(1-chloropropane)	160	160	U
Acetophenone	160	160	U
4-Methylphenol	160	160	U
N-Nitroso-di-n-propylamine	160	160	U
Hexachloroethane	160	160	U
Nitrobenzene	160	160	U
Isophorone	160	160	U
2-Nitrophenol	160	160	U
2,4-Dimethylphenol	160	160	U
Bis(2-chloroethoxy)methane	160	160	U
2,4-Dichlorophenol	160	160	U
Naphthalene	160	160	U
4-Chloroaniline	160	160	U
Hexachlorobutadiene	160	160	U
Caprolactam	160	160	U
4-Chloro-3-methylphenol	160	160	U
2-Methylnaphthalene	160	160	U
Hexachlorocyclopentadiene	160	160	U
2,4,6-Trichlorophenol	160	160	U
2,4,5-Trichlorophenol	160	160	U
1,1'-Biphenyl	160	160	U
2-Chloronaphthalene	160	160	U
2-Nitroaniline	310	310	U
Dimethylphthalate	160	160	U
2,6-Dinitrotoluene	160	160	U
Acenaphthylene	160	160	U
3-Nitroaniline	310	310	U
Acenaphthene	160	160	U
2,4-Dinitrophenol	310	310	U
4-Nitrophenol	310	310	U
Dibenzofuran	160	160	U
2,4-Dinitrotoluene	160	160	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP7	
STATION LOCATION		C-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	160	160	U
Fluorene	160	160	U
4-Chlorophenyl-phenylether	160	160	U
4-Nitroaniline	310	310	U
4,6-Dinitro-2-methylphenol	310	310	U
N-Nitrosodiphenylamine	160	160	U
1,2,4,5-Tetrachlorobenzene	160	160	U
4-Bromophenyl-phenylether	160	160	U
Hexachlorobenzene	160	160	U
Atrazine	160	160	U
Pentachlorophenol	310	310	U *
Phenanthrene	160	160	U
Anthracene	160	160	U
Carbazole	160	160	U
Di-n-butylphthalate	160	160	U
Fluoranthene	160	160	U
Pyrene	160	160	U
Butylbenzylphthalate	160	160	U
3,3'-Dichlorobenzidine	160	160	U
Benzo(a)anthracene	160	160	U
Chrysene	160	160	U
Bis(2-ethylhexyl)phthalate	160	160	U
Di-n-octylphthalate	160	160	U
Benzo(b)fluoranthene	160	160	U
Benzo(k)fluoranthene	160	160	U
Benzo(a)pyrene	160	160	U
Indeno(1,2,3-cd)pyrene	160	160	U
Dibenzo(a,h)anthracene	160	160	U
Benzo(g,h,i)perylene	160	160	U
2,3,4,6-Tetrachlorophenol	160	160	U

Weight (g): 60.1

%Moisture: 46

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP7(SIM)	
STATION LOCATION		C-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.1	3.1	U *
2-Methylnaphthalene	3.1	3.1	U *
Acenaphthylene	3.1	3.1	U *
Acenaphthene	3.1	3.1	U *
Fluorene	3.1	3.1	U *
Pentachlorophenol	6.2	6.2	UJ
Phenanthrene	3.1	3.1	U *
Anthracene	3.1	3.1	U *
Fluoranthene	3.1	3.1	U *
Pyrene	3.1	3.1	U *
Benzo(a)anthracene	3.1	3.1	U *
Chrysene	3.1	3.1	U *
Benzo(b)fluoranthene	3.1	3.1	U *
Benzo(k)fluoranthene	3.1	3.1	U *
Benzo(a)pyrene	3.1	3.1	U *
Indeno(1,2,3-cd)pyrene	3.1	3.1	U *
Dibenzo(a,h)anthracene	3.1	3.1	U *
Benzo(g,h,i)perylene	3.1	3.1	U *

Weight (g) : 60.1

%Moisture : 46

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP8	
STATION LOCATION		B-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	150	150	U
Phenol	150	150	U
Bis(2-chloroethyl)ether	150	150	U
2-Chlorophenol	150	150	U
2-Methylphenol	150	150	U
2,2'-Oxybis(1-chloropropane)	150	150	U
Acetophenone	150	150	U
4-Methylphenol	150	150	U
N-Nitroso-di-n-propylamine	150	150	U
Hexachloroethane	150	150	U
Nitrobenzene	150	150	U
Isophorone	150	150	U
2-Nitrophenol	150	150	U
2,4-Dimethylphenol	150	150	U
Bis(2-chloroethoxy)methane	150	150	U
2,4-Dichlorophenol	150	150	U
Naphthalene	150	150	U
4-Chloroaniline	150	150	U
Hexachlorobutadiene	150	150	U
Caprolactam	150	150	U
4-Chloro-3-methylphenol	150	150	U
2-Methylnaphthalene	150	150	U
Hexachlorocyclopentadiene	150	150	U
2,4,6-Trichlorophenol	150	150	U
2,4,5-Trichlorophenol	150	150	U
1,1'-Biphenyl	150	150	U
2-Chloronaphthalene	150	150	U
2-Nitroaniline	290	290	U
Dimethylphthalate	150	150	U
2,6-Dinitrotoluene	150	150	U
Acenaphthylene	150	150	U
3-Nitroaniline	290	290	U
Acenaphthene	150	150	U
2,4-Dinitrophenol	290	290	U
4-Nitrophenol	290	290	U
Dibenzofuran	150	150	U
2,4-Dinitrotoluene	150	150	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP8	
STATION LOCATION		B-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	150	150	U
Fluorene	150	150	U
4-Chlorophenyl-phenylether	150	150	U
4-Nitroaniline	290	290	U
4,6-Dinitro-2-methylphenol	290	290	U
N-Nitrosodiphenylamine	150	150	U
1,2,4,5-Tetrachlorobenzene	150	150	U
4-Bromophenyl-phenylether	150	150	U
Hexachlorobenzene	150	150	U
Atrazine	150	150	U
Pentachlorophenol	290	290	U *
Phenanthrene	150	150	U
Anthracene	150	150	U
Carbazole	150	150	U
Di-n-butylphthalate	150	150	U
Fluoranthene	150	150	U
Pyrene	150	150	U
Butylbenzylphthalate	150	150	U
3,3'-Dichlorobenzidine	150	150	U
Benzo(a)anthracene	150	150	U
Chrysene	150	150	U
Bis(2-ethylhexyl)phthalate	150	150	U
Di-n-octylphthalate	150	150	U
Benzo(b)fluoranthene	150	150	U
Benzo(k)fluoranthene	150	150	U
Benzo(a)pyrene	150	150	U
Indeno(1,2,3-cd)pyrene	150	150	U
Dibenzo(a,h)anthracene	150	150	U
Benzo(g,h,i)perylene	150	150	U
2,3,4,6-Tetrachlorophenol	150	150	U

Weight (g) : 60.8

%Moisture : 44

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP8(SIM)	
STATION LOCATION		B-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.9	2.9	U *
2-Methylnaphthalene	2.9	2.9	U *
Acenaphthylene	2.9	2.9	U *
Acenaphthene	2.9	2.9	U *
Fluorene	2.9	2.9	U *
Pentachlorophenol	5.9	5.9	UJ
Phenanthrene	2.9	4.9	*
Anthracene	2.9	3.1	*
Fluoranthene	2.9	14	*
Pyrene	2.9	14	*
Benzo(a)anthracene	2.9	8.3	*
Chrysene	2.9	9.3	*
Benzo(b)fluoranthene	2.9	8.8	*
Benzo(k)fluoranthene	2.9	3.3	*
Benzo(a)pyrene	2.9	7.4	*
Indeno(1,2,3-cd)pyrene	2.9	5.7	*
Dibenzo(a,h)anthracene	2.9	2.9	U *
Benzo(g,h,i)perylene	2.9	6.6	*

Weight (g): 60.8

%Moisture: 44

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP9	
STATION LOCATION		K-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	140	140	U
Phenol	140	140	U
Bis(2-chloroethyl)ether	140	140	U
2-Chlorophenol	140	140	U
2-Methylphenol	140	140	U
2,2'-Oxybis(1-chloropropane)	140	140	U
Acetophenone	140	140	U
4-Methylphenol	140	140	U
N-Nitroso-di-n-propylamine	140	140	U
Hexachloroethane	140	140	U
Nitrobenzene	140	140	U
Isophorone	140	140	U
2-Nitrophenol	140	140	U
2,4-Dimethylphenol	140	140	U
Bis(2-chloroethoxy)methane	140	140	U
2,4-Dichlorophenol	140	140	U
Naphthalene	140	140	U
4-Chloroaniline	140	140	U
Hexachlorobutadiene	140	140	U
Caprolactam	140	140	U
4-Chloro-3-methylphenol	140	140	U
2-Methylnaphthalene	140	140	U
Hexachlorocyclopentadiene	140	140	U
2,4,6-Trichlorophenol	140	140	U
2,4,5-Trichlorophenol	140	140	U
1,1'-Biphenyl	140	140	U
2-Chloronaphthalene	140	140	U
2-Nitroaniline	270	270	U
Dimethylphthalate	140	140	U
2,6-Dinitrotoluene	140	140	U
Acenaphthylene	140	140	U
3-Nitroaniline	270	270	U
Acenaphthene	140	140	U
2,4-Dinitrophenol	270	270	U
4-Nitrophenol	270	270	U
Dibenzofuran	140	140	U
2,4-Dinitrotoluene	140	140	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP9	
STATION LOCATION		K-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	140	140	U
Fluorene	140	140	U
4-Chlorophenyl-phenylether	140	140	U
4-Nitroaniline	270	270	U
4,6-Dinitro-2-methylphenol	270	270	U
N-Nitrosodiphenylamine	140	140	U
1,2,4,5-Tetrachlorobenzene	140	140	U
4-Bromophenyl-phenylether	140	140	U
Hexachlorobenzene	140	140	U
Atrazine	140	140	U
Pentachlorophenol	270	270	U *
Phenanthrene	140	140	U
Anthracene	140	140	U
Carbazole	140	140	U
Di-n-butylphthalate	140	140	U
Fluoranthene	140	140	U
Pyrene	140	140	U
Butylbenzylphthalate	140	140	U
3,3'-Dichlorobenzidine	140	140	U
Benzo(a)anthracene	140	140	U
Chrysene	140	140	U
Bis(2-ethylhexyl)phthalate	140	140	U
Di-n-octylphthalate	140	140	U
Benzo(b)fluoranthene	140	140	U
Benzo(k)fluoranthene	140	140	U
Benzo(a)pyrene	140	140	U
Indeno(1,2,3-cd)pyrene	140	140	U
Dibenzo(a,h)anthracene	140	140	U
Benzo(g,h,i)perylene	140	140	U
2,3,4,6-Tetrachlorophenol	140	140	U

Weight (g): 60.3

%Moisture: 40

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP9(SIM)	
STATION LOCATION		K-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.7	2.6	*
2-Methylnaphthalene	2.7	2.7	U *
Acenaphthylene	2.7	3.3	*
Acenaphthene	2.7	2.7	U *
Fluorene	2.7	2.7	U *
Pentachlorophenol	5.6	5.6	U
Phenanthrene	2.7	2.7	U *
Anthracene	2.7	2.9	*
Fluoranthene	2.7	11	*
Pyrene	2.7	19	*
Benzo(a)anthracene	2.7	10	*
Chrysene	2.7	13	*
Benzo(b)fluoranthene	2.7	11	*
Benzo(k)fluoranthene	2.7	4.6	*
Benzo(a)pyrene	2.7	12	*
Indeno(1,2,3-cd)pyrene	2.7	7.4	*
Dibenzo(a,h)anthracene	2.7	3.1	*
Benzo(g,h,i)perylene	2.7	10	*

Weight (g) : 60.3

%Moisture : 40

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ0	
STATION LOCATION		Q-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	140	140	U
Phenol	140	140	U
Bis(2-chloroethyl)ether	140	140	U
2-Chlorophenol	140	140	U
2-Methylphenol	140	140	U
2,2'-Oxybis(1-chloropropane)	140	140	U
Acetophenone	140	140	U
4-Methylphenol	140	140	U
N-Nitroso-di-n-propylamine	140	140	U
Hexachloroethane	140	140	U
Nitrobenzene	140	140	U
Isophorone	140	140	U
2-Nitrophenol	140	140	U
2,4-Dimethylphenol	140	140	U
Bis(2-chloroethoxy)methane	140	140	U
2,4-Dichlorophenol	140	140	U
Naphthalene	140	140	U
4-Chloroaniline	140	140	U
Hexachlorobutadiene	140	140	U
Caprolactam	140	140	U
4-Chloro-3-methylphenol	140	140	U
2-Methylnaphthalene	140	140	U
Hexachlorocyclopentadiene	140	140	U
2,4,6-Trichlorophenol	140	140	U
2,4,5-Trichlorophenol	140	140	U
1,1'-Biphenyl	140	140	U
2-Chloronaphthalene	140	140	U
2-Nitroaniline	270	270	U
Dimethylphthalate	140	140	U
2,6-Dinitrotoluene	140	140	U
Acenaphthylene	140	140	U
3-Nitroaniline	270	270	U
Acenaphthene	140	140	U
2,4-Dinitrophenol	270	270	U
4-Nitrophenol	270	270	U
Dibenzofuran	140	140	U
2,4-Dinitrotoluene	140	140	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ0	
STATION LOCATION		Q-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	140	140	U
Fluorene	140	140	U
4-Chlorophenyl-phenylether	140	140	U
4-Nitroaniline	270	270	U
4,6-Dinitro-2-methylphenol	270	270	U
N-Nitrosodiphenylamine	140	140	U
1,2,4,5-Tetrachlorobenzene	140	140	U
4-Bromophenyl-phenylether	140	140	U
Hexachlorobenzene	140	140	U
Atrazine	140	140	U
Pentachlorophenol	270	270	U *
Phenanthrene	140	140	U
Anthracene	140	140	U
Carbazole	140	140	U
Di-n-butylphthalate	140	140	U
Fluoranthene	140	140	U
Pyrene	140	140	U
Butylbenzylphthalate	140	140	U
3,3'-Dichlorobenzidine	140	140	U
Benzo(a)anthracene	140	140	U
Chrysene	140	140	U
Bis(2-ethylhexyl)phthalate	140	140	U
Di-n-octylphthalate	140	140	U
Benzo(b)fluoranthene	140	140	U
Benzo(k)fluoranthene	140	140	U
Benzo(a)pyrene	140	140	U
Indeno(1,2,3-cd)pyrene	140	140	U
Dibenzo(a,h)anthracene	140	140	U
Benzo(g,h,i)perylene	140	140	U
2,3,4,6-Tetrachlorophenol	140	140	U

Weight (g) : 80.6

%Moisture : 55

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ0(SIM)	
STATION LOCATION		Q-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.7	2.7	*
2-Methylnaphthalene	2.7	2.7	U *
Acenaphthylene	2.7	2.7	U *
Acenaphthene	2.7	2.7	U *
Fluorene	2.7	2.5	*
Pentachlorophenol	5.5	5.5	U
Phenanthrene	2.7	8.6	*
Anthracene	2.7	2.7	U *
Fluoranthene	2.7	16	*
Pyrene	2.7	13	*
Benzo(a)anthracene	2.7	6.0	*
Chrysene	2.7	7.5	*
Benzo(b)fluoranthene	2.7	8.7	*
Benzo(k)fluoranthene	2.7	3.1	*
Benzo(a)pyrene	2.7	7.0	*
Indeno(1,2,3-cd)pyrene	2.7	6.2	*
Dibenzo(a,h)anthracene	2.7	2.7	U *
Benzo(g,h,i)perylene	2.7	8.9	*

Weight (g): 80.6

%Moisture: 55

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ1	
STATION LOCATION		M-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	150	150	U
Phenol	150	150	U
Bis(2-chloroethyl)ether	150	150	U
2-Chlorophenol	150	150	U
2-Methylphenol	150	150	U
2,2'-Oxybis(1-chloropropane)	150	150	U
Acetophenone	150	150	U
4-Methylphenol	150	150	U
N-Nitroso-di-n-propylamine	150	150	U
Hexachloroethane	150	150	U
Nitrobenzene	150	150	U
Isophorone	150	150	U
2-Nitrophenol	150	150	U
2,4-Dimethylphenol	150	150	U
Bis(2-chloroethoxy)methane	150	150	U
2,4-Dichlorophenol	150	150	U
Naphthalene	150	150	U
4-Chloroaniline	150	150	U
Hexachlorobutadiene	150	150	U
Caprolactam	150	150	U
4-Chloro-3-methylphenol	150	150	U
2-Methylnaphthalene	150	150	U
Hexachlorocyclopentadiene	150	150	U
2,4,6-Trichlorophenol	150	150	U
2,4,5-Trichlorophenol	150	150	U
1,1'-Biphenyl	150	150	U
2-Chloronaphthalene	150	150	U
2-Nitroaniline	300	300	U
Dimethylphthalate	150	150	U
2,6-Dinitrotoluene	150	150	U
Acenaphthylene	150	150	U
3-Nitroaniline	300	300	U
Acenaphthene	150	150	U
2,4-Dinitrophenol	300	300	U
4-Nitrophenol	300	300	U
Dibenzofuran	150	150	U
2,4-Dinitrotoluene	150	150	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ1	
STATION LOCATION		M-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	150	150	U
Fluorene	150	150	U
4-Chlorophenyl-phenylether	150	150	U
4-Nitroaniline	300	300	U
4,6-Dinitro-2-methylphenol	300	300	U
N-Nitrosodiphenylamine	150	150	U
1,2,4,5-Tetrachlorobenzene	150	150	U
4-Bromophenyl-phenylether	150	150	U
Hexachlorobenzene	150	150	U
Atrazine	150	150	U
Pentachlorophenol	300	300	U *
Phenanthrene	150	150	U
Anthracene	150	150	U
Carbazole	150	150	U
Di-n-butylphthalate	150	65	LJ
Fluoranthene	150	150	U
Pyrene	150	150	U
Butylbenzylphthalate	150	150	U
3,3'-Dichlorobenzidine	150	150	U
Benzo(a)anthracene	150	150	U
Chrysene	150	150	U
Bis(2-ethylhexyl)phthalate	150	150	U
Di-n-octylphthalate	150	150	U
Benzo(b)fluoranthene	150	150	U
Benzo(k)fluoranthene	150	150	U
Benzo(a)pyrene	150	150	U
Indeno(1,2,3-cd)pyrene	150	150	U
Dibenzo(a,h)anthracene	150	150	U
Benzo(g,h,i)perylene	150	150	U
2,3,4,6-Tetrachlorophenol	150	150	U

Weight (g):	80.3
%Moisture:	59
Dilution Factor:	1
Number of TIC's:	3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ1(SIM)	
STATION LOCATION		M-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.0	3.0	*
2-Methylnaphthalene	3.0	3.0	U *
Acenaphthylene	3.0	3.0	U *
Acenaphthene	3.0	3.0	U *
Fluorene	3.0	3.0	U *
Pentachlorophenol	6.1	6.1	U
Phenanthrene	3.0	3.0	U *
Anthracene	3.0	3.0	U *
Fluoranthene	3.0	3.2	*
Pyrene	3.0	3.7	*
Benzo(a)anthracene	3.0	3.0	U *
Chrysene	3.0	3.3	*
Benzo(b)fluoranthene	3.0	3.9	*
Benzo(k)fluoranthene	3.0	3.0	U *
Benzo(a)pyrene	3.0	3.2	*
Indeno(1,2,3-cd)pyrene	3.0	3.4	*
Dibenzo(a,h)anthracene	3.0	3.0	U *
Benzo(g,h,i)perylene	3.0	5.4	*

Weight (g) : 80.3

%Moisture : 59

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ2	
STATION LOCATION		O-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	140	140	U
Phenol	140	140	U
Bis(2-chloroethyl)ether	140	140	U
2-Chlorophenol	140	140	U
2-Methylphenol	140	140	U
2,2'-Oxybis(1-chloropropane)	140	140	U
Acetophenone	140	140	U
4-Methylphenol	140	140	U
N-Nitroso-di-n-propylamine	140	140	U
Hexachloroethane	140	140	U
Nitrobenzene	140	140	U
Isophorone	140	140	U
2-Nitrophenol	140	140	U
2,4-Dimethylphenol	140	140	U
Bis(2-chloroethoxy)methane	140	140	U
2,4-Dichlorophenol	140	140	U
Naphthalene	140	140	U
4-Chloroaniline	140	140	U
Hexachlorobutadiene	140	140	U
Caprolactam	140	140	U
4-Chloro-3-methylphenol	140	140	U
2-Methylnaphthalene	140	140	U
Hexachlorocyclopentadiene	140	140	U
2,4,6-Trichlorophenol	140	140	U
2,4,5-Trichlorophenol	140	140	U
1,1'-Biphenyl	140	140	U
2-Chloronaphthalene	140	140	U
2-Nitroaniline	280	280	U
Dimethylphthalate	140	140	U
2,6-Dinitrotoluene	140	140	U
Acenaphthylene	140	140	U
3-Nitroaniline	280	280	U
Acenaphthene	140	140	U
2,4-Dinitrophenol	280	280	U
4-Nitrophenol	280	280	U
Dibenzofuran	140	140	U
2,4-Dinitrotoluene	140	140	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ2	
STATION LOCATION		O-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	140	140	U
Fluorene	140	140	U
4-Chlorophenyl-phenylether	140	140	U
4-Nitroaniline	280	280	U
4,6-Dinitro-2-methylphenol	280	280	U
N-Nitrosodiphenylamine	140	140	U
1,2,4,5-Tetrachlorobenzene	140	140	U
4-Bromophenyl-phenylether	140	140	U
Hexachlorobenzene	140	140	U
Atrazine	140	140	U
Pentachlorophenol	280	280	U *
Phenanthrene	140	140	U
Anthracene	140	140	U
Carbazole	140	140	U
Di-n-butylphthalate	140	140	U
Fluoranthene	140	140	U
Pyrene	140	140	U
Butylbenzylphthalate	140	140	U
3,3'-Dichlorobenzidine	140	140	U
Benzo(a)anthracene	140	140	U
Chrysene	140	140	U
Bis(2-ethylhexyl)phthalate	140	66	LJ
Di-n-octylphthalate	140	140	U
Benzo(b)fluoranthene	140	140	U
Benzo(k)fluoranthene	140	140	U
Benzo(a)pyrene	140	140	U
Indeno(1,2,3-cd)pyrene	140	140	U
Dibenzo(a,h)anthracene	140	140	U
Benzo(g,h,i)perylene	140	140	U
2,3,4,6-Tetrachlorophenol	140	140	U

Weight (g) : 60.7

%Moisture : 42

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ2(SIM)	
STATION LOCATION		O-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.8	3.2	*
2-Methylnaphthalene	2.8	3.7	*
Acenaphthylene	2.8	5.2	*
Acenaphthene	2.8	2.8	U *
Fluorene	2.8	2.8	U *
Pentachlorophenol	5.7	5.7	U
Phenanthrene	2.8	5.2	*
Anthracene	2.8	4.2	*
Fluoranthene	2.8	11	*
Pyrene	2.8	13	*
Benzo(a)anthracene	2.8	9.6	*
Chrysene	2.8	13	*
Benzo(b)fluoranthene	2.8	13	*
Benzo(k)fluoranthene	2.8	4.1	*
Benzo(a)pyrene	2.8	13	*
Indeno(1,2,3-cd)pyrene	2.8	9.0	*
Dibenzo(a,h)anthracene	2.8	3.6	*
Benzo(g,h,i)perylene	2.8	13	*

Weight (g) : 60.7

%Moisture : 42

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ3	
STATION LOCATION		A-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	160	160	U
Phenol	160	160	U
Bis(2-chloroethyl)ether	160	160	U
2-Chlorophenol	160	160	U
2-Methylphenol	160	160	U
2,2'-Oxybis(1-chloropropane)	160	160	U
Acetophenone	160	160	U
4-Methylphenol	160	160	U
N-Nitroso-di-n-propylamine	160	160	U
Hexachloroethane	160	160	U
Nitrobenzene	160	160	U
Isophorone	160	160	U
2-Nitrophenol	160	160	U
2,4-Dimethylphenol	160	160	U
Bis(2-chloroethoxy)methane	160	160	U
2,4-Dichlorophenol	160	160	U
Naphthalene	160	160	U
4-Chloroaniline	160	160	U
Hexachlorobutadiene	160	160	U
Caprolactam	160	160	U
4-Chloro-3-methylphenol	160	160	U
2-Methylnaphthalene	160	160	U
Hexachlorocyclopentadiene	160	160	U
2,4,6-Trichlorophenol	160	160	U
2,4,5-Trichlorophenol	160	160	U
1,1'-Biphenyl	160	160	U
2-Chloronaphthalene	160	160	U
2-Nitroaniline	310	310	U
Dimethylphthalate	160	160	U
2,6-Dinitrotoluene	160	160	U
Acenaphthylene	160	160	U
3-Nitroaniline	310	310	U
Acenaphthene	160	160	U
2,4-Dinitrophenol	310	310	U
4-Nitrophenol	310	310	U
Dibenzofuran	160	160	U
2,4-Dinitrotoluene	160	160	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ3	
STATION LOCATION		A-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	160	160	U
Fluorene	160	160	U
4-Chlorophenyl-phenylether	160	160	U
4-Nitroaniline	310	310	U
4,6-Dinitro-2-methylphenol	310	310	U
N-Nitrosodiphenylamine	160	160	U
1,2,4,5-Tetrachlorobenzene	160	160	U
4-Bromophenyl-phenylether	160	160	U
Hexachlorobenzene	160	160	U
Atrazine	160	160	U
Pentachlorophenol	310	310	U *
Phenanthrene	160	160	U
Anthracene	160	160	U
Carbazole	160	160	U
Di-n-butylphthalate	160	160	U
Fluoranthene	160	160	U
Pyrene	160	160	U
Butylbenzylphthalate	160	160	U
3,3'-Dichlorobenzidine	160	160	U
Benzo(a)anthracene	160	160	U
Chrysene	160	160	U
Bis(2-ethylhexyl)phthalate	160	150	LJ
Di-n-octylphthalate	160	160	U
Benzo(b)fluoranthene	160	160	U
Benzo(k)fluoranthene	160	160	U
Benzo(a)pyrene	160	160	U
Indeno(1,2,3-cd)pyrene	160	160	U
Dibenzo(a,h)anthracene	160	160	U
Benzo(g,h,i)perylene	160	160	U
2,3,4,6-Tetrachlorophenol	160	160	U

Weight (g): 60.4

%Moisture: 47

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ3(SIM)	
STATION LOCATION		A-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.1	4.5	*
2-Methylnaphthalene	3.1	4.4	*
Acenaphthylene	3.1	13	*
Acenaphthene	3.1	5.7	*
Fluorene	3.1	3.5	*
Pentachlorophenol	6.3	6.3	U
Phenanthrene	3.1	15	*
Anthracene	3.1	18	*
Fluoranthene	3.1	37	*
Pyrene	3.1	42	*
Benzo(a)anthracene	3.1	19	*
Chrysene	3.1	26	*
Benzo(b)fluoranthene	3.1	27	*
Benzo(k)fluoranthene	3.1	8.7	*
Benzo(a)pyrene	3.1	26	*
Indeno(1,2,3-cd)pyrene	3.1	18	*
Dibenzo(a,h)anthracene	3.1	7.6	*
Benzo(g,h,i)perylene	3.1	23	*

Weight (g) : 60.4

%Moisture : 47

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ3DL(SIM)	
STATION LOCATION		A-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	15	15	U *
2-Methylnaphthalene	15	15	U *
Acenaphthylene	15	15	*
Acenaphthene	15	15	U *
Fluorene	15	15	U *
Pentachlorophenol	31	31	U *
Phenanthrene	15	17	*
Anthracene	15	21	*
Fluoranthene	15	44	*
Pyrene	15	45	*
Benzo(a)anthracene	15	21	*
Chrysene	15	30	*
Benzo(b)fluoranthene	15	23	*
Benzo(k)fluoranthene	15	15	U *
Benzo(a)pyrene	15	21	*
Indeno(1,2,3-cd)pyrene	15	17	*
Dibenzo(a,h)anthracene	15	15	U *
Benzo(g,h,i)perylene	15	21	*

Weight (g): 60.4

%Moisture: 47

Dilution Factor: 5

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ4	
STATION LOCATION		A-SD5-1 D	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	160	160	U
Phenol	160	160	U
Bis(2-chloroethyl)ether	160	160	U
2-Chlorophenol	160	160	U
2-Methylphenol	160	160	U
2,2'-Oxybis(1-chloropropane)	160	160	U
Acetophenone	160	160	U
4-Methylphenol	160	160	U
N-Nitroso-di-n-propylamine	160	160	U
Hexachloroethane	160	160	U
Nitrobenzene	160	160	U
Isophorone	160	160	U
2-Nitrophenol	160	160	U
2,4-Dimethylphenol	160	160	U
Bis(2-chloroethoxy)methane	160	160	U
2,4-Dichlorophenol	160	160	U
Naphthalene	160	160	U
4-Chloroaniline	160	160	U
Hexachlorobutadiene	160	160	U
Caprolactam	160	160	U
4-Chloro-3-methylphenol	160	160	U
2-Methylnaphthalene	160	160	U
Hexachlorocyclopentadiene	160	160	U
2,4,6-Trichlorophenol	160	160	U
2,4,5-Trichlorophenol	160	160	U
1,1'-Biphenyl	160	160	U
2-Chloronaphthalene	160	160	U
2-Nitroaniline	320	320	U
Dimethylphthalate	160	160	U
2,6-Dinitrotoluene	160	160	U
Acenaphthylene	160	160	U
3-Nitroaniline	320	320	U
Acenaphthene	160	160	U
2,4-Dinitrophenol	320	320	U
4-Nitrophenol	320	320	U
Dibenzofuran	160	160	U
2,4-Dinitrotoluene	160	160	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ4	
STATION LOCATION		A-SD5-1 D	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	160	160	U
Fluorene	160	160	U
4-Chlorophenyl-phenylether	160	160	U
4-Nitroaniline	320	320	U
4,6-Dinitro-2-methylphenol	320	320	U
N-Nitrosodiphenylamine	160	160	U
1,2,4,5-Tetrachlorobenzene	160	160	U
4-Bromophenyl-phenylether	160	160	U
Hexachlorobenzene	160	160	U
Atrazine	160	160	U
Pentachlorophenol	320	320	U *
Phenanthrene	160	160	U
Anthracene	160	160	U
Carbazole	160	160	U
Di-n-butylphthalate	160	77	LJ
Fluoranthene	160	160	U
Pyrene	160	160	U
Butylbenzylphthalate	160	160	U
3,3'-Dichlorobenzidine	160	160	U
Benzo(a)anthracene	160	160	U
Chrysene	160	160	U
Bis(2-ethylhexyl)phthalate	160	110	LJ
Di-n-octylphthalate	160	160	U
Benzo(b)fluoranthene	160	160	U
Benzo(k)fluoranthene	160	160	U
Benzo(a)pyrene	160	160	U
Indeno(1,2,3-cd)pyrene	160	160	U
Dibenzo(a,h)anthracene	160	160	U
Benzo(g,h,i)perylene	160	160	U
2,3,4,6-Tetrachlorophenol	160	160	U

Weight (g): 60.8

%Moisture: 49

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ4(SIM)	
STATION LOCATION		A-SD5-1 D	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.2	3.7	*
2-Methylnaphthalene	3.2	4.4	*
Acenaphthylene	3.2	19	*
Acenaphthene	3.2	7.5	*
Fluorene	3.2	5.2	*
Pentachlorophenol	6.5	6.5	U
Phenanthrene	3.2	12	*
Anthracene	3.2	8.9	*
Fluoranthene	3.2	19	*
Pyrene	3.2	29	*
Benzo(a)anthracene	3.2	13	*
Chrysene	3.2	18	*
Benzo(b)fluoranthene	3.2	24	*
Benzo(k)fluoranthene	3.2	7.6	*
Benzo(a)pyrene	3.2	27	*
Indeno(1,2,3-cd)pyrene	3.2	16	*
Dibenzo(a,h)anthracene	3.2	7.1	*
Benzo(g,h,i)perylene	3.2	21	*

Weight (g) : 60.8

%Moisture : 49

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ5	
STATION LOCATION		E-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	130	130	U
Phenol	130	130	U
Bis(2-chloroethyl)ether	130	130	U
2-Chlorophenol	130	130	U
2-Methylphenol	130	130	U
2,2'-Oxybis(1-chloropropane)	130	130	U
Acetophenone	130	130	U
4-Methylphenol	130	130	U
N-Nitroso-di-n-propylamine	130	130	U
Hexachloroethane	130	130	U
Nitrobenzene	130	130	U
Isophorone	130	130	U
2-Nitrophenol	130	130	U
2,4-Dimethylphenol	130	130	U
Bis(2-chloroethoxy)methane	130	130	U
2,4-Dichlorophenol	130	130	U
Naphthalene	130	130	U
4-Chloroaniline	130	130	U
Hexachlorobutadiene	130	130	U
Caprolactam	130	130	U
4-Chloro-3-methylphenol	130	130	U
2-Methylnaphthalene	130	130	U
Hexachlorocyclopentadiene	130	130	U
2,4,6-Trichlorophenol	130	130	U
2,4,5-Trichlorophenol	130	130	U
1,1'-Biphenyl	130	130	U
2-Chloronaphthalene	130	130	U
2-Nitroaniline	250	250	U
Dimethylphthalate	130	130	U
2,6-Dinitrotoluene	130	130	U
Acenaphthylene	130	130	U
3-Nitroaniline	250	250	U
Acenaphthene	130	130	U
2,4-Dinitrophenol	250	250	U
4-Nitrophenol	250	250	U
Dibenzofuran	130	130	U
2,4-Dinitrotoluene	130	130	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ5	
STATION LOCATION		E-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	130	130	U
Fluorene	130	130	U
4-Chlorophenyl-phenylether	130	130	U
4-Nitroaniline	250	250	U
4,6-Dinitro-2-methylphenol	250	250	U
N-Nitrosodiphenylamine	130	130	U
1,2,4,5-Tetrachlorobenzene	130	130	U
4-Bromophenyl-phenylether	130	130	U
Hexachlorobenzene	130	130	U
Atrazine	130	130	U
Pentachlorophenol	250	250	U *
Phenanthrene	130	130	U
Anthracene	130	130	U
Carbazole	130	130	U
Di-n-butylphthalate	130	59	LJ
Fluoranthene	130	130	U
Pyrene	130	130	U
Butylbenzylphthalate	130	130	U
3,3'-Dichlorobenzidine	130	130	U
Benzo(a)anthracene	130	130	U
Chrysene	130	130	U
Bis(2-ethylhexyl)phthalate	130	130	U
Di-n-octylphthalate	130	130	U
Benzo(b)fluoranthene	130	130	U
Benzo(k)fluoranthene	130	130	U
Benzo(a)pyrene	130	130	U
Indeno(1,2,3-cd)pyrene	130	130	U
Dibenzo(a,h)anthracene	130	130	U
Benzo(g,h,i)perylene	130	130	U
2,3,4,6-Tetrachlorophenol	130	130	U

Weight (g) : 60.9

%Moisture : 36

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ5(SIM)	
STATION LOCATION		E-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.5	2.5	U *
2-Methylnaphthalene	2.5	2.5	*
Acenaphthylene	2.5	2.5	U *
Acenaphthene	2.5	2.5	U *
Fluorene	2.5	2.5	U *
Pentachlorophenol	5.2	5.2	UJ
Phenanthrene	2.5	2.5	U *
Anthracene	2.5	2.5	U *
Fluoranthene	2.5	4.7	*
Pyrene	2.5	5.9	*
Benzo(a)anthracene	2.5	2.6	*
Chrysene	2.5	3.5	*
Benzo(b)fluoranthene	2.5	2.7	*
Benzo(k)fluoranthene	2.5	2.5	U *
Benzo(a)pyrene	2.5	2.4	*
Indeno(1,2,3-cd)pyrene	2.5	2.5	U *
Dibenzo(a,h)anthracene	2.5	2.5	U *
Benzo(g,h,i)perylene	2.5	3.5	*

Weight (g): 60.9

%Moisture: 36

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ6	
STATION LOCATION		J-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	130	130	U
Phenol	130	130	U
Bis(2-chloroethyl)ether	130	130	U
2-Chlorophenol	130	130	U
2-Methylphenol	130	130	U
2,2'-Oxybis(1-chloropropane)	130	130	U
Acetophenone	130	130	U
4-Methylphenol	130	130	U
N-Nitroso-di-n-propylamine	130	130	U
Hexachloroethane	130	130	U
Nitrobenzene	130	130	U
Isophorone	130	130	U
2-Nitrophenol	130	130	U
2,4-Dimethylphenol	130	130	U
Bis(2-chloroethoxy)methane	130	130	U
2,4-Dichlorophenol	130	130	U
Naphthalene	130	130	U
4-Chloroaniline	130	130	U
Hexachlorobutadiene	130	130	U
Caprolactam	130	130	U
4-Chloro-3-methylphenol	130	130	U
2-Methylnaphthalene	130	130	U
Hexachlorocyclopentadiene	130	130	U
2,4,6-Trichlorophenol	130	130	U
2,4,5-Trichlorophenol	130	130	U
1,1'-Biphenyl	130	130	U
2-Chloronaphthalene	130	130	U
2-Nitroaniline	260	260	U
Dimethylphthalate	130	130	U
2,6-Dinitrotoluene	130	130	U
Acenaphthylene	130	130	U
3-Nitroaniline	260	260	U
Acenaphthene	130	130	U
2,4-Dinitrophenol	260	260	U
4-Nitrophenol	260	260	U
Dibenzofuran	130	130	U
2,4-Dinitrotoluene	130	130	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ6	
STATION LOCATION		J-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	130	130	U
Fluorene	130	130	U
4-Chlorophenyl-phenylether	130	130	U
4-Nitroaniline	260	260	U
4,6-Dinitro-2-methylphenol	260	260	U
N-Nitrosodiphenylamine	130	130	U
1,2,4,5-Tetrachlorobenzene	130	130	U
4-Bromophenyl-phenylether	130	130	U
Hexachlorobenzene	130	130	U
Atrazine	130	130	U
Pentachlorophenol	260	260	U *
Phenanthrene	130	130	U
Anthracene	130	130	U
Carbazole	130	130	U
Di-n-butylphthalate	130	130	U
Fluoranthene	130	130	U
Pyrene	130	64	LJ
Butylbenzylphthalate	130	130	U
3,3'-Dichlorobenzidine	130	130	U
Benzo(a)anthracene	130	130	U
Chrysene	130	130	U
Bis(2-ethylhexyl)phthalate	130	53	LJ
Di-n-octylphthalate	130	130	U
Benzo(b)fluoranthene	130	130	U
Benzo(k)fluoranthene	130	130	U
Benzo(a)pyrene	130	130	U
Indeno(1,2,3-cd)pyrene	130	130	U
Dibenzo(a,h)anthracene	130	130	U
Benzo(g,h,i)perylene	130	130	U
2,3,4,6-Tetrachlorophenol	130	130	U

Weight (g): 60.6

%Moisture: 37

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ6(SIM)	
STATION LOCATION		J-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.6	2.7	*
2-Methylnaphthalene	2.6	3.8	*
Acenaphthylene	2.6	11	*
Acenaphthene	2.6	4.3	*
Fluorene	2.6	4.4	*
Pentachlorophenol	5.3	5.3	U
Phenanthrene	2.6	16	*
Anthracene	2.6	11	*
Fluoranthene	2.6	37	*
Pyrene	2.6	51	*
Benzo(a)anthracene	2.6	21	*
Chrysene	2.6	30	*
Benzo(b)fluoranthene	2.6	20	*
Benzo(k)fluoranthene	2.6	5.8	*
Benzo(a)pyrene	2.6	17	*
Indeno(1,2,3-cd)pyrene	2.6	11	*
Dibenzo(a,h)anthracene	2.6	5.3	*
Benzo(g,h,i)perylene	2.6	14	*

Weight (g) : 60.6

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ6DL(SIM)	
STATION LOCATION		J-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	13	13	U *
2-Methylnaphthalene	13	13	U *
Acenaphthylene	13	14	*
Acenaphthene	13	13	U *
Fluorene	13	13	U *
Pentachlorophenol	26	26	U *
Phenanthrene	13	19	*
Anthracene	13	13	*
Fluoranthene	13	45	*
Pyrene	13	56	*
Benzo(a)anthracene	13	25	*
Chrysene	13	35	*
Benzo(b)fluoranthene	13	19	*
Benzo(k)fluoranthene	13	13	U *
Benzo(a)pyrene	13	16	*
Indeno(1,2,3-cd)pyrene	13	13	U *
Dibenzo(a,h)anthracene	13	13	U *
Benzo(g,h,i)perylene	13	14	*

Weight (g): 60.6

%Moisture: 37

Dilution Factor: 5

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ7	
STATION LOCATION		H-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	130	130	U
Phenol	130	130	U
Bis(2-chloroethyl)ether	130	130	U
2-Chlorophenol	130	130	U
2-Methylphenol	130	130	U
2,2'-Oxybis(1-chloropropane)	130	130	U
Acetophenone	130	130	U
4-Methylphenol	130	130	U
N-Nitroso-di-n-propylamine	130	130	U
Hexachloroethane	130	130	U
Nitrobenzene	130	130	U
Isophorone	130	130	U
2-Nitrophenol	130	130	U
2,4-Dimethylphenol	130	130	U
Bis(2-chloroethoxy)methane	130	130	U
2,4-Dichlorophenol	130	130	U
Naphthalene	130	130	U
4-Chloroaniline	130	130	U
Hexachlorobutadiene	130	130	U
Caprolactam	130	130	U
4-Chloro-3-methylphenol	130	130	U
2-Methylnaphthalene	130	130	U
Hexachlorocyclopentadiene	130	130	U
2,4,6-Trichlorophenol	130	130	U
2,4,5-Trichlorophenol	130	130	U
1,1'-Biphenyl	130	130	U
2-Chloronaphthalene	130	130	U
2-Nitroaniline	260	260	U
Dimethylphthalate	130	130	U
2,6-Dinitrotoluene	130	130	U
Acenaphthylene	130	130	U
3-Nitroaniline	260	260	U
Acenaphthene	130	130	U
2,4-Dinitrophenol	260	260	U
4-Nitrophenol	260	260	U
Dibenzofuran	130	130	U
2,4-Dinitrotoluene	130	130	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ7	
STATION LOCATION		H-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	130	130	U
Fluorene	130	130	U
4-Chlorophenyl-phenylether	130	130	U
4-Nitroaniline	260	260	U
4,6-Dinitro-2-methylphenol	260	260	U
N-Nitrosodiphenylamine	130	130	U
1,2,4,5-Tetrachlorobenzene	130	130	U
4-Bromophenyl-phenylether	130	130	U
Hexachlorobenzene	130	130	U
Atrazine	130	130	U
Pentachlorophenol	260	260	U *
Phenanthrene	130	130	U
Anthracene	130	130	U
Carbazole	130	130	U
Di-n-butylphthalate	130	64	LJ
Fluoranthene	130	79	LJ
Pyrene	130	79	LJ
Butylbenzylphthalate	130	130	U
3,3'-Dichlorobenzidine	130	130	U
Benzo(a)anthracene	130	130	U
Chrysene	130	53	LJ
Bis(2-ethylhexyl)phthalate	130	53	LJ
Di-n-octylphthalate	130	130	U
Benzo(b)fluoranthene	130	130	U
Benzo(k)fluoranthene	130	130	U
Benzo(a)pyrene	130	130	U
Indeno(1,2,3-cd)pyrene	130	130	U
Dibenzo(a,h)anthracene	130	130	U
Benzo(g,h,i)perylene	130	130	U
2,3,4,6-Tetrachlorophenol	130	130	U

Weight (g): 60.3

%Moisture: 37

Dilution Factor: 1

Number of TIC's: 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ7(SIM)	
STATION LOCATION		H-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	2.6	3.4	*
2-Methylnaphthalene	2.6	2.9	*
Acenaphthylene	2.6	13	*
Acenaphthene	2.6	3.0	*
Fluorene	2.6	3.4	*
Pentachlorophenol	5.3	5.3	U
Phenanthrene	2.6	20	*
Anthracene	2.6	17	*
Fluoranthene	2.6	84	*
Pyrene	2.6	77	*
Benzo(a)anthracene	2.6	44	*
Chrysene	2.6	52	*
Benzo(b)fluoranthene	2.6	56	*
Benzo(k)fluoranthene	2.6	18	*
Benzo(a)pyrene	2.6	41	*
Indeno(1,2,3-cd)pyrene	2.6	26	*
Dibenzo(a,h)anthracene	2.6	9.8	*
Benzo(g,h,i)perylene	2.6	26	*

Weight (g) : 60.3

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ7DL(SIM)	
STATION LOCATION		H-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	13	13	U *
2-Methylnaphthalene	13	13	U *
Acenaphthylene	13	12	*
Acenaphthene	13	13	U *
Fluorene	13	13	U *
Pentachlorophenol	26	26	U *
Phenanthrene	13	22	*
Anthracene	13	19	*
Fluoranthene	13	89	*
Pyrene	13	79	*
Benzo(a)anthracene	13	44	*
Chrysene	13	54	*
Benzo(b)fluoranthene	13	47	*
Benzo(k)fluoranthene	13	16	*
Benzo(a)pyrene	13	34	*
Indeno(1,2,3-cd)pyrene	13	23	*
Dibenzo(a,h)anthracene	13	13	U *
Benzo(g,h,i)perylene	13	23	*

Weight (g) : 60.3

%Moisture : 37

Dilution Factor : 5

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ8	
STATION LOCATION		R-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	170	170	U
Phenol	170	170	U
Bis(2-chloroethyl)ether	170	170	U
2-Chlorophenol	170	170	U
2-Methylphenol	170	170	U
2,2'-Oxybis(1-chloropropane)	170	170	U
Acetophenone	170	170	U
4-Methylphenol	170	170	U
N-Nitroso-di-n-propylamine	170	170	U
Hexachloroethane	170	170	U
Nitrobenzene	170	170	U
Isophorone	170	170	U
2-Nitrophenol	170	170	U
2,4-Dimethylphenol	170	170	U
Bis(2-chloroethoxy)methane	170	170	U
2,4-Dichlorophenol	170	170	U
Naphthalene	170	170	U
4-Chloroaniline	170	170	U
Hexachlorobutadiene	170	170	U
Caprolactam	170	170	U
4-Chloro-3-methylphenol	170	170	U
2-Methylnaphthalene	170	170	U
Hexachlorocyclopentadiene	170	170	U
2,4,6-Trichlorophenol	170	170	U
2,4,5-Trichlorophenol	170	170	U
1,1'-Biphenyl	170	170	U
2-Chloronaphthalene	170	170	U
2-Nitroaniline	320	320	U
Dimethylphthalate	170	170	U
2,6-Dinitrotoluene	170	170	U
Acenaphthylene	170	170	U
3-Nitroaniline	320	320	U
Acenaphthene	170	170	U
2,4-Dinitrophenol	320	320	U
4-Nitrophenol	320	320	U
Dibenzofuran	170	170	U
2,4-Dinitrotoluene	170	170	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ8	
STATION LOCATION		R-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	170	170	U
Fluorene	170	170	U
4-Chlorophenyl-phenylether	170	170	U
4-Nitroaniline	320	320	U
4,6-Dinitro-2-methylphenol	320	320	U
N-Nitrosodiphenylamine	170	170	U
1,2,4,5-Tetrachlorobenzene	170	170	U
4-Bromophenyl-phenylether	170	170	U
Hexachlorobenzene	170	170	U
Atrazine	170	170	U
Pentachlorophenol	320	320	U *
Phenanthrene	170	170	U
Anthracene	170	170	U
Carbazole	170	170	U
Di-n-butylphthalate	170	170	U
Fluoranthene	170	170	U
Pyrene	170	170	U
Butylbenzylphthalate	170	170	U
3,3'-Dichlorobenzidine	170	170	U
Benzo(a)anthracene	170	170	U
Chrysene	170	170	U
Bis(2-ethylhexyl)phthalate	170	170	U
Di-n-octylphthalate	170	170	U
Benzo(b)fluoranthene	170	170	U
Benzo(k)fluoranthene	170	170	U
Benzo(a)pyrene	170	170	U
Indeno(1,2,3-cd)pyrene	170	170	U
Dibenzo(a,h)anthracene	170	170	U
Benzo(g,h,i)perylene	170	170	U
2,3,4,6-Tetrachlorophenol	170	170	U

Weight (g): 80.7

%Moisture: 62

Dilution Factor: 1

Number of TIC's: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ8(SIM)	
STATION LOCATION		R-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.2	3.2	*
2-Methylnaphthalene	3.2	3.2	U *
Acenaphthylene	3.2	3.1	*
Acenaphthene	3.2	3.2	U *
Fluorene	3.2	3.2	U *
Pentachlorophenol	6.6	6.6	U
Phenanthrene	3.2	4.6	*
Anthracene	3.2	3.2	U *
Fluoranthene	3.2	9.4	*
Pyrene	3.2	9.5	*
Benzo(a)anthracene	3.2	5.5	*
Chrysene	3.2	7.1	*
Benzo(b)fluoranthene	3.2	7.8	*
Benzo(k)fluoranthene	3.2	3.2	U *
Benzo(a)pyrene	3.2	5.9	*
Indeno(1,2,3-cd)pyrene	3.2	6.1	*
Dibenzo(a,h)anthracene	3.2	3.2	U *
Benzo(g,h,i)perylene	3.2	9.3	*

Weight (g) : 80.7

%Moisture : 62

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ9	
STATION LOCATION		S-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Benzaldehyde	150	150	U
Phenol	150	150	U
Bis(2-chloroethyl)ether	150	150	U
2-Chlorophenol	150	150	U
2-Methylphenol	150	150	U
2,2'-Oxybis(1-chloropropane)	150	150	U
Acetophenone	150	150	U
4-Methylphenol	150	150	U
N-Nitroso-di-n-propylamine	150	150	U
Hexachloroethane	150	150	U
Nitrobenzene	150	150	U
Isophorone	150	150	U
2-Nitrophenol	150	150	U
2,4-Dimethylphenol	150	150	U
Bis(2-chloroethoxy)methane	150	150	U
2,4-Dichlorophenol	150	150	U
Naphthalene	150	150	U
4-Chloroaniline	150	150	U
Hexachlorobutadiene	150	150	U
Caprolactam	150	150	U
4-Chloro-3-methylphenol	150	150	U
2-Methylnaphthalene	150	150	U
Hexachlorocyclopentadiene	150	150	U
2,4,6-Trichlorophenol	150	150	U
2,4,5-Trichlorophenol	150	150	U
1,1'-Biphenyl	150	150	U
2-Chloronaphthalene	150	150	U
2-Nitroaniline	300	300	U
Dimethylphthalate	150	150	U
2,6-Dinitrotoluene	150	150	U
Acenaphthylene	150	150	U
3-Nitroaniline	300	300	U
Acenaphthene	150	150	U
2,4-Dinitrophenol	300	300	U
4-Nitrophenol	300	300	U
Dibenzofuran	150	150	U
2,4-Dinitrotoluene	150	150	U

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ9	
STATION LOCATION		S-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Diethylphthalate	150	150	U
Fluorene	150	150	U
4-Chlorophenyl-phenylether	150	150	U
4-Nitroaniline	300	300	U
4,6-Dinitro-2-methylphenol	300	300	U
N-Nitrosodiphenylamine	150	150	U
1,2,4,5-Tetrachlorobenzene	150	150	U
4-Bromophenyl-phenylether	150	150	U
Hexachlorobenzene	150	150	U
Atrazine	150	150	U
Pentachlorophenol	300	300	U *
Phenanthrene	150	150	U
Anthracene	150	150	U
Carbazole	150	150	U
Di-n-butylphthalate	150	150	U
Fluoranthene	150	150	U
Pyrene	150	150	U
Butylbenzylphthalate	150	150	U
3,3'-Dichlorobenzidine	150	150	U
Benzo(a)anthracene	150	150	U
Chrysene	150	150	U
Bis(2-ethylhexyl)phthalate	150	100	LJ
Di-n-octylphthalate	150	150	U
Benzo(b)fluoranthene	150	150	U
Benzo(k)fluoranthene	150	150	U
Benzo(a)pyrene	150	150	U
Indeno(1,2,3-cd)pyrene	150	150	U
Dibenzo(a,h)anthracene	150	150	U
Benzo(g,h,i)perylene	150	150	U
2,3,4,6-Tetrachlorophenol	150	150	U

Weight (g) : 60.6

%Moisture : 45

Dilution Factor : 1

Number of TIC's : 3

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ9(SIM)	
STATION LOCATION		S-SD5-1	
Semivolatile	ADJ CRQL	RESULT	FLAG
Naphthalene	3.0	3.1	*
2-Methylnaphthalene	3.0	3.0	U *
Acenaphthylene	3.0	6.4	*
Acenaphthene	3.0	3.0	U *
Fluorene	3.0	3.0	U *
Pentachlorophenol	6.0	6.0	U
Phenanthrene	3.0	4.3	*
Anthracene	3.0	3.8	*
Fluoranthene	3.0	9.7	*
Pyrene	3.0	10	*
Benzo(a)anthracene	3.0	7.4	*
Chrysene	3.0	9.8	*
Benzo(b)fluoranthene	3.0	11	*
Benzo(k)fluoranthene	3.0	3.7	*
Benzo(a)pyrene	3.0	9.0	*
Indeno(1,2,3-cd)pyrene	3.0	7.7	*
Dibenzo(a,h)anthracene	3.0	3.1	*
Benzo(g,h,i)perylene	3.0	9.5	*

Weight (g) : 60.6

%Moisture : 45

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP0	
STATION LOCATION		N-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.6	2.6	U
beta-BHC	2.6	2.6	U
delta-BHC	2.6	2.6	U
gamma-BHC (Lindane)	2.6	2.6	U
Heptachlor	2.6	2.6	U
Aldrin	2.6	2.6	U
Heptachlor epoxide	2.6	2.6	U
Endosulfan I	2.6	2.6	U
Dieldrin	5.0	5.0	U
4,4'-DDE	5.0	5.0	U
Endrin	5.0	5.0	U
Endosulfan II	5.0	5.0	U
4,4'-DDD	5.0	5.0	U
Endosulfan sulfate	5.0	5.0	U
4,4'-DDT	5.0	5.0	U
Methoxychlor	26	26	U
Endrin ketone	5.0	2.1	LJ
Endrin aldehyde	5.0	5.0	U
alpha-Chlordane	2.6	2.6	U
gamma-Chlordane	2.6	2.6	U
Toxaphene	260	260	U

Weight (g) : 30.1

%Moisture : 34

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP1	
STATION LOCATION		L-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.7	2.7	U
beta-BHC	2.7	2.7	U
delta-BHC	2.7	2.7	U
gamma-BHC (Lindane)	2.7	2.7	U
Heptachlor	2.7	2.7	U
Aldrin	2.7	2.7	U
Heptachlor epoxide	2.7	2.7	U
Endosulfan I	2.7	2.7	U
Dieldrin	5.3	5.3	U
4,4'-DDE	5.3	5.3	U
Endrin	5.3	5.3	U
Endosulfan II	5.3	5.3	U
4,4'-DDD	5.3	5.3	U
Endosulfan sulfate	5.3	5.3	U
4,4'-DDT	5.3	5.3	U
Methoxychlor	27	27	U
Endrin ketone	5.3	5.3	U
Endrin aldehyde	5.3	5.3	U
alpha-Chlordane	2.7	2.7	U
gamma-Chlordane	2.7	2.7	U
Toxaphene	270	270	U

Weight (g) : 30.3

%Moisture : 38

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP2	
STATION LOCATION		G-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.8	2.8	U
beta-BHC	2.8	2.8	U
delta-BHC	2.8	2.8	U
gamma-BHC (Lindane)	2.8	2.8	U
Heptachlor	2.8	2.8	U
Aldrin	2.8	2.8	U
Heptachlor epoxide	2.8	2.8	U
Endosulfan I	2.8	2.8	U
Dieldrin	5.4	5.4	U
4,4'-DDE	5.4	5.4	U
Endrin	5.4	5.4	U
Endosulfan II	5.4	5.4	U
4,4'-DDD	5.4	5.4	U
Endosulfan sulfate	5.4	5.4	U
4,4'-DDT	5.4	5.4	U
Methoxychlor	28	28	U
Endrin ketone	5.4	5.4	U
Endrin aldehyde	5.4	5.4	U
alpha-Chlordane	2.8	2.8	U
gamma-Chlordane	2.8	2.8	U
Toxaphene	280	280	U

Weight (g) : 29.9

%Moisture : 39

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP3	
STATION LOCATION		F-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.8	2.8	U
beta-BHC	2.8	2.8	U
delta-BHC	2.8	2.8	U
gamma-BHC (Lindane)	2.8	2.8	U
Heptachlor	2.8	2.8	U
Aldrin	2.8	2.8	U
Heptachlor epoxide	2.8	2.8	U
Endosulfan I	2.8	2.8	U
Dieldrin	5.5	5.5	U
4,4'-DDE	5.5	5.5	U
Endrin	5.5	5.5	U
Endosulfan II	5.5	5.5	U
4,4'-DDD	5.5	5.5	U
Endosulfan sulfate	5.5	5.5	U
4,4'-DDT	5.5	5.5	U
Methoxychlor	28	28	U
Endrin ketone	5.5	5.5	U
Endrin aldehyde	5.5	5.5	U
alpha-Chlordane	2.8	2.8	U
gamma-Chlordane	2.8	2.8	U
Toxaphene	280	280	U

Weight (g): 30.1

%Moisture: 40

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP4	
STATION LOCATION		F-SD5-1 D	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.7	2.7	U
beta-BHC	2.7	2.7	U
delta-BHC	2.7	2.7	U
gamma-BHC (Lindane)	2.7	2.7	U
Heptachlor	2.7	2.7	U
Aldrin	2.7	2.7	U
Heptachlor epoxide	2.7	2.7	U
Endosulfan I	2.7	2.7	U
Dieldrin	5.2	5.2	U
4,4'-DDE	5.2	5.2	U
Endrin	5.2	5.2	U
Endosulfan II	5.2	5.2	U
4,4'-DDD	5.2	5.2	U
Endosulfan sulfate	5.2	5.2	U
4,4'-DDT	5.2	5.2	U
Methoxychlor	27	27	U
Endrin ketone	5.2	5.2	U
Endrin aldehyde	5.2	5.2	U
alpha-Chlordane	2.7	2.7	U
gamma-Chlordane	2.7	2.7	U
Toxaphene	270	270	U

Weight (g) : 30.3

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP5	
STATION LOCATION		P-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.5	2.5	U
beta-BHC	2.5	2.5	U
delta-BHC	2.5	2.5	U
gamma-BHC (Lindane)	2.5	2.5	U
Heptachlor	2.5	2.5	U
Aldrin	2.5	2.5	U
Heptachlor epoxide	2.5	2.5	U
Endosulfan I	2.5	2.5	U
Dieldrin	4.9	4.9	U
4,4'-DDE	4.9	4.9	U
Endrin	4.9	4.9	U
Endosulfan II	4.9	4.9	U
4,4'-DDD	4.9	4.9	U
Endosulfan sulfate	4.9	4.9	U
4,4'-DDT	4.9	4.9	U
Methoxychlor	25	25	U
Endrin ketone	4.9	4.9	U
Endrin aldehyde	4.9	4.9	U
alpha-Chlordane	2.5	2.5	U
gamma-Chlordane	2.5	2.5	U
Toxaphene	250	250	U

Weight (g): 30.2

%Moisture: 33

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP6	
STATION LOCATION		D-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.3	3.3	U
beta-BHC	3.3	3.3	U
delta-BHC	3.3	3.3	U
gamma-BHC (Lindane)	3.3	3.3	U
Heptachlor	3.3	3.3	U
Aldrin	3.3	3.3	U
Heptachlor epoxide	3.3	3.3	U
Endosulfan I	3.3	3.3	U
Dieldrin	6.4	6.4	U
4,4'-DDE	6.4	6.4	U
Endrin	6.4	6.4	U
Endosulfan II	6.4	6.4	U
4,4'-DDD	6.4	6.4	U
Endosulfan sulfate	6.4	6.4	U
4,4'-DDT	6.4	6.4	U
Methoxychlor	33	33	U
Endrin ketone	6.4	6.4	U
Endrin aldehyde	6.4	6.4	U
alpha-Chlordane	3.3	3.3	U
gamma-Chlordane	3.3	3.3	U
Toxaphene	330	330	U

Weight (g) : 30.4

%Moisture : 49

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP7	
STATION LOCATION		C-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.1	3.1	U
beta-BHC	3.1	3.1	U
delta-BHC	3.1	3.1	U
gamma-BHC (Lindane)	3.1	3.1	U
Heptachlor	3.1	3.1	U
Aldrin	3.1	3.1	U
Heptachlor epoxide	3.1	3.1	U
Endosulfan I	3.1	3.1	U
Dieldrin	6.1	6.1	U
4,4'-DDE	6.1	6.1	U
Endrin	6.1	6.1	U
Endosulfan II	6.1	6.1	U
4,4'-DDD	6.1	6.1	U
Endosulfan sulfate	6.1	6.1	U
4,4'-DDT	6.1	6.1	U
Methoxychlor	31	31	U
Endrin ketone	6.1	6.1	U
Endrin aldehyde	6.1	6.1	U
alpha-Chlordane	3.1	3.1	U
gamma-Chlordane	3.1	3.1	U
Toxaphene	310	310	U

Weight (g): 30.3

%Moisture: 46

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP8	
STATION LOCATION		B-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.0	3.0	U
beta-BHC	3.0	3.0	U
delta-BHC	3.0	3.0	U
gamma-BHC (Lindane)	3.0	3.0	U
Heptachlor	3.0	3.0	U
Aldrin	3.0	3.0	U
Heptachlor epoxide	3.0	3.0	U
Endosulfan I	3.0	3.0	U
Dieldrin	5.9	5.9	U
4,4'-DDE	5.9	5.9	U
Endrin	5.9	5.9	U
Endosulfan II	5.9	5.9	U
4,4'-DDD	5.9	5.9	U
Endosulfan sulfate	5.9	5.9	U
4,4'-DDT	5.9	5.9	U
Methoxychlor	30	30	U
Endrin ketone	5.9	5.9	U
Endrin aldehyde	5.9	5.9	U
alpha-Chlordane	3.0	3.0	U
gamma-Chlordane	3.0	3.0	U
Toxaphene	300	300	U

Weight (g) : 30.1

%Moisture : 44

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP9	
STATION LOCATION		K-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.8	2.8	U
beta-BHC	2.8	2.8	U
delta-BHC	2.8	2.8	U
gamma-BHC (Lindane)	2.8	2.8	U
Heptachlor	2.8	2.8	U
Aldrin	2.8	2.8	U
Heptachlor epoxide	2.8	2.8	U
Endosulfan I	2.8	2.8	U
Dieldrin	5.5	5.5	U
4,4'-DDE	5.5	5.5	U
Endrin	5.5	5.5	U
Endosulfan II	5.5	5.5	U
4,4'-DDD	5.5	5.5	U
Endosulfan sulfate	5.5	5.5	U
4,4'-DDT	5.5	5.5	U
Methoxychlor	28	28	U
Endrin ketone	5.5	5.5	U
Endrin aldehyde	5.5	5.5	U
alpha-Chlordane	2.8	2.8	U
gamma-Chlordane	2.8	2.8	U
Toxaphene	280	280	U

Weight (g): 30.0

%Moisture: 40

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ0	
STATION LOCATION		Q-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.8	3.8	U
beta-BHC	3.8	3.8	U
delta-BHC	3.8	3.8	U
gamma-BHC (Lindane)	3.8	3.8	U
Heptachlor	3.8	3.8	U
Aldrin	3.8	3.8	U
Heptachlor epoxide	3.8	3.8	U
Endosulfan I	3.8	3.8	U
Dieldrin	7.3	7.3	U
4,4'-DDE	7.3	7.3	U
Endrin	7.3	7.3	U
Endosulfan II	7.3	7.3	U
4,4'-DDD	7.3	7.3	U
Endosulfan sulfate	7.3	7.3	U
4,4'-DDT	7.3	7.3	U
Methoxychlor	38	38	U
Endrin ketone	7.3	7.3	U
Endrin aldehyde	7.3	7.3	U
alpha-Chlordane	3.8	3.8	U
gamma-Chlordane	3.8	3.8	U
Toxaphene	380	380	U

Weight (g) : 30.1

%Moisture : 55

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ1	
STATION LOCATION		M-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	4.2	4.2	U
beta-BHC	4.2	4.2	U
delta-BHC	4.2	4.2	U
gamma-BHC (Lindane)	4.2	4.2	U
Heptachlor	4.2	4.2	U
Aldrin	4.2	4.2	U
Heptachlor epoxide	4.2	4.2	U
Endosulfan I	4.2	4.2	U
Dieldrin	8.1	8.1	U
4,4'-DDE	8.1	8.1	U
Endrin	8.1	8.1	U
Endosulfan II	8.1	8.1	U
4,4'-DDD	8.1	8.1	U
Endosulfan sulfate	8.1	8.1	U
4,4'-DDT	8.1	8.1	U
Methoxychlor	42	42	U
Endrin ketone	8.1	8.1	U
Endrin aldehyde	8.1	8.1	U
alpha-Chlordane	4.2	4.2	U
gamma-Chlordane	4.2	4.2	U
Toxaphene	420	420	U

Weight (g): 29.9

%Moisture: 59

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ2	
STATION LOCATION		O-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.9	2.9	U
beta-BHC	2.9	2.9	U
delta-BHC	2.9	2.9	U
gamma-BHC (Lindane)	2.9	2.9	U
Heptachlor	2.9	2.9	U
Aldrin	2.9	2.9	U
Heptachlor epoxide	2.9	2.9	U
Endosulfan I	2.9	2.9	U
Dieldrin	5.7	5.7	U
4,4'-DDE	5.7	5.7	U
Endrin	5.7	5.7	U
Endosulfan II	5.7	5.7	U
4,4'-DDD	5.7	5.7	U
Endosulfan sulfate	5.7	5.7	U
4,4'-DDT	5.7	5.7	U
Methoxychlor	29	29	U
Endrin ketone	5.7	5.7	U
Endrin aldehyde	5.7	5.7	U
alpha-Chlordane	2.9	2.9	U
gamma-Chlordane	2.9	2.9	U
Toxaphene	290	290	U

Weight (g) : 30.2

%Moisture : 42

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ3	
STATION LOCATION		A-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.2	3.2	U
beta-BHC	3.2	3.2	U
delta-BHC	3.2	3.2	U
gamma-BHC (Lindane)	3.2	3.2	U
Heptachlor	3.2	3.2	U
Aldrin	3.2	3.2	U
Heptachlor epoxide	3.2	3.2	U
Endosulfan I	3.2	3.2	U
Dieldrin	6.2	6.2	U
4,4'-DDE	6.2	6.2	U
Endrin	6.2	6.2	U
Endosulfan II	6.2	6.2	U
4,4'-DDD	6.2	6.2	U
Endosulfan sulfate	6.2	6.2	U
4,4'-DDT	6.2	6.2	U
Methoxychlor	32	32	U
Endrin ketone	6.2	6.2	U
Endrin aldehyde	6.2	6.2	U
alpha-Chlordane	3.2	3.2	U
gamma-Chlordane	3.2	3.2	U
Toxaphene	320	320	U

Weight (g): 30.1

%Moisture: 47

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ4	
STATION LOCATION		A-SD5-1 D	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.3	3.3	U
beta-BHC	3.3	3.3	U
delta-BHC	3.3	3.3	U
gamma-BHC (Lindane)	3.3	3.3	U
Heptachlor	3.3	3.3	U
Aldrin	3.3	3.3	U
Heptachlor epoxide	3.3	3.3	U
Endosulfan I	3.3	3.3	U
Dieldrin	6.4	6.4	U
4,4'-DDE	6.4	6.4	U
Endrin	6.4	6.4	U
Endosulfan II	6.4	6.4	U
4,4'-DDD	6.4	6.4	U
Endosulfan sulfate	6.4	6.4	U
4,4'-DDT	6.4	6.4	U
Methoxychlor	33	33	U
Endrin ketone	6.4	6.4	U
Endrin aldehyde	6.4	6.4	U
alpha-Chlordane	3.3	3.3	U
gamma-Chlordane	3.3	3.3	U
Toxaphene	330	330	U

Weight (g) : 30.3

%Moisture : 49

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ5	
STATION LOCATION		E-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.6	2.6	U
beta-BHC	2.6	2.6	U
delta-BHC	2.6	2.6	U
gamma-BHC (Lindane)	2.6	2.6	U
Heptachlor	2.6	2.6	U
Aldrin	2.6	2.6	U
Heptachlor epoxide	2.6	2.6	U
Endosulfan I	2.6	2.6	U
Dieldrin	5.1	5.1	U
4,4'-DDE	5.1	5.1	U
Endrin	5.1	5.1	U
Endosulfan II	5.1	5.1	U
4,4'-DDD	5.1	5.1	U
Endosulfan sulfate	5.1	5.1	U
4,4'-DDT	5.1	5.1	U
Methoxychlor	26	26	U
Endrin ketone	5.1	5.1	U
Endrin aldehyde	5.1	5.1	U
alpha-Chlordane	2.6	2.6	U
gamma-Chlordane	2.6	2.6	U
Toxaphene	260	260	U

Weight (g) : 30.1

%Moisture : 36

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ6	
STATION LOCATION		J-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.7	2.7	U
beta-BHC	2.7	2.7	U
delta-BHC	2.7	2.7	U
gamma-BHC (Lindane)	2.7	2.7	U
Heptachlor	2.7	2.7	U
Aldrin	2.7	2.7	U
Heptachlor epoxide	2.7	2.7	U
Endosulfan I	2.7	2.7	U
Dieldrin	5.2	5.2	U
4,4'-DDE	5.2	5.2	U
Endrin	5.2	5.2	U
Endosulfan II	5.2	5.2	U
4,4'-DDD	5.2	5.2	U
Endosulfan sulfate	5.2	5.2	U
4,4'-DDT	5.2	5.2	U
Methoxychlor	27	27	U
Endrin ketone	5.2	5.2	U
Endrin aldehyde	5.2	5.2	U
alpha-Chlordane	2.7	2.7	U
gamma-Chlordane	2.7	2.7	U
Toxaphene	270	270	U

Weight (g) : 30.3

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ7	
STATION LOCATION		H-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	2.7	2.7	U
beta-BHC	2.7	2.7	U
delta-BHC	2.7	2.7	U
gamma-BHC (Lindane)	2.7	2.7	U
Heptachlor	2.7	2.7	U
Aldrin	2.7	2.7	U
Heptachlor epoxide	2.7	2.7	U
Endosulfan I	2.7	2.7	U
Dieldrin	5.2	5.2	U
4,4'-DDE	5.2	5.2	U
Endrin	5.2	5.2	U
Endosulfan II	5.2	5.2	U
4,4'-DDD	5.2	2.4	LJ
Endosulfan sulfate	5.2	5.2	U
4,4'-DDT	5.2	3.8	LJ
Methoxychlor	27	27	U
Endrin ketone	5.2	5.2	U
Endrin aldehyde	5.2	5.2	U
alpha-Chlordane	2.7	2.7	U
gamma-Chlordane	2.7	2.7	U
Toxaphene	270	270	U

Weight (g): 30.1

%Moisture: 37

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ8	
STATION LOCATION		R-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	4.4	4.4	U
beta-BHC	4.4	4.4	U
delta-BHC	4.4	4.4	U
gamma-BHC (Lindane)	4.4	4.4	U
Heptachlor	4.4	4.4	U
Aldrin	4.4	4.4	U
Heptachlor epoxide	4.4	4.4	U
Endosulfan I	4.4	4.4	U
Dieldrin	8.6	8.6	U
4,4'-DDE	8.6	8.6	U
Endrin	8.6	8.6	U
Endosulfan II	8.6	8.6	U
4,4'-DDD	8.6	8.6	U
Endosulfan sulfate	8.6	8.6	U
4,4'-DDT	8.6	2.1	LJ
Methoxychlor	44	44	U
Endrin ketone	8.6	8.6	U
Endrin aldehyde	8.6	8.6	U
alpha-Chlordane	4.4	4.4	U
gamma-Chlordane	4.4	4.4	U
Toxaphene	440	440	U

Weight (g) : 30.3

%Moisture : 62

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ9	
STATION LOCATION		S-SD5-1	
Pesticide	ADJ CRQL	RESULT	FLAG
alpha-BHC	3.1	3.1	U
beta-BHC	3.1	3.1	U
delta-BHC	3.1	3.1	U
gamma-BHC (Lindane)	3.1	3.1	U
Heptachlor	3.1	3.1	U
Aldrin	3.1	3.1	U
Heptachlor epoxide	3.1	3.1	U
Endosulfan I	3.1	3.1	U
Dieldrin	6.0	6.0	U
4,4'-DDE	6.0	6.0	U
Endrin	6.0	6.0	U
Endosulfan II	6.0	6.0	U
4,4'-DDD	6.0	6.0	U
Endosulfan sulfate	6.0	6.0	U
4,4'-DDT	6.0	6.0	U
Methoxychlor	31	31	U
Endrin ketone	6.0	6.0	U
Endrin aldehyde	6.0	6.0	U
alpha-Chlordane	3.1	3.1	U
gamma-Chlordane	3.1	3.1	U
Toxaphene	310	310	U

Weight (g): 30.1

%Moisture: 45

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP0	
STATION LOCATION		N-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	33	33	U
Aroclor-1221	6.5	6.5	U
Aroclor-1232	33	33	U
Aroclor-1242	6.5	6.5	U
Aroclor-1248	33	33	U
Aroclor-1254	6.5	6.5	U
Aroclor-1260	33	17	LJ
Aroclor-1262	33	33	U
Aroclor-1268	33	33	U

Weight (g) : 46.1

%Moisture : 34

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP1	
STATION LOCATION		L-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	32	32	U
Aroclor-1221	6.4	6.4	U
Aroclor-1232	32	32	U
Aroclor-1242	6.4	6.4	U
Aroclor-1248	32	32	U
Aroclor-1254	6.4	6.4	U
Aroclor-1260	32	32	U
Aroclor-1262	32	32	U
Aroclor-1268	32	32	U

Weight (g) : 49.9

%Moisture : 38

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP2	
STATION LOCATION		G-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	32	32	U
Aroclor-1221	6.5	6.5	U
Aroclor-1232	32	32	U
Aroclor-1242	6.5	6.5	U
Aroclor-1248	32	32	U
Aroclor-1254	6.5	16	J
Aroclor-1260	32	32	U
Aroclor-1262	32	32	U
Aroclor-1268	32	32	U

Weight (g) : 50.3

%Moisture : 39

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP3	
STATION LOCATION		F-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	33	33	U
Aroclor-1221	6.6	6.6	U
Aroclor-1232	33	33	U
Aroclor-1242	6.6	6.6	U
Aroclor-1248	33	33	U
Aroclor-1254	6.6	6.6	U
Aroclor-1260	33	33	U
Aroclor-1262	33	33	U
Aroclor-1268	33	33	U

Weight (g): 50.1

%Moisture: 40

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP4	
STATION LOCATION		F-SD5-1 D	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	33	33	U
Aroclor-1221	6.5	6.5	U
Aroclor-1232	33	33	U
Aroclor-1242	6.5	6.5	U
Aroclor-1248	33	33	U
Aroclor-1254	6.5	6.5	U
Aroclor-1260	33	33	U
Aroclor-1262	33	33	U
Aroclor-1268	33	33	U

Weight (g) : 48.1

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP5	
STATION LOCATION		P-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	33	33	U
Aroclor-1221	6.5	6.5	U
Aroclor-1232	33	33	U
Aroclor-1242	6.5	6.5	U
Aroclor-1248	33	33	U
Aroclor-1254	6.5	6.5	U
Aroclor-1260	33	33	U
Aroclor-1262	33	33	U
Aroclor-1268	33	33	U

Weight (g): 45.2

%Moisture: 33

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP6	
STATION LOCATION		D-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	39	39	U
Aroclor-1221	7.7	7.7	U
Aroclor-1232	39	39	U
Aroclor-1242	7.7	7.7	U
Aroclor-1248	39	39	U
Aroclor-1254	7.7	75	
Aroclor-1260	39	39	U
Aroclor-1262	39	39	U
Aroclor-1268	39	39	U

Weight (g) : 50.3

%Moisture : 49

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP7	
STATION LOCATION		C-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	37	37	U
Aroclor-1221	7.3	7.3	U
Aroclor-1232	37	37	U
Aroclor-1242	7.3	7.3	U
Aroclor-1248	37	37	U
Aroclor-1254	7.3	19	
Aroclor-1260	37	37	U
Aroclor-1262	37	37	U
Aroclor-1268	37	37	U

Weight (g): 50.1

%Moisture: 46

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XP8	
STATION LOCATION		B-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	35	35	U
Aroclor-1221	7.0	7.0	U
Aroclor-1232	35	35	U
Aroclor-1242	7.0	7.0	U
Aroclor-1248	35	35	U
Aroclor-1254	7.0	7.0	U
Aroclor-1260	35	35	U
Aroclor-1262	35	35	U
Aroclor-1268	35	35	U

Weight (g) : 50.2

%Moisture : 44

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XP9	
STATION LOCATION		K-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	33	33	U
Aroclor-1221	6.6	6.6	U
Aroclor-1232	33	33	U
Aroclor-1242	6.6	6.6	U
Aroclor-1248	33	33	U
Aroclor-1254	6.6	5.9	LJ
Aroclor-1260	33	33	U
Aroclor-1262	33	33	U
Aroclor-1268	33	33	U

Weight (g): 50.1

%Moisture: 40

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ0	
STATION LOCATION		Q-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	43	43	U
Aroclor-1221	8.6	8.6	U
Aroclor-1232	43	43	U
Aroclor-1242	8.6	8.6	U
Aroclor-1248	43	43	U
Aroclor-1254	8.6	20	
Aroclor-1260	43	43	U
Aroclor-1262	43	43	U
Aroclor-1268	43	43	U

Weight (g) : 51.1

%Moisture : 55

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ1	
STATION LOCATION		M-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	47	47	U
Aroclor-1221	9.4	9.4	U
Aroclor-1232	47	47	U
Aroclor-1242	9.4	9.4	U
Aroclor-1248	47	47	U
Aroclor-1254	9.4	26	J
Aroclor-1260	47	47	U
Aroclor-1262	47	47	U
Aroclor-1268	47	47	U

Weight (g) : 51.3

%Moisture : 59

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ2	
STATION LOCATION		O-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	34	34	U
Aroclor-1221	6.8	6.8	U
Aroclor-1232	34	34	U
Aroclor-1242	6.8	29	J
Aroclor-1248	34	34	U
Aroclor-1254	6.8	26	
Aroclor-1260	34	34	U
Aroclor-1262	34	34	U
Aroclor-1268	34	34	U

Weight (g) : 50.0

%Moisture : 42

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ3	
STATION LOCATION		A-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	37	37	U
Aroclor-1221	7.4	7.4	U
Aroclor-1232	37	37	U
Aroclor-1242	7.4	32	J
Aroclor-1248	37	37	U
Aroclor-1254	7.4	12	J
Aroclor-1260	37	37	U
Aroclor-1262	37	37	U
Aroclor-1268	37	37	U

Weight (g): 50.3

%Moisture: 47

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ4	
STATION LOCATION		A-SD5-1 D	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	39	39	U
Aroclor-1221	7.7	7.7	U
Aroclor-1232	39	39	U
Aroclor-1242	7.7	42	
Aroclor-1248	39	39	U
Aroclor-1254	7.7	15	
Aroclor-1260	39	39	U
Aroclor-1262	39	39	U
Aroclor-1268	39	39	U

Weight (g) : 50.1

%Moisture : 49

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No.: 42040 SDG: F4XP0 Reviewer: Y. Hsieh

Laboratory: KAP Matrix: Soil Units: ug/Kg

EPA SAMPLE No.		F4XQ5	
STATION LOCATION		E-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	32	32	U
Aroclor-1221	6.4	6.4	U
Aroclor-1232	32	32	U
Aroclor-1242	6.4	6.4	U
Aroclor-1248	32	32	U
Aroclor-1254	6.4	7.5	J
Aroclor-1260	32	32	U
Aroclor-1262	32	32	U
Aroclor-1268	32	32	U

Weight (g): 48.1

%Moisture: 36

Dilution Factor: 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ6	
STATION LOCATION		J-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	32	32	U
Aroclor-1221	6.5	6.5	U
Aroclor-1232	32	32	U
Aroclor-1242	6.5	6.5	U
Aroclor-1248	32	32	U
Aroclor-1254	6.5	4.1	LJ
Aroclor-1260	32	32	U
Aroclor-1262	32	32	U
Aroclor-1268	32	32	U

Weight (g) : 48.4

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ7	
STATION LOCATION		H-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	33	33	U
Aroclor-1221	6.5	6.5	U
Aroclor-1232	33	33	U
Aroclor-1242	6.5	46	J
Aroclor-1248	33	33	U
Aroclor-1254	6.5	51	
Aroclor-1260	33	33	U
Aroclor-1262	33	33	U
Aroclor-1268	33	33	U

Weight (g) : 48.1

%Moisture : 37

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ8	
STATION LOCATION		R-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	52	52	U
Aroclor-1221	10	10	U
Aroclor-1232	52	52	U
Aroclor-1242	10	10	U
Aroclor-1248	52	52	U
Aroclor-1254	10	15	J
Aroclor-1260	52	52	U
Aroclor-1262	52	52	U
Aroclor-1268	52	52	U

Weight (g) : 50.3

%Moisture : 62

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

ORGANIC DATA SUMMARY

Case No. : 42040 SDG : F4XP0 Reviewer : Y. Hsieh

Laboratory : KAP Matrix : Soil Units : ug/Kg

EPA SAMPLE No.		F4XQ9	
STATION LOCATION		S-SD5-1	
Aroclor	ADJ CRQL	RESULT	FLAG
Aroclor-1016	36	36	U
Aroclor-1221	7.2	7.2	U
Aroclor-1232	36	36	U
Aroclor-1242	7.2	23	J
Aroclor-1248	36	36	U
Aroclor-1254	7.2	11	J
Aroclor-1260	36	36	U
Aroclor-1262	36	36	U
Aroclor-1268	36	36	U

Weight (g) : 50.1

%Moisture : 45

Dilution Factor : 1

Note 1: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

Note 2: Adjusted CRQL is equal to SQL (sample-specific contract required quantitation limit).

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 42040 SDG No. F4XP0 SDG Nos. To Follow Mod. Ref No. 2207.0 Date Rec 12/30/11

EPA Lab ID: KAP

Lab Location: The Woodlands, TX

Region: 6 Audit No.: 42040/F4XP0

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

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: Ying-Ping Hsieh / ESAT Data Reviewer Date 2/3/12

Audited by: Date

Signature Printed Name/Title

DC-2__

EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
R

Region:	6	Date Shipped:	12/6/2011
Project Code:	EP-W-06-004	Carrier Name:	FedEx
Account Code:		Airbill:	7954 7732 7083
CERCLIS ID:	TXD099801102	Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065
Spill ID:			
Site Name/State:	State Marine of Port Arthur Superfund Site/		
Project Leader:	STAN WALLACE		
Action:	Five Year Review Sampling		
Sampling Co:	EA Engineering, Science, & Technology		

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	12/6/11 1900		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F4XP0	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499101 (Ice Only), 6-499102 (Ice Only) (2)	N-SD5-1	S: 12/5/2011 10:35		–
F4XP1	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499079 (Ice Only), 6-499080 (Ice Only) (2)	L-SD5-1	S: 12/5/2011 11:30		–
F4XP2	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445851 (Ice Only), 6-445852 (Ice Only), 6-445853 (Ice Only), 6-445854 (Ice Only) (4)	G-SD5-1	S: 12/5/2011 12:05		–

Page 113 of 117

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	F4XP2		
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	Shipment Iced?
SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)			

TR Number: 6-574702950-120611-0002

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040 R
DAS No:

Region:	6	Date Shipped:	12/6/2011	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	EP-W-06-004	Airbill:	7978 0777 7903	1 [signature] 12/6/11 1900	
CERCLIS ID:	TXD099801102	Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065	2	
Spill ID:				3	
Site Name/State:	State Marine of Port Arthur Superfund Site/			4	
Project Leader:	STAN WALLACE				
Action:	Five Year Review Sampling				
Sampling Co:	EA Engineering, Science, & Technology				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F4XP3	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499074 (Ice Only), 6-499075 (Ice Only) (2)	F-SD5-1	S: 12/5/2011 15:05		--
F4XP4	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499037 (Ice Only), 6-499038 (Ice Only) (2)	F-SD5-1 D	S: 12/5/2011 15:05		Field Duplicate
F4XP5	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445855 (Ice Only), 6-445856 (Ice Only) (2)	P-SD5-1	S: 12/5/2011 16:30		--
F4XP6	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445857 (Ice Only), 6-445858 (Ice Only) (2)	D-SD5-1	S: 12/6/2011 10:15		--
F4XQ5	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445875 (Ice Only), 6-445876 (Ice Only) (2)	E-SD5-1	S: 12/6/2011 9:30		--

Page 114 of 117

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)			

TR Number: 6-574702950-120611-0006

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EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
R

Region:	6	Date Shipped:	12/7/2011	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	EP-W-06-004	Airbill:	7954 8232 1669	1 [signature] 12/7/11 1900	
CERCLIS ID:	TXD099801102	Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065	2	
Spill ID:				3	
Site Name/State:	State Marine of Port Arthur Superfund Site/			4	
Project Leader:	STAN WALLACE				
Action:	Five Year Review Sampling				
Sampling Co:	EA Engineering, Science, & Technology				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F4XP7	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445859 (Ice Only), 6-445860 (Ice Only) (2)	C-SD5-1	S: 12/6/2011 11:45		--
F4XP8	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445861 (Ice Only), 6-445862 (Ice Only) (2)	B-SD5-1	S: 12/6/2011 12:30		--
F4XP9	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445863 (Ice Only), 6-445864 (Ice Only) (2)	K-SD5-1	S: 12/6/2011 15:00		--
F4XQ6	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445877 (Ice Only), 6-445878 (Ice Only) (2)	J-SD5-1	S: 12/6/2011 8:45		--

Page 115 of 117

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)			

TR Number: 6-574702950-120711-0004

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EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	

R

Region:	6
Project Code:	EP-W-06-004
Account Code:	
CERCLIS ID:	TXD099801102
Spill ID:	
Site Name/State:	State Marine of Port Arthur Superfund Site/
Project Leader:	STAN WALLACE
Action:	Five Year Review Sampling
Sampling Co:	EA Engineering, Science, & Technology

Date Shipped:	12/8/2011
Carrier Name:	FedEx
Airbill:	7954 8809 5307
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	12/8/11 1400		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F4XQ1	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445867 (Ice Only), 6-445868 (Ice Only) (2)	M-SD5-1	S: 12/7/2011 9:45		--
F4XQ3	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445871 (Ice Only), 6-445872 (Ice Only) (2)	A-SD5-1	S: 12/7/2011 11:45		--
F4XQ4	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445873 (Ice Only), 6-445874 (Ice Only) (2)	A-SD5-1 D	S: 12/7/2011 11:45		Field Duplicate
F4XQ7	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445879 (Ice Only), 6-445880 (Ice Only) (2)	H-SD5-1	S: 12/7/2011 14:35		--

Page 116 of 117

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120811-0006

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
R

Region:	6	Date Shipped:	12/8/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	7954 8837 7410	1 [signature] 12/8/11 1400	
CERCLIS ID:	TXD099801102	Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065	2	
Spill ID:				3	
Site Name/State:	State Marine of Port Arthur Superfund Site/			4	
Project Leader:	STAN WALLACE				
Action:	Five Year Review Sampling				
Sampling Co:	EA Engineering, Science, & Technology				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F4XQ0	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445865 (Ice Only), 6-445866 (Ice Only) (2)	Q-SD5-1	S: 12/7/2011 9:00		--
F4XQ2	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445869 (Ice Only), 6-445870 (Ice Only) (2)	O-SD5-1	S: 12/7/2011 10:30		--
F4XQ8	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445881 (Ice Only), 6-445882 (Ice Only) (2)	R-SD5-1	S: 12/7/2011 15:10		--
F4XQ9	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445883 (Ice Only), 6-445884 (Ice Only) (2)	S-SD5-1	S: 12/7/2011 15:35		--

Page 117 of 117

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120811-0008

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2

LABORATORY NAME. KAP TECHNOLOGIES, INC.
CITY/STATE. THE WOODLANDS/TX
CASE NO. 42040 SDG NO. F4XP0
MOD. REF. NO. 2207.0
CONTRACT NO. EPW11031
SOW NO. SOM1.2

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**	01	11	✓	✓
3.	**SDG Cover Sheet/Traffic Report**	012	17	✓	✓
4.	**Trace Volatiles Data**				
	a. QC Summary				
	Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	NA	NA	NA	N/A
	Matrix Spike/Matrix Spike Duplicate Recover (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 Quantitaation 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				
	Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)				

CASE NO. 42040 SDG NO. F4XP0 SDG TO FOLLOW ----
----- ---- MOD. REF.NO. 2207.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
	—	—	—	N/A
e. Trace SIM Data (Place at the end of the Trace Volatiles Section) [Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]	NA	NA	NA	✓

5. **Low/Med Volatiles Data**

a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)	NA	NA	NA	N/A
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1 and VOA-2) (if requested by USEPA Region)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)				
Tentatively Identified Compounds (Form I VOA-TIC)				
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				
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)				

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

CASE NO. 42040 SDG NO. F4XP0 SDG TO FOLLOW ----

----- ---- MOD. REF.NO. 2207.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
6. Semivolatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II SV-1, SV-2, SV-3, SV-4)	18	19	✓	✓
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)	20	20	✓	✓
Method Blank Summary (Form IV SV)	21	21	✓	✓
GC/MS Instrument Performance Check (Form V SV)	22	24	✓	✓
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	25	28	✓	✓
b. Sample Data	29	414		
TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)			✓	✓
Tentatively Identified Compounds (Form I SV-TIC)			✓	✓
Reconstructed total ion chromatograms (RIC) 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		NA 12/29/11	✓	✓
GPC chromatograms (if GPC is required)		494	✓	✓
c. Standards Data (All Instruments)	415	485		
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)		12/29/11	✓	✓
RICs and Quantitation Reports for all Standards		NA	✓	✓
d. Raw (QC) Data	495			
DFTPP	48	524	✓	✓
Blank Data	525	542	✓	✓
MS/MSD Data (if requested by USEPA Region)	543	550	✓	✓
e. Raw GPC Data	551	563		✓

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

CASE NO. 42040 SDG NO. F4XP0 SDG TO FOLLOW ----
----- ---- MOD. REF.NO. 2207.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
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 SV-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]	564	911	✓	✓
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	912	912	✓	✓
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)	913	914	✓	✓
Laboratory Control Sample Recovery (Form III PEST-3 and PEST-4)	915	915	✓	✓
Method Blank Summary (Form IV PEST)	916	916	✓	✓
b. Sample Data	917	976		
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)			✓	~~✓~~ N/A MH 2/3/12
c. Standards Data	977	1045		
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)			✓	✓

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

CASE NO. 42040 SDG NO. F4XP0 SDG TO FOLLOW ----
----- ---- MOD. REF.NO. 2207.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
Calibration Verification Summary (Form VII PEST-3)			✓	✓
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	1046	1060		✓
Matrix Spike/Matrix Spike Duplicate Data	1061	1068	✓	✓
Laboratory Control Sample	1069	1072	✓	✓
e. Raw GPC Data	1073	1078	✓	✓
f. Raw Florisil Data	1079	1130	✓	✓
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)	1131	1131	✓	✓
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)	1132	1133	✓	✓
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)	1134	~~1135~~ 1134 NLM 10/29/14	✓	✓
Method Blank Summary (Form IV ARO)	1135	1135	✓	✓
b. Sample Data	1136	1275		
TCL Results - Organics Analysis Data Sheet (Form I ARO)			✓	✓
Chromatograms (Primary Column)			✓	✓
Chromatograms from second GC column confirmation			✓	✓
GC Integration report of data system printout			✓	✓
Manual work sheets			✓	✓
For Aroclors by GC/MS			✓	~~✓~~ N/A MH 2/3/12

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

CASE NO. 42040 SDG NO. F4XP0 SDG TO FOLLOW ----

----- ---- MOD. REF.NO. 2207.0

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	N/A MH 2/3/12
c. Standards Data	1276	1468		
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	1469	1491	✓	✓
Matrix Spike/Matrix Spike Duplicate Data	1492	1503	✓	✓
Laboratory Control Sample (LCS) Data	1504	1508	✓	✓
e. Raw GPC Data (if performed)	—	—	—	—
9. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	1509	1555	✓	✓
Internal sample and sample extract transfer chain-of-custody records	1556	1558	✓	✓
Screening records	NA	NA	NA	N/A
All instrument output, including strip charts from screening activities (describe or list)				
----------	NA	NA	NA	
----------	NA	NA	NA	
10. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 5)	1559 MH 12/29/11	1563	✓	✓
Chain of Custody Records	1564	1568	✓	✓
Sample Tags	1569	1580 12/29/11	✓	✓
Sample Log-in Sheet (Lab & DC-1)	1581	1589	✓	✓
Miscellaneous Shipping/Receiving Records (describe or list)				
CUSTODY SEALS	1593	1597	✓	✓
----------	NA	NA	NA	N/A

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

CASE NO. 42040 SDG NO. F4XP0 SDG TO FOLLOW ----
----- ---- MOD. REF.NO. 2207.0

	PAGE NOs. FROM	TO	CHECK LAB	REGION
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
----------	---	---	---	N/A
----------	---	---	---	
12. **Other Records** (describe or list)				
Telephone Communication Log	---	---	---	
PE SAMPLE INSTRUCTIONS				
EMAIL COMMUNICATION				

13. **Comments**

Completed by: Nicole Hogue (Signature) NICOLE HOGUE/CLP COORDINATOR (Printed Name/Title) 12/29/11 (Date)
(CLP Lab)

Verified by: (Signature) VISHNUVARDAHN DAVLAPUR/P.M. (Printed Name/Title) 12/29/11 (Date)
(CLP Lab)

Audited by: (Signature) Ying Ping Hsieh/Data Reviewer (Printed Name/Title) 2/3/12 (Date)
~~(USEPA)~~ ESAT

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW11031	Case No. 42040	SDG No. F4XP0

SDG NARRATIVE **Mod. 2207.0**

SAMPLE RECEIPT:

On 12/07/11 @ 11:30 A.M. - Received two coolers via FedEx with shipment numbers 795477327083 and 797807777903. The cooler temperature was 0.8^0C and 1.0^0C.

On 12/08/11 @ 10:25 A.M. - Received one cooler via FedEx with shipment number 795482321669. The cooler temperature was 0.9^0C.

On 12/09/11 @ 10:20 A.M. - Received two coolers via FedEx with shipment numbers 795488095307 and 795488377410. The cooler temperature was 1.4^0C and 1.3^0C.

The package contained the following samples for SVOA, SVSIM, PESTICIDES and AROCLORS per MA. 2207.0 analyses.
The custody seals and the samples were intact.

EPA SAMPLE ID	pH	EPA SAMPLE ID	pH
F4XP0	8.0	F4XP9	8.3
F4XP1	7.5	F4XQ6	7.7
F4XP2	6.9	F4XQ0	8.1
F4XP3	7.2	F4XQ1	7.9
F4XP4	7.6	F4XQ2	7.6
F4XP5	7.2	F4XQ3	7.4
F4XP6	6.9	F4XQ4	7.4
F4XQ5	7.3	F4XQ7	8.4
F4XP7	8.1	F4XQ8	8.2
F4XP8	7.6	F4XQ9	8.5
F4XP2MS	6.9	F4XP2MS	6.9

No problems were encountered during sample receiving and login.

SEMIVOLATILES SOIL:

The soil sample was extracted on 12/13/2011 using sonication method as per statement of work SOM 1.2. The sample was cleaned by the GPC. No problems were encountered during the extraction and analysis.

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW11031	Case No. 42040	SDG No. F4XP0

SDG NARRATIVE **Mod. 2207.0**

The samples were analyzed on instrument D-5973 GC/MS using a 30 meters long RTX-5MS column having a 0.25mm ID and 0.25µm film thickness.

No problems were encountered during the sample analyses.

The formula used to calculate the Sample concentration:

SOIL SAMPLES:

$$\text{Concentration of Soil, Sediment sample ug/kg} = \frac{(Ax)(Is)(Vt)(DF)(GPC)}{(Ais)(RRF)(Vi)(Ws)(D)}$$

Where,

Ax, Is, Vin, Vout are given for water, above.
Vt = Volume of concentrated extract in uL.
Vi = Volume of extract injected.
GPC = GPC cleaning Factor.

$$D = \frac{100 - \%\text{moisture}}{100}$$

Ws = Weight of sample extract.
RRF = Mean relative Response Factor determined from the initial calibration standard.
DF = Dilution Factor.

Manual Integrations:

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

F4XQ2 – 2,4-Dichlorophenol-d3
SSTD0808S – Fluorene-d10
SSTD0808S – Caprolactam
SSTD0808S – 2,4,5-Trichlorophenol
SSTD0808S – 4-Nitroaniline
SSTD0808S – Di-n-octylphthalate
SSTD0808S – Benzo(b)fluoranthene
SSTD0408S – Caprolactam
SSTD0208S – Pentachlorophenol
SSTD0208S – Benzo(k)fluoranthene
SSTD0108S – 2,4-Dichlorophenol-d3
SSTD0108S – Caprolactam
SSTD0108S – 2,4,5-Trichlorophenol
SSTD0108S – 2,4-Dintirophenol
SSTD0108S – 2,4-Dintirotoluene

SSTD0108S – Pentachlorophenol
SSTD0108S – Beno(b)fluoranthene
SSTD0058S – 2,4-Dichlorophenol-d3
SSTD0058S – 4-Methylphenol
SSTD0058S – 2,4-Dichlorophenol
SSTD0058S – Caprolactam
SSTD0058S – 2,4,5-Trichlorophenol
SSTD0058S – 2,4-Dintirotoluene
SSTD0058S – Beno(b)fluoranthene
SSTD0208T – Caprolactam
SSTD0208T – Pentachlorophenol
SSTD0208V – 2,4-Dinitrophenol
SSTD0208W – 2,4-Dinitrotoluene

SEMIVOLATILES SOIL - SIM:

The soil sample was extracted on 12/13/2011 using sonication method as per statement of work SOM 1.2. The sample was cleaned by the GPC. No problems were encountered during the extraction and analysis.

The samples were analyzed on instrument C-5975 GC/MS using a 30 meters long RTX-5MS column having a 0.25mm ID and 0.25µm film thickness.

The samples F4XP5, F4XQ6, F4XQ3 and F4XQ7 had the target compound concentrations above the calibration range and were analyzed using the dilution in order to bring the target compound concentrations with in the calibration range. The analyses were reported and are billable.

No other problems were encountered during the sample analyses.

The formula used to calculate the Sample concentration:

SOIL SAMPLES:

$$\text{Concentration of Soil, Sediment sample ug/kg} = \frac{(Ax)(Is)(Vt)(DF)(GPC)}{(Ais)(RRF)(Vi)(Ws)(D)}$$

Where,

Ax, Is, Vin, Vout are given for water, above.
Vt = Volume of concentrated extract in uL.
Vi = Volume of extract injected.
GPC = GPC cleaning Factor.

$$D = \frac{100 - \%\text{moisture}}{100}$$

Ws = Weight of sample extract.
RRF = Mean relative Response Factor determined from the initial calibration standard.

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW11031	Case No. 42040	SDG No. F4XP0

SDG NARRATIVE **Mod. 2207.0**

DF = Dilution Factor.

Manual Integrations:

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

F4XP0 – Perylene-d12
F4XP1 - Perylene-d12
F4XP2 – Perylene-d12
F4XP3 – Perylene-d12
F4XP4 – Perylene-d12
F4XP5 – Perylene-d12
F4XP5 – Chrysene
F4XP5DL – Chrysene
F4XP6 – Perylene-d12
F4XP7 – Perylene-d12
F4XP8 – Perylene-d12
F4XP9 – Perylene-d12
F4XP9 – Benzo(k)fluoranthene
F4XQ0 – Perylene-d12
F4XQ1 – Perylene-d12
F4XQ2 – Perylene-d12
F4XQ3 – Perylene-d12
F4XQ3DL – 2-Methylnaphthalene-d10
F4XQ3DL – Acenaphthylene
F4XQ4 – Perylene-d12
F4XQ5 – Perylene-d12
F4XQ6 – Perylene-d12
F4XQ7 – Perylene-d12
F4XQ7 – Phenanthrene-d10
F4XQ7 – Indeno(1,2,3-cd) pyrene
F4XQ7 – Benzo(g,h,I)perylene
F4XQ8 – Perylene-d12
F4XQ8 – Benzo(a)pyrene
F4XQ8 – Indeno(1,2,3-cd) pyrene
F4XQ8 – Benzo(g,h,I)perylene
F4XQ9 – Perylene-d12
F4XQ9 – Benzo(a)pyrene
F4XQ9 – Benzo(g,h,I)perylene
SBLK67 – Perylene-d12
F4XP2MS – Perylene-d12
F4XP2MS – Benzo(a)pyrene
F4XP2MSD – Perylene-d12
F4XP2MSD – Benzo(a)fluoranthene

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW11031	Case No. 42040	SDG No. F4XP0

SDG NARRATIVE **Mod. 2207.0**

PESTICIDES:

The soil sample was extracted on 12/15/2011 using sonication method as per statement of work SOM1.2. The soil sample was cleaned by GPC. After GPC clean up the extract was concentrated to a final volume of 5mL.

No problems were encountered during extraction and sample analyses.

*1) RTX – CLP2: 30m*0.53mmID*0.41um film thickness. (Primary Column)*
*2) RTX – CLP: 30m*0.53mmID*0.50um film thickness. (Confirmation Column)*

A 1uL injection was used.

The formula used to calculate the Sample concentration:

SOIL SAMPLES:

$$\text{Concentration of Target compound in soil/sediment} = \frac{(Ax)(Vt)(DF)(GPC)}{(CF)(Vi)(Ws)(D)}$$

Where,

Ax = Response of the compound to be measured.
CF = Mean calibration factor from the initial calibration (area/ng)
Vt = 5,000 uL.
Vi = Volume of extract injected.
Ws = Weight of sample extracted.
GPC = GPC Factor
DF = Dilution Factor

$$D = \frac{100 - \%\text{moisture}}{100}$$

Manual Integrations:

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

PEMY2 – 4'4-DDD
TOXAPH1Y2 – Decachlorobiphenyl
TOXAPH2Y2 – Decachlorobiphenyl
INDC1Y1 – Decachlorobiphenyl
INDC1Y2 – Decachlorobiphenyl
INDC1Y2 – 2,4,5-Trichlorophenol
PEMZ2 – Decachlorobiphenyl

AROCLORS:

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW11031	Case No. 42040	SDG No. F4XP0

SDG NARRATIVE **Mod. 2207.0**

The soil sample was extracted on 12/14/11 using sonication method as per statement of work SOM1.2. As per MA-2207.0 more than 30 gram sample sweight was used to get 30 gram dry weight sample to meet the MA CRQL's. As per MA the Aroclors: 1221, 1242 and 1254 were calibrated with 20, 100, 200, 400 and 800 ng/mL to meet the CRQL's for these compounds. Aroclor 1660 were calibrated at regular levels. As per MA, Arclor-1242 was spiked in LCS and Aroclor-1254 was spiked in matrix spike samples. This information was e-mailed to SMO prior to the submission of this package.

No problems were encountered during extraction.

The samples were analyzed on a P-6890 GC using two columns manufactured by Restek.

RTX – CLP2: 30m*0.53mmID*0.41um film thickness. (Primary Column)
RTX – CLP: 30m*0.53mmID*0.50um film thickness. (Confirmation Column)
A 1uL injection was used.

No problems were encountered during the sample analyses.

The formula used to calculate the Sample concentration:

SOIL SAMPLE:

$$\text{Concentration of Target compound in soil/sediment} = \frac{(Ax)(Vt)(DF)}{(CF)(Vi)(Ws)(D)}$$

Ax = Response of the compound to be measured.
CF = Mean calibration factor from the initial calibration (area/ng)
Vt = 10,000 uL.
Vi = Volume of extract injected.
Ws = Weight of sample extracted.

$$D = \frac{100 - \%\text{moisture}}{100}$$

DF = Dilution Factor.

Manual Integrations:

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

F4XP9 – AR1254-2
F4XQ1 – AR1254-2
AR1242111 – Decachlorbiphenyl
AR1242112 – Decachlorbiphenyl

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW11031	Case No. 42040	SDG No. F4XP0

SDG NARRATIVE **Mod. 2207.0**

AR1242212 – Decachlorbiphenyl
AR1221111 – AR1221-2
AR1221112 – AR1221-1
AR1221512 – AR1221-1
AR1221512 – AR1221-2
AR1660352 – AR1260-3
AR1221351 – Decachlorbiphenyl
AR1242351 – AR1242-1
AR1242352 – AR1242-3
AR1254351 – Decachlorbiphenyl
ALCS56 – AR1242-3

I certify that this 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 hard copy 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:

Nicole Hogue

Nicole Hogue/ CLP Coordinator

12/29/11

Date of Signature

Request for Quote (RFQ) for Modified Analysis

Date: November 21, 2011

Subject: Modification Reference Number: 2207.0
Title: Lower CRQLs with Initial Five-Point Calibrations for Aroclor-1221, Aroclor-1242, and Aroclor-1254 and Percent Moisture
Sample Matrix: Soil/Sediment and Water
Fraction Affected: Aroclor
Statement of Work: SOM01.2

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Organic Statement of Work (SOW) SOM01.2, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW SOM01.2 remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW SOM01.2.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

Modification to the SOW Specifications:

SOW SOM01.2 requires contract Laboratories to analyze samples for Aroclor target compounds through the protocol outlined in Exhibit D, Analytical Method for the Analysis of Aroclors. Specific Aroclor target compounds and their associated Contract Required Quantitation Limits (CRQLs) are listed in Exhibit C, Section 4.0.

The proposed modification will require the Laboratory to analyze soil, sediment and water samples for the same Aroclor target compounds specified in SOW SOM01.2 but with lower CRQLs for the compounds in Table 1, in addition to the changes detailed below:

Table 1 - Aroclor Target Compounds with Lower CRQLs

Compound	CAS Number	Soil CRQL (ug/kg)	Water CRQL (ug/L)
Aroclor-1221	11104-28-2	6.6	0.20
Aroclor-1242	53469-21-9	6.6	0.20
Aroclor-1254	11097-69-1	6.6	0.20

The CRQLs listed in Table 1 are based on a 30g sample extract amount for the soil samples and 1L for the water samples. *MDLs must be less than ½ the CRQLs. MDL summary data is to be submitted in the miscellaneous section of the package, section 9.*

Percent Moisture Determination:

The Laboratory is to determine the %Moisture of the soils and/or sediments before sample extraction. The %Moisture is to be used to calculate the additional amount of soil or sediment to be extracted such that 30 grams (dry weight) of sample is extracted. A maximum of 50 grams (wet weight) is to be extracted.

Calibrations:

In addition to Aroclor-1660, five-point initial calibrations shall be performed for Aroclor-1221, Aroclor-1242, and Aroclor-1254 prior to sample analysis. The initial calibration shall contain the low point standard concentration at 20ng/mL ***for the three compounds in Table 1***. The Laboratory may drop the highest point standard at 1600 ng/mL. A 6-point initial calibration may be performed using the following standard concentrations 20/100/200/400/800/1600 ng/mL. The same SOW percent relative standard deviation (%RSD) limits apply to a 5-point or 6-point initial calibration.

The remaining target compounds can be calibrated according to the protocol in Exhibit D. A five-point calibration is also required for any other detected Aroclors, according to the SOW.

Opening and Closing Continuing Calibrations shall include an Instrument Blank, Aroclor-1660, Aroclor-1221, Aroclor-1242, Aroclor-1254, and ***any other detected Aroclors***, performed at the frequency specified in the SOW.

Laboratory Control Sample (LCS):

One LCS is required per Sample Delivery Group (SDG). The Laboratory shall spike the LCS with Aroclor 1242 at a concentration that is 2X the required CRQL. The percent recovery (%R) shall be 60-140%. Corrective action for an LCS failure remains according to the SOW requirements.

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

The Laboratory shall spike the MS/MSD with Aroclor-1254, instead of Aroclor-1016 and Aroclor-1260, and at the same spiking level as specified in the SOW for Aroclor-1016 and Aroclor-1260. The %R of Aroclor-1254 must be within 60-140% and the Relative Percent Difference (RPD) shall be 30%. No corrective action shall be required for %R or RPD failure.

Special Reporting requirements:

In order to achieve the lower CRQL, the Laboratory shall reduce the final extract volume and/or increase the sample size. ***The Laboratory shall notify SMO prior to data delivery of all steps utilized to achieve the reported CRQLs. The Laboratory shall report the actual adjusted CRQLs achieved for the full target compound list submitted based on the methods employed, even if these are below the CRQLs specified in Table 1 and the SOW.***

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW SOM01.2. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via email at CCSSUPPORT@fedcsc.com for resolution.

All samples analyzed for the same fraction within an SDG must be analyzed under the same fractional requirements. The Laboratory shall not include data for the same fraction with different requirements in the same SDG.

The Laboratory shall include the Modification Reference Number 2207.0 on each hardcopy data form under the "Mod. Ref. No." header appearing on each form as well as the data element "ServicesID" under the "SamplePlusMethod" node of the EDD. This should be done for the fractions affected by the modified analysis only. The "ServicesID" field should remain blank for all other fractions reported in the SDG. The Laboratory shall also document the Modification Reference Number and the Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name:
Laboratory Comments:

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number	F4XP0	Case Number	42040	Contract Number	EPW11031
Lab Code	KAP	SDG Turnaround	21 DAY	Delivery CLIN(s)	_____

First Sample Received in SDG	F4XP0	Last Sample Received in SDG	F4XQ9
First Sample Receipt Date	12/07/2011	Last Sample Receipt Date	12/09/2011

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1 F4XP0	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
2 F4XP1	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
3 F4XP2	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
4 F4XP3	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
5 F4XP4	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
6 F4XP5	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
7 F4XP6	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
8 F4XQ5	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
9 F4XP7	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
10 F4XP8	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
11 F4XP9	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
12 F4XQ6	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
13 F4XQ0	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
14 F4XQ1	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
15 F4XQ2	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
16 F4XQ3	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
17 F4XQ4	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
18 F4XQ7	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
19 F4XQ8	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0
20 F4XQ9	SOIL	SVOA, SVSIM, PEST, ARO	1690	2207.0

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

Signature _____ Date 12/12/2011

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	
SDG No:	F4XP0 L

Date Shipped:	12/6/2011
Carrier Name:	FedEx
Airbill:	7954 7732 7083
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	12/6/11 1900	
2		
3		12/7/11 11:30
4		

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPW11031
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XP0	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499101 (Ice Only), 6-499102 (Ice Only) (2)	N-SD5-1	S: 12/5/2011	10:35	S-4460.01	1st Pan
F4XP1	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499079 (Ice Only), 6-499080 (Ice Only) (2)	L-SD5-1	S: 12/5/2011	11:30	.02	
F4XP2	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445851 (Ice Only), 6-445852 (Ice Only), 6-445853 (Ice Only), 6-445854 (Ice Only) (4)	G-SD5-1	S: 12/5/2011	12:05	.03	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F4XP2	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: .08°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120611-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	
SDG No:	F4XP0 L

Date Shipped:	12/6/2011
Carrier Name:	FedEx
Airbill:	7978 0777 7963
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[signature]	12/6/11 1901		
2				
3			[signature]	12/7/11 11:30
4				

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: EPW11031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XP3	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499074 (Ice Only), 6-499075 (Ice Only) (2)	F-SD5-1	S: 12/5/2011	15:05	S-4460-04	
F4XP4	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499037 (Ice Only), 6-499038 (Ice Only) (2)	F-SD5-1 D	S: 12/5/2011	15:05	-05	
F4XP5	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445855 (Ice Only), 6-445856 (Ice Only) (2)	P-SD5-1	S: 12/5/2011	16:30	-06	
F4XP6	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445857 (Ice Only), 6-445858 (Ice Only) (2)	D-SD5-1	S: 12/6/2011	10:15	-07	
F4XQ5	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445875 (Ice Only), 6-445876 (Ice Only) (2)	E-SD5-1	S: 12/6/2011	9:30	-08	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.0°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120611-0006

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
SDG No: F4XP0 **L**

Date Shipped:	12/7/2011
Carrier Name:	FedEx
Airbill:	7954 8232 1669
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	12/7/11 1900	
2		
3		12/8/11 10:25
4		

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW11031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XP7	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445859 (Ice Only), 6-445860 (Ice Only) (2)	C-SD5-1	S: 12/6/2011	11:45	S-4465.01	
F4XP8	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445861 (Ice Only), 6-445862 (Ice Only) (2)	B-SD5-1	S: 12/6/2011	12:30	.02	
F4XP9	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445863 (Ice Only), 6-445864 (Ice Only) (2)	K-SD5-1	S: 12/6/2011	15:00	.03	
F4XQ6	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445877 (Ice Only), 6-445878 (Ice Only) (2)	J-SD5-1	S: 12/6/2011	8:45	.04	

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:** 0.9°C	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G		**Custody Seal Intact?** Y **Shipment Iced?** Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120711-0004

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	
SDG No:	F4XPO L

Date Shipped:	12/8/2011
Carrier Name:	FedEx
Airbill:	7954 8837 7410
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Sampler Signature:

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	Steel	12/8/11 1400		
2				
3			Cornelius Noel	
4				12/9/11 10:20

For Lab Use Only

Lab Contract No:	EPW11031
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XQ0	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445865 (Ice Only), 6-445866 (Ice Only) (2)	Q-SD5-1	S: 12/7/2011	9:00	S-4476.01	
F4XQ2	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445869 (Ice Only), 6-445870 (Ice Only) (2)	O-SD5-1	S: 12/7/2011	10:30	.03	
F4XQ8	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445881 (Ice Only), 6-445882 (Ice Only) (2)	R-SD5-1	S: 12/7/2011	15:10	.07	
F4XQ9	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445883 (Ice Only), 6-445884 (Ice Only) (2)	S-SD5-1	S: 12/7/2011	15:35	.08	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.3°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120811-0008

LABORATORY COPY

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	
SDG No:	F4XPO L

Date Shipped:	12/8/2011
Carrier Name:	FedEx
Airbill:	7954 8809 5307
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	12/8/11 1400		
2			
3			12/9/11 10:20
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW11031

Unit Price:

Transfer To:

Lab Contract No:

Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XQ1	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445867 (Ice Only), 6-445868 (Ice Only) (2)	M-SD5-1	S: 12/7/2011	9:45	S-4476.02	
F4XQ3	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445871 (Ice Only), 6-445872 (Ice Only) (2)	A-SD5-1	S: 12/7/2011	11:45	.04	
F4XQ4	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445873 (Ice Only), 6-445874 (Ice Only) (2)	A-SD5-1 D	S: 12/7/2011	11:45	.05	
F4XQ7	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445879 (Ice Only), 6-445880 (Ice Only) (2)	H-SD5-1	S: 12/7/2011	14:35	.06	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.4°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120811-0006

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

2J - FORM II SV-3

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK67	90	82	89	86	87	94	82	115
02	F4XP0	90	84	87	86	86	94	80	81
03	F4XP1	89	80	86	87	89	99	89	71
04	F4XP2	80	72	79	81	80	91	78	79
05	F4XP3	79	72	76	76	79	90	78	89
06	F4XP4	81	74	80	79	81	88	78	94
07	F4XP5	77	69	75	77	78	89	80	83
08	F4XP6	75	67	71	76	74	79	75	70
09	F4XQ5	81	73	78	78	80	93	79	89
10	F4XP7	82	73	81	85	82	91	82	98
11	F4XP8	82	72	79	81	79	93	81	88
12	F4XP9	76	69	74	74	73	86	74	84
13	F4XQ6	79	72	77	79	79	92	80	99
14	F4XQ0	84	78	83	85	89	94	85	87
15	F4XQ1	82	77	83	85	86	97	81	105
16	F4XQ2	90	81	87	90	91	101	87	102
17	F4XQ3	87	80	89	91	87	105 *	87	101
18	F4XQ4	81	73	79	83	83	94	83	99
19	F4XQ7	85	79	85	89	88	102	91	99
20	F4XQ8	88	79	84	88	87	102	88	105
21	F4XQ9	94	85	96	96	95	108 *	93	121
22	F4XP2MS	82	75	81	91	81	94	76	103
23	F4XP2MSD	82	78	82	94	76	95	83	101
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis-(2-chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK67	86	85	80	81	55	83	81	79	0
02	F4XP0	89	89	99	84	84	87	75	80	0
03	F4XP1	90	89	99	83	97	89	86	86	0
04	F4XP2	81	81	94	75	82	80	79	76	0
05	F4XP3	82	80	93	75	80	80	80	77	0
06	F4XP4	82	79	96	74	70	79	80	77	0
07	F4XP5	83	79	95	75	82	80	80	80	0
08	F4XP6	81	77	94	74	81	78	81	76	0
09	F4XQ5	83	80	92	76	82	82	83	80	0
10	F4XP7	84	81	105	76	83	80	78	80	0
11	F4XP8	88	84	107	82	92	87	84	85	0
12	F4XP9	78	75	101	72	83	78	76	75	0
13	F4XQ6	83	80	104	79	91	82	80	77	0
14	F4XQ0	86	83	107	79	106	85	82	82	0
15	F4XQ1	88	84	104	80	103	86	86	84	0
16	F4XQ2	90	88	118	85	113	89	88	87	0
17	F4XQ3	88	85	114	80	113	88	85	85	1
18	F4XQ4	88	85	122	81	127 *	88	87	84	1
19	F4XQ7	92	90	129	86	124 *	89	84	86	1
20	F4XQ8	87	86	114	81	111	83	83	81	0
21	F4XQ9	94	90	119	89	122 *	92	93	89	2
22	F4XP2MS	81	80	117	77	101	80	76	78	0
23	F4XP2MSD	82	82	118	77	104	79	75	76	0
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenapthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Antracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix Spike - EPA Sample No.: F4XP2 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC LIMITS REC.
Phenol	1090	0	1100	101 *	26-90
2-Chlorophenol	1090	0	1100	101	25-102
N-Nitroso-di-n-propylamine	1090	0	850	78	41-126
4-Chloro-3-methylphenol	1090	0	1200	110 *	26-103
Acenaphthene	1090	0	780	72	31-137
4-Nitrophenol	1090	0	1500	138 *	11-114
2,4-Dinitrotoluene	1090	0	900	83	28-89
Pentachlorophenol	1090	0	1200	110 *	17-109
Pyrene	1090	0	760	70	35-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1080	1100	102 *	1	0-35	26-90
2-Chlorophenol	1080	1100	102	1	0-50	25-102
N-Nitroso-di-n-propylamine	1080	840	78	0	0-38	41-126
4-Chloro-3-methylphenol	1080	1200	111 *	1	0-33	26-103
Acenaphthene	1080	780	72	0	0-19	31-137
4-Nitrophenol	1080	1600	148 *	7	0-50	11-114
2,4-Dinitrotoluene	1080	940	87	5	0-47	28-89
Pentachlorophenol	1080	1300	120 *	9	0-47	17-109
Pyrene	1080	760	70	0	0-36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 8 out of 18 outside limits

COMMENTS: _____

_____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: D05486 Lab Sample ID: SBLK67

Instrument ID: D-5973 Date Extracted 12/13/2011

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/14/2011

Level: (LOW/MED) LOW Time Analyzed: 1245

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F4XP0	S-4460.01	D05487	12/14/2011
02	F4XP1	S-4460.02	D05488	12/14/2011
03	F4XP2	S-4460.03	D05489	12/14/2011
04	F4XP3	S-4460.04	D05490	12/14/2011
05	F4XP4	S-4460.05	D05491	12/14/2011
06	F4XP5	S-4460.06	D05492	12/14/2011
07	F4XP6	S-4460.07	D05493	12/14/2011
08	F4XQ5	S-4460.08	D05494	12/14/2011
09	F4XP7	S-4465.01	D05496	12/14/2011
10	F4XP8	S-4465.02	D05497	12/14/2011
11	F4XP9	S-4465.03	D05501	12/15/2011
12	F4XQ6	S-4465.04	D05502	12/15/2011
13	F4XQ0	S-4476.01	D05503	12/15/2011
14	F4XQ1	S-4476.02	D05504	12/15/2011
15	F4XQ2	S-4476.03	D05505	12/15/2011
16	F4XQ3	S-4476.04	D05506	12/15/2011
17	F4XQ4	S-4476.05	D05507	12/15/2011
18	F4XQ7	S-4476.06	D05508	12/15/2011
19	F4XQ8	S-4476.07	D05509	12/15/2011
20	F4XQ9	S-4476.08	D05510	12/15/2011
21	F4XP2MS	S-4460.03MS	D05511	12/15/2011
22	F4XP2MSD	S-4460.03MSD	D05512	12/15/2011
23				
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30				

COMMENTS: _____

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPP8S

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: D05477 DFTPP Injection Date: 12/13/2011

Instrument ID: D-5973 DFTPP Injection Time: 1003

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	61.97	
68	Less than 2.0% of mass 69	0.83	(1.51)1
69	Mass 69 relative abundance	55.29	
70	Less than 2.0% of mass 69	0.13	(0.23)1
127	10.0 - 80.0% of mass 198	58.19	
197	Less than 2.0% of mass 198	0.60	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	7.06	
275	10.0 - 60.0% of mass 198	20.05	
365	Greater than 1.0% of mass 198	3.13	
441	Present, but less than mass 443	79.56	
442	50.0 - 100.0% of mass 198	64.82	
443	15.0 - 24.0% of mass 442	11.95	(18.43)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	SSTD0808S	SSTD0808S	D05478	12/13/2011	1217
02	SSTD0408S	SSTD0408S	D05479	12/13/2011	1248
03	SSTD0208S	SSTD0208S	D05480	12/13/2011	1612
04	SSTD0108S	SSTD0108S	D05481	12/13/2011	1642
05	SSTD0058S	SSTD0058S	D05482	12/13/2011	1712
06					
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5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPP8T

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: D05483 DFTPP Injection Date: 12/14/2011

Instrument ID: D-5973 DFTPP Injection Time: 0953

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	60.74	
68	Less than 2.0% of mass 69	0.71	(1.26)1
69	Mass 69 relative abundance	56.09	
70	Less than 2.0% of mass 69	0.47	(0.84)1
127	10.0 - 80.0% of mass 198	55.72	
197	Less than 2.0% of mass 198	0.87	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.81	
275	10.0 - 60.0% of mass 198	19.38	
365	Greater than 1.0% of mass 198	2.90	
441	Present, but less than mass 443	85.10	
442	50.0 - 100.0% of mass 198	55.60	
443	15.0 - 24.0% of mass 442	10.66	(19.17)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	SSTD0208T	SSTD0208T	D05484	12/14/2011	1144
02	SBLK67	SBLK67	D05486	12/14/2011	1245
03	F4XP0	S-4460.01	D05487	12/14/2011	1445
04	F4XP1	S-4460.02	D05488	12/14/2011	1515
05	F4XP2	S-4460.03	D05489	12/14/2011	1546
06	F4XP3	S-4460.04	D05490	12/14/2011	1617
07	F4XP4	S-4460.05	D05491	12/14/2011	1648
08	F4XP5	S-4460.06	D05492	12/14/2011	1719
09	F4XP6	S-4460.07	D05493	12/14/2011	1749
10	F4XQ5	S-4460.08	D05494	12/14/2011	1820
11	F4XP7	S-4465.01	D05496	12/14/2011	1920
12	F4XP8	S-4465.02	D05497	12/14/2011	1951
13	SSTD0208U	SSTD0208U	D05498	12/14/2011	2052
14					
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22					

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPP8V

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: D05499 DFTPP Injection Date: 12/15/2011

Instrument ID: D-5973 DFTPP Injection Time: 0955

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	61.88	
68	Less than 2.0% of mass 69	0.91	(1.62)1
69	Mass 69 relative abundance	56.30	
70	Less than 2.0% of mass 69	0.28	(0.51)1
127	10.0 - 80.0% of mass 198	56.96	
197	Less than 2.0% of mass 198	0.35	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.69	
275	10.0 - 60.0% of mass 198	21.33	
365	Greater than 1.0% of mass 198	2.94	
441	Present, but less than mass 443	81.04	
442	50.0 - 100.0% of mass 198	58.76	
443	15.0 - 24.0% of mass 442	11.48	(19.53)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	SSTD0208V	SSTD0208V	D05500	12/15/2011	1033
02	F4XP9	S-4465.03	D05501	12/15/2011	1105
03	F4XQ6	S-4465.04	D05502	12/15/2011	1136
04	F4XQ0	S-4476.01	D05503	12/15/2011	1206
05	F4XQ1	S-4476.02	D05504	12/15/2011	1237
06	F4XQ2	S-4476.03	D05505	12/15/2011	1308
07	F4XQ3	S-4476.04	D05506	12/15/2011	1338
08	F4XQ4	S-4476.05	D05507	12/15/2011	1409
09	F4XQ7	S-4476.06	D05508	12/15/2011	1440
10	F4XQ8	S-4476.07	D05509	12/15/2011	1511
11	F4XQ9	S-4476.08	D05510	12/15/2011	1541
12	F4XP2MS	S-4460.03MS	D05511	12/15/2011	1612
13	F4XP2MSD	S-4460.03MSD	D05512	12/15/2011	1643
14	SSTD0208W	SSTD0208W	D05513	12/15/2011	1825
15					
16					
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8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208T Date Analyzed: 12/14/2011

Lab File ID (Standard): D05484 Time Analyzed: 1144

Instrument ID: D-5973

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	2496537		5.61		11387230		8.37		6909419		12.29	
	UPPER LIMIT	4993074		6.11		22774460		8.87		13818838		12.79	
	LOWER LIMIT	1248268		5.11		5693615		7.87		3454709		11.79	
	EPA SAMPLE NO.												
01	SBLK67	2846222		5.61		13185852		8.37		8066498		12.29	
02	F4XP0	2734400		5.61		12693332		8.37		7726732		12.29	
03	F4XP1	3066796		5.61		13802654		8.37		8545773		12.29	
04	F4XP2	3733667		5.61		17111882		8.37		10575399		12.29	
05	F4XP3	3567044		5.62		15415287		8.37		9404367		12.29	
06	F4XP4	2963256		5.61		13298301		8.37		8162181		12.29	
07	F4XP5	2763273		5.61		12511279		8.37		7834960		12.29	
08	F4XP6	3412923		5.61		15607654		8.37		9758201		12.29	
09	F4XQ5	3163292		5.62		14206073		8.37		8729380		12.29	
10	F4XP7	2750104		5.61		13055969		8.37		8552905		12.29	
11	F4XP8	2756360		5.61		12416290		8.37		7946178		12.29	
12	SSTD0208U	3116665		5.61		14635585		8.37		9229595		12.29	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (DCB) = Acenapthene-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 QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

EPA Sample No.(SSTD020##): SSTD0208T Date Analyzed: 12/14/2011

Lab File ID (Standard): D05484 Time Analyzed: 1144

Instrument ID: D-5973 GC Column: RTX-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	12661137	14.33	12349977	17.16	11094988	18.98
	UPPER LIMIT	25322274	14.83	24699954	17.66	22189976	19.48
	LOWER LIMIT	6330568	13.83	6174988	16.66	5547494	18.48
	EPA SAMPLE NO.						
01	SBLK67	15107236	14.32	14844471	17.15	13285248	18.98
02	F4XP0	13439776	14.33	15351719	17.16	14613243	18.99
03	F4XP1	14841458	14.33	14734882	17.16	13741309	18.99
04	F4XP2	18253363	14.33	16917055	17.16	16033813	18.99
05	F4XP3	16108137	14.33	15642494	17.16	14116593	18.99
06	F4XP4	14264757	14.33	13965518	17.16	13212504	18.99
07	F4XP5	13502787	14.33	13329113	17.16	12325106	18.99
08	F4XP6	16748800	14.33	15854328	17.16	14443318	18.99
09	F4XQ5	14689095	14.33	13290020	17.16	11965312	18.99
10	F4XP7	15283791	14.32	15850377	17.16	14416563	18.98
11	F4XP8	14112264	14.32	14511978	17.15	13576755	18.98
12	SSTD0208U	17526467	14.32	16653403	17.16	14281041	18.98
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 QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208V Date Analyzed: 12/15/2011

Lab File ID (Standard): D05500 Time Analyzed: 1033

Instrument ID: D-5973

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	2695886		5.61		12089776		8.37		7475948		12.29	
	UPPER LIMIT	5391772		6.11		24179552		8.87		14951896		12.79	
	LOWER LIMIT	1347943		5.11		6044888		7.87		3737974		11.79	
	EPA SAMPLE NO.												
01	F4XP9	2760794		5.61		12484044		8.36		7941668		12.29	
02	F4XQ6	2662822		5.61		12133294		8.37		7688794		12.29	
03	F4XQ0	2962307		5.61		13317458		8.37		8596017		12.29	
04	F4XQ1	2867811		5.61		13240519		8.37		8287578		12.29	
05	F4XQ2	2480422		5.61		11505366		8.37		7165179		12.29	
06	F4XQ3	2818722		5.61		13277901		8.37		8419645		12.29	
07	F4XQ4	2890509		5.61		13157164		8.37		8138721		12.29	
08	F4XQ7	2864753		5.61		13273143		8.37		8465125		12.29	
09	F4XQ8	2919441		5.61		13419615		8.37		8654599		12.29	
10	F4XQ9	2647175		5.62		12793829		8.37		8318660		12.30	
11	F4XP2MS	2259849		5.61		10604733		8.37		7010491		12.29	
12	F4XP2MSD	2306377		5.62		11301901		8.37		7335102		12.29	
13	SSTD0208W	2244966		5.61		10529393		8.37		6582910		12.29	
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (DCB) = Acenapthene-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 QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

EPA Sample No.(SSTD020##): SSTD0208V Date Analyzed: 12/15/2011

Lab File ID (Standard): D05500 Time Analyzed: 1033

Instrument ID: D-5973 GC Column: RTX-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	13582454	14.32	12642118	17.15	11012667	18.98
	UPPER LIMIT	27164908	14.82	25284236	17.65	22025334	19.48
	LOWER LIMIT	6791227	13.82	6321059	16.65	5506333	18.48
	EPA SAMPLE NO.						
01	F4XP9	14022513	14.32	13906528	17.15	13123735	18.98
02	F4XQ6	13722005	14.32	13696891	17.15	13627968	18.98
03	F4XQ0	14818535	14.32	14853665	17.15	14403837	18.98
04	F4XQ1	13805413	14.33	13494021	17.16	12550529	18.98
05	F4XQ2	12730842	14.33	12569706	17.16	12078103	18.99
06	F4XQ3	14028832	14.33	14079738	17.16	14012202	18.99
07	F4XQ4	14282427	14.33	14405663	17.16	14466114	18.99
08	F4XQ7	15534558	14.33	16269924	17.16	16436566	18.99
09	F4XQ8	15177152	14.33	15291534	17.16	14518601	18.99
10	F4XQ9	14521617	14.33	14036202	17.16	13602300	18.99
11	F4XP2MS	12421200	14.33	13236100	17.16	13047636	18.99
12	F4XP2MSD	13543085	14.33	14406917	17.16	14275383	18.99
13	SSTD0208W	12106334	14.33	13371932	17.16	12050284	18.99
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 QC limits with an asterisk.

SOM01.1 (5/2005)

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.01

Sample wt/vol: 60.40 (g/mL) G Lab File ID: D05487

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

% Moisture: 34 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	250	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	250	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.01

Sample wt/vol: 60.40 (g/mL) G Lab File ID: D05487

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

% Moisture: 34 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250	U
100-02-7	4-Nitrophenol	250	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	250	U
534-52-1	4,6-Dinitro-2-methylphenol	250	U
86-30-6	N-Nitrosodiphenylamine 1	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	130	U
206-44-0	Fluoranthene	130	U
129-00-0	Pyrene	130	U
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	51	J
207-08-9	Benzo(k)fluoranthene	51	J
50-32-8	Benzo(a)pyrene	51	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1] Cannot be separated from Diphenylamine

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

EPA SAMPLE NO.
F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.01

Sample wt/vol: 60.40 (g/mL) G Lab File ID: D05487

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

% Moisture: 34 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.03	210	J
02		Unknown-02	15.68	230	J
03		Unknown-03	17.82	220	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 15 10:11:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

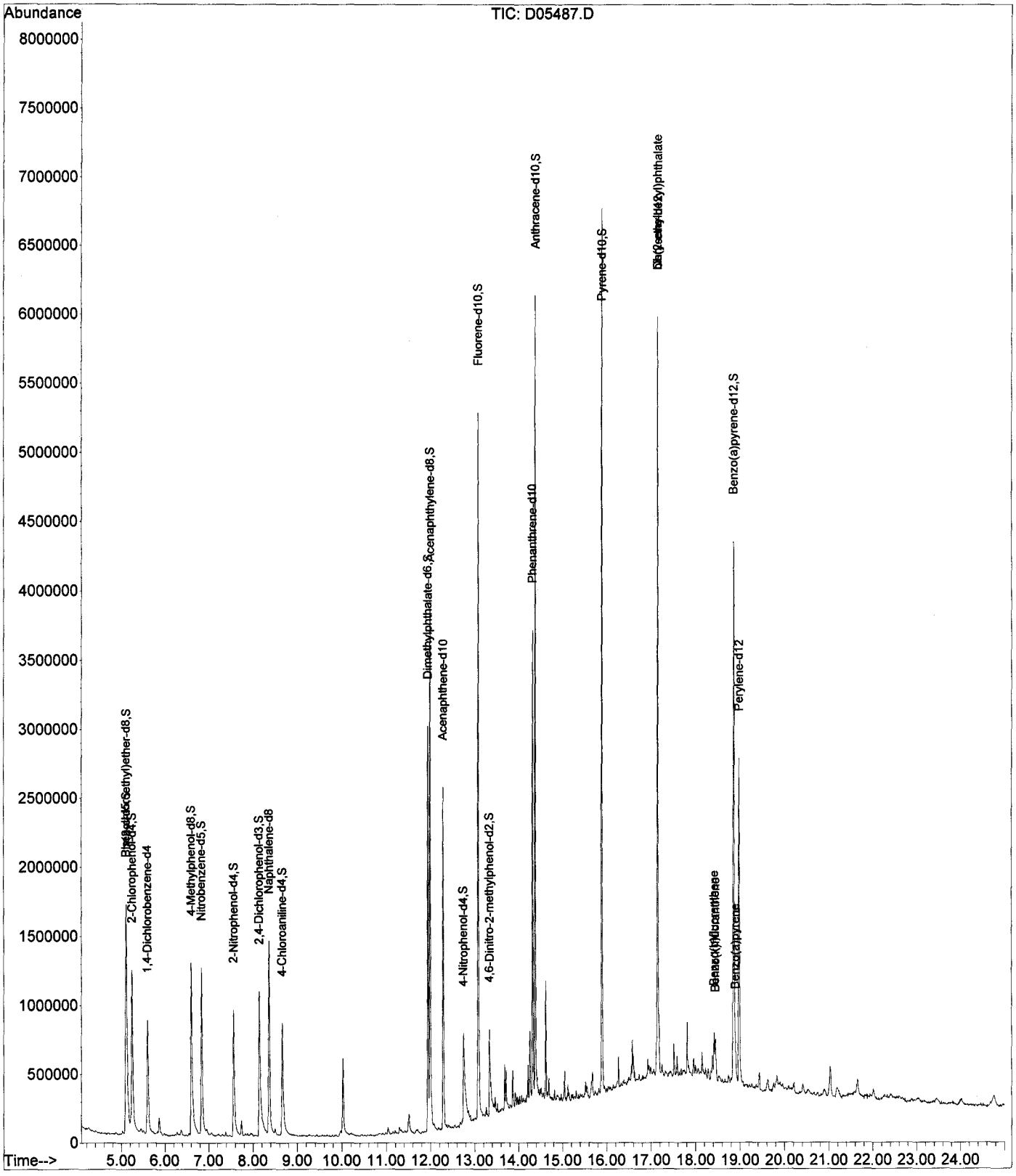
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2734400	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	12693332	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7726732	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	13439776	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	15351719	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	14613243	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	14460812	36.1989 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 90.50%		
5) Bis(2-chloroethyl)ether-d8	5.10	67	5468355	33.4348 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 83.59%		
7) 2-Chlorophenol-d4	5.25	132	6567056	34.7033 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 86.76%		
12) 4-Methylphenol-d8	6.61	113	5931066	34.3884 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 85.97%		
17) Nitrobenzene-d5	6.84	128	3254103	34.3699 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 85.92%		
20) 2-Nitrophenol-d4	7.57	143	3386133	37.5492 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 93.87%		
24) 2,4-Dichlorophenol-d3	8.15	165	5202409	31.8485 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 79.62%		
27) 4-Chloroaniline-d4	8.66	131	5901844	32.4298 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 81.07%		
41) Acenaphthylene-d8	12.00	160	25564539	35.6823 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 89.21%		
43) Dimethylphthalate-d6	11.95	166	17219682	35.5748 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 88.94%		
49) 4-Nitrophenol-d4	12.75	143	2719820	39.7540 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 99.38%		
56) Fluorene-d10	13.09	176	15549263	33.6323 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 84.08%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1434166	33.4891 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 83.72%		
68) Anthracene-d10	14.39	188	25208119	34.9658 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 87.41%		
79) Pyrene-d10	15.90	212	26705928	30.1710 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 75.43%		
85) Benzo(a)pyrene-d12	18.87	264	21785327	31.9551 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 79.89%		
Target Compounds					Qvalue
75) bis(2-ethylhexyl)phthalate	17.16	149	3553901	5.5895 ug/L	98
83) Benzo(b)fluoranthene	18.42	252	1679865	2.0223 ug/L	98
84) Benzo(k)fluoranthene	18.45	252	1767633	2.0282 ug/L	95
86) Benzo(a)pyrene	18.90	252	1616437	2.0521 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

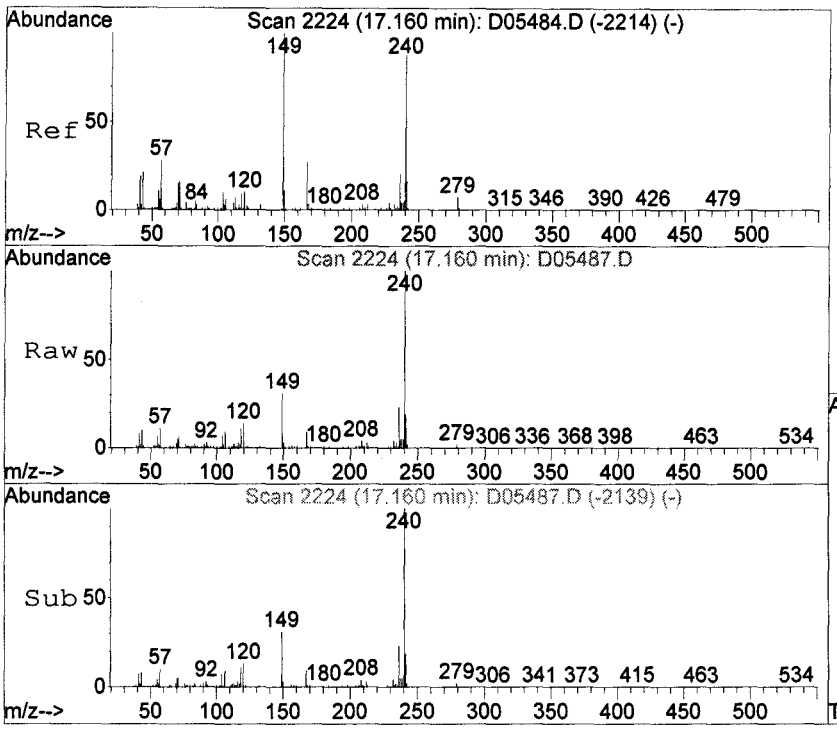
Data File: C:\MSDCHEM\1\DATA\D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 15 10:11:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



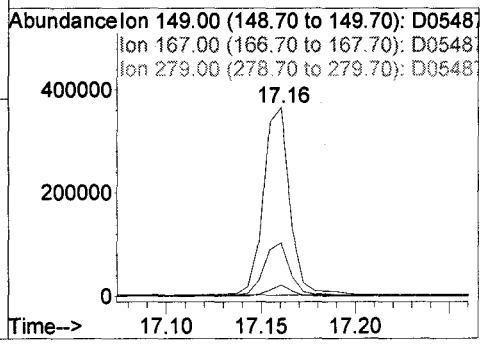
Data File : C:\MSDCHEM\1\DATA\D05487.D
Acq On : 12/14/11 14:45
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

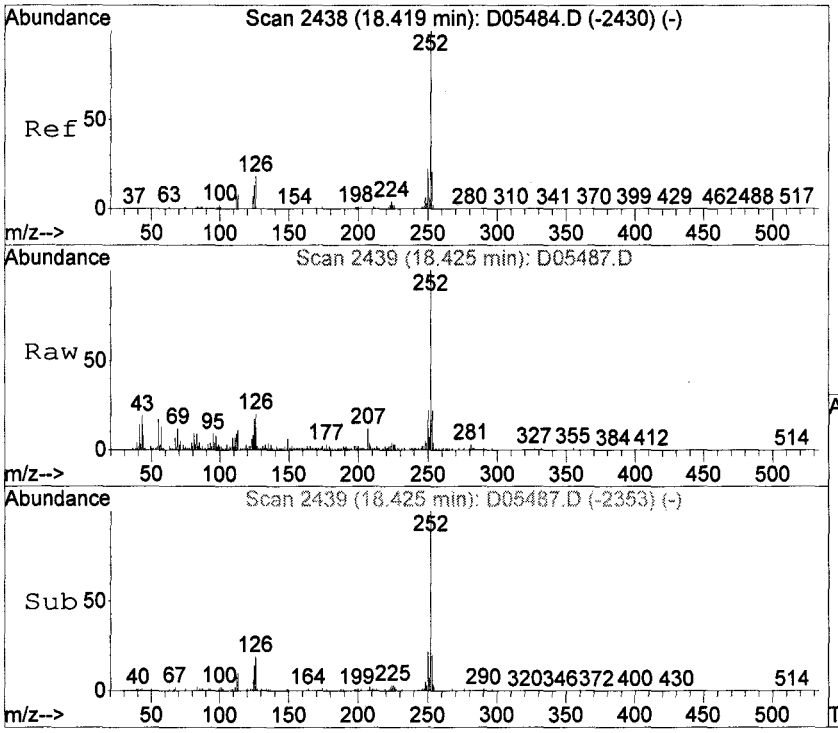
Vial: 5
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 5.59 ug/L
RT: 17.16 min Scan# 2224
Delta R.T. 0.00 min
Integration Range:
Scan=2217 to 2233
R.T.= 17.12 to 17.21 (min)
Tgt Ion:149 Resp: 3553901

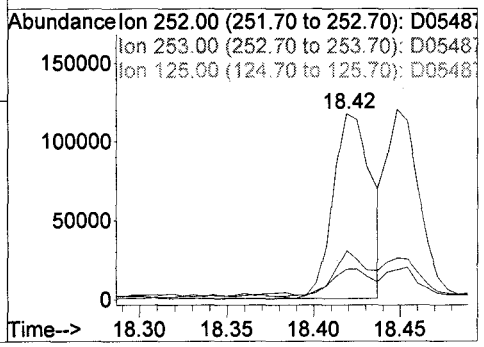
Ion	Ratio	Lower	Upper
149	100		
167	28.3	21.5	32.3
279	5.1	3.8	5.6





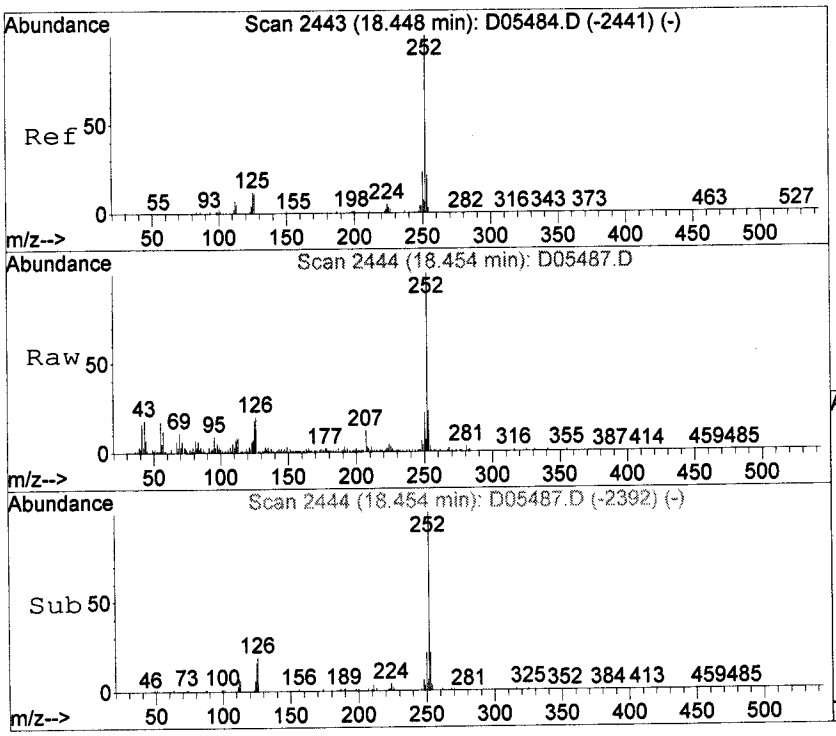
#83
Benzo(b)fluoranthene
Concen: 2.02 ug/L
RT: 18.42 min Scan# 2439
Delta R.T. 0.00 min
Integration Range:
Scan=2424 to 2441
R.T.= 18.34 to 18.44 (min)
Tgt Ion:252 Resp: 1679865

Ion	Ratio	Lower	Upper
252	100		
253	21.7	16.8	25.2
125	15.9	11.5	17.3



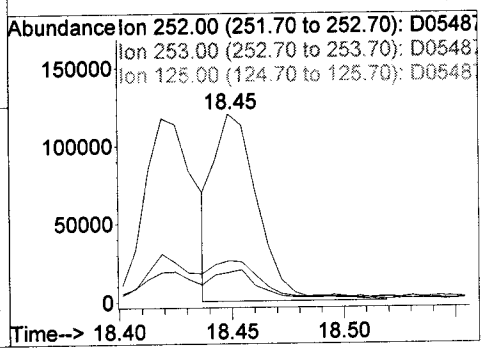
Data File : C:\MSDCHEM\1\DATA\D05487.D
Acq On : 12/14/11 14:45
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

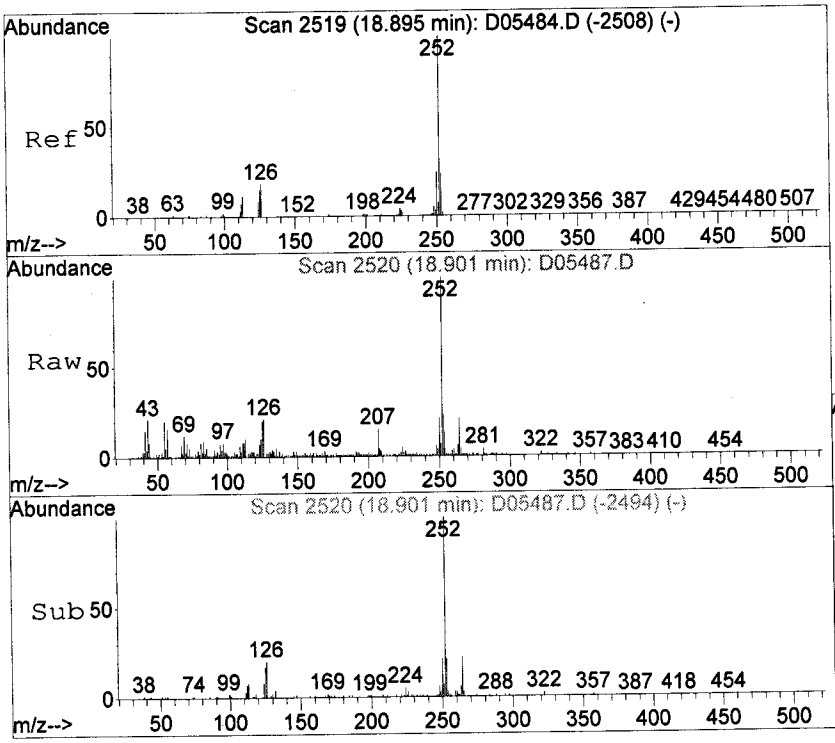
Vial: 5
Operator: SV
Inst : D-5973
Multiplr: 1.00



#84
Benzo(k)fluoranthene
Concen: 2.03 ug/L
RT: 18.45 min Scan# 2444
Delta R.T. 0.00 min
Integration Range:
Scan=2441 to 2455
R.T.= 18.44 to 18.52 (min)
Tgt Ion:252 Resp: 1767633

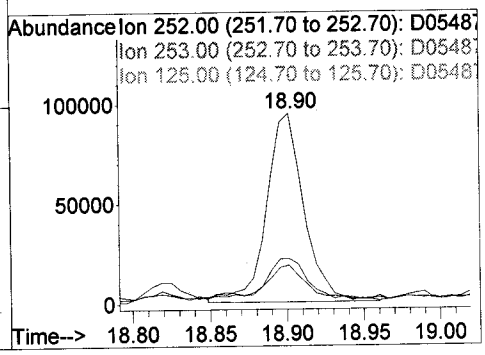
Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.0	25.6
125	15.0	11.7	17.5





#86
Benzo(a)pyrene
Concen: 2.05 ug/L
RT: 18.90 min Scan# 2520
Delta R.T. 0.01 min
Integration Range:
Scan=2511 to 2530
R.T.= 18.85 to 18.96 (min)
Tgt Ion:252 Resp: 1616437

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	18.4	13.0	19.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.138	3	10	17	BV	7326	143236	0.15%	0.005%
2	4.185	17	18	20	PV 2	12702	83835	0.09%	0.003%
3	4.208	20	22	25	VV 4	11312	146593	0.15%	0.005%
4	4.244	25	28	38	VV 4	19675	577947	0.60%	0.021%
5	4.326	38	42	51	VV 4	8709	243846	0.25%	0.009%
6	4.408	51	56	65	VV 4	11623	255472	0.26%	0.009%
7	4.473	65	67	68	PV 2	4678	31015	0.03%	0.001%
8	4.491	68	70	77	VV 8	7611	77467	0.08%	0.003%
9	4.555	77	81	84	PV 6	7220	84071	0.09%	0.003%
10	4.591	84	87	89	VV 4	5508	60113	0.06%	0.002%
11	4.608	89	90	98	VV 8	7627	161531	0.17%	0.006%
12	4.685	98	103	105	PV 5	8871	79550	0.08%	0.003%
13	4.702	105	106	113	VV 6	7624	163454	0.17%	0.006%
14	4.767	113	117	118	VV 3	4901	69304	0.07%	0.002%
15	4.785	118	120	122	VV 3	5948	59058	0.06%	0.002%
16	4.808	122	124	125	VV 2	6699	54208	0.06%	0.002%
17	4.826	125	127	131	VV 5	7679	89526	0.09%	0.003%
18	4.885	131	137	142	VV 7	15478	371648	0.38%	0.013%
19	4.920	142	143	148	VV 5	5767	64686	0.07%	0.002%
20	4.961	148	150	153	VV 4	7090	79668	0.08%	0.003%
21	4.996	153	156	157	VV 3	5512	74958	0.08%	0.003%
22	5.032	157	162	168	VV 9	26959	558160	0.58%	0.020%
23	5.114	168	176	191	VV 2	1643562	43278542	44.80%	1.540%
24	5.249	191	199	227	VV	1198861	30924319	32.01%	1.100%
25	5.426	227	229	230	VV 2	31855	354587	0.37%	0.013%
26	5.455	230	234	240	VV 9	48594	1368231	1.42%	0.049%
27	5.508	240	243	250	VV 9	34206	832349	0.86%	0.030%
28	5.608	250	260	277	VV	821709	19489731	20.18%	0.693%
29	5.726	277	280	289	VV	30371	876315	0.91%	0.031%
30	5.802	289	293	294	VV 4	19762	276991	0.29%	0.010%
31	5.838	294	299	300	VV 3	35220	545994	0.57%	0.019%
32	5.873	300	305	319	VV 3	128839	3177701	3.29%	0.113%
33	5.990	319	325	328	VV 8	20385	415259	0.43%	0.015%
34	6.032	328	332	338	VV 9	13043	277856	0.29%	0.010%
35	6.079	338	340	343	VV 4	7565	68622	0.07%	0.002%
36	6.108	343	345	349	PV 5	5046	64148	0.07%	0.002%
37	6.143	349	351	360	VV 10	6636	239497	0.25%	0.009%
38	6.237	360	367	370	VV 9	14664	281486	0.29%	0.010%
39	6.279	370	374	380	VV 3	27887	610708	0.63%	0.022%
40	6.373	380	390	397	VV 6	42682	1271911	1.32%	0.045%
41	6.420	397	398	400	VV 2	8562	88178	0.09%	0.003%
42	6.490	400	410	416	VV 2	9534	324407	0.34%	0.012%
43	6.555	416	421	424	VV 7	20751	372482	0.39%	0.013%
44	6.608	424	430	458	VV	1258026	30405271	31.48%	1.082%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.785	458	460	464	VV	5	27639	570081	0.59%	0.020%
46	6.843	464	470	487	VV		1202423	25134572	26.02%	0.894%
47	6.961	487	490	501	VV	7	55112	1677555	1.74%	0.060%
48	7.067	501	508	519	VV	7	28733	1002713	1.04%	0.036%
49	7.208	519	532	533	VV	7	12229	409845	0.42%	0.015%
50	7.226	533	535	544	VV	10	17259	396931	0.41%	0.014%
51	7.308	544	549	554	VV	9	16664	348556	0.36%	0.012%
52	7.349	554	556	558	VV	3	6768	71975	0.07%	0.003%
53	7.390	558	563	574	VV	5	33648	615913	0.64%	0.022%
54	7.479	574	578	587	VV	10	9948	224550	0.23%	0.008%
55	7.567	587	593	617	PV		911736	20251759	20.96%	0.721%
56	7.743	617	623	633	VV	2	116036	2370155	2.45%	0.084%
57	7.832	633	638	643	VV	9	24421	579603	0.60%	0.021%
58	7.884	643	647	649	VV	5	24601	378453	0.39%	0.013%
59	7.908	649	651	652	VV	2	13359	129273	0.13%	0.005%
60	7.949	652	658	668	VV	2	26241	984215	1.02%	0.035%
61	8.014	668	669	673	VV	3	9070	137095	0.14%	0.005%
62	8.055	673	676	684	VV	9	11179	333932	0.35%	0.012%
63	8.149	684	692	721	VV		1053690	28569609	29.57%	1.017%
64	8.367	721	729	748	VV		1421983	28784327	29.80%	1.024%
65	8.502	748	752	759	VV	4	56653	1358691	1.41%	0.048%
66	8.561	759	762	764	VV	4	20069	328125	0.34%	0.012%
67	8.584	764	766	767	VV	2	16709	178139	0.18%	0.006%
68	8.602	767	769	771	VV	3	15770	172729	0.18%	0.006%
69	8.661	771	779	813	VV	2	817263	21602814	22.36%	0.769%
70	8.867	813	814	819	VV	5	19923	347866	0.36%	0.012%
71	8.908	819	821	824	VV	4	16763	218008	0.23%	0.008%
72	8.937	824	826	842	VV	4	13980	554680	0.57%	0.020%
73	9.055	842	846	848	VV	5	8742	132720	0.14%	0.005%
74	9.073	848	849	851	VV	2	6424	55217	0.06%	0.002%
75	9.102	851	854	856	VV	4	10201	135312	0.14%	0.005%
76	9.120	856	857	860	VV	3	10678	94847	0.10%	0.003%
77	9.149	860	862	868	VV	7	9595	196823	0.20%	0.007%
78	9.202	868	871	874	VV	4	8717	100908	0.10%	0.004%
79	9.231	874	876	877	VV		5868	45484	0.05%	0.002%
80	9.273	877	883	887	VV	7	15502	317876	0.33%	0.011%
81	9.302	887	888	892	VV	4	7662	103163	0.11%	0.004%
82	9.331	892	893	895	VV	2	6190	43350	0.04%	0.002%
83	9.367	895	899	904	VV	8	8256	186752	0.19%	0.007%
84	9.443	904	912	919	VV	8	15290	379815	0.39%	0.014%
85	9.508	919	923	926	VV	6	9373	146440	0.15%	0.005%
86	9.561	926	932	938	VV	6	15070	380803	0.39%	0.014%
87	9.614	938	941	943	VV	4	11935	156016	0.16%	0.006%
88	9.637	943	945	947	VV	3	8113	93371	0.10%	0.003%
89	9.673	947	951	954	VV	6	16073	265393	0.27%	0.009%
90	9.720	954	959	963	VV	8	9718	192820	0.20%	0.007%
91	9.790	963	971	976	VV	8	14263	267018	0.28%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.837	976	979	981	PV	4	10534	113613	0.12%	0.004%
93	9.867	981	984	993	VV	9	13821	307283	0.32%	0.011%
94	9.978	993	1003	1006	VV	9	44014	1071305	1.11%	0.038%
95	10.025	1006	1011	1035	VV		558311	11964508	12.39%	0.426%
96	10.178	1035	1037	1038	VV	2	18788	171694	0.18%	0.006%
97	10.196	1038	1040	1051	VV	2	22215	806618	0.83%	0.029%
98	10.273	1051	1053	1058	VV	5	13045	277637	0.29%	0.010%
99	10.314	1058	1060	1063	VV	4	12838	146011	0.15%	0.005%
100	10.355	1063	1067	1072	VV	7	9458	189294	0.20%	0.007%
101	10.390	1072	1073	1076	VV	3	5510	64201	0.07%	0.002%
102	10.443	1076	1082	1084	VV	5	12192	249161	0.26%	0.009%
103	10.467	1084	1086	1088	VV	3	14030	148503	0.15%	0.005%
104	10.514	1088	1094	1096	VV	6	8757	170874	0.18%	0.006%
105	10.531	1096	1097	1101	VV	4	6550	67876	0.07%	0.002%
106	10.573	1101	1104	1112	PV	10	9246	245060	0.25%	0.009%
107	10.643	1112	1116	1128	VV	10	11516	361703	0.37%	0.013%
108	10.725	1128	1130	1133	VV	3	6310	68454	0.07%	0.002%
109	10.755	1133	1135	1139	VV	5	6090	127254	0.13%	0.005%
110	10.820	1139	1146	1147	VV	6	15629	241574	0.25%	0.009%
111	10.843	1147	1150	1170	VV	6	17451	1058215	1.10%	0.038%
112	10.990	1170	1175	1179	VV	6	23705	519307	0.54%	0.018%
113	11.043	1179	1184	1192	VV	4	57812	1342220	1.39%	0.048%
114	11.108	1192	1195	1198	VV	5	18699	310457	0.32%	0.011%
115	11.149	1198	1202	1208	VV	8	30113	666470	0.69%	0.024%
116	11.202	1208	1211	1216	VV	5	36739	739253	0.77%	0.026%
117	11.243	1216	1218	1223	VV	6	25468	506744	0.52%	0.018%
118	11.302	1223	1228	1233	VV	4	61048	1469548	1.52%	0.052%
119	11.343	1233	1235	1239	VV	5	40040	692303	0.72%	0.025%
120	11.384	1239	1242	1245	VV	4	27630	528080	0.55%	0.019%
121	11.425	1245	1249	1253	VV	5	36074	831382	0.86%	0.030%
122	11.467	1253	1256	1257	VV	3	29565	320927	0.33%	0.011%
123	11.514	1257	1264	1286	VV		153267	5118312	5.30%	0.182%
124	11.684	1286	1293	1295	VV	6	39029	899130	0.93%	0.032%
125	11.714	1295	1298	1310	VV	6	39938	1199901	1.24%	0.043%
126	11.831	1310	1318	1321	VV	9	24248	712566	0.74%	0.025%
127	11.872	1321	1325	1329	VV	7	26287	558559	0.58%	0.020%
128	11.949	1329	1338	1342	VV		2909469	38368263	39.72%	1.365%
129	11.996	1342	1346	1359	VV		3831465	57377263	59.40%	2.041%
130	12.084	1359	1361	1367	VV	6	78907	1774768	1.84%	0.063%
131	12.131	1367	1369	1374	VV	6	46875	1150994	1.19%	0.041%
132	12.184	1374	1378	1383	VV	8	52722	1294433	1.34%	0.046%
133	12.225	1383	1385	1389	VV	5	40136	902807	0.93%	0.032%
134	12.290	1389	1396	1408	VV		2440970	35885316	37.15%	1.277%
135	12.378	1408	1411	1415	VV	5	71923	1446998	1.50%	0.051%
136	12.419	1415	1418	1422	VV	6	68392	1412032	1.46%	0.050%
137	12.461	1422	1425	1429	VV	6	54648	1260023	1.30%	0.045%
138	12.502	1429	1432	1436	VV	6	55513	1166079	1.21%	0.041%
139	12.555	1436	1441	1448	VV	10	66432	2362383	2.45%	0.084%

0038

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.637	1448	1455	1458	VV	8	60652	1891426	1.96%	0.067%
141	12.678	1458	1462	1467	VV	7	86751	2315031	2.40%	0.082%
142	12.755	1467	1475	1490	VV	2	720710	25390106	26.28%	0.903%
143	12.861	1490	1493	1497	VV	2	171209	3599754	3.73%	0.128%
144	12.902	1497	1500	1508	VV	8	136039	4030202	4.17%	0.143%
145	12.978	1508	1513	1514	VV	5	109063	2357194	2.44%	0.084%
146	13.014	1514	1519	1521	VV	5	119781	2521948	2.61%	0.090%
147	13.031	1521	1522	1524	VV	2	112250	1085733	1.12%	0.039%
148	13.090	1524	1532	1547	VV		4993476	73407719	75.99%	2.612%
149	13.202	1547	1551	1556	VV	8	142357	4274885	4.43%	0.152%
150	13.261	1556	1561	1564	VV	3	190040	4438393	4.59%	0.158%
151	13.290	1564	1566	1569	VV	4	144628	2389885	2.47%	0.085%
152	13.343	1569	1575	1589	VV	3	733140	23154110	23.97%	0.824%
153	13.437	1589	1591	1594	VV	2	220414	3236867	3.35%	0.115%
154	13.472	1594	1597	1601	VV	2	257391	5469890	5.66%	0.195%
155	13.519	1601	1605	1608	VV		216632	4051756	4.19%	0.144%
156	13.549	1608	1610	1611	VV	2	161843	1966430	2.04%	0.070%
157	13.578	1611	1615	1616	VV	4	169187	2878733	2.98%	0.102%
158	13.596	1616	1618	1619	VV	2	172669	1802652	1.87%	0.064%
159	13.619	1619	1622	1628	VV	8	180717	5112992	5.29%	0.182%
160	13.684	1628	1633	1636	VV		464904	8137611	8.42%	0.290%
161	13.719	1636	1639	1651	VV		443085	13132990	13.60%	0.467%
162	13.808	1651	1654	1659	VV	7	203763	5120462	5.30%	0.182%
163	13.866	1659	1664	1671	VV		449575	11731214	12.14%	0.417%
164	13.931	1671	1675	1679	VV	3	298014	7356378	7.62%	0.262%
165	13.972	1679	1682	1685	VV	4	265520	4622894	4.79%	0.164%
166	14.002	1685	1687	1689	VV	3	252191	3519148	3.64%	0.125%
167	14.031	1689	1692	1695	VV	3	267015	5062844	5.24%	0.180%
168	14.072	1695	1699	1705	VV	4	270524	7627035	7.90%	0.271%
169	14.113	1705	1706	1708	VV	2	250580	2981211	3.09%	0.106%
170	14.131	1708	1709	1712	VV	3	238464	3277448	3.39%	0.117%
171	14.190	1712	1719	1721	VV	8	275627	7664200	7.93%	0.273%
172	14.219	1721	1724	1727	VV		477974	7656195	7.93%	0.272%
173	14.266	1727	1732	1738	VV		722093	15170131	15.70%	0.540%
174	14.325	1738	1742	1748	VV		3402519	43468249	45.00%	1.547%
175	14.384	1748	1752	1765	VV		5725041	77799735	80.54%	2.768%
176	14.466	1765	1766	1769	VV	2	307788	4690484	4.86%	0.167%
177	14.502	1769	1772	1774	VV	4	315267	4566120	4.73%	0.162%
178	14.519	1774	1775	1779	VV	4	319725	5237828	5.42%	0.186%
179	14.566	1779	1783	1787	VV	7	289857	7624846	7.89%	0.271%
180	14.625	1787	1793	1797	VV		1028814	17112851	17.71%	0.609%
181	14.660	1797	1799	1802	VV	3	294834	4505682	4.66%	0.160%
182	14.696	1802	1805	1813	VV		383709	11090847	11.48%	0.395%
183	14.749	1813	1814	1816	VV	2	253640	3239242	3.35%	0.115%
184	14.778	1816	1819	1821	VV	4	249393	4204201	4.35%	0.150%
185	14.825	1821	1827	1833	VV	3	299666	9931327	10.28%	0.353%
186	14.878	1833	1836	1837	VV	3	267522	3825265	3.96%	0.136%

0035

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.890	1837	1838	1845	VV	7	268783	7585744	7.85%	0.270%
188	14.943	1845	1847	1850	VV	4	249700	3620640	3.75%	0.129%
189	14.972	1850	1852	1857	VV	5	271197	6066307	6.28%	0.216%
190	15.049	1857	1865	1868	VV		437626	11799150	12.21%	0.420%
191	15.072	1868	1869	1871	VV	2	248768	2600130	2.69%	0.093%
192	15.108	1871	1875	1876	VV	3	260211	3928447	4.07%	0.140%
193	15.131	1876	1879	1881	VV		331304	4980605	5.16%	0.177%
194	15.149	1881	1882	1888	VV	6	279757	6645610	6.88%	0.236%
195	15.208	1888	1892	1894	VV	3	267757	5216455	5.40%	0.186%
196	15.237	1894	1897	1900	VV	5	270706	4958141	5.13%	0.176%
197	15.278	1900	1904	1907	VV	6	256534	6536164	6.77%	0.233%
198	15.313	1907	1910	1916	VV	6	293704	8194752	8.48%	0.292%
199	15.366	1916	1919	1923	VV	6	261448	5665650	5.86%	0.202%
200	15.407	1923	1926	1929	VV	5	271539	5768119	5.97%	0.205%
201	15.449	1929	1933	1935	VV	5	264643	5718691	5.92%	0.203%
202	15.472	1935	1937	1939	VV	3	252436	3182240	3.29%	0.113%
203	15.502	1939	1942	1943	VV	3	273203	3944996	4.08%	0.140%
204	15.531	1943	1947	1949	VV	2	352347	6137457	6.35%	0.218%
205	15.560	1949	1952	1960	VV	6	325722	10741942	11.12%	0.382%
206	15.678	1960	1972	1978	VV	2	426875	19796532	20.49%	0.704%
207	15.737	1978	1982	1984	VV	5	288689	5667919	5.87%	0.202%
208	15.760	1984	1986	1989	VV	4	280767	4939319	5.11%	0.176%
209	15.831	1989	1998	2002	VV	5	309729	12536716	12.98%	0.446%
210	15.896	2002	2009	2017	VV		6539321	86896737	89.95%	3.092%
211	15.955	2017	2019	2025	VV	7	326260	7732957	8.01%	0.275%
212	16.002	2025	2027	2030	VV	4	310980	5997537	6.21%	0.213%
213	16.043	2030	2034	2037	VV	6	322097	7673370	7.94%	0.273%
214	16.078	2037	2040	2042	VV	4	321285	4805345	4.97%	0.171%
215	16.102	2042	2044	2046	VV	3	313340	4318864	4.47%	0.154%
216	16.119	2046	2047	2050	VV	3	297908	4469183	4.63%	0.159%
217	16.154	2050	2053	2055	VV	4	330321	6048053	6.26%	0.215%
218	16.178	2055	2057	2062	VV	6	314356	6974571	7.22%	0.248%
219	16.266	2062	2072	2076	VV	2	521645	18795239	19.46%	0.669%
220	16.302	2076	2078	2080	VV	3	326631	3788433	3.92%	0.135%
221	16.331	2080	2083	2088	VV	7	345542	10049812	10.40%	0.358%
222	16.390	2088	2093	2096	VV	7	366656	9444324	9.78%	0.336%
223	16.425	2096	2099	2105	VV	8	348094	11210976	11.61%	0.399%
224	16.502	2105	2112	2118	VV	8	384252	16634521	17.22%	0.592%
225	16.560	2118	2122	2124	VV	2	461096	7756599	8.03%	0.276%
226	16.584	2124	2126	2132	VV	2	637294	15571318	16.12%	0.554%
227	16.631	2132	2134	2137	VV	4	430170	6867707	7.11%	0.244%
228	16.672	2137	2141	2143	VV	5	372263	7538991	7.80%	0.268%
229	16.696	2143	2145	2149	VV	5	371245	7075967	7.32%	0.252%
230	16.737	2149	2152	2157	VV	6	403238	10821720	11.20%	0.385%
231	16.813	2157	2165	2170	VV	6	397469	18003592	18.64%	0.641%
232	16.860	2170	2173	2176	VV	5	383419	8136569	8.42%	0.290%
233	16.931	2176	2185	2188	VV	3	507306	16599135	17.18%	0.591%
234	16.954	2188	2189	2194	VV	5	464503	9748593	10.09%	0.347%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.996	2194	2196	2202	VV	6	455686	11660841	12.07%	0.415%
236	17.060	2202	2207	2212	VV	9	432423	15244290	15.78%	0.542%
237	17.160	2212	2224	2235	VV		5657898	96601255	100.00%	3.437%
238	17.249	2235	2239	2247	VV	4	468050	16962420	17.56%	0.604%
239	17.325	2247	2252	2257	VV	9	422954	15076593	15.61%	0.536%
240	17.360	2257	2258	2261	VV	3	403330	5731037	5.93%	0.204%
241	17.401	2261	2265	2267	VV	5	411223	7219205	7.47%	0.257%
242	17.431	2267	2270	2271	VV	3	419734	6990833	7.24%	0.249%
243	17.449	2271	2273	2278	VV	6	419298	9013432	9.33%	0.321%
244	17.519	2278	2285	2291	VV	5	609066	21842711	22.61%	0.777%
245	17.590	2291	2297	2302	VV		521918	15976939	16.54%	0.568%
246	17.637	2302	2305	2308	VV	5	412858	8704694	9.01%	0.310%
247	17.678	2308	2312	2315	VV	6	438125	9715356	10.06%	0.346%
248	17.731	2315	2321	2323	VV	7	426460	11706671	12.12%	0.417%
249	17.754	2323	2325	2328	VV	3	428353	7796324	8.07%	0.277%
250	17.819	2328	2336	2355	VV		774723	42894542	44.40%	1.526%
251	17.960	2355	2360	2364	VV	4	505776	14358810	14.86%	0.511%
252	18.001	2364	2367	2372	VV	5	458516	11781168	12.20%	0.419%
253	18.060	2372	2377	2381	VV	8	436508	14073728	14.57%	0.501%
254	18.107	2381	2385	2387	VV	5	410748	8350392	8.64%	0.297%
255	18.154	2387	2393	2402	VV	2	545692	22876246	23.68%	0.814%
256	18.225	2402	2405	2411	VV	4	431118	11784726	12.20%	0.419%
257	18.284	2411	2415	2421	VV	3	428589	14601960	15.12%	0.520%
258	18.348	2421	2426	2428	VV	6	413757	9128937	9.45%	0.325%
259	18.384	2428	2432	2435	VV	2	525545	11447151	11.85%	0.407%
260	18.425	2435	2439	2441	VV		690164	12790967	13.24%	0.455%
261	18.454	2441	2444	2451	VV		642779	16984900	17.58%	0.604%
262	18.513	2451	2454	2466	VV		378021	18155330	18.79%	0.646%
263	18.596	2466	2468	2473	VV	5	356021	9113403	9.43%	0.324%
264	18.637	2473	2475	2476	VV	2	335886	3718053	3.85%	0.132%
265	18.660	2476	2479	2481	VV	4	351674	5357992	5.55%	0.191%
266	18.684	2481	2483	2488	VV	6	336971	8436385	8.73%	0.300%
267	18.737	2488	2492	2498	VV	9	379937	12599393	13.04%	0.448%
268	18.796	2498	2502	2506	VV	7	360732	9048618	9.37%	0.322%
269	18.866	2506	2514	2528	VV	2	4234009	96600577	100.00%	3.437%
270	18.984	2528	2534	2544	VV		2618705	57615458	59.64%	2.050%
271	19.054	2544	2546	2554	VV	9	334358	10948365	11.33%	0.390%
272	19.113	2554	2556	2558	VV	3	311229	4069925	4.21%	0.145%
273	19.137	2558	2560	2562	VV	3	310542	4857619	5.03%	0.173%
274	19.160	2562	2564	2566	VV	3	311616	4252380	4.40%	0.151%
275	19.184	2566	2568	2569	VV	2	304096	3053588	3.16%	0.109%
276	19.225	2569	2575	2578	VV	7	308579	8892310	9.21%	0.316%
277	19.272	2578	2583	2587	VV	8	315393	9883645	10.23%	0.352%
278	19.307	2587	2589	2591	VV	3	292725	3950205	4.09%	0.141%
279	19.372	2591	2600	2603	VV	3	311471	12683778	13.13%	0.451%
280	19.437	2603	2611	2625	VV	2	393690	22841226	23.64%	0.813%
281	19.554	2625	2631	2633	VV	7	269658	8101989	8.39%	0.288%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.625	2633	2643	2650	VV	8	342303	17806069	18.43%	0.634%
283	19.695	2650	2655	2659	VV	8	270493	8442474	8.74%	0.300%
284	19.766	2659	2667	2670	VV	10	314624	11259248	11.66%	0.401%
285	19.831	2670	2678	2685	VV	10	367667	16613572	17.20%	0.591%
286	19.884	2685	2687	2696	VV	10	313213	12266907	12.70%	0.436%
287	19.960	2696	2700	2707	VV	10	305427	10590781	10.96%	0.377%
288	20.019	2707	2710	2712	VV	4	278386	4719225	4.89%	0.168%
289	20.037	2712	2713	2717	VV	4	281509	5393832	5.58%	0.192%
290	20.101	2717	2724	2730	VV	9	292922	12730525	13.18%	0.453%
291	20.148	2730	2732	2735	VV	4	277057	4673075	4.84%	0.166%
292	20.213	2735	2743	2756	VV	2	317091	20013748	20.72%	0.712%
293	20.301	2756	2758	2762	VV	5	240275	4470789	4.63%	0.159%
294	20.337	2762	2764	2766	VV	3	250531	3762858	3.90%	0.134%
295	20.366	2766	2769	2770	VV	3	247950	3475987	3.60%	0.124%
296	20.419	2770	2778	2788	VV	3	304123	16932913	17.53%	0.602%
297	20.519	2788	2795	2809	VV	3	259875	17748023	18.37%	0.631%
298	20.607	2809	2810	2814	VV	4	238832	4866064	5.04%	0.173%
299	20.672	2814	2821	2824	VV	8	241967	7636306	7.90%	0.272%
300	20.695	2824	2825	2830	VV	5	225299	4721036	4.89%	0.168%
301	20.754	2830	2835	2839	VV	8	241988	7695940	7.97%	0.274%
302	20.790	2839	2841	2845	VV	5	219425	4146338	4.29%	0.148%
303	20.825	2845	2847	2853	VV	7	228437	6719707	6.96%	0.239%
304	20.907	2853	2861	2871	VV	7	262979	14835059	15.36%	0.528%
305	21.037	2871	2883	2894	VV	3	421990	22941091	23.75%	0.816%
306	21.131	2894	2899	2902	VV	7	215095	5910366	6.12%	0.210%
307	21.195	2902	2910	2925	VV	7	273707	19908336	20.61%	0.708%
308	21.295	2925	2927	2928	VV	2	208768	2055712	2.13%	0.073%
309	21.337	2928	2934	2938	VV	9	219348	7317108	7.57%	0.260%
310	21.372	2938	2940	2942	VV	3	215267	2851139	2.95%	0.101%
311	21.425	2942	2949	2951	VV	8	222616	7229255	7.48%	0.257%
312	21.454	2951	2954	2956	VV	4	229410	3347077	3.46%	0.119%
313	21.484	2956	2959	2961	VV	4	229041	4038057	4.18%	0.144%
314	21.542	2961	2969	2971	VV	9	228455	7600836	7.87%	0.270%
315	21.584	2971	2976	2979	VV	7	242024	6881831	7.12%	0.245%
316	21.654	2979	2988	2999	VV	3	328679	18283791	18.93%	0.651%
317	21.725	2999	3000	3005	VV	5	220022	4643892	4.81%	0.165%
318	21.760	3005	3006	3009	VV	3	211201	2646817	2.74%	0.094%
319	21.789	3009	3011	3013	VV	3	206546	3482223	3.60%	0.124%
320	21.825	3013	3017	3034	VV	3	214992	15091155	15.62%	0.537%
321	21.942	3034	3037	3044	VV	9	218938	6865484	7.11%	0.244%
322	22.013	3044	3049	3051	VV	6	252619	6001218	6.21%	0.214%
323	22.031	3051	3052	3060	VV	8	244883	6858432	7.10%	0.244%
324	22.089	3060	3062	3068	VV	7	195659	5124366	5.30%	0.182%
325	22.136	3068	3070	3073	VV	4	189092	3101395	3.21%	0.110%
326	22.166	3073	3075	3078	VV	4	184178	2946228	3.05%	0.105%
327	22.195	3078	3080	3082	VV	3	192585	2616036	2.71%	0.093%
328	22.254	3082	3090	3091	VV	8	206539	6713217	6.95%	0.239%
329	22.272	3091	3093	3099	VV	6	215075	5425544	5.62%	0.193%

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	22.331	3099	3103	3105	VV	5	210828	4349921	4.50%	0.155%
331	22.348	3105	3106	3110	VV	4	196252	3654123	3.78%	0.130%
332	22.407	3110	3116	3131	VV	4	216061	14540495	15.05%	0.517%
333	22.507	3131	3133	3135	VV	3	193903	2671121	2.77%	0.095%
334	22.531	3135	3137	3139	VV	3	194773	2579735	2.67%	0.092%
335	22.554	3139	3141	3146	VV	6	198610	5101747	5.28%	0.182%
336	22.595	3146	3148	3155	VV	8	199130	6118497	6.33%	0.218%
337	22.648	3155	3157	3159	VV	3	183728	2378712	2.46%	0.085%
338	22.672	3159	3161	3174	VV	3	189326	9292189	9.62%	0.331%
339	22.754	3174	3175	3179	VV	4	164162	2731318	2.83%	0.097%
340	22.789	3179	3181	3184	VV	4	164023	2771824	2.87%	0.099%
341	22.819	3184	3186	3188	VV	3	163038	2593477	2.68%	0.092%
342	22.848	3188	3191	3192	VV	3	166300	2317599	2.40%	0.082%
343	22.883	3192	3197	3204	VV	3	177603	7102937	7.35%	0.253%
344	22.942	3204	3207	3208	VV	3	174622	2415987	2.50%	0.086%
345	22.960	3208	3210	3213	VV	4	170722	2737179	2.83%	0.097%
346	23.019	3213	3220	3232	VV	4	182611	11494841	11.90%	0.409%
347	23.095	3232	3233	3236	VV	3	166404	2162922	2.24%	0.077%
348	23.142	3236	3241	3244	VV	7	161741	4516323	4.68%	0.161%
349	23.178	3244	3247	3260	VV	7	163681	8895402	9.21%	0.316%
350	23.272	3260	3263	3266	VV	5	155989	2934833	3.04%	0.104%
351	23.313	3266	3270	3272	VV	5	153384	3011543	3.12%	0.107%
352	23.331	3272	3273	3277	VV	4	152053	2709995	2.81%	0.096%
353	23.360	3277	3278	3280	VV	2	156319	1734207	1.80%	0.062%
354	23.395	3280	3284	3287	VV	6	160994	4086562	4.23%	0.145%
355	23.460	3287	3295	3310	VV	6	176469	12738079	13.19%	0.453%
356	23.566	3310	3313	3317	VV	5	151753	3143492	3.25%	0.112%
357	23.601	3317	3319	3319	VV		141211	1443989	1.49%	0.051%
358	23.613	3319	3321	3323	VV	3	144951	1871877	1.94%	0.067%
359	23.648	3323	3327	3334	VV	10	141984	5023014	5.20%	0.179%
360	23.760	3334	3346	3348	VV	10	144510	6636394	6.87%	0.236%
361	23.778	3348	3349	3351	VV	2	145515	1665870	1.72%	0.059%
362	23.801	3351	3353	3365	VV	2	146605	7178303	7.43%	0.255%
363	23.883	3365	3367	3376	VV	10	137801	4933358	5.11%	0.176%
364	24.030	3376	3392	3411	VV	10	171470	17427849	18.04%	0.620%
365	24.166	3411	3415	3419	VV	6	132164	3669038	3.80%	0.131%
366	24.207	3419	3422	3425	VV	5	127335	2575873	2.67%	0.092%
367	24.242	3425	3428	3432	VV	6	131245	3402020	3.52%	0.121%
368	24.289	3432	3436	3439	VV	6	124569	2804386	2.90%	0.100%
369	24.354	3439	3447	3453	VV	6	125009	6133177	6.35%	0.218%
370	24.425	3453	3459	3462	VV	8	124359	3428261	3.55%	0.122%
371	24.460	3462	3465	3470	VV	7	129740	3633566	3.76%	0.129%
372	24.513	3470	3474	3487	VV	7	128781	7129367	7.38%	0.254%
373	24.607	3487	3490	3495	VV	7	116991	3172469	3.28%	0.113%
374	24.766	3495	3517	3538	VV	7	190179	20991669	21.73%	0.747%
375	24.907	3538	3541	3545	VV	6	118974	2806036	2.90%	0.100%
376	24.966	3545	3551	3552	VBA	6	122325	3258531	3.37%	0.116%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

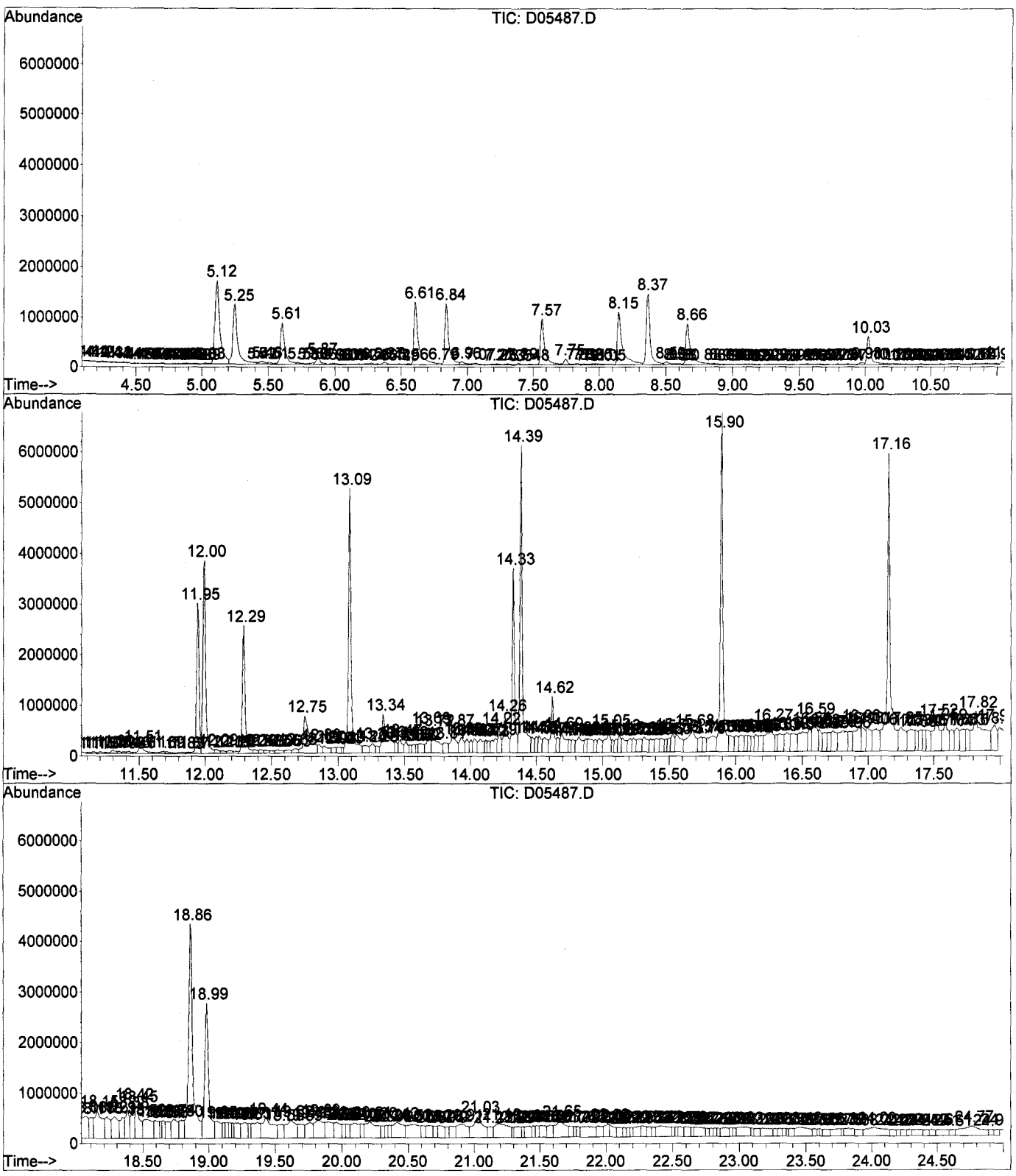
Sum of corrected areas: 2810559119

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

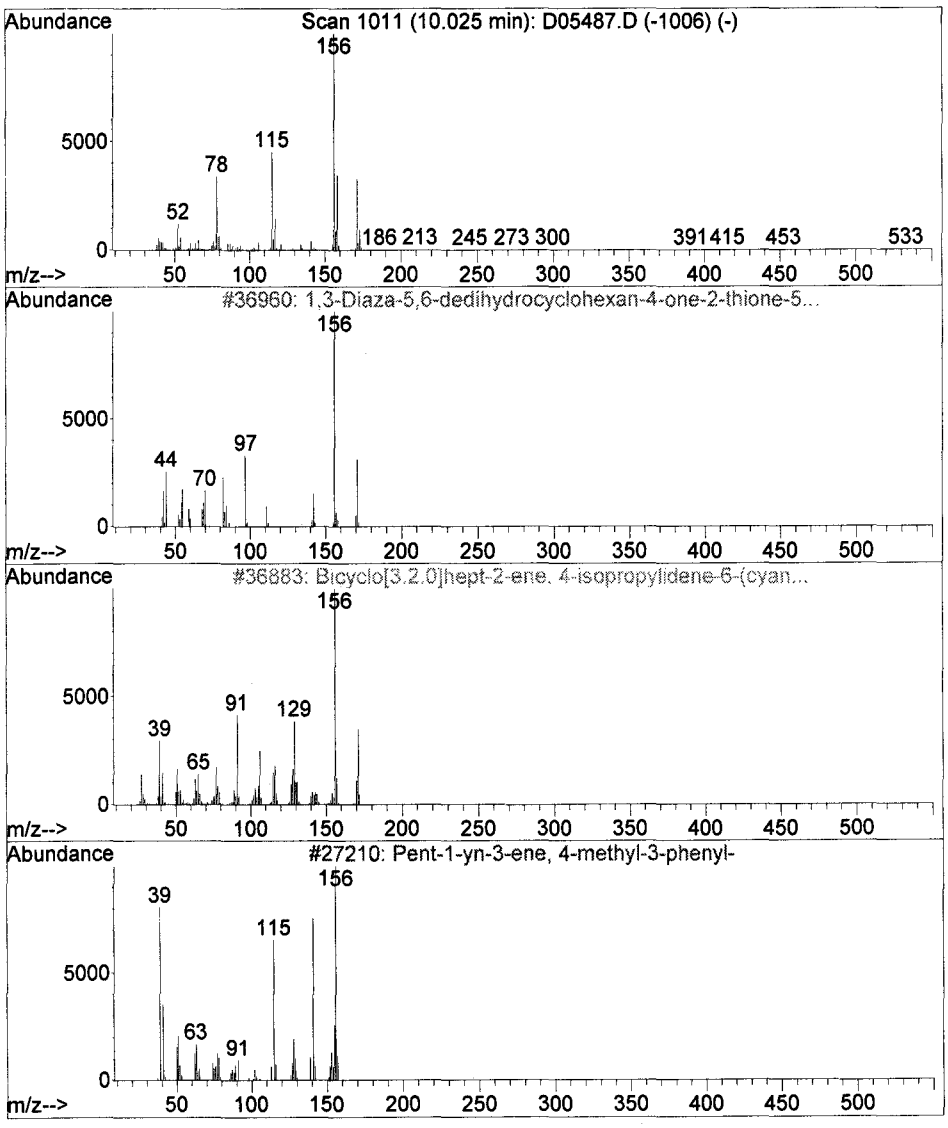
12/15/11

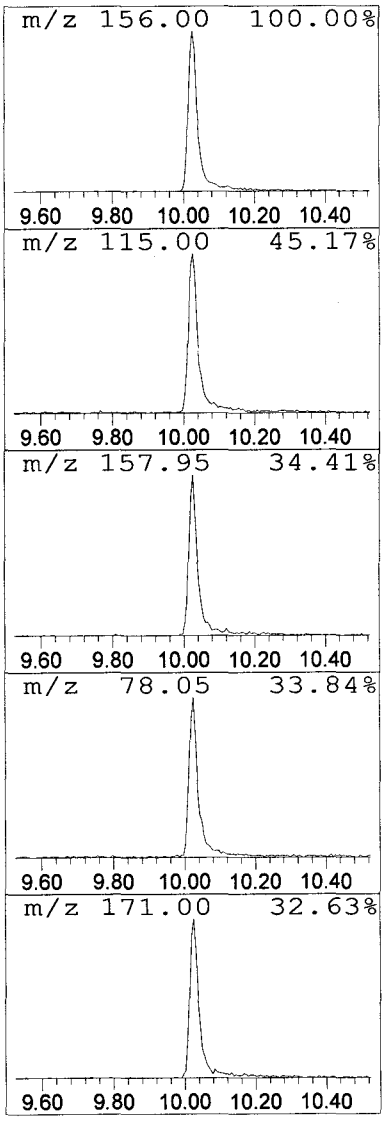
****

Peak Number 1 1,3-Diaza-5,6-dedihydrocycl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.03	8.31 ug/L	11964500	Naphthalene-d8	9.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Diaza-5,6-dedihydrocyclohexa...	171	C6H9N3OS	021263-85-4	38
2	Bicyclo[3.2.0]hept-2-ene, 4-isop...	171	C12H13N	1000217-15-6	32
3	Pent-1-yn-3-ene, 4-methyl-3-phenyl-	156	C12H12	065050-80-8	25
4	Benzene, 1-chloro-4-methoxy-2-me...	156	C8H9ClO	013334-71-9	25
5	Quinoline, 8-propyl-	171	C12H13N	007661-53-2	25





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

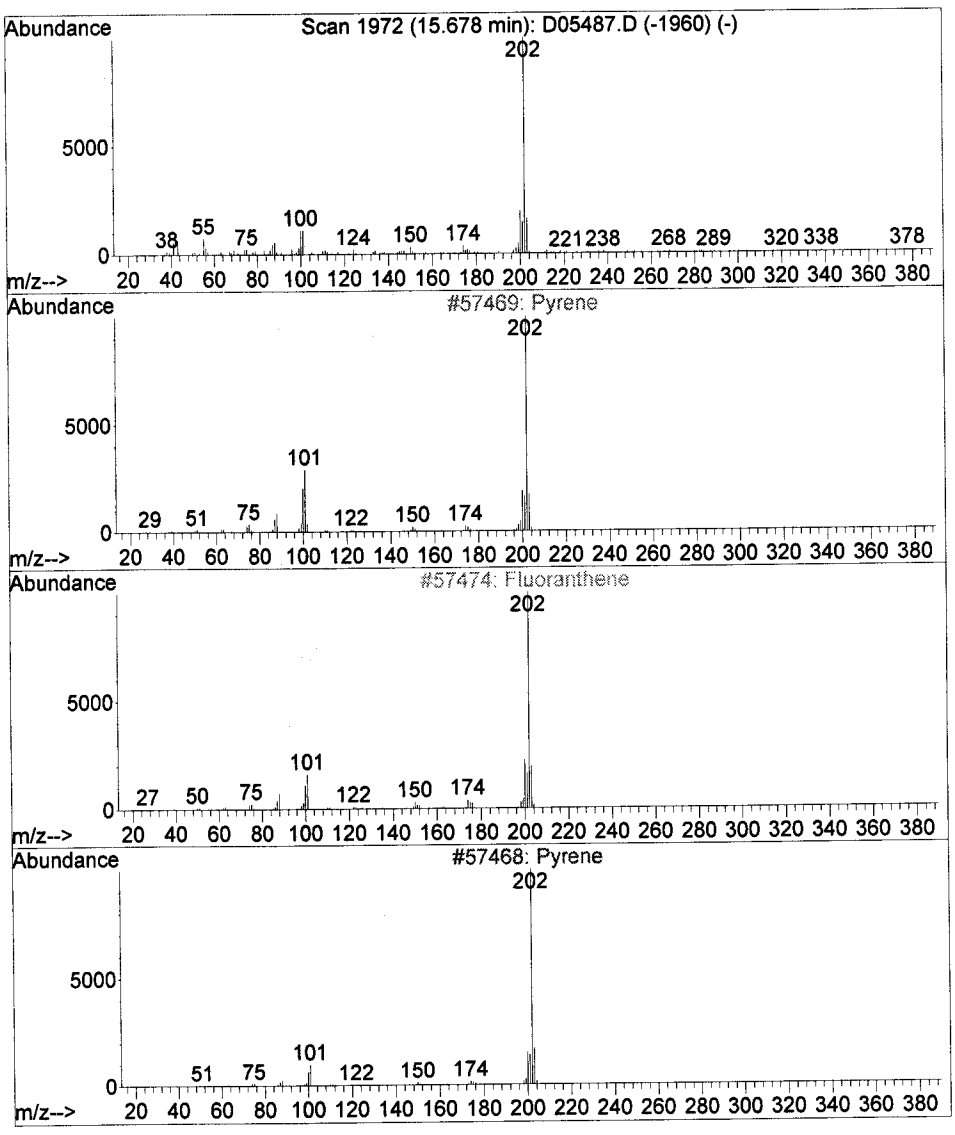
****

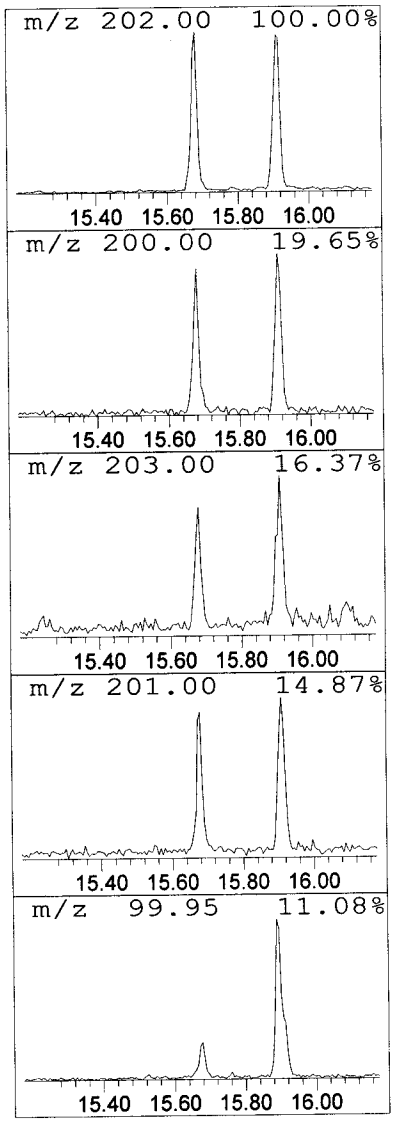
Peak Number 2 Pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	9.11 ug/L	19796500	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	81
2	Fluoranthene	202	C16H10	000206-44-0	81
3	Pyrene	202	C16H10	000129-00-0	76
4	Fluoranthene	202	C16H10	000206-44-0	74
5	Pyrene	202	C16H10	000129-00-0	64





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

12/15/11

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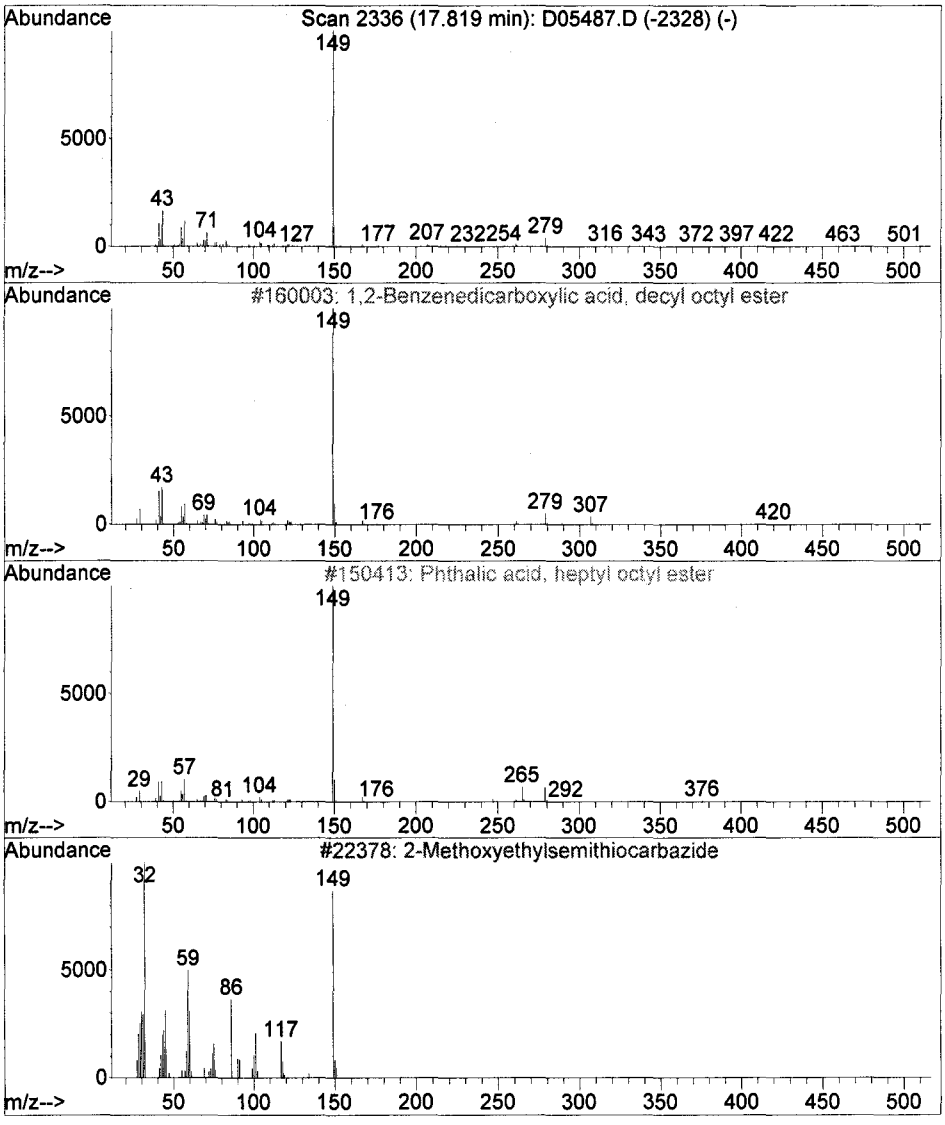
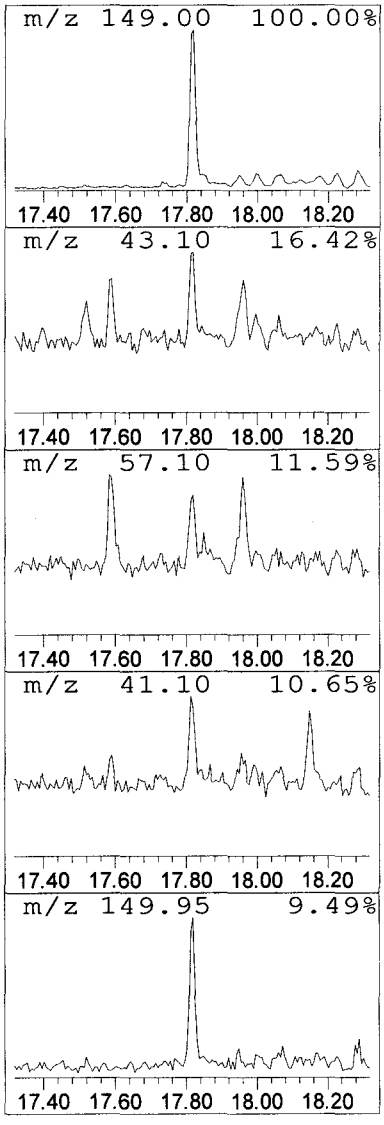
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	8.88 ug/L	42894500	Chrysene-d12	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, de...	418	C26H42O4	000119-07-3	78
2	Phthalic acid, heptyl octyl ester	376	C23H36O4	088216-58-4	72
3	2-Methoxyethylsemithiocarbazide	149	C4H11N3OS	006926-54-1	64
4	1,2-Benzenedicarboxylic acid, di...	362	C22H34O4	003648-21-3	64
5	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	56





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05487.D
Acq On : 12/14/11 14:45 Operator: SV
Sample : F4XP0 Inst : D-5973
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,3-Diaza-5,6-ded...	10.03	8.3	ug/L	11964500	2	8.37	28784300	20.0
Pyrene	15.68	9.1	ug/L	19796500	4	14.33	43468200	20.0
1,2-Benzenedicarb...	17.82	8.9	ug/L	42894500	5	17.16	96601300	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05488

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

% Moisture: 38 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	140	U
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	140	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	260	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	260	U
83-32-9	Acenaphthene	140	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05488

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

% Moisture: 38 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	260	U
100-02-7	4-Nitrophenol	260	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	260	U
534-52-1	4,6-Dinitro-2-methylphenol	260	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	260	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	140	U
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	U
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05488

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

% Moisture: 38 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.03	330	J
02		Unknown-02	14.26	210	J
03	000084-69-5	1,2-Benzenedicarboxylic acid,	14.62	230	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 15 10:11:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	3066796	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	13802654	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	8545773	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.33	188	14841458	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	14734882	20.0000	ug/L	0.00
81) Perylene-d12	18.99	264	13741309	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.12	99	15931013	35.5569	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 88.89%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	5856940	31.9293	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 79.82%			
7) 2-Chlorophenol-d4	5.26	132	7274982	34.2775	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 85.69%			
12) 4-Methylphenol-d8	6.61	113	6712878	34.7028	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 86.76%			
17) Nitrobenzene-d5	6.85	128	3654587	35.4976	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 88.74%			
20) 2-Nitrophenol-d4	7.57	143	3883677	39.6053	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 99.01%			
24) 2,4-Dichlorophenol-d3	8.15	165	6332598	35.6516	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 89.13%			
27) 4-Chloroaniline-d4	8.67	131	5622198	28.4103	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 71.03%			
41) Acenaphthylene-d8	12.00	160	28347197	35.7741	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 89.44%			
43) Dimethylphthalate-d6	11.95	166	19366898	36.1761	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 90.44%			
49) 4-Nitrophenol-d4	12.75	143	2986233	39.4647	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 98.66%			
56) Fluorene-d10	13.09	176	17036928	33.3183	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 83.30%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	1831025	38.7181	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 96.80%			
68) Anthracene-d10	14.39	188	28252128	35.4871	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 88.72%			
79) Pyrene-d10	15.90	212	29372659	34.5729	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 86.43%			
85) Benzo(a)pyrene-d12	18.86	264	22145519	34.5447	ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 86.36%			

Target Compounds Qvalue

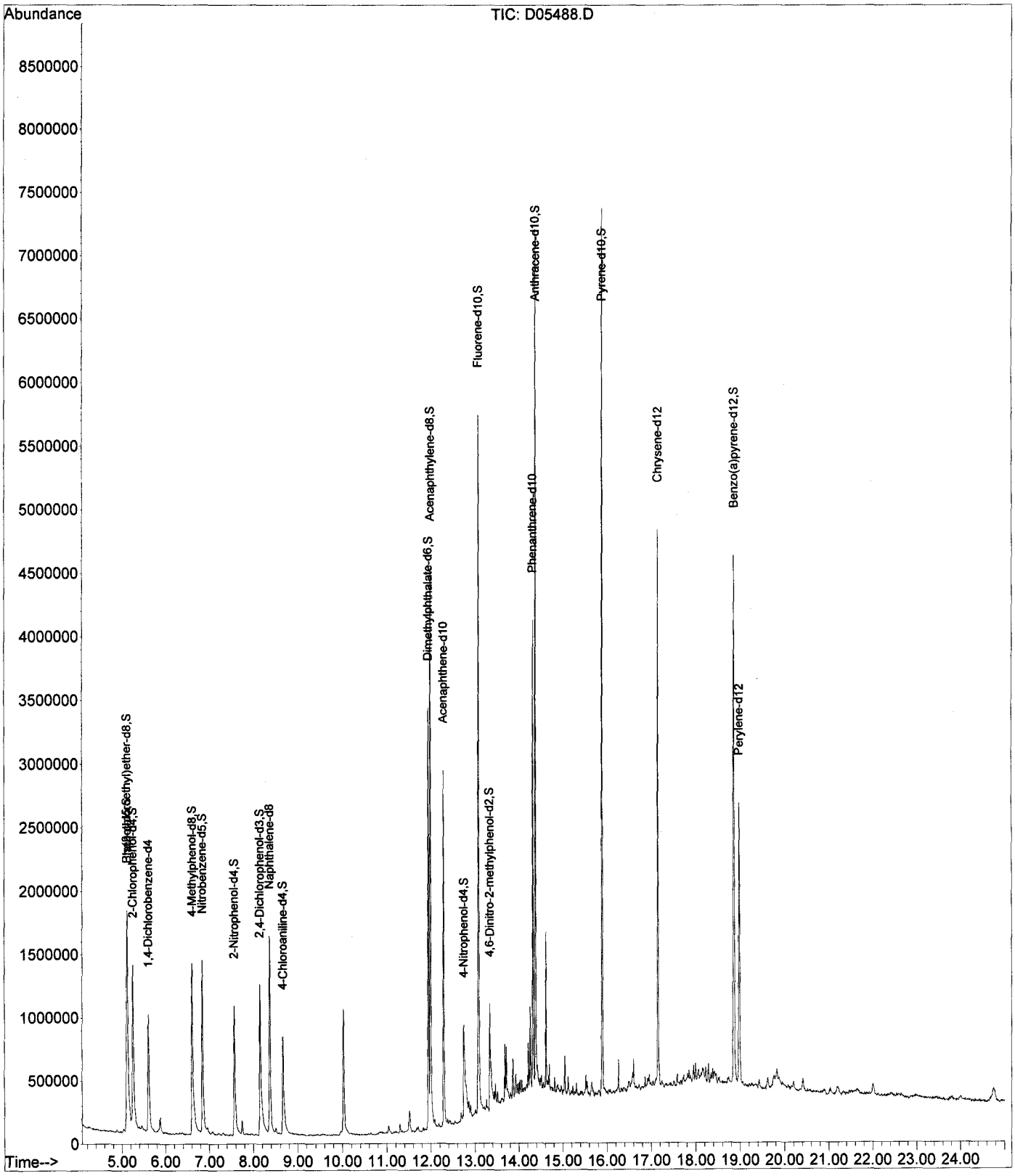
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0053

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 15 10:11:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.249	26	29	31	VV 3	12656	155587	0.17%	0.006%
2	4.267	31	32	42	VV 10	9793	236891	0.26%	0.010%
3	4.343	42	45	48	PV 5	12843	134086	0.15%	0.005%
4	4.367	48	49	62	VV 5	9455	309388	0.34%	0.013%
5	4.461	62	65	69	VV 6	8304	85492	0.10%	0.003%
6	4.502	69	72	75	PV 4	3614	47118	0.05%	0.002%
7	4.526	75	76	81	VV 4	4826	48627	0.05%	0.002%
8	4.567	81	83	85	VV 3	6260	56039	0.06%	0.002%
9	4.585	85	86	95	VV 9	7221	140178	0.16%	0.006%
10	4.649	95	97	105	VV 7	4861	98454	0.11%	0.004%
11	4.708	105	107	108	VV 2	5671	42040	0.05%	0.002%
12	4.726	108	110	115	VV 6	9607	135452	0.15%	0.006%
13	4.773	115	118	125	VV 8	10192	221121	0.25%	0.009%
14	4.826	125	127	129	VV 2	5209	58071	0.06%	0.002%
15	4.849	129	131	132	VV 2	5925	40673	0.05%	0.002%
16	4.885	132	137	141	VV 6	20208	364563	0.41%	0.015%
17	4.914	141	142	145	VV 3	8800	78864	0.09%	0.003%
18	4.979	145	153	157	VV 3	11647	250541	0.28%	0.010%
19	5.014	157	159	160	PV 2	6699	43253	0.05%	0.002%
20	5.043	160	164	169	VV 7	29633	663293	0.74%	0.027%
21	5.126	169	178	193	VV 4	1767140	47201060	52.62%	1.927%
22	5.255	193	200	222	VV	1315226	33180290	36.99%	1.354%
23	5.396	222	224	231	VV 8	53820	1383720	1.54%	0.056%
24	5.461	231	235	245	VV 10	60839	2116842	2.36%	0.086%
25	5.532	245	247	249	VV 3	31803	365728	0.41%	0.015%
26	5.555	249	251	253	VV 3	24054	326404	0.36%	0.013%
27	5.614	253	261	282	VV	928019	22245481	24.80%	0.908%
28	5.749	282	284	286	VV 3	21728	231594	0.26%	0.009%
29	5.773	286	288	290	VV 3	18035	205150	0.23%	0.008%
30	5.796	290	292	293	VV 2	17189	175251	0.20%	0.007%
31	5.814	293	295	297	VV 3	22586	246012	0.27%	0.010%
32	5.879	297	306	318	VV 5	130115	3564481	3.97%	0.145%
33	5.961	318	320	322	VV 3	12691	141397	0.16%	0.006%
34	5.985	322	324	331	VV 7	17351	382440	0.43%	0.016%
35	6.032	331	332	338	VV 6	11991	187086	0.21%	0.008%
36	6.085	338	341	343	VV 3	8730	109788	0.12%	0.004%
37	6.108	343	345	347	VV 3	5917	47868	0.05%	0.002%
38	6.132	347	349	350	VV 2	5280	48773	0.05%	0.002%
39	6.173	350	356	361	VV 10	7024	149313	0.17%	0.006%
40	6.249	361	369	371	VV 9	13317	238442	0.27%	0.010%
41	6.267	371	372	375	VV 3	8488	93672	0.10%	0.004%
42	6.326	375	382	385	VV 8	15618	334709	0.37%	0.014%
43	6.390	385	393	399	VV 8	15487	522879	0.58%	0.021%
44	6.437	399	401	404	VV 4	7349	68905	0.08%	0.003%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.467	404	406	408	PV	3	7079	73716	0.08%	0.003%
46	6.496	408	411	416	VV	7	6325	129443	0.14%	0.005%
47	6.549	416	420	423	VV	6	9808	143833	0.16%	0.006%
48	6.614	423	431	457	VV	2	1373739	33134704	36.94%	1.352%
49	6.773	457	458	465	VV	7	35343	902139	1.01%	0.037%
50	6.849	465	471	487	VV		1347637	27465904	30.62%	1.121%
51	6.967	487	491	503	VV	10	61400	1837274	2.05%	0.075%
52	7.073	503	509	513	VV	7	31342	822463	0.92%	0.034%
53	7.108	513	515	527	VV	7	18223	516590	0.58%	0.021%
54	7.196	527	530	532	VV	4	14689	170913	0.19%	0.007%
55	7.220	532	534	539	VV	6	17551	329117	0.37%	0.013%
56	7.261	539	541	544	VV	4	9726	154994	0.17%	0.006%
57	7.314	544	550	559	VV	4	22311	720065	0.80%	0.029%
58	7.379	559	561	571	VV	4	8744	223653	0.25%	0.009%
59	7.455	571	574	577	VV	5	7228	106827	0.12%	0.004%
60	7.484	577	579	585	VV	7	9080	174298	0.19%	0.007%
61	7.573	585	594	617	PV		1033472	22777870	25.40%	0.930%
62	7.749	617	624	631	VV	2	115124	2290308	2.55%	0.093%
63	7.802	631	633	635	VV	3	12535	117129	0.13%	0.005%
64	7.832	635	638	643	VV	7	17090	416810	0.46%	0.017%
65	7.873	643	645	648	VV	4	14427	185102	0.21%	0.008%
66	7.902	648	650	652	VV	3	11133	132988	0.15%	0.005%
67	7.920	652	653	655	VV	2	10378	101280	0.11%	0.004%
68	7.949	655	658	669	VV	2	15110	490834	0.55%	0.020%
69	8.026	669	671	672	VV	2	5427	43657	0.05%	0.002%
70	8.061	672	677	686	VV	2	12175	433643	0.48%	0.018%
71	8.155	686	693	721	VV		1179775	31111429	34.69%	1.270%
72	8.373	721	730	750	VV		1581201	31479407	35.10%	1.285%
73	8.508	750	753	759	VV	4	58283	1362940	1.52%	0.056%
74	8.567	759	763	769	VV	9	24094	667504	0.74%	0.027%
75	8.614	769	771	773	VV	3	16203	196634	0.22%	0.008%
76	8.667	773	780	810	VV		767909	19831486	22.11%	0.809%
77	8.861	810	813	816	VV	5	20195	364174	0.41%	0.015%
78	8.890	816	818	825	VV	8	17671	408355	0.46%	0.017%
79	8.943	825	827	830	VV	4	17127	269417	0.30%	0.011%
80	8.967	830	831	838	VV	5	12577	274875	0.31%	0.011%
81	9.020	838	840	845	VV	6	8594	143465	0.16%	0.006%
82	9.073	845	849	851	VV	5	9685	135085	0.15%	0.006%
83	9.102	851	854	856	VV	4	10258	135592	0.15%	0.006%
84	9.120	856	857	861	VV	4	9651	117215	0.13%	0.005%
85	9.161	861	864	866	VV	4	8439	86655	0.10%	0.004%
86	9.178	866	867	869	VV	2	4218	34907	0.04%	0.001%
87	9.202	869	871	875	VV	5	3513	41289	0.05%	0.002%
88	9.243	875	878	880	VV	4	7288	75356	0.08%	0.003%
89	9.278	880	884	888	VV	6	10447	200093	0.22%	0.008%
90	9.314	888	890	897	VV	8	5439	113223	0.13%	0.005%
91	9.373	897	900	902	VV	4	8105	100063	0.11%	0.004%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.443	902	912	914	VV	4	12037	272856	0.30%	0.011%
93	9.467	914	916	919	VV	4	7959	93903	0.10%	0.004%
94	9.496	919	921	923	VV	3	4769	55513	0.06%	0.002%
95	9.561	923	932	936	VV	3	14906	399061	0.44%	0.016%
96	9.608	936	940	949	VV	3	10915	267830	0.30%	0.011%
97	9.673	949	951	955	VV	5	5686	76758	0.09%	0.003%
98	9.714	955	958	963	VV	7	6983	111869	0.12%	0.005%
99	9.755	963	965	968	VV	4	7765	74060	0.08%	0.003%
100	9.802	968	973	978	PV	9	10008	179650	0.20%	0.007%
101	9.849	978	981	984	VV	5	7261	107217	0.12%	0.004%
102	9.878	984	986	989	VV	4	7708	100583	0.11%	0.004%
103	9.908	989	991	995	VV	4	3412	41346	0.05%	0.002%
104	9.978	995	1003	1006	VV	6	35041	843509	0.94%	0.034%
105	10.031	1006	1012	1037	VV		993738	19743862	22.01%	0.806%
106	10.190	1037	1039	1046	VV	8	17147	491632	0.55%	0.020%
107	10.243	1046	1048	1049	VV	2	15334	155694	0.17%	0.006%
108	10.261	1049	1051	1056	VV	6	14110	259514	0.29%	0.011%
109	10.320	1056	1061	1064	VV	6	13952	252559	0.28%	0.010%
110	10.349	1064	1066	1068	VV	3	10081	97532	0.11%	0.004%
111	10.378	1068	1071	1079	VV	9	8877	170155	0.19%	0.007%
112	10.437	1079	1081	1084	VV	4	8881	98210	0.11%	0.004%
113	10.473	1084	1087	1090	VV	5	7421	107757	0.12%	0.004%
114	10.502	1090	1092	1098	VV	6	6536	128658	0.14%	0.005%
115	10.543	1098	1099	1100	VV		3936	31022	0.03%	0.001%
116	10.596	1100	1108	1113	VV		13927	349929	0.39%	0.014%
117	10.643	1113	1116	1122	VV	8	17757	288609	0.32%	0.012%
118	10.696	1122	1125	1129	VV	6	6475	115643	0.13%	0.005%
119	10.731	1129	1131	1133	VV	3	4724	38959	0.04%	0.002%
120	10.773	1133	1138	1140	PV	6	7502	89423	0.10%	0.004%
121	10.831	1140	1148	1149	VV	8	18390	380024	0.42%	0.016%
122	10.855	1149	1152	1153	VV	3	22032	263901	0.29%	0.011%
123	10.878	1153	1156	1159	VV	5	21811	364924	0.41%	0.015%
124	10.908	1159	1161	1162	VV	2	21066	186381	0.21%	0.008%
125	10.925	1162	1164	1167	VV	3	15420	208107	0.23%	0.008%
126	10.955	1167	1169	1171	VV	2	10579	128639	0.14%	0.005%
127	10.972	1171	1172	1174	VV	2	8549	65954	0.07%	0.003%
128	10.996	1174	1176	1179	VV	4	19222	267787	0.30%	0.011%
129	11.049	1179	1185	1195	VV	5	63914	1528353	1.70%	0.062%
130	11.114	1195	1196	1199	VV	3	7386	79889	0.09%	0.003%
131	11.167	1199	1205	1208	VV	8	17288	280859	0.31%	0.011%
132	11.208	1208	1212	1222	VV	8	19385	580351	0.65%	0.024%
133	11.302	1222	1228	1232	VV	3	75651	1255398	1.40%	0.051%
134	11.343	1232	1235	1239	VV	5	24133	453782	0.51%	0.019%
135	11.372	1239	1240	1245	VV	5	13842	246801	0.28%	0.010%
136	11.414	1245	1247	1248	VV	2	15853	158994	0.18%	0.006%
137	11.514	1248	1264	1273	VV		177140	4791560	5.34%	0.196%
138	11.578	1273	1275	1284	VV	10	16705	519304	0.58%	0.021%
139	11.649	1284	1287	1288	VV	3	15005	157165	0.18%	0.006%

0858

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.684	1288	1293	1295	VV	5	35788	647620	0.72%	0.026%
141	11.714	1295	1298	1304	VV	7	47087	864181	0.96%	0.035%
142	11.761	1304	1306	1311	VV	6	13285	219442	0.24%	0.009%
143	11.831	1311	1318	1322	VV	10	37552	749873	0.84%	0.031%
144	11.867	1322	1324	1328	VV	5	28499	500311	0.56%	0.020%
145	11.949	1328	1338	1342	VV		3349856	42958525	47.89%	1.753%
146	11.996	1342	1346	1358	VV		4378064	63640817	70.95%	2.597%
147	12.084	1358	1361	1368	VV	8	99241	2456612	2.74%	0.100%
148	12.149	1368	1372	1375	VV	6	48026	1029830	1.15%	0.042%
149	12.184	1375	1378	1383	VV	5	63569	1363662	1.52%	0.056%
150	12.225	1383	1385	1388	VV	4	40176	619465	0.69%	0.025%
151	12.296	1388	1397	1407	VV		2761223	39805839	44.38%	1.625%
152	12.378	1407	1411	1416	VV	8	96769	2342641	2.61%	0.096%
153	12.425	1416	1419	1427	VV	8	89395	2831836	3.16%	0.116%
154	12.490	1427	1430	1434	VV	6	64798	1310217	1.46%	0.053%
155	12.543	1434	1439	1444	VV	8	78002	2428376	2.71%	0.099%
156	12.619	1444	1452	1454	VV	9	67506	2060970	2.30%	0.084%
157	12.678	1454	1462	1467	VV	7	137099	4249598	4.74%	0.173%
158	12.755	1467	1475	1490	VV	3	827612	30109718	33.57%	1.229%
159	12.861	1490	1493	1496	VV		230268	4184010	4.66%	0.171%
160	12.902	1496	1500	1505	VV	5	197270	4645816	5.18%	0.190%
161	12.972	1505	1512	1514	VV	8	125651	3579284	3.99%	0.146%
162	13.014	1514	1519	1522	VV	5	156132	4256947	4.75%	0.174%
163	13.090	1522	1532	1549	VV		5542036	85300765	95.10%	3.482%
164	13.208	1549	1552	1555	VV	4	179122	4051513	4.52%	0.165%
165	13.261	1555	1561	1564	VV	6	231012	5700549	6.36%	0.233%
166	13.290	1564	1566	1571	VV	6	176222	3597724	4.01%	0.147%
167	13.343	1571	1575	1589	VV	3	954949	28941875	32.27%	1.181%
168	13.437	1589	1591	1594	VV	2	290485	3871682	4.32%	0.158%
169	13.472	1594	1597	1601	VV		352209	7300619	8.14%	0.298%
170	13.519	1601	1605	1608	VV		294490	5564999	6.20%	0.227%
171	13.543	1608	1609	1612	VV	3	214485	3144447	3.51%	0.128%
172	13.572	1612	1614	1616	VV	3	219757	3165171	3.53%	0.129%
173	13.614	1616	1621	1622	VV	5	242142	5093100	5.68%	0.208%
174	13.637	1622	1625	1627	VV	4	239351	3962083	4.42%	0.162%
175	13.684	1627	1633	1636	VV		627715	11029932	12.30%	0.450%
176	13.719	1636	1639	1651	VV		621135	18160734	20.25%	0.741%
177	13.813	1651	1655	1660	VV	7	280492	7982755	8.90%	0.326%
178	13.866	1660	1664	1669	VV		549306	11696452	13.04%	0.477%
179	13.931	1669	1675	1680	VV	2	428085	12340264	13.76%	0.504%
180	13.972	1680	1682	1685	VV	4	347778	6117909	6.82%	0.250%
181	14.002	1685	1687	1690	VV	2	345557	4855170	5.41%	0.198%
182	14.031	1690	1692	1696	VV		374905	7522635	8.39%	0.307%
183	14.072	1696	1699	1702	VV	2	369790	6478020	7.22%	0.264%
184	14.102	1702	1704	1705	VV	2	301208	3245118	3.62%	0.132%
185	14.137	1705	1710	1712	VV	5	315689	7689542	8.57%	0.314%
186	14.190	1712	1719	1721	VV	7	342253	9654515	10.76%	0.394%

0055

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.219	1721	1724	1727	VV		646040	9878927	11.01%	0.403%
188	14.266	1727	1732	1738	VV	2	929058	19440535	21.67%	0.793%
189	14.325	1738	1742	1748	VV		3764194	48656600	54.25%	1.986%
190	14.384	1748	1752	1757	VV		6638672	78367996	87.37%	3.199%
191	14.425	1757	1759	1765	VV	4	479136	10660472	11.89%	0.435%
192	14.466	1765	1766	1769	VV	3	377670	5922212	6.60%	0.242%
193	14.502	1769	1772	1774	VV	4	380018	5355418	5.97%	0.219%
194	14.525	1774	1776	1778	VV	2	398888	5775027	6.44%	0.236%
195	14.566	1778	1783	1787	VV	7	349844	10220177	11.39%	0.417%
196	14.625	1787	1793	1797	VV		1407878	21474203	23.94%	0.876%
197	14.660	1797	1799	1802	VV	4	359472	5813918	6.48%	0.237%
198	14.696	1802	1805	1812	VV		487488	12732850	14.20%	0.520%
199	14.749	1812	1814	1817	VV	4	309269	5025075	5.60%	0.205%
200	14.778	1817	1819	1824	VV	6	303223	7027454	7.83%	0.287%
201	14.819	1824	1826	1833	VV	2	375874	9859522	10.99%	0.402%
202	14.890	1833	1838	1841	VV	6	327061	8516213	9.49%	0.348%
203	14.913	1841	1842	1845	VV	3	294697	4201192	4.68%	0.171%
204	14.943	1845	1847	1849	VV	3	281382	3814367	4.25%	0.156%
205	14.972	1849	1852	1856	VV	6	309989	7390955	8.24%	0.302%
206	15.049	1856	1865	1873	VV		551250	18004070	20.07%	0.735%
207	15.125	1873	1878	1888	VV		368565	14706774	16.40%	0.600%
208	15.202	1888	1891	1894	VV	5	267612	5545197	6.18%	0.226%
209	15.231	1894	1896	1900	VV	3	304376	5740141	6.40%	0.234%
210	15.272	1900	1903	1905	VV	4	262041	4189397	4.67%	0.171%
211	15.313	1905	1910	1916	VV	7	328120	10514859	11.72%	0.429%
212	15.360	1916	1918	1922	VV	5	243286	4427981	4.94%	0.181%
213	15.402	1922	1925	1927	VV	4	260366	5010672	5.59%	0.205%
214	15.443	1927	1932	1935	VV	6	261598	6750449	7.53%	0.276%
215	15.525	1935	1946	1949	VV	2	370842	12964964	14.45%	0.529%
216	15.555	1949	1951	1956	VV	5	336619	7139302	7.96%	0.291%
217	15.596	1956	1958	1962	VV	5	251757	5370913	5.99%	0.219%
218	15.660	1962	1969	1979	VV	7	325871	15881384	17.71%	0.648%
219	15.737	1979	1982	1984	VV	4	251933	4225655	4.71%	0.172%
220	15.760	1984	1986	1989	VV	4	242952	4208357	4.69%	0.172%
221	15.831	1989	1998	2002	VV	4	263366	11240040	12.53%	0.459%
222	15.896	2002	2009	2016	VV		7174053	86915825	96.90%	3.547%
223	15.949	2016	2018	2025	VV	8	281826	7947563	8.86%	0.324%
224	16.007	2025	2028	2031	VV	5	253446	5240410	5.84%	0.214%
225	16.043	2031	2034	2037	VV	5	263944	5571967	6.21%	0.227%
226	16.078	2037	2040	2046	VV	8	264613	7765167	8.66%	0.317%
227	16.143	2046	2051	2053	VV	6	246798	5610945	6.26%	0.229%
228	16.160	2053	2054	2058	VV	4	250575	4287509	4.78%	0.175%
229	16.266	2058	2072	2077	VV		474956	18578489	20.71%	0.758%
230	16.302	2077	2078	2080	VV	2	244580	2883696	3.22%	0.118%
231	16.331	2080	2083	2086	VV	5	271087	5500703	6.13%	0.225%
232	16.390	2086	2093	2098	VV	5	270853	10603983	11.82%	0.433%
233	16.431	2098	2100	2103	VV	4	261804	4620592	5.15%	0.189%
234	16.502	2103	2112	2118	VV	4	318074	15094811	16.83%	0.616%

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.554	2118	2121	2122	VV	3	303738	4427985	4.94%	0.181%
236	16.584	2122	2126	2128	VV	3	382553	6096179	6.80%	0.249%
237	16.607	2128	2130	2139	VV	3	479682	12804679	14.28%	0.523%
238	16.672	2139	2141	2143	VV	3	282927	4059690	4.53%	0.166%
239	16.690	2143	2144	2148	VV	4	270089	5091592	5.68%	0.208%
240	16.731	2148	2151	2157	VV	8	290215	8414931	9.38%	0.343%
241	16.802	2157	2163	2168	VV	10	272925	10227292	11.40%	0.417%
242	16.872	2168	2175	2177	VV	6	347696	9401921	10.48%	0.384%
243	16.931	2177	2185	2187	VV	3	336431	9964590	11.11%	0.407%
244	16.954	2187	2189	2194	VV	6	368123	8081428	9.01%	0.330%
245	16.996	2194	2196	2198	VV	3	300973	4487227	5.00%	0.183%
246	17.013	2198	2199	2201	VV	2	284835	3152832	3.52%	0.129%
247	17.049	2201	2205	2209	VV	7	311183	7973082	8.89%	0.325%
248	17.160	2209	2224	2233	VV		4422092	69222389	77.18%	2.825%
249	17.249	2233	2239	2247	VV	10	307468	14572331	16.25%	0.595%
250	17.331	2247	2253	2256	VV	8	284101	7948306	8.86%	0.324%
251	17.360	2256	2258	2262	VV	5	284043	5770111	6.43%	0.236%
252	17.431	2262	2270	2278	VV	5	289313	16088320	17.94%	0.657%
253	17.490	2278	2280	2281	VV	2	267337	2391545	2.67%	0.098%
254	17.519	2281	2285	2289	VV	7	302659	8788337	9.80%	0.359%
255	17.554	2289	2291	2293	VV	3	269759	3385946	3.78%	0.138%
256	17.590	2293	2297	2302	VV	6	353530	8939934	9.97%	0.365%
257	17.637	2302	2305	2308	VV	5	289409	6211826	6.93%	0.254%
258	17.678	2308	2312	2315	VV	6	303745	7836569	8.74%	0.320%
259	17.731	2315	2321	2328	VV	8	338868	13394710	14.93%	0.547%
260	17.813	2328	2335	2339	VV	2	354838	12015513	13.40%	0.490%
261	17.849	2339	2341	2348	VV	5	379682	11365000	12.67%	0.464%
262	17.896	2348	2349	2353	VV	4	320638	5138325	5.73%	0.210%
263	17.948	2353	2358	2363	VV	2	416398	12225895	13.63%	0.499%
264	17.996	2363	2366	2371	VV		428307	9867678	11.00%	0.403%
265	18.054	2371	2376	2382	VV	3	382064	13484203	15.03%	0.550%
266	18.119	2382	2387	2389	VV	5	357334	9269248	10.33%	0.378%
267	18.148	2389	2392	2401	VV	4	394148	14439353	16.10%	0.589%
268	18.225	2401	2405	2410	VV	3	398927	11627759	12.96%	0.475%
269	18.284	2410	2415	2421	VV	2	423059	12074984	13.46%	0.493%
270	18.348	2421	2426	2428	VV	3	353898	8391380	9.36%	0.342%
271	18.384	2428	2432	2435	VV	3	378961	7684460	8.57%	0.314%
272	18.419	2435	2438	2441	VV	5	359165	7934940	8.85%	0.324%
273	18.454	2441	2444	2450	VV	7	344053	10098741	11.26%	0.412%
274	18.513	2450	2454	2456	VV	5	306368	5708330	6.36%	0.233%
275	18.537	2456	2458	2461	VV	4	307833	5552267	6.19%	0.227%
276	18.601	2461	2469	2471	VV	9	283353	9306181	10.38%	0.380%
277	18.625	2471	2473	2475	VV	3	276811	3570654	3.98%	0.146%
278	18.648	2475	2477	2479	VV	3	277062	3533664	3.94%	0.144%
279	18.666	2479	2480	2484	VV	4	272088	4767027	5.31%	0.195%
280	18.701	2484	2486	2487	VV	2	273040	3708638	4.13%	0.151%
281	18.743	2487	2493	2503	VV	2	309785	15355654	17.12%	0.627%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	18.860	2503	2513	2527	VV		4314912	89693259	100.00%	3.661%
283	18.984	2527	2534	2545	VV		2452006	53055010	59.15%	2.165%
284	19.066	2545	2548	2554	VV	8	269443	8612653	9.60%	0.352%
285	19.119	2554	2557	2561	VV	6	250020	5671081	6.32%	0.231%
286	19.160	2561	2564	2566	VV	4	241701	4250989	4.74%	0.174%
287	19.184	2566	2568	2570	VV	3	237461	3285207	3.66%	0.134%
288	19.213	2570	2573	2578	VV	7	248007	6689587	7.46%	0.273%
289	19.272	2578	2583	2590	VV	7	252056	9999182	11.15%	0.408%
290	19.354	2590	2597	2600	VV	9	243334	8870571	9.89%	0.362%
291	19.384	2600	2602	2605	VV	4	235583	3944268	4.40%	0.161%
292	19.431	2605	2610	2622	VV	9	274985	13413995	14.96%	0.547%
293	19.519	2622	2625	2627	VV	4	214951	3648502	4.07%	0.149%
294	19.554	2627	2631	2633	VV	5	207541	4259540	4.75%	0.174%
295	19.578	2633	2635	2636	VV	2	215606	2438287	2.72%	0.100%
296	19.625	2636	2643	2650	VV	2	286137	11542519	12.87%	0.471%
297	19.672	2650	2651	2653	VV	2	216910	2577730	2.87%	0.105%
298	19.695	2653	2655	2656	VV	2	214635	1923913	2.14%	0.079%
299	19.760	2656	2666	2670	VV	2	301080	13529710	15.08%	0.552%
300	19.825	2670	2677	2683	VV	2	351553	13446808	14.99%	0.549%
301	19.872	2683	2685	2694	VV	10	285774	10572551	11.79%	0.432%
302	19.937	2694	2696	2706	VV	10	236454	9975741	11.12%	0.407%
303	20.019	2706	2710	2715	VV	8	223868	6700812	7.47%	0.273%
304	20.060	2715	2717	2718	VV	2	209501	2463547	2.75%	0.101%
305	20.090	2718	2722	2724	VV	5	223043	4527823	5.05%	0.185%
306	20.113	2724	2726	2731	VV	6	209916	4768756	5.32%	0.195%
307	20.160	2731	2734	2738	VV	6	214728	5233319	5.83%	0.214%
308	20.207	2738	2742	2758	VV	3	246422	14101467	15.72%	0.576%
309	20.313	2758	2760	2761	VV	2	173956	1807388	2.02%	0.074%
310	20.354	2761	2767	2771	VV	9	184440	5817867	6.49%	0.237%
311	20.419	2771	2778	2799	VV	9	267762	19082682	21.28%	0.779%
312	20.566	2799	2803	2805	VV	5	177620	3749446	4.18%	0.153%
313	20.590	2805	2807	2811	VV	4	175555	3394148	3.78%	0.139%
314	20.625	2811	2813	2814	VV	2	161258	1814197	2.02%	0.074%
315	20.672	2814	2821	2824	VV	9	165857	5527728	6.16%	0.226%
316	20.737	2824	2832	2834	VV	9	162535	5710350	6.37%	0.233%
317	20.760	2834	2836	2839	VV	4	159257	2428725	2.71%	0.099%
318	20.784	2839	2840	2842	VV	2	149705	1598671	1.78%	0.065%
319	20.807	2842	2844	2846	VV	3	157495	2347133	2.62%	0.096%
320	20.831	2846	2848	2851	VV	4	161108	2429030	2.71%	0.099%
321	20.860	2851	2853	2854	VV	2	159353	1819178	2.03%	0.074%
322	20.878	2854	2856	2858	VV	3	166596	1980989	2.21%	0.081%
323	20.895	2858	2859	2867	VV	8	169793	5303670	5.91%	0.216%
324	20.954	2867	2869	2871	VV	3	139372	1975350	2.20%	0.081%
325	20.978	2871	2873	2875	VV	3	137097	1548629	1.73%	0.063%
326	21.019	2875	2880	2894	VV	3	171206	10577226	11.79%	0.432%
327	21.113	2894	2896	2899	VV	4	137919	2324662	2.59%	0.095%
328	21.195	2899	2910	2922	VV	4	185550	12520785	13.96%	0.511%
329	21.272	2922	2923	2926	VV	3	135902	1785679	1.99%	0.073%

8852

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.307	2926	2929	2931	VV	4	143993	2357931	2.63%	0.096%
331	21.337	2931	2934	2936	VV	4	151550	2825081	3.15%	0.115%
332	21.360	2936	2938	2942	VV	5	143328	2971687	3.31%	0.121%
333	21.401	2942	2945	2950	VV	7	139509	3874386	4.32%	0.158%
334	21.448	2950	2953	2954	VV	3	134286	1682452	1.88%	0.069%
335	21.478	2954	2958	2960	VV	5	153668	3229356	3.60%	0.132%
336	21.513	2960	2964	2967	VV	6	151814	3296192	3.67%	0.135%
337	21.537	2967	2968	2970	VV	2	147139	1453252	1.62%	0.059%
338	21.578	2970	2975	2977	VV	6	146818	3447404	3.84%	0.141%
339	21.601	2977	2979	2983	VV	5	150896	3090719	3.45%	0.126%
340	21.642	2983	2986	2992	VV	8	160318	5246224	5.85%	0.214%
341	21.689	2992	2994	3001	VV	8	149972	3949715	4.40%	0.161%
342	21.736	3001	3002	3006	VV	4	131925	2167858	2.42%	0.088%
343	21.766	3006	3007	3009	VV	2	127277	1466593	1.64%	0.060%
344	21.819	3009	3016	3018	VV	8	132008	3972997	4.43%	0.162%
345	21.842	3018	3020	3021	VV	2	121931	1232879	1.37%	0.050%
346	21.866	3021	3024	3027	VV	5	131609	2668399	2.98%	0.109%
347	21.895	3027	3029	3032	VV	4	127469	2023237	2.26%	0.083%
348	21.925	3032	3034	3038	VV	5	130156	2442958	2.72%	0.100%
349	22.007	3038	3048	3057	VV	5	194332	9878218	11.01%	0.403%
350	22.066	3057	3058	3062	VV	4	120138	2057801	2.29%	0.084%
351	22.101	3062	3064	3066	VV	3	114004	1653087	1.84%	0.067%
352	22.131	3066	3069	3073	VV	6	117369	2477409	2.76%	0.101%
353	22.166	3073	3075	3078	VV	4	102613	1947134	2.17%	0.079%
354	22.207	3078	3082	3085	VV	6	109600	2571998	2.87%	0.105%
355	22.278	3085	3094	3097	VV	6	110239	4316095	4.81%	0.176%
356	22.307	3097	3099	3104	VV	6	104814	2349222	2.62%	0.096%
357	22.354	3104	3107	3109	VV	4	111734	1944316	2.17%	0.079%
358	22.389	3109	3113	3114	VV	4	104820	1636692	1.82%	0.067%
359	22.419	3114	3118	3122	VV	7	117068	3232582	3.60%	0.132%
360	22.454	3122	3124	3126	VV	3	110656	1421731	1.59%	0.058%
361	22.495	3126	3131	3143	VV	3	104949	5878185	6.55%	0.240%
362	22.578	3143	3145	3149	VV	5	105260	1941914	2.17%	0.079%
363	22.607	3149	3150	3155	VV	5	101716	2137003	2.38%	0.087%
364	22.648	3155	3157	3166	VV	10	108857	3689470	4.11%	0.151%
365	22.713	3166	3168	3170	VV	3	88150	1182691	1.32%	0.048%
366	22.736	3170	3172	3177	VV	6	83255	1793338	2.00%	0.073%
367	22.789	3177	3181	3187	VV	9	80718	2543980	2.84%	0.104%
368	22.831	3187	3188	3190	VV	2	73039	808276	0.90%	0.033%
369	22.878	3190	3196	3205	VV	2	82284	4124687	4.60%	0.168%
370	22.954	3205	3209	3219	VV	2	87474	4147914	4.62%	0.169%
371	23.025	3219	3221	3225	VV	5	83294	1712102	1.91%	0.070%
372	23.054	3225	3226	3228	VV	2	76654	733806	0.82%	0.030%
373	23.078	3228	3230	3236	VV	7	79085	2068086	2.31%	0.084%
374	23.148	3236	3242	3251	VV	7	74732	3603251	4.02%	0.147%
375	23.219	3251	3254	3257	VV	5	68842	1434132	1.60%	0.059%
376	23.278	3257	3264	3267	VV	9	68322	2233053	2.49%	0.091%

0663

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.319	3267	3271	3273	VV	5	67014	1297576	1.45%	0.053%
378	23.342	3273	3275	3277	VV	3	63503	709263	0.79%	0.029%
379	23.360	3277	3278	3281	VV	3	67444	882921	0.98%	0.036%
380	23.389	3281	3283	3286	VV	4	65954	1051808	1.17%	0.043%
381	23.425	3286	3289	3292	VV	5	66510	1180088	1.32%	0.048%
382	23.460	3292	3295	3299	VV	6	67254	1448237	1.61%	0.059%
383	23.495	3299	3301	3303	VV	3	64417	780422	0.87%	0.032%
384	23.513	3303	3304	3306	VV	2	56016	645911	0.72%	0.026%
385	23.531	3306	3307	3309	VV	2	59641	599001	0.67%	0.024%
386	23.572	3309	3314	3320	VV	10	49683	1643007	1.83%	0.067%
387	23.619	3320	3322	3324	VV	3	55481	729293	0.81%	0.030%
388	23.642	3324	3326	3339	VV	3	45592	1988203	2.22%	0.081%
389	23.730	3339	3341	3342	VV	2	43191	437498	0.49%	0.018%
390	23.748	3342	3344	3348	VV	5	53875	991666	1.11%	0.040%
391	23.783	3348	3350	3353	VV	4	57384	988587	1.10%	0.040%
392	23.813	3353	3355	3358	VV	4	64802	841072	0.94%	0.034%
393	23.836	3358	3359	3361	VV	2	49687	475161	0.53%	0.019%
394	23.854	3361	3362	3364	VV	2	49230	487734	0.54%	0.020%
395	23.878	3364	3366	3370	VV	5	43180	861982	0.96%	0.035%
396	23.913	3370	3372	3377	VV	6	42769	794136	0.89%	0.032%
397	23.948	3377	3378	3380	VV	2	37278	404049	0.45%	0.016%
398	23.983	3380	3384	3385	VV	4	51038	788883	0.88%	0.032%
399	24.013	3385	3389	3394	VV	8	63175	1559257	1.74%	0.064%
400	24.054	3394	3396	3399	VV	4	38961	683756	0.76%	0.028%
401	24.083	3399	3401	3405	VV	5	36889	645321	0.72%	0.026%
402	24.113	3405	3406	3409	VV	3	40136	409950	0.46%	0.017%
403	24.142	3409	3411	3412	VV	2	30024	368958	0.41%	0.015%
404	24.160	3412	3414	3416	VV	3	34377	380590	0.42%	0.016%
405	24.195	3416	3420	3422	VV	5	33683	615032	0.69%	0.025%
406	24.225	3422	3425	3434	VV	5	33601	1010099	1.13%	0.041%
407	24.295	3434	3437	3439	VV	4	27503	407556	0.45%	0.017%
408	24.330	3439	3443	3450	VV	10	30793	781455	0.87%	0.032%
409	24.401	3450	3455	3457	VV	6	23158	440060	0.49%	0.018%
410	24.430	3457	3460	3462	VV	4	25607	354992	0.40%	0.014%
411	24.448	3462	3463	3470	VV	7	27454	456261	0.51%	0.019%
412	24.495	3470	3471	3478	VV	7	18851	477117	0.53%	0.019%
413	24.548	3478	3480	3488	VV	9	18598	368856	0.41%	0.015%
414	24.630	3488	3494	3500	VV	9	16522	424762	0.47%	0.017%
415	24.677	3500	3502	3503	VV	2	38265	347677	0.39%	0.014%
416	24.760	3503	3516	3529	VV	2	112322	5562259	6.20%	0.227%
417	24.842	3529	3530	3534	VV	4	18576	190910	0.21%	0.008%
418	24.919	3534	3543	3545	VV	10	10906	137555	0.15%	0.006%
419	24.954	3545	3549	3551	VV	5	13175	145355	0.16%	0.006%

Sum of corrected areas: 2450087084

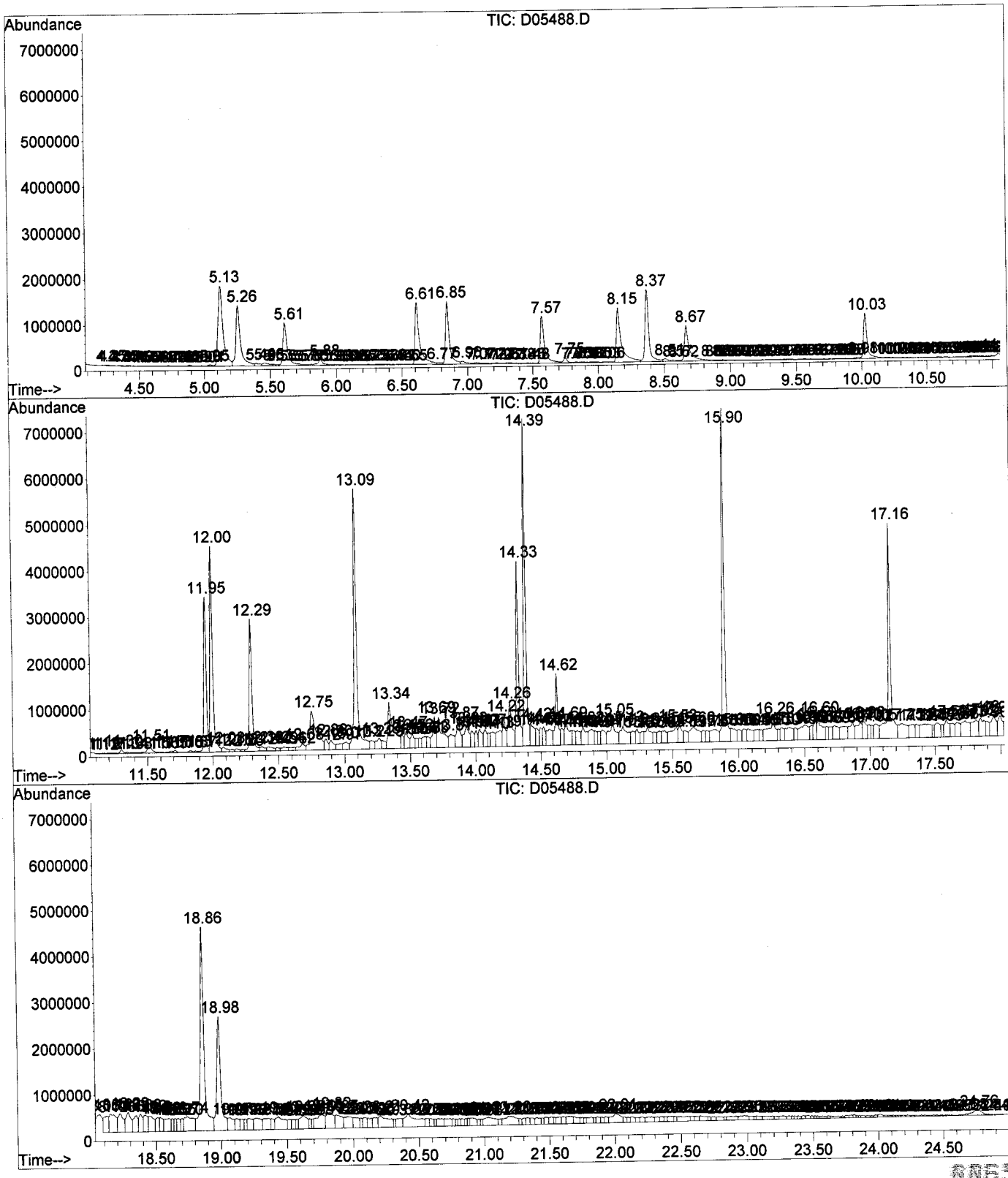
LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15
Sample : F4XP1
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

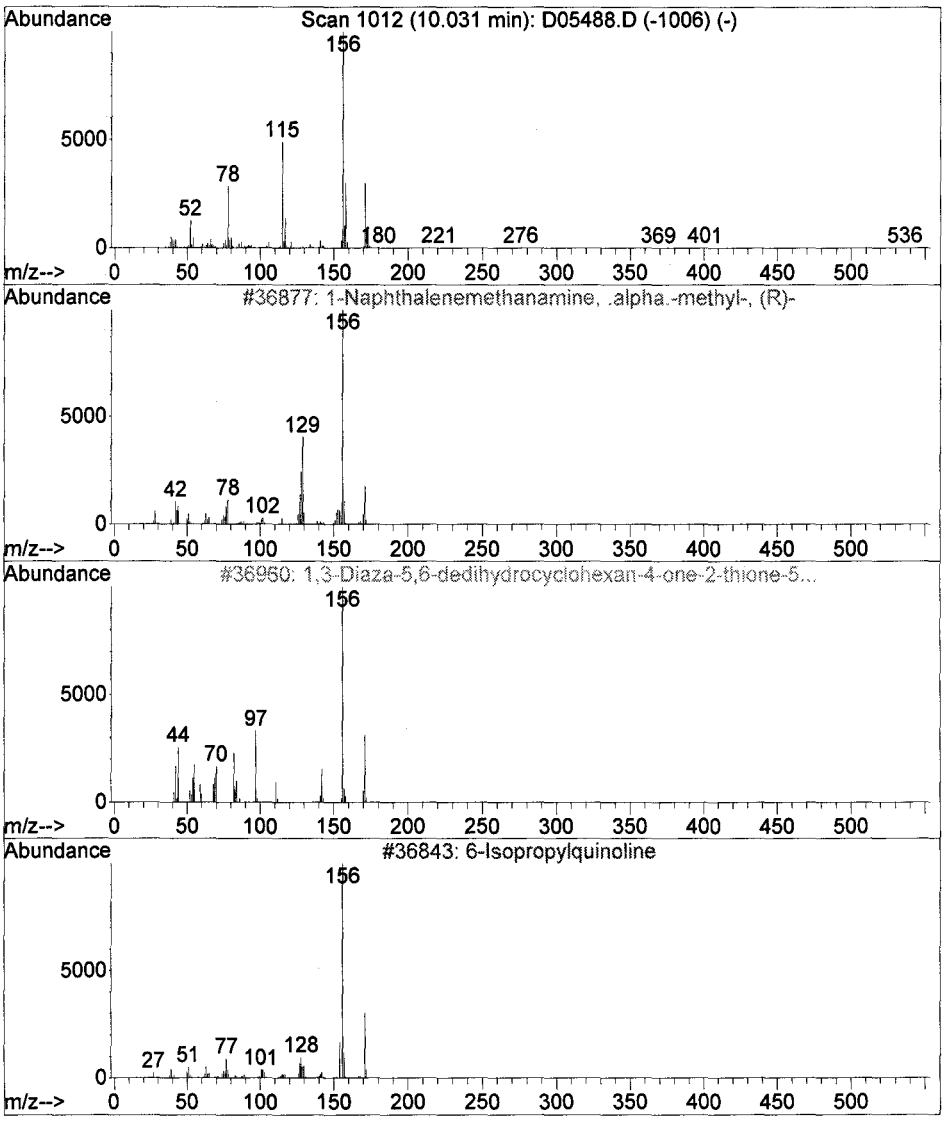
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

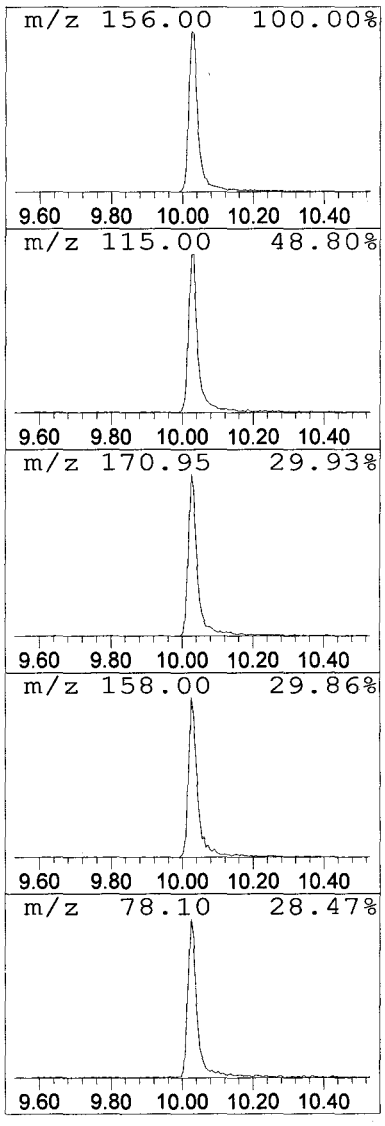
****

Peak Number 1 1-Naphthalenemethanamine, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.03	12.54 ug/L	19743900	Naphthalene-d8	8.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenemethanamine, .alpha...	171	C12H13N	003886-70-2	43
2	1,3-Diaza-5,6-dedihydrocyclohexa...	171	C6H9N3OS	021263-85-4	38
3	6-Isopropylquinoline	171	C12H13N	000135-79-5	38
4	1,2,3,3a-Tetrahydropentalene, 1,...	171	C12H13N	1000217-17-0	37
5	1,2,3,4-Tetrahydropentalene, 1,1...	171	C12H13N	1000217-18-6	37





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

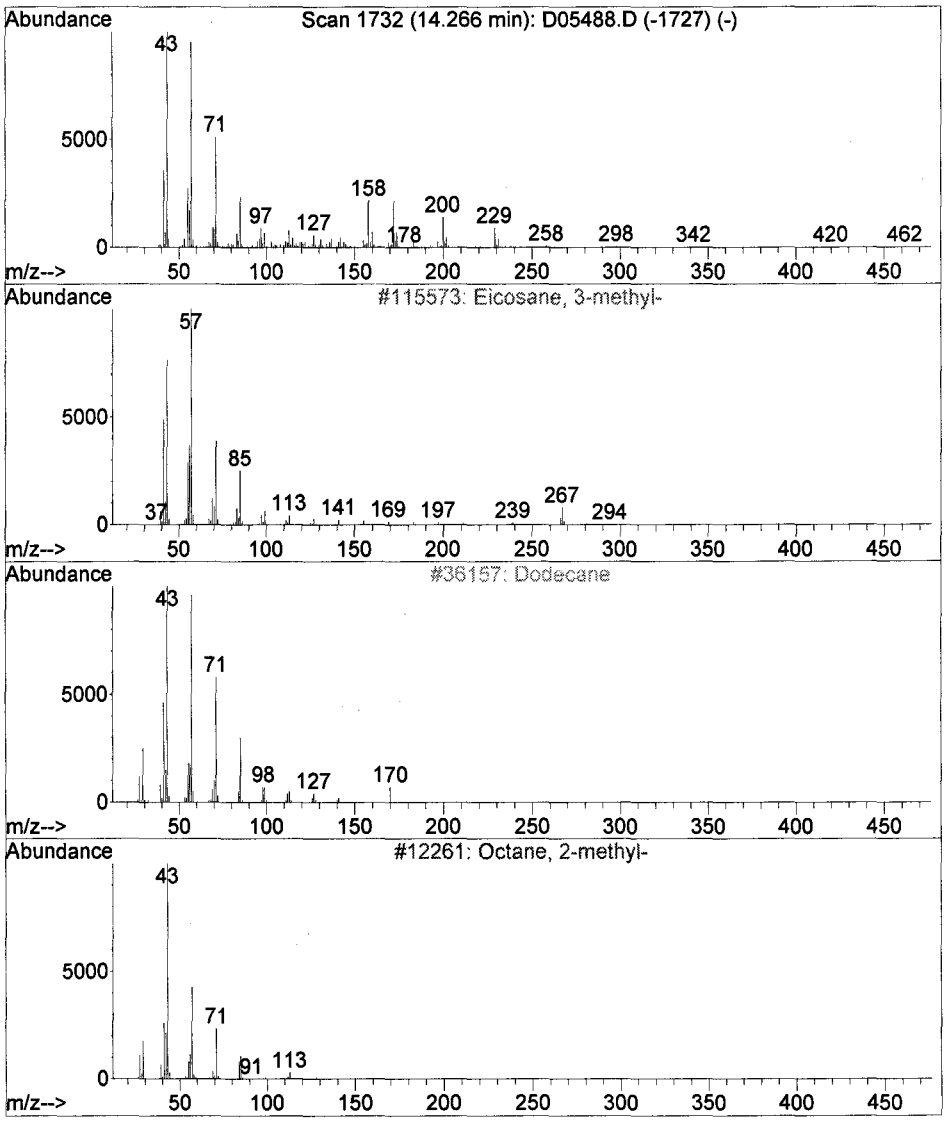
****

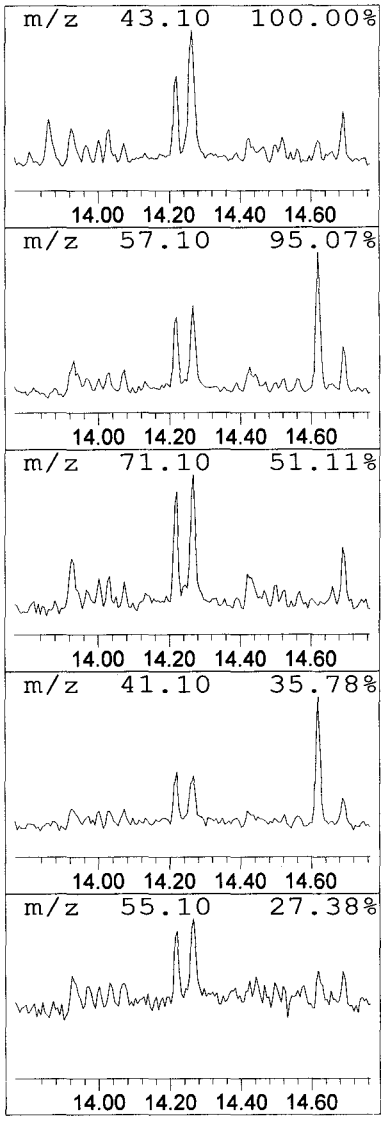
Peak Number 2 Eicosane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	7.99 ug/L	19440500	Phenanthrene-d10	14.83

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 3-methyl-	296	C21H44	006418-46-8	46
2	Dodecane	170	C12H26	000112-40-3	45
3	Octane, 2-methyl-	128	C9H20	003221-61-2	43
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	38
5	Dodecane, 4-methyl-	184	C13H28	006117-97-1	38





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

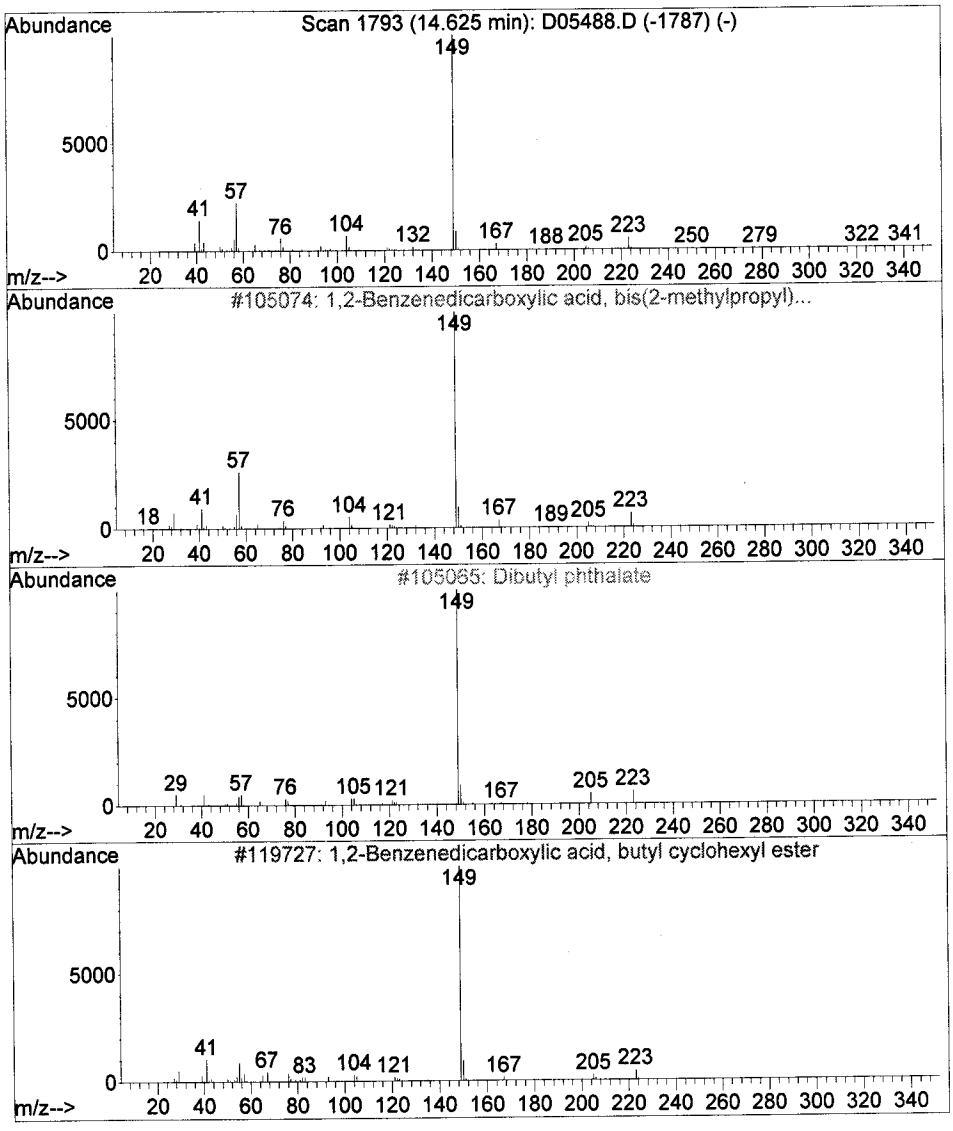
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

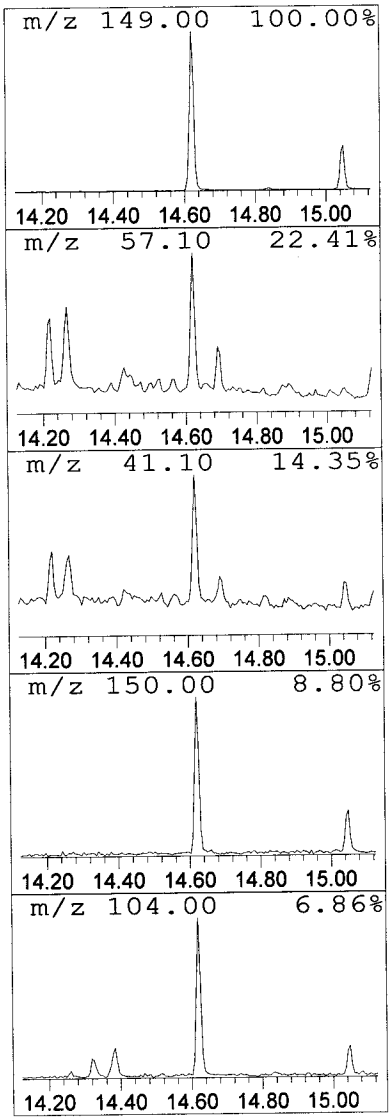
****

Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	8.83 ug/L	21474200	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	86
2	Dibutyl phthalate	278	C16H22O4	000084-74-2	72
3	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	56
4	1,2-Benzenedicarboxylic acid, di...	250	C14H18O4	000131-16-8	56
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	56





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05488.D
Acq On : 12/14/11 15:15 Operator: SV
Sample : F4XP1 Inst : D-5973
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Naphthalenemeth...	10.03	12.5	ug/L	19743900	2	8.37	31479400	20.0
Eicosane, 3-methyl-	14.26	8.0	ug/L	19440500	4	14.33	48656600	20.0
1,2-Benzenedicarb...	14.62	8.8	ug/L	21474200	4	14.33	48656600	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05489

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	140	U
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	140	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	270	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	270	U
83-32-9	Acenaphthene	140	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05489

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	270	U
100-02-7	4-Nitrophenol	270	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	270	U
534-52-1	4,6-Dinitro-2-methylphenol	270	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	270	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	140	U
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05489

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	16.56	280	J
02		Unknown-02	17.99	220	J
03		Unknown-03	18.53	200	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 10:12:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	3733667	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	17111882	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	10575399	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	18253363	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	16917055	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	16033813	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	17505044	32.0917 ug/L	0.01
Spiked Amount 40.000	Range 39 - 106		Recovery = 80.23%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	6435026	28.8150 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 72.04%		
7) 2-Chlorophenol-d4	5.26	132	8201297	31.7402 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 79.35%		
12) 4-Methylphenol-d8	6.62	113	7645502	32.4647 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 81.16%		
17) Nitrobenzene-d5	6.85	128	4064795	31.8467 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 79.62%		
20) 2-Nitrophenol-d4	7.58	143	4429394	36.4350 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 91.09%		
24) 2,4-Dichlorophenol-d3	8.15	165	6855663	31.1323 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 77.83%		
27) 4-Chloroaniline-d4	8.67	131	7738541	31.5423 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 78.86%		
41) Acenaphthylene-d8	12.00	160	31807431	32.4371 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 81.09%		
43) Dimethylphthalate-d6	11.95	166	21465877	32.4015 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 81.00%		
49) 4-Nitrophenol-d4	12.75	143	3503533	37.4150 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 93.54%		
56) Fluorene-d10	13.09	176	19052740	30.1095 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 75.27%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1917412	32.9662 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 82.42%		
68) Anthracene-d10	14.39	188	31138270	31.8015 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 79.50%		
79) Pyrene-d10	15.90	212	30786844	31.5631 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 78.91%		
85) Benzo(a)pyrene-d12	18.86	264	22753813	30.4187 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 76.05%		
Target Compounds					Qvalue
75) bis(2-ethylhexyl)phthalate	17.16	149	4209672	6.0083 ug/L	98

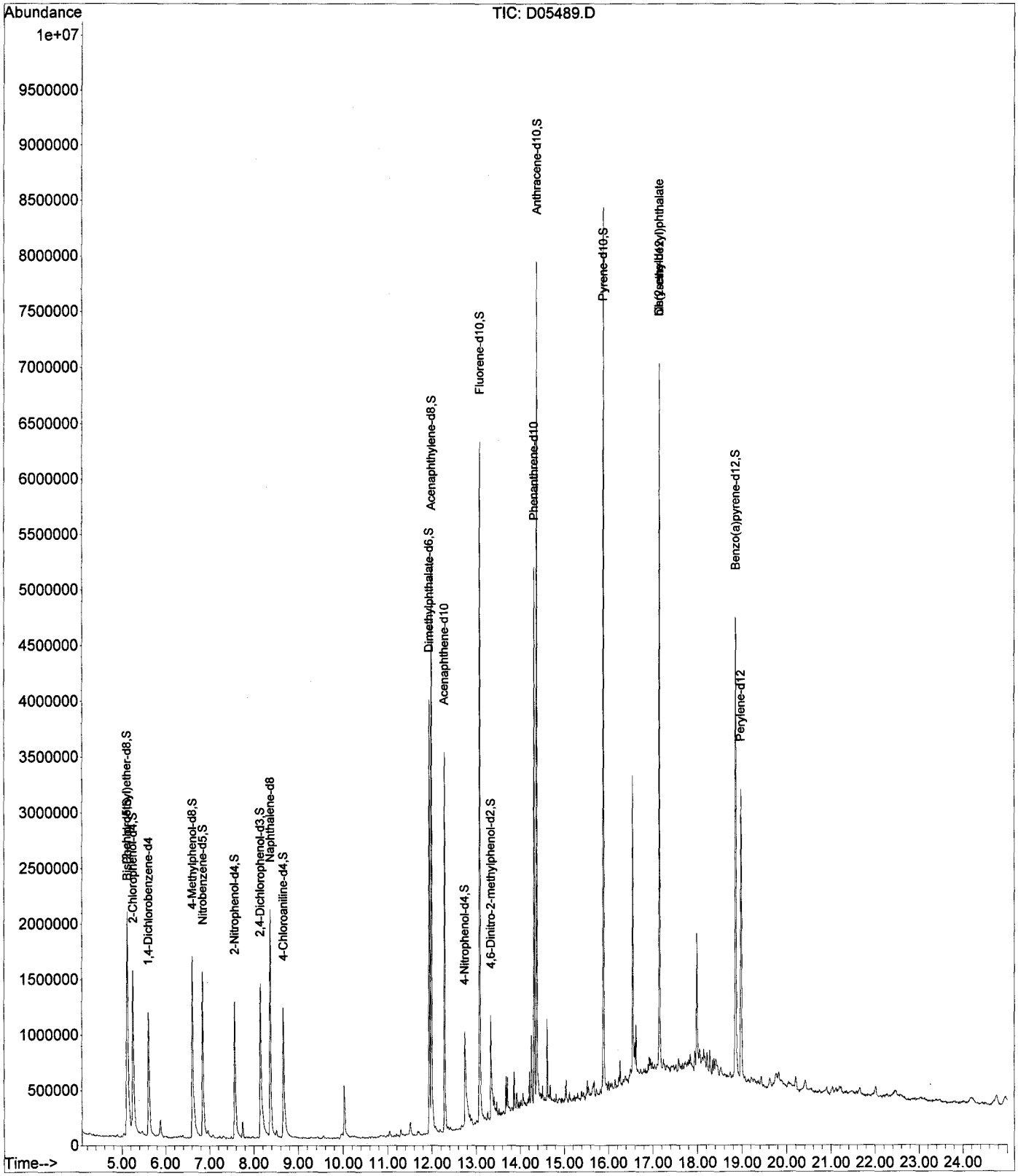
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8873

Quantitation Report (QT Reviewed)

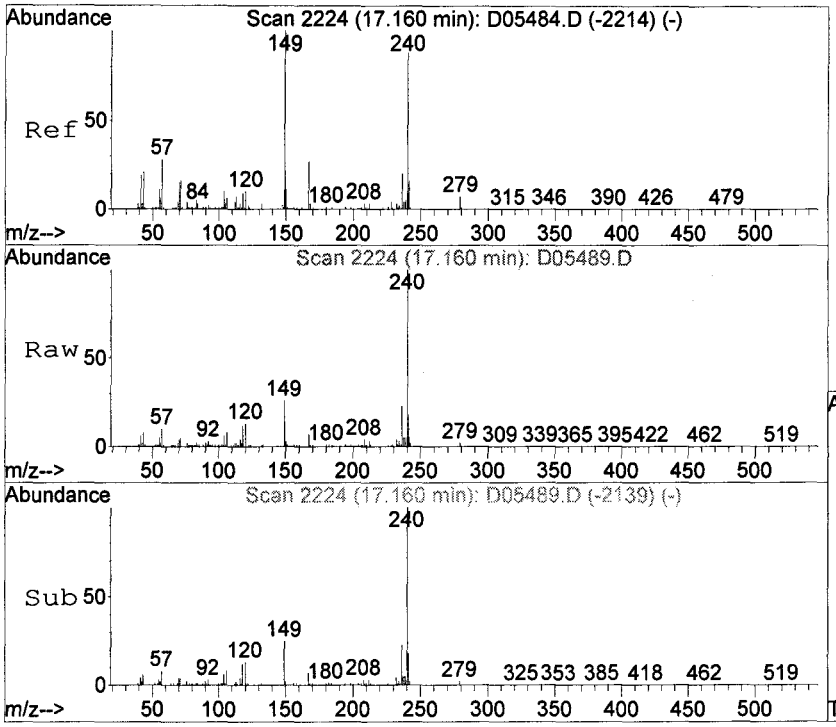
Data File: C:\MSDCHEM\1\DATA\D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 10:12:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



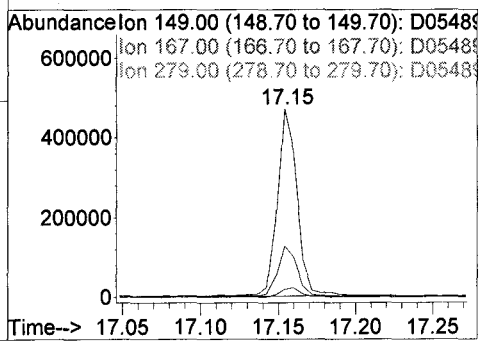
Data File : C:\MSDCHEM\1\DATA\D05489.D
Acq On : 12/14/11 15:46
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 7
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 6.01 ug/L
RT: 17.16 min Scan# 2224
Delta R.T. -0.00 min
Integration Range:
Scan=2214 to 2234
R.T.= 17.10 to 17.22 (min)
Tgt Ion:149 Resp: 4209672

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.5	32.3
279	5.1	3.8	5.6



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	15	16	23	PV 6	3068	73874	0.07%	0.002%
2	4.231	23	26	28	PV 4	11163	99063	0.10%	0.003%
3	4.273	28	33	35	VV 6	18212	356479	0.34%	0.012%
4	4.296	35	37	40	VV 4	12407	121572	0.12%	0.004%
5	4.325	40	42	55	PV 4	5653	239739	0.23%	0.008%
6	4.431	55	60	67	PV 9	10374	205186	0.20%	0.007%
7	4.484	67	69	72	VV 4	7304	77973	0.08%	0.003%
8	4.508	72	73	76	VV 3	4891	24096	0.02%	0.001%
9	4.561	76	82	90	PV 3	7028	139285	0.13%	0.005%
10	4.643	90	96	103	VV 3	7808	198575	0.19%	0.007%
11	4.720	103	109	114	VV 10	11926	214036	0.21%	0.007%
12	4.772	114	118	125	VV 9	11413	316810	0.31%	0.010%
13	4.825	125	127	128	VV 2	8670	73277	0.07%	0.002%
14	4.843	128	130	132	VV 3	6581	72580	0.07%	0.002%
15	4.896	132	139	148	VV 8	23811	583139	0.56%	0.019%
16	4.961	148	150	152	PV 3	7322	53078	0.05%	0.002%
17	4.990	152	155	158	VV 5	12378	200583	0.19%	0.007%
18	5.043	158	164	169	VV 8	37369	866412	0.83%	0.029%
19	5.125	169	178	193	VV 2	2010622	52808477	50.84%	1.746%
20	5.255	193	200	231	VV	1480653	38316514	36.89%	1.267%
21	5.467	231	236	244	VV 7	58900	1937758	1.87%	0.064%
22	5.519	244	245	251	VV 6	32668	684759	0.66%	0.023%
23	5.614	251	261	284	VV	1136992	26652852	25.66%	0.881%
24	5.761	284	286	289	VV 4	21438	278892	0.27%	0.009%
25	5.802	289	293	297	VV 7	26283	591750	0.57%	0.020%
26	5.884	297	307	320	VV 4	165603	4500646	4.33%	0.149%
27	5.972	320	322	325	VV 3	15919	234041	0.23%	0.008%
28	6.002	325	327	333	VV 7	18072	404709	0.39%	0.013%
29	6.049	333	335	339	VV 5	11890	177018	0.17%	0.006%
30	6.084	339	341	344	VV 4	8598	87291	0.08%	0.003%
31	6.108	344	345	349	VV 4	4921	80259	0.08%	0.003%
32	6.143	349	351	353	VV 3	7109	52937	0.05%	0.002%
33	6.190	353	359	361	VV 7	12839	209158	0.20%	0.007%
34	6.249	361	369	372	VV 9	12997	405786	0.39%	0.013%
35	6.290	372	376	379	VV 5	17241	292880	0.28%	0.010%
36	6.337	379	384	387	VV 7	20897	445895	0.43%	0.015%
37	6.390	387	393	400	VV 7	27610	675430	0.65%	0.022%
38	6.443	400	402	409	VV 8	9618	151899	0.15%	0.005%
39	6.508	409	413	417	VV 5	10862	146298	0.14%	0.005%
40	6.566	417	423	425	PV 6	11529	218714	0.21%	0.007%
41	6.614	425	431	453	VV	1600692	37238992	35.85%	1.231%
42	6.749	453	454	460	VV 6	45521	931594	0.90%	0.031%
43	6.849	460	471	486	VV	1520143	31014267	29.86%	1.025%
44	6.966	486	491	504	VV 7	73365	2602313	2.51%	0.086%

0076

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	7.078	504	510	526	VV	7	32316	1261273	1.21%	0.042%
46	7.202	526	531	533	VV	6	14165	238731	0.23%	0.008%
47	7.231	533	536	545	VV	9	23736	514670	0.50%	0.017%
48	7.314	545	550	560	VV	9	23770	727226	0.70%	0.024%
49	7.390	560	563	569	VV	7	10544	215086	0.21%	0.007%
50	7.466	569	576	578	VV	8	6309	91909	0.09%	0.003%
51	7.490	578	580	585	VV	6	17650	230681	0.22%	0.008%
52	7.572	585	594	619	PV		1206186	25821597	24.86%	0.854%
53	7.755	619	625	634	VV		150823	2845557	2.74%	0.094%
54	7.837	634	639	645	VV	10	21827	608482	0.59%	0.020%
55	7.890	645	648	652	VV	6	20557	382390	0.37%	0.013%
56	7.925	652	654	656	VV	3	12026	125268	0.12%	0.004%
57	7.978	656	663	673	VV	3	21427	803286	0.77%	0.027%
58	8.084	673	681	685	VV	10	17840	484176	0.47%	0.016%
59	8.155	685	693	716	VV		1391334	34933297	33.63%	1.155%
60	8.296	716	717	724	VV	7	53928	1214507	1.17%	0.040%
61	8.372	724	730	750	VV		2022384	38501232	37.07%	1.273%
62	8.513	750	754	763	VV	5	76899	1959329	1.89%	0.065%
63	8.590	763	767	769	VV	5	22934	441563	0.43%	0.015%
64	8.666	769	780	806	VV		1182891	28535690	27.47%	0.944%
65	8.831	806	808	816	VV	9	29777	727043	0.70%	0.024%
66	8.884	816	817	819	VV	2	17585	201214	0.19%	0.007%
67	8.913	819	822	829	VV	9	21010	603761	0.58%	0.020%
68	8.990	829	835	838	VV	8	16069	381393	0.37%	0.013%
69	9.013	838	839	841	VV	2	11354	109076	0.11%	0.004%
70	9.031	841	842	844	VV	2	8744	79410	0.08%	0.003%
71	9.060	844	847	851	VV	6	10833	193943	0.19%	0.006%
72	9.107	851	855	863	VV	6	13353	410978	0.40%	0.014%
73	9.160	863	864	868	VV	4	10695	145648	0.14%	0.005%
74	9.196	868	870	872	VV	3	6897	67042	0.06%	0.002%
75	9.284	872	885	893	VV	3	13006	592031	0.57%	0.020%
76	9.343	893	895	897	VV	3	8634	88547	0.09%	0.003%
77	9.372	897	900	902	VV	3	10098	138617	0.13%	0.005%
78	9.431	902	910	919	VV	3	15875	634338	0.61%	0.021%
79	9.496	919	921	924	VV	3	7804	98429	0.09%	0.003%
80	9.566	924	933	937	VV	9	30117	769133	0.74%	0.025%
81	9.607	937	940	944	VV	6	14315	248392	0.24%	0.008%
82	9.672	944	951	958	VV	6	13312	454045	0.44%	0.015%
83	9.725	958	960	964	VV	5	9993	146744	0.14%	0.005%
84	9.790	964	971	977	VV	5	11707	338002	0.33%	0.011%
85	9.837	977	979	981	VV	3	9372	104802	0.10%	0.003%
86	9.872	981	985	988	VV	6	15197	232556	0.22%	0.008%
87	9.902	988	990	993	VV	4	11417	148496	0.14%	0.005%
88	9.966	993	1001	1002	PV	3	43751	748490	0.72%	0.025%
89	9.984	1002	1004	1006	VV	3	43712	513011	0.49%	0.017%
90	10.031	1006	1012	1033	VV		485614	10740148	10.34%	0.355%
91	10.207	1033	1042	1047	VV		21625	875395	0.84%	0.029%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	10.254	1047	1050	1054	VV	6	21429	424790	0.41%	0.014%
93	10.290	1054	1056	1065	VV	10	18987	549908	0.53%	0.018%
94	10.354	1065	1067	1076	VV	10	14462	328022	0.32%	0.011%
95	10.437	1076	1081	1097	VV	10	16102	620637	0.60%	0.021%
96	10.543	1097	1099	1102	VV	3	5804	72624	0.07%	0.002%
97	10.607	1102	1110	1112	VV	9	14575	307333	0.30%	0.010%
98	10.654	1112	1118	1122	PV	9	16112	360994	0.35%	0.012%
99	10.702	1122	1126	1128	VV	5	7874	125848	0.12%	0.004%
100	10.719	1128	1129	1133	VV	4	8314	82161	0.08%	0.003%
101	10.766	1133	1137	1139	PV	5	10682	116378	0.11%	0.004%
102	10.849	1139	1151	1154	VV	5	21761	718181	0.69%	0.024%
103	10.878	1154	1156	1161	VV	6	18286	351801	0.34%	0.012%
104	10.919	1161	1163	1164	VV	2	16478	171332	0.16%	0.006%
105	10.931	1164	1165	1171	VV	6	15116	230162	0.22%	0.008%
106	10.996	1171	1176	1180	VV	8	21021	376728	0.36%	0.012%
107	11.049	1180	1185	1193	VV	6	54691	1221128	1.18%	0.040%
108	11.102	1193	1194	1199	VV	5	7805	121267	0.12%	0.004%
109	11.154	1199	1203	1205	VV	5	12225	170977	0.16%	0.006%
110	11.207	1205	1212	1216	VV	6	27748	502003	0.48%	0.017%
111	11.249	1216	1219	1223	VV	6	16856	252299	0.24%	0.008%
112	11.301	1223	1228	1233	VV		67063	1173904	1.13%	0.039%
113	11.349	1233	1236	1240	VV	6	26093	486559	0.47%	0.016%
114	11.384	1240	1242	1244	VV	3	15822	208682	0.20%	0.007%
115	11.413	1244	1247	1249	VV	4	19917	228579	0.22%	0.008%
116	11.437	1249	1251	1253	VV	3	23022	298131	0.29%	0.010%
117	11.513	1253	1264	1277	VV	2	124362	3650876	3.51%	0.121%
118	11.607	1277	1280	1286	VV	8	13798	265298	0.26%	0.009%
119	11.684	1286	1293	1296	VV	9	42876	789756	0.76%	0.026%
120	11.713	1296	1298	1305	VV	7	36777	667755	0.64%	0.022%
121	11.760	1305	1306	1310	VV	4	10731	115030	0.11%	0.004%
122	11.825	1310	1317	1322	VV	4	17664	424237	0.41%	0.014%
123	11.878	1322	1326	1328	VV	5	17648	329828	0.32%	0.011%
124	11.901	1328	1330	1331	VV	2	17313	169371	0.16%	0.006%
125	11.948	1331	1338	1342	VV		3711126	46945994	45.20%	1.552%
126	11.996	1342	1346	1359	VV		5015800	71210149	68.56%	2.355%
127	12.084	1359	1361	1364	VV	3	77764	1160181	1.12%	0.038%
128	12.107	1364	1365	1369	VV	4	52096	732818	0.71%	0.024%
129	12.143	1369	1371	1375	VV	5	39075	705330	0.68%	0.023%
130	12.190	1375	1379	1386	VV	9	48774	1373753	1.32%	0.045%
131	12.243	1386	1388	1390	VV	3	25330	271594	0.26%	0.009%
132	12.296	1390	1397	1408	VV		3456142	47020985	45.27%	1.555%
133	12.372	1408	1410	1415	VV	6	69388	1390279	1.34%	0.046%
134	12.425	1415	1419	1423	VV	7	63430	1488622	1.43%	0.049%
135	12.454	1423	1424	1427	VV	3	43606	564718	0.54%	0.019%
136	12.490	1427	1430	1433	VV	5	39975	778125	0.75%	0.026%
137	12.519	1433	1435	1437	VV	3	40100	516509	0.50%	0.017%
138	12.548	1437	1440	1446	VV	8	46516	1203459	1.16%	0.040%
139	12.631	1446	1454	1457	VV	10	48420	1705645	1.64%	0.056%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.678	1457	1462	1466	VV	7	75331	1870550	1.80%	0.062%
141	12.754	1466	1475	1491	VV		898380	29253194	28.16%	0.967%
142	12.860	1491	1493	1496	VV	2	169639	2463503	2.37%	0.081%
143	12.901	1496	1500	1508	VV	6	133622	4307623	4.15%	0.142%
144	12.966	1508	1511	1513	VV	4	93238	1361984	1.31%	0.045%
145	13.013	1513	1519	1522	VV	8	115859	3180261	3.06%	0.105%
146	13.090	1522	1532	1543	VV		6252949	84756189	81.60%	2.802%
147	13.160	1543	1544	1547	VV	3	158722	2185679	2.10%	0.072%
148	13.201	1547	1551	1556	VV	8	139216	3992669	3.84%	0.132%
149	13.266	1556	1562	1569	VV	8	185214	6248049	6.02%	0.207%
150	13.343	1569	1575	1585	VV	2	1028348	23200822	22.34%	0.767%
151	13.413	1585	1587	1590	VV	2	310864	5044004	4.86%	0.167%
152	13.437	1590	1591	1593	VV	2	211701	2125250	2.05%	0.070%
153	13.466	1593	1596	1602	VV	3	267139	6071228	5.85%	0.201%
154	13.519	1602	1605	1607	VV		207060	3467040	3.34%	0.115%
155	13.543	1607	1609	1611	VV	3	166829	2246163	2.16%	0.074%
156	13.572	1611	1614	1616	VV	4	173179	2533535	2.44%	0.084%
157	13.595	1616	1618	1619	VV	2	168106	1854678	1.79%	0.061%
158	13.613	1619	1621	1628	VV	8	181444	5053971	4.87%	0.167%
159	13.684	1628	1633	1636	VV		466760	8005580	7.71%	0.265%
160	13.719	1636	1639	1649	VV		470935	12210168	11.76%	0.404%
161	13.813	1649	1655	1659	VV	9	214212	6964615	6.71%	0.230%
162	13.866	1659	1664	1671	VV		525366	12060097	11.61%	0.399%
163	13.931	1671	1675	1680	VV	2	346490	8180893	7.88%	0.270%
164	13.972	1680	1682	1685	VV	3	260262	4579852	4.41%	0.151%
165	14.001	1685	1687	1690	VV	3	257594	3785299	3.64%	0.125%
166	14.031	1690	1692	1696	VV	3	279152	5368743	5.17%	0.178%
167	14.078	1696	1700	1705	VV	5	332702	8453957	8.14%	0.280%
168	14.113	1705	1706	1708	VV	2	257913	3026527	2.91%	0.100%
169	14.137	1708	1710	1713	VV	4	248608	3589578	3.46%	0.119%
170	14.190	1713	1719	1721	VV	7	283836	7472793	7.19%	0.247%
171	14.219	1721	1724	1727	VV		508271	7610170	7.33%	0.252%
172	14.266	1727	1732	1738	VV	2	827062	16058604	15.46%	0.531%
173	14.325	1738	1742	1748	VV		4629219	55489389	53.42%	1.835%
174	14.384	1748	1752	1764	VV		7199944	91908781	88.49%	3.039%
175	14.472	1764	1767	1770	VV	3	328972	5841262	5.62%	0.193%
176	14.519	1770	1775	1781	VV	4	384492	12001166	11.55%	0.397%
177	14.566	1781	1783	1786	VV	4	288996	5120258	4.93%	0.169%
178	14.625	1786	1793	1797	VV		908323	15834103	15.24%	0.524%
179	14.660	1797	1799	1802	VV	4	313523	5510566	5.31%	0.182%
180	14.695	1802	1805	1808	VV		395404	7373640	7.10%	0.244%
181	14.725	1808	1810	1813	VV	4	271652	4016008	3.87%	0.133%
182	14.754	1813	1815	1817	VV	3	263736	3773723	3.63%	0.125%
183	14.778	1817	1819	1822	VV	4	270080	4852156	4.67%	0.160%
184	14.819	1822	1826	1833	VV	4	307823	9351689	9.00%	0.309%
185	14.895	1833	1839	1845	VV	10	275249	11430748	11.01%	0.378%
186	14.942	1845	1847	1850	VV	4	272435	3802077	3.66%	0.126%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.972	1850	1852	1857	VV	6	267381	6324821	6.09%	0.209%
188	15.048	1857	1865	1872	VV		439323	15916681	15.32%	0.526%
189	15.125	1872	1878	1881	VV	2	320150	8019178	7.72%	0.265%
190	15.148	1881	1882	1886	VV	4	268616	4598865	4.43%	0.152%
191	15.207	1886	1892	1894	VV	6	266468	7580221	7.30%	0.251%
192	15.237	1894	1897	1900	VV	4	293072	5826613	5.61%	0.193%
193	15.272	1900	1903	1908	VV	7	277391	6742449	6.49%	0.223%
194	15.313	1908	1910	1917	VV	6	309009	8899650	8.57%	0.294%
195	15.360	1917	1918	1920	VV	2	264296	3135088	3.02%	0.104%
196	15.401	1920	1925	1929	VV	7	325073	8282895	7.97%	0.274%
197	15.442	1929	1932	1935	VV	5	312728	6480568	6.24%	0.214%
198	15.466	1935	1936	1938	VV	2	278125	3337463	3.21%	0.110%
199	15.525	1938	1946	1949	VV	3	410256	11570581	11.14%	0.383%
200	15.560	1949	1952	1958	VV	8	365394	10066794	9.69%	0.333%
201	15.607	1958	1960	1962	VV	3	303910	4469379	4.30%	0.148%
202	15.678	1962	1972	1978	VV	3	405214	18867620	18.16%	0.624%
203	15.736	1978	1982	1989	VV	10	343930	11463930	11.04%	0.379%
204	15.789	1989	1991	1993	VV	3	295819	4001677	3.85%	0.132%
205	15.831	1993	1998	2001	VV	3	338597	8998459	8.66%	0.298%
206	15.895	2001	2009	2017	VV		8109995	103868001	100.00%	3.434%
207	15.954	2017	2019	2024	VV	5	385888	9272026	8.93%	0.307%
208	16.001	2024	2027	2031	VV	5	399949	8333187	8.02%	0.276%
209	16.042	2031	2034	2037	VV	5	383069	7700370	7.41%	0.255%
210	16.078	2037	2040	2048	VV	9	389019	14259947	13.73%	0.472%
211	16.154	2048	2053	2058	VV	4	414653	11853064	11.41%	0.392%
212	16.195	2058	2060	2063	VV	4	364044	6296495	6.06%	0.208%
213	16.231	2063	2066	2069	VV	4	432499	8666340	8.34%	0.287%
214	16.266	2069	2072	2079	VV	2	588727	16289586	15.68%	0.539%
215	16.336	2079	2084	2087	VV	7	415134	9721774	9.36%	0.321%
216	16.378	2087	2091	2096	VV	6	440749	14514158	13.97%	0.480%
217	16.419	2096	2098	2100	VV	3	416612	5020381	4.83%	0.166%
218	16.436	2100	2101	2104	VV	3	411011	5703987	5.49%	0.189%
219	16.478	2104	2108	2109	VV	4	445445	7717401	7.43%	0.255%
220	16.507	2109	2113	2116	VV	5	500652	10741084	10.34%	0.355%
221	16.554	2116	2121	2128	VV		2902414	47671896	45.90%	1.576%
222	16.607	2128	2130	2131	VV		725643	8744717	8.42%	0.289%
223	16.631	2131	2134	2139	VV		890516	16942774	16.31%	0.560%
224	16.672	2139	2141	2146	VV	6	495048	12566528	12.10%	0.416%
225	16.731	2146	2151	2155	VV	8	499125	14197156	13.67%	0.469%
226	16.760	2155	2156	2158	VV	2	466444	4444222	4.28%	0.147%
227	16.783	2158	2160	2161	VV	2	467376	5371773	5.17%	0.178%
228	16.807	2161	2164	2168	VV	5	500988	11597691	11.17%	0.383%
229	16.842	2168	2170	2176	VV	7	497971	14523229	13.98%	0.480%
230	16.901	2176	2180	2182	VV	5	538350	9784412	9.42%	0.324%
231	16.931	2182	2185	2187	VV	3	602899	10045252	9.67%	0.332%
232	16.954	2187	2189	2193	VV	4	578449	10880362	10.48%	0.360%
233	16.995	2193	2196	2202	VV	5	559668	16297310	15.69%	0.539%
234	17.048	2202	2205	2210	VV	7	532879	15085025	14.52%	0.499%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	17.107	2210	2215	2217	VV	6	532917	12636561	12.17%	0.418%
236	17.160	2217	2224	2233	VV		6534858	92318783	88.88%	3.052%
237	17.248	2233	2239	2247	VV		570647	24266231	23.36%	0.802%
238	17.313	2247	2250	2251	VV	3	513367	7023582	6.76%	0.232%
239	17.331	2251	2253	2257	VV	5	516638	11075251	10.66%	0.366%
240	17.366	2257	2259	2265	VV	6	506232	14510685	13.97%	0.480%
241	17.425	2265	2269	2273	VV	7	509463	13966146	13.45%	0.462%
242	17.472	2273	2277	2279	VV	5	520288	10597193	10.20%	0.350%
243	17.525	2279	2286	2290	VV	10	517992	19168447	18.45%	0.634%
244	17.589	2290	2297	2303	VV	6	569753	22827221	21.98%	0.755%
245	17.636	2303	2305	2309	VV	5	518383	9742913	9.38%	0.322%
246	17.672	2309	2311	2316	VV	6	526774	12504867	12.04%	0.413%
247	17.730	2316	2321	2328	VV	9	543980	21614143	20.81%	0.715%
248	17.783	2328	2330	2333	VV	4	540656	9846979	9.48%	0.326%
249	17.819	2333	2336	2338	VV	2	556836	9041876	8.71%	0.299%
250	17.848	2338	2341	2344	VV	2	605126	12928018	12.45%	0.427%
251	17.878	2344	2346	2354	VV	9	527004	17039270	16.40%	0.563%
252	17.954	2354	2359	2362	VV	3	630263	14701764	14.15%	0.486%
253	17.995	2362	2366	2373	VV	2	1646346	37063495	35.68%	1.225%
254	18.054	2373	2376	2382	VV	5	649385	17686703	17.03%	0.585%
255	18.119	2382	2387	2389	VV	4	573921	15173353	14.61%	0.502%
256	18.148	2389	2392	2395	VV	2	641471	11889433	11.45%	0.393%
257	18.177	2395	2397	2401	VV	4	580694	10409803	10.02%	0.344%
258	18.225	2401	2405	2411	VV		616916	19062360	18.35%	0.630%
259	18.283	2411	2415	2422	VV	2	626821	19185468	18.47%	0.634%
260	18.342	2422	2425	2429	VV	3	538455	11428561	11.00%	0.378%
261	18.377	2429	2431	2434	VV	2	550859	10380477	9.99%	0.343%
262	18.419	2434	2438	2442	VV	4	556361	13271591	12.78%	0.439%
263	18.454	2442	2444	2450	VV	6	495955	14054786	13.53%	0.465%
264	18.530	2450	2457	2467	VV	6	477544	25507659	24.56%	0.843%
265	18.607	2467	2470	2472	VV	4	416737	6888738	6.63%	0.228%
266	18.625	2472	2473	2476	VV	3	412536	6508456	6.27%	0.215%
267	18.654	2476	2478	2484	VV	7	402323	10377193	9.99%	0.343%
268	18.736	2484	2492	2499	VV	7	430388	20682137	19.91%	0.684%
269	18.789	2499	2501	2504	VV	4	402196	7701295	7.41%	0.255%
270	18.866	2504	2514	2526	VV		4506833	100489106	96.75%	3.323%
271	18.989	2526	2535	2546	VV		2940474	68398442	65.85%	2.262%
272	19.066	2546	2548	2554	VV	7	382152	10360394	9.97%	0.343%
273	19.130	2554	2559	2561	VV	6	347391	8543999	8.23%	0.283%
274	19.154	2561	2563	2567	VV	5	350712	7868324	7.58%	0.260%
275	19.213	2567	2573	2580	VV	5	370408	14748454	14.20%	0.488%
276	19.272	2580	2583	2589	VV	8	355463	11155427	10.74%	0.369%
277	19.319	2589	2591	2594	VV	4	329876	5780773	5.57%	0.191%
278	19.348	2594	2596	2600	VV	5	335022	6905987	6.65%	0.228%
279	19.383	2600	2602	2605	VV	4	334282	5680380	5.47%	0.188%
280	19.436	2605	2611	2616	VV	4	376486	12989502	12.51%	0.429%
281	19.483	2616	2619	2626	VV	9	298684	10147682	9.77%	0.336%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.536	2626	2628	2634	VV	7	281202	7803938	7.51%	0.258%
283	19.624	2634	2643	2651	VV	7	356301	17985643	17.32%	0.595%
284	19.707	2651	2657	2658	VV	6	310941	8190281	7.89%	0.271%
285	19.766	2658	2667	2673	VV	6	392406	18165689	17.49%	0.601%
286	19.830	2673	2678	2683	VV	9	405736	13738166	13.23%	0.454%
287	19.872	2683	2685	2686	VV	2	330012	3482429	3.35%	0.115%
288	19.889	2686	2688	2696	VV	9	331839	10446295	10.06%	0.345%
289	19.942	2696	2697	2699	VV	2	298125	3325020	3.20%	0.110%
290	19.966	2699	2701	2703	VV	3	292515	3811288	3.67%	0.126%
291	19.989	2703	2705	2707	VV	3	282820	4345510	4.18%	0.144%
292	20.030	2707	2712	2718	VV	10	295883	10587250	10.19%	0.350%
293	20.072	2718	2719	2732	VV	10	300275	14105386	13.58%	0.466%
294	20.166	2732	2735	2737	VV	4	277000	4926181	4.74%	0.163%
295	20.207	2737	2742	2749	VV		351936	13100513	12.61%	0.433%
296	20.271	2749	2753	2759	VV	9	240905	8049467	7.75%	0.266%
297	20.319	2759	2761	2763	VV	3	239028	2864666	2.76%	0.095%
298	20.419	2763	2778	2789	VV	3	320217	24824794	23.90%	0.821%
299	20.501	2789	2792	2794	VV	4	238275	4028159	3.88%	0.133%
300	20.536	2794	2798	2801	VV	6	242484	5574430	5.37%	0.184%
301	20.560	2801	2802	2809	VV	7	243382	6149937	5.92%	0.203%
302	20.613	2809	2811	2813	VV	3	216357	3603582	3.47%	0.119%
303	20.636	2813	2815	2817	VV	3	214989	2616207	2.52%	0.087%
304	20.660	2817	2819	2822	VV	4	220450	3977009	3.83%	0.131%
305	20.695	2822	2825	2828	VV	5	214083	3835178	3.69%	0.127%
306	20.719	2828	2829	2831	VV	2	210323	2114079	2.04%	0.070%
307	20.748	2831	2834	2840	VV	8	225226	6669100	6.42%	0.221%
308	20.824	2840	2847	2848	VV	7	208171	6158746	5.93%	0.204%
309	20.842	2848	2850	2852	VV	3	212910	2652578	2.55%	0.088%
310	20.895	2852	2859	2872	VV	3	241060	15328385	14.76%	0.507%
311	21.036	2872	2883	2890	VV	3	247756	12822542	12.35%	0.424%
312	21.113	2890	2896	2900	VV	8	235869	7925089	7.63%	0.262%
313	21.148	2900	2902	2905	VV	4	220067	4041988	3.89%	0.134%
314	21.195	2905	2910	2920	VV	4	247055	11898767	11.46%	0.393%
315	21.260	2920	2921	2930	VV	9	203730	6345662	6.11%	0.210%
316	21.324	2930	2932	2934	VV	3	198629	2826169	2.72%	0.093%
317	21.366	2934	2939	2943	VV	8	202625	6451614	6.21%	0.213%
318	21.401	2943	2945	2946	VV	2	185808	1885795	1.82%	0.062%
319	21.424	2946	2949	2951	VV	4	190221	2983191	2.87%	0.099%
320	21.448	2951	2953	2955	VV	3	195056	2802899	2.70%	0.093%
321	21.483	2955	2959	2972	VV	3	201096	11415219	10.99%	0.377%
322	21.589	2972	2977	2979	VV	6	192862	4554247	4.38%	0.151%
323	21.613	2979	2981	2982	VV	2	190600	2119715	2.04%	0.070%
324	21.654	2982	2988	2998	VV	6	225630	10648774	10.25%	0.352%
325	21.724	2998	3000	3006	VV	7	171942	4574362	4.40%	0.151%
326	21.771	3006	3008	3012	VV	5	163042	2996315	2.88%	0.099%
327	21.807	3012	3014	3016	VV	3	159607	2300656	2.21%	0.076%
328	21.848	3016	3021	3024	VV	7	163306	4168100	4.01%	0.138%
329	21.883	3024	3027	3032	VV	7	155462	4509197	4.34%	0.149%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.936	3032	3036	3037	VV	4	160810	2859475	2.75%	0.095%
331	21.954	3037	3039	3041	VV	3	165679	2207098	2.12%	0.073%
332	22.013	3041	3049	3062	VV	3	228749	12871180	12.39%	0.426%
333	22.107	3062	3065	3067	VV	4	140502	2133439	2.05%	0.071%
334	22.130	3067	3069	3075	VV	7	145447	4141070	3.99%	0.137%
335	22.183	3075	3078	3080	VV	4	143673	2170722	2.09%	0.072%
336	22.207	3080	3082	3085	VV	4	146839	2775088	2.67%	0.092%
337	22.254	3085	3090	3093	VV	7	150074	4114060	3.96%	0.136%
338	22.283	3093	3095	3097	VV	3	154464	1791659	1.72%	0.059%
339	22.301	3097	3098	3102	VV	4	145680	2306520	2.22%	0.076%
340	22.336	3102	3104	3108	VV	5	143582	2792534	2.69%	0.092%
341	22.377	3108	3111	3112	VV	3	145319	2420960	2.33%	0.080%
342	22.424	3112	3119	3120	VV	7	164066	4064603	3.91%	0.134%
343	22.460	3120	3125	3127	VV	6	185443	4114788	3.96%	0.136%
344	22.477	3127	3128	3135	VV	7	180752	4678807	4.50%	0.155%
345	22.530	3135	3137	3139	VV	3	144572	2038055	1.96%	0.067%
346	22.577	3139	3145	3152	VV	3	143454	6035623	5.81%	0.200%
347	22.624	3152	3153	3155	VV	2	131624	1411365	1.36%	0.047%
348	22.648	3155	3157	3160	VV	4	125378	2141051	2.06%	0.071%
349	22.677	3160	3162	3170	VV	9	121538	3568898	3.44%	0.118%
350	22.736	3170	3172	3175	VV	4	97124	1750955	1.69%	0.058%
351	22.765	3175	3177	3178	VV	2	100390	1083298	1.04%	0.036%
352	22.783	3178	3180	3182	VV	3	95154	1079007	1.04%	0.036%
353	22.801	3182	3183	3185	VV	2	95767	1017629	0.98%	0.034%
354	22.842	3185	3190	3195	VV	9	97957	3299184	3.18%	0.109%
355	22.883	3195	3197	3199	VV	3	99759	1416672	1.36%	0.047%
356	22.912	3199	3202	3205	VV	5	102984	1835715	1.77%	0.061%
357	22.948	3205	3208	3214	VV	8	99760	3161685	3.04%	0.105%
358	22.995	3214	3216	3218	VV	3	99252	1341799	1.29%	0.044%
359	23.030	3218	3222	3229	VV	10	110827	4019801	3.87%	0.133%
360	23.083	3229	3231	3233	VV	3	101030	1386272	1.33%	0.046%
361	23.107	3233	3235	3237	VV	3	96730	1116597	1.08%	0.037%
362	23.130	3237	3239	3243	VV	5	101426	2135276	2.06%	0.071%
363	23.171	3243	3246	3248	VV	4	86651	1273824	1.23%	0.042%
364	23.189	3248	3249	3253	VV	4	82104	1462079	1.41%	0.048%
365	23.224	3253	3255	3257	VV	3	78163	1102804	1.06%	0.036%
366	23.254	3257	3260	3263	VV	5	79123	1500453	1.44%	0.050%
367	23.301	3263	3268	3270	VV	5	81394	1618008	1.56%	0.053%
368	23.318	3270	3271	3279	VV	8	75943	2111061	2.03%	0.070%
369	23.389	3279	3283	3290	VV	10	83462	3074956	2.96%	0.102%
370	23.460	3290	3295	3298	VV	7	77521	1975542	1.90%	0.065%
371	23.489	3298	3300	3302	VV	3	78967	952131	0.92%	0.031%
372	23.507	3302	3303	3308	VV	5	66172	1268936	1.22%	0.042%
373	23.548	3308	3310	3311	VV	2	58833	612051	0.59%	0.020%
374	23.571	3311	3314	3320	VV	8	60906	1646411	1.59%	0.054%
375	23.612	3320	3321	3323	VV	2	58902	656748	0.63%	0.022%
376	23.636	3323	3325	3327	VV	3	50484	510892	0.49%	0.017%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.660	3327	3329	3332	VV	4	47159	770338	0.74%	0.025%
378	23.689	3332	3334	3336	VV	3	45583	626688	0.60%	0.021%
379	23.707	3336	3337	3339	VV	2	47914	465248	0.45%	0.015%
380	23.736	3339	3342	3343	VV	3	48055	679154	0.65%	0.022%
381	23.754	3343	3345	3347	VV	3	47775	503543	0.48%	0.017%
382	23.795	3347	3352	3355	VV	7	59310	1627957	1.57%	0.054%
383	23.830	3355	3358	3361	VV	5	59406	965964	0.93%	0.032%
384	23.854	3361	3362	3370	VV	8	50389	1504927	1.45%	0.050%
385	23.930	3370	3375	3381	VV	10	47363	1588805	1.53%	0.053%
386	23.989	3381	3385	3386	VV	4	47551	862816	0.83%	0.029%
387	24.007	3386	3388	3392	VV	5	57307	898261	0.86%	0.030%
388	24.036	3392	3393	3399	VV	6	51936	1178985	1.14%	0.039%
389	24.118	3399	3407	3408	VV	8	43756	1264110	1.22%	0.042%
390	24.207	3408	3422	3431	VV	8	83407	5309220	5.11%	0.176%
391	24.283	3431	3435	3437	VV	5	40396	930748	0.90%	0.031%
392	24.312	3437	3440	3455	VV	5	32012	1552509	1.49%	0.051%
393	24.442	3455	3462	3471	VV	5	34076	1312595	1.26%	0.043%
394	24.506	3471	3473	3475	VV	3	29331	299241	0.29%	0.010%
395	24.524	3475	3476	3481	VV	5	24727	349237	0.34%	0.012%
396	24.577	3481	3485	3495	VV	5	14551	411710	0.40%	0.014%
397	24.771	3495	3518	3534	PV	5	91060	4996440	4.81%	0.165%

Sum of corrected areas: 3024371572

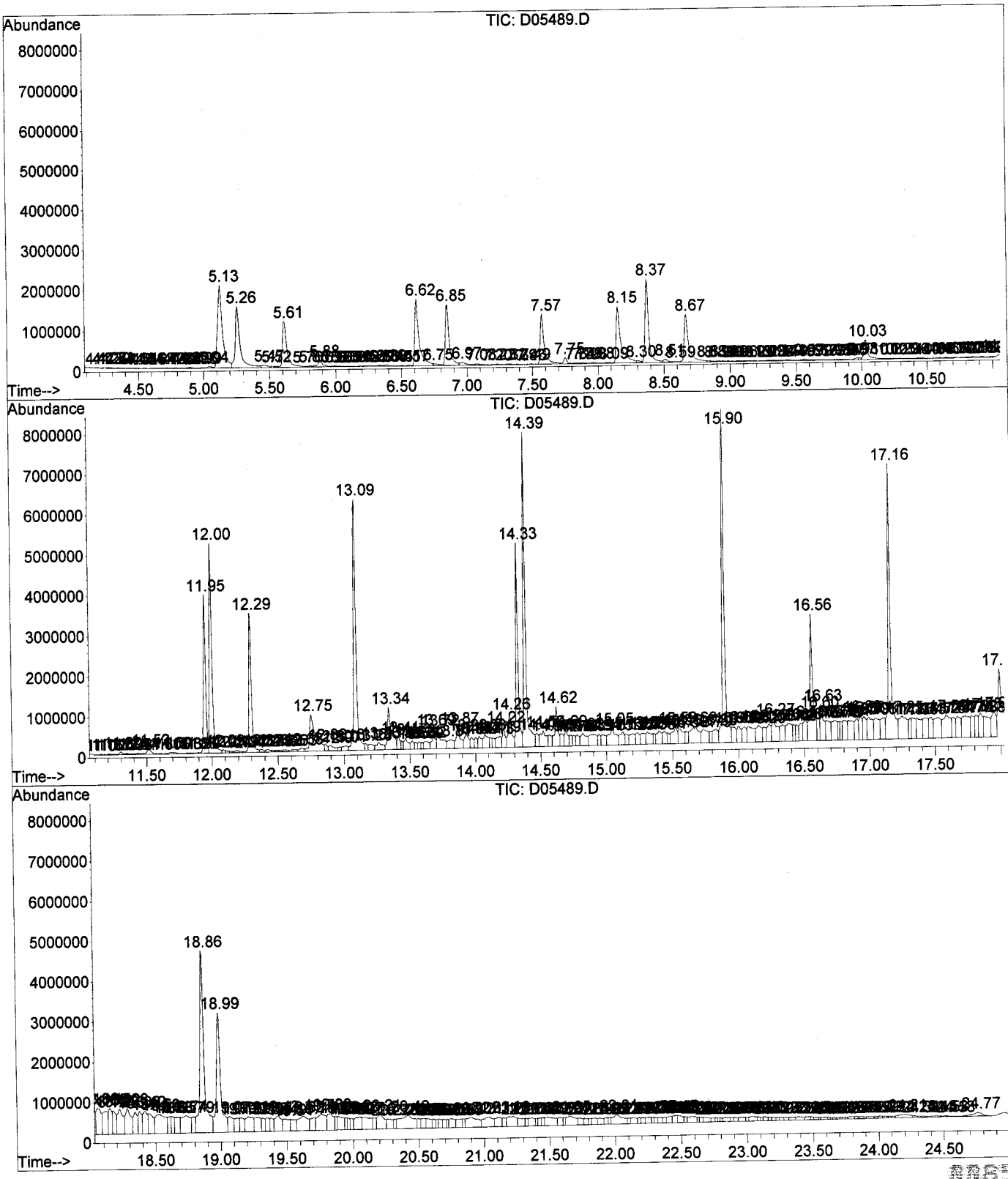
LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

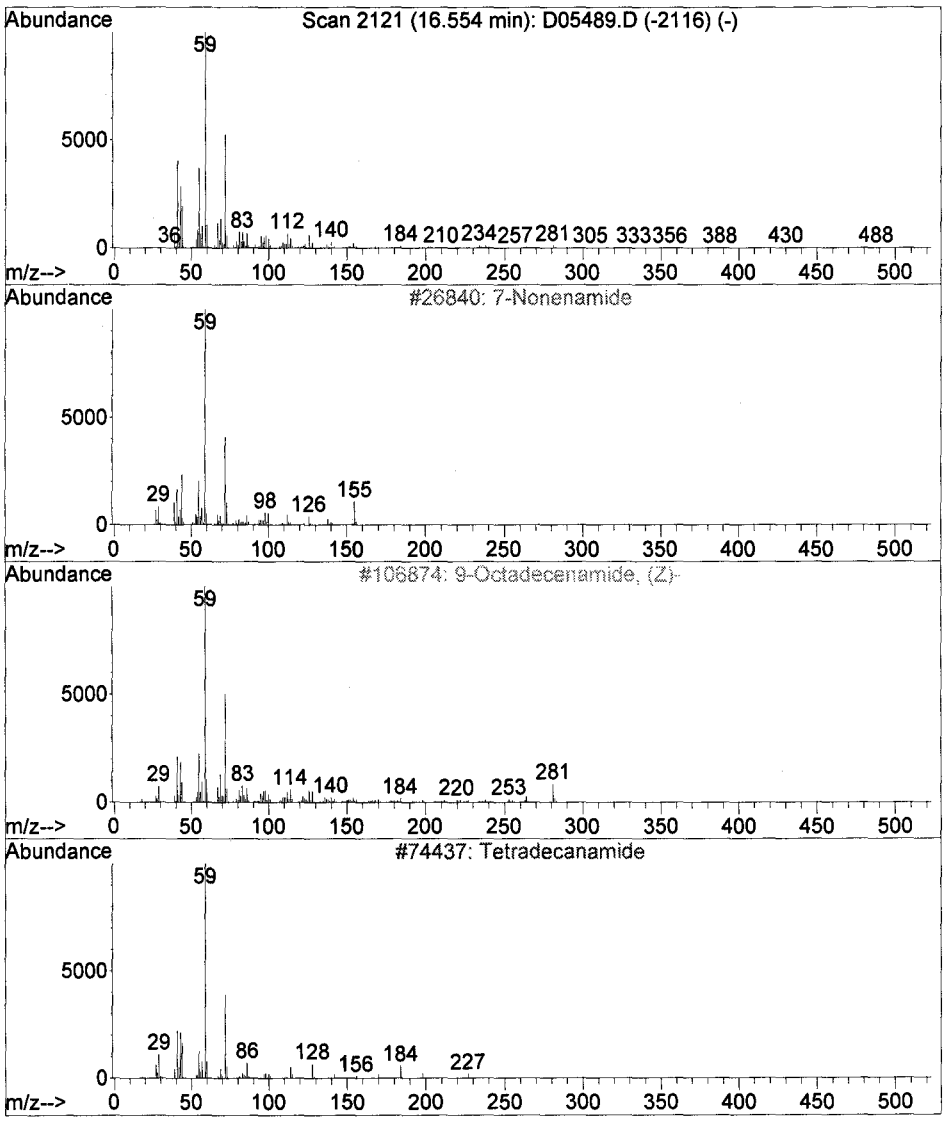
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

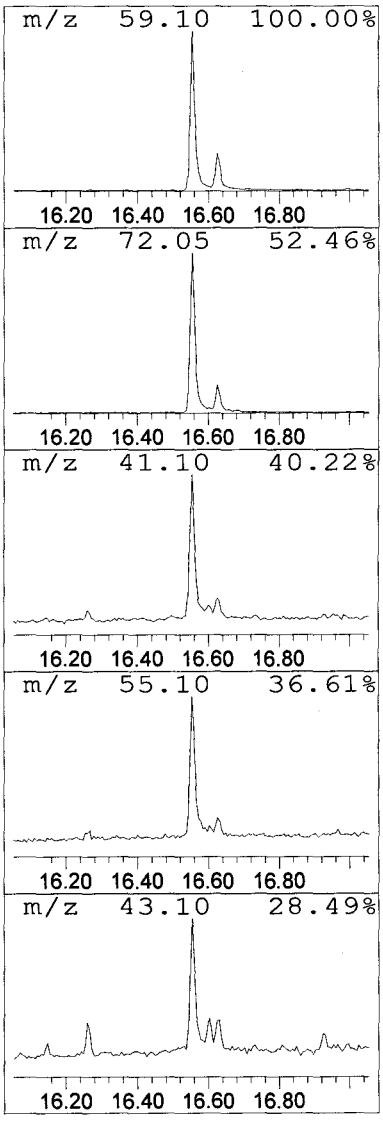
****

Peak Number 1 7-Nonenamide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	10.33 ug/L	47671900	Chrysene-d12	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Nonenamide	155	C9H17NO	090949-53-4	78
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	74
3	Tetradecanamide	227	C14H29NO	000638-58-4	56
4	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	50
5	Butanamide, 3,3-dimethyl-	115	C6H13NO	000926-04-5	47





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/14/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

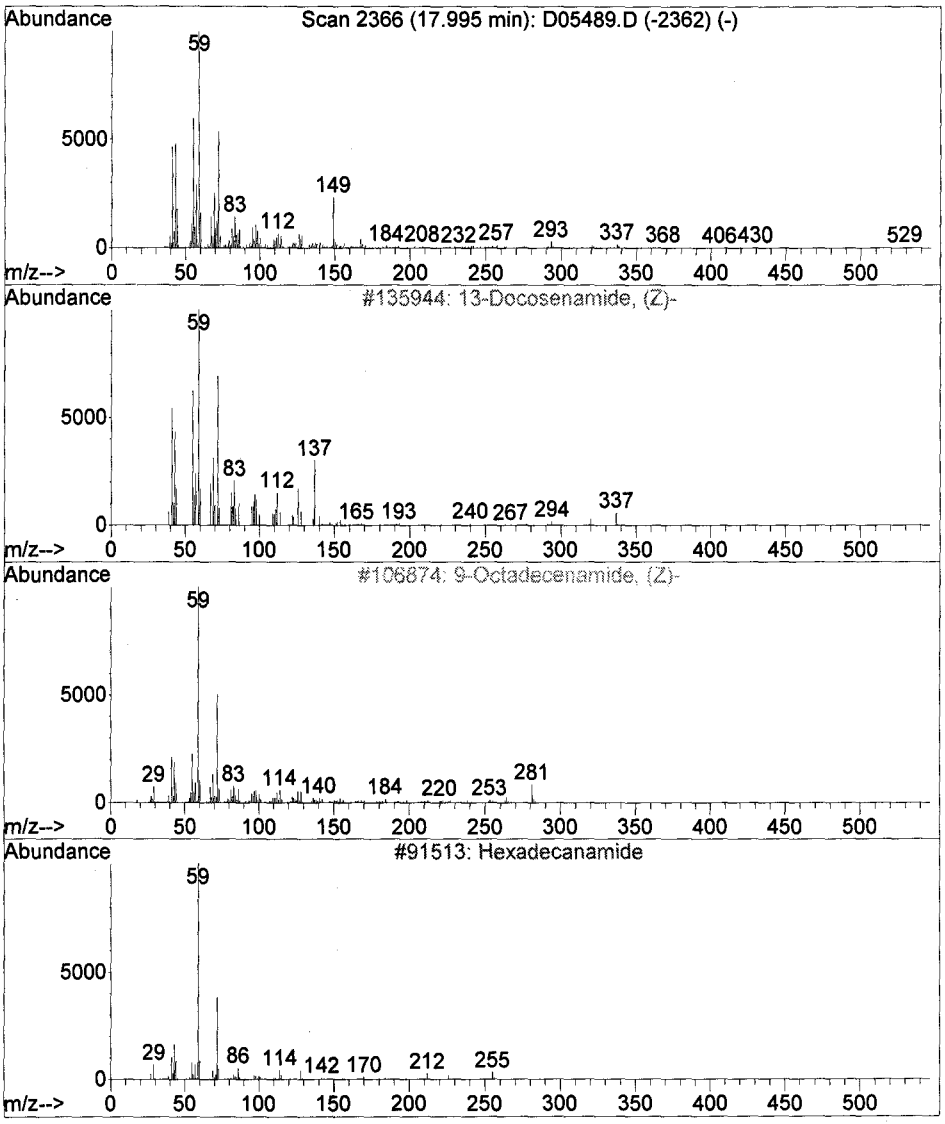
****

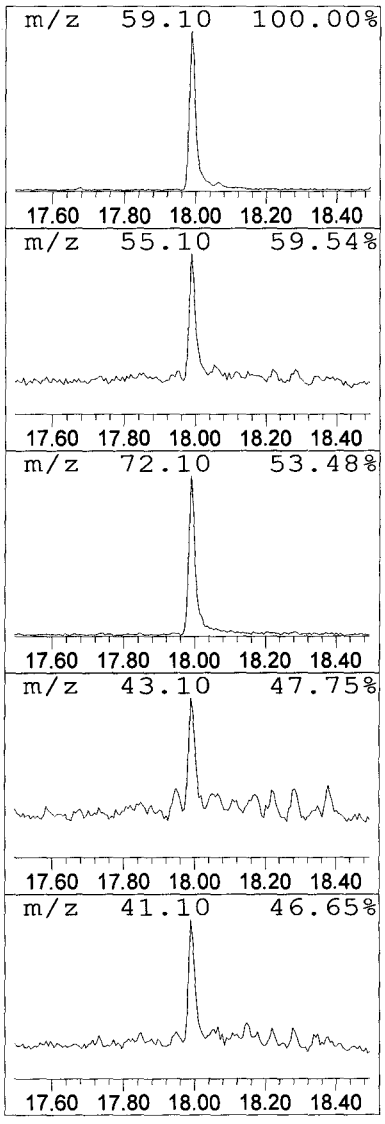
Peak Number 2 13-Docosenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	8.03 ug/L	37063500	Chrysene-d12	17.96

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	81
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
3	Hexadecanamide	255	C16H33NO	000629-54-9	59
4	Tetradecanamide	227	C14H29NO	000638-58-4	59
5	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	58





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

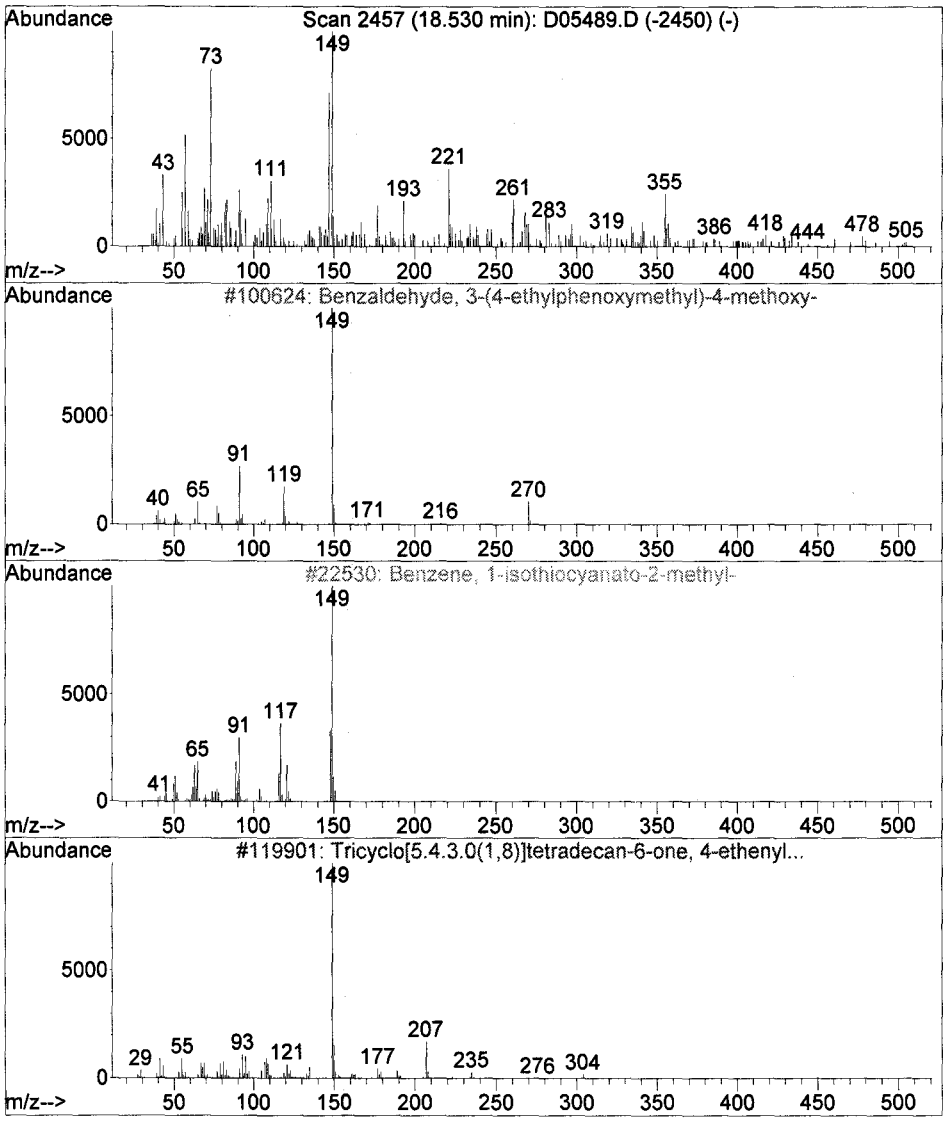
****

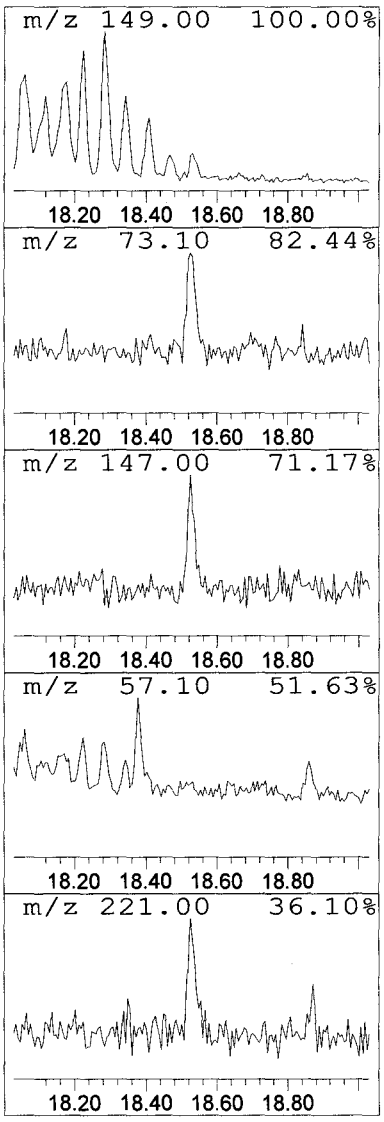
Peak Number 3 Benzaldehyde, 3-(4-ethylphe... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	7.46 ug/L	25507700	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3-(4-ethylphenoxym...	270	C17H18O3	1000273-80-8	30
2	Benzene, 1-isothiocyanato-2-methyl-	149	C8H7NS	000614-69-7	30
3	Tricyclo[5.4.3.0(1,8)]tetradecan...	304	C20H32O2	1000197-61-7	30
4	Pyridine-3-carboxamide, 4-dimeth...	277	C14H13F2N3O	1000266-41-1	30
5	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	27





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05489.D
Acq On : 12/14/11 15:46 Operator: SV
Sample : F4XP2 Inst : D-5973
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
7-Nonenamide	16.56	10.3	ug/L	47671900	5	17.16	92318800	20.0
13-Docosenamide, ...	17.99	8.0	ug/L	37063500	5	17.16	92318800	20.0
Benzaldehyde, 3-(...	18.53	7.5	ug/L	25507700	6	18.99	68398400	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.04

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05490

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	140	U
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	140	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	270	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	270	U
83-32-9	Acenaphthene	140	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.04

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05490

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	270	U
100-02-7	4-Nitrophenol	270	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	270	U
534-52-1	4,6-Dinitro-2-methylphenol	270	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	270	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	140	U
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	U
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.04

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05490

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.62	260	J
02	004128-17-0	2,6,10-Dodecatrien-1-ol, 3,7,	18.15	220	NJ
03		Unknown-02	24.75	210	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 10:12:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	3567044	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	15415287	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	9404367	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	16108137	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	15642494	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	14116593	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	16403342	31.4767 ug/L	0.01
Spiked Amount 40.000	Range 39 - 106		Recovery = 78.69%		
5) Bis(2-chloroethyl)ether-d8	5.12	67	6103103	28.6053 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 71.51%		
7) 2-Chlorophenol-d4	5.26	132	7524549	30.4814 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 76.20%		
12) 4-Methylphenol-d8	6.62	113	6847673	30.4352 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 76.09%		
17) Nitrobenzene-d5	6.85	128	3639021	31.6487 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 79.12%		
20) 2-Nitrophenol-d4	7.58	143	3940077	35.9771 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 89.94%		
24) 2,4-Dichlorophenol-d3	8.15	165	6175603	31.1306 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 77.83%		
27) 4-Chloroaniline-d4	8.67	131	7874548	35.6293 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 89.07%		
41) Acenaphthylene-d8	12.00	160	27776658	31.8538 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 79.63%		
43) Dimethylphthalate-d6	11.95	166	19242215	32.6617 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 81.65%		
49) 4-Nitrophenol-d4	12.75	143	3099682	37.2241 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 93.06%		
56) Fluorene-d10	13.09	176	16790096	29.8378 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 74.59%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1633761	31.8302 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 79.58%		
68) Anthracene-d10	14.39	188	27709706	32.0688 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 80.17%		
79) Pyrene-d10	15.90	212	28902673	32.0458 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 80.11%		
85) Benzo(a)pyrene-d12	18.86	264	20224362	30.7092 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 76.77%		

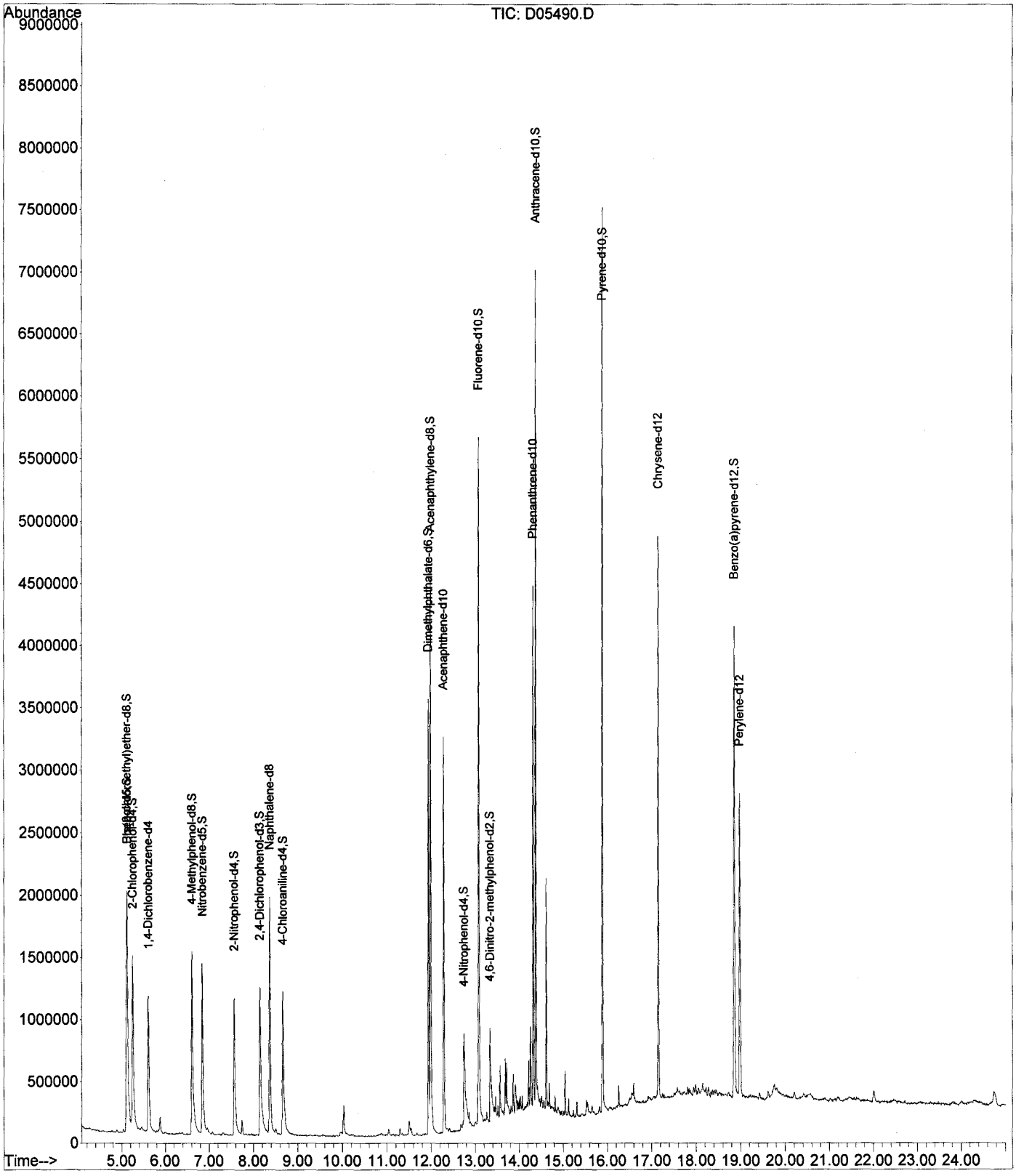
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 10:12:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17
Operator: SV
Sample : F4XP3
Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.126	3	8	11	BV 7	8325	55177	0.07%	0.002%
2	4.155	11	13	16	PV 4	6245	42782	0.05%	0.002%
3	4.185	16	18	25	VV 7	6027	111686	0.13%	0.004%
4	4.261	25	31	42	VV 7	14115	470825	0.56%	0.019%
5	4.338	42	44	46	PV 3	6597	60954	0.07%	0.002%
6	4.361	46	48	52	VV 5	9309	128700	0.15%	0.005%
7	4.408	52	56	59	VV 6	7581	116768	0.14%	0.005%
8	4.438	59	61	68	VV 7	10359	177158	0.21%	0.007%
9	4.485	68	69	72	VV 3	7757	27926	0.03%	0.001%
10	4.526	72	76	79	PV 6	4577	63235	0.08%	0.003%
11	4.590	79	87	91	VV 6	9484	206645	0.25%	0.008%
12	4.638	91	95	98	VV 6	6962	101897	0.12%	0.004%
13	4.690	101	104	115	PV 6	8420	251256	0.30%	0.010%
14	4.767	115	117	119	VV 3	10674	95452	0.11%	0.004%
15	4.790	119	121	131	VV 3	11944	239099	0.28%	0.009%
16	4.896	131	139	146	VV 3	23011	573694	0.68%	0.023%
17	4.949	146	148	150	VV 3	5691	60633	0.07%	0.002%
18	4.985	150	154	159	VV 8	11324	205859	0.24%	0.008%
19	5.043	159	164	169	VV 8	31486	563438	0.67%	0.022%
20	5.126	169	178	194	VV 3	1934447	49021323	58.29%	1.943%
21	5.261	194	201	221	VV	1392817	33690692	40.06%	1.335%
22	5.396	221	224	231	VV 9	46475	1311949	1.56%	0.052%
23	5.467	231	236	242	VV 8	54144	1603398	1.91%	0.064%
24	5.508	242	243	246	VV 3	28671	421834	0.50%	0.017%
25	5.532	246	247	252	VV 5	25091	401220	0.48%	0.016%
26	5.614	252	261	290	VV	1083314	25367060	30.16%	1.005%
27	5.808	290	294	298	VV 6	28352	609848	0.73%	0.024%
28	5.884	298	307	318	VV 5	140398	3551334	4.22%	0.141%
29	5.955	318	319	321	VV 2	8941	73273	0.09%	0.003%
30	6.002	321	327	332	VV 10	17635	484607	0.58%	0.019%
31	6.043	332	334	339	VV 6	10466	198386	0.24%	0.008%
32	6.090	339	342	343	VV 3	6928	78715	0.09%	0.003%
33	6.108	343	345	347	VV 3	7110	63939	0.08%	0.003%
34	6.143	347	351	355	VV 6	7116	148784	0.18%	0.006%
35	6.179	355	357	360	VV 4	7152	70518	0.08%	0.003%
36	6.202	360	361	363	VV 2	6980	51645	0.06%	0.002%
37	6.255	363	370	374	VV 10	11454	220836	0.26%	0.009%
38	6.290	374	376	378	VV 3	10580	112767	0.13%	0.004%
39	6.332	378	383	387	VV 8	16618	367441	0.44%	0.015%
40	6.390	387	393	399	VV 9	18192	477410	0.57%	0.019%
41	6.437	399	401	407	VV 7	6569	113238	0.13%	0.004%
42	6.502	407	412	415	VV 7	12656	165101	0.20%	0.007%
43	6.549	415	420	423	PV 6	7364	131292	0.16%	0.005%
44	6.620	423	432	458	VV	1445925	33793329	40.18%	1.339%

8095

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.779	458	459	462	VV	3	30168	447271	0.53%	0.018%
46	6.808	462	464	465	VV	2	28790	302608	0.36%	0.012%
47	6.849	465	471	487	VV		1373687	27881636	33.15%	1.105%
48	6.967	487	491	505	VV	10	63371	2220641	2.64%	0.088%
49	7.079	505	510	514	VV	8	28329	662309	0.79%	0.026%
50	7.114	514	516	520	VV	5	12532	186809	0.22%	0.007%
51	7.173	520	526	530	VV	9	9574	296629	0.35%	0.012%
52	7.226	530	535	545	VV	9	12803	468146	0.56%	0.019%
53	7.314	545	550	557	VV	10	23659	627642	0.75%	0.025%
54	7.378	557	561	567	VV	9	12308	314436	0.37%	0.012%
55	7.420	567	568	579	VV	9	9715	206015	0.24%	0.008%
56	7.496	579	581	586	VV	6	9475	116774	0.14%	0.005%
57	7.578	586	595	620	PV		1078337	23395652	27.82%	0.927%
58	7.755	620	625	633	VV		124090	2314208	2.75%	0.092%
59	7.843	633	640	643	VV	9	18846	490648	0.58%	0.019%
60	7.867	643	644	646	VV	2	9888	98825	0.12%	0.004%
61	7.896	646	649	657	VV	10	15513	440712	0.52%	0.017%
62	7.967	657	661	663	VV	4	17536	274068	0.33%	0.011%
63	7.990	663	665	670	VV	6	12701	196441	0.23%	0.008%
64	8.031	670	672	674	VV	3	10428	92203	0.11%	0.004%
65	8.073	674	679	682	VV	7	13371	254628	0.30%	0.010%
66	8.102	682	684	686	VV	3	8480	110035	0.13%	0.004%
67	8.155	686	693	724	VV		1196400	31728673	37.73%	1.257%
68	8.373	724	730	749	VV		1858004	35016839	41.64%	1.388%
69	8.514	749	754	761	VV	6	60929	1547140	1.84%	0.061%
70	8.567	761	763	765	VV	3	24101	328686	0.39%	0.013%
71	8.584	765	766	770	VV	4	22374	319542	0.38%	0.013%
72	8.667	770	780	807	VV		1145600	28177488	33.50%	1.117%
73	8.837	807	809	815	VV	7	26742	585429	0.70%	0.023%
74	8.878	815	816	819	VV	3	20165	254911	0.30%	0.010%
75	8.908	819	821	825	VV	5	19317	284819	0.34%	0.011%
76	8.955	825	829	835	VV	9	16117	418735	0.50%	0.017%
77	8.996	835	836	843	VV	6	12012	256446	0.30%	0.010%
78	9.067	843	848	850	VV	6	10529	196299	0.23%	0.008%
79	9.102	850	854	861	VV	10	10001	244875	0.29%	0.010%
80	9.172	861	866	875	VV	10	10552	321884	0.38%	0.013%
81	9.243	875	878	880	VV	4	6756	96529	0.11%	0.004%
82	9.284	880	885	888	VV	7	11430	228508	0.27%	0.009%
83	9.314	888	890	892	VV	3	7177	86275	0.10%	0.003%
84	9.337	892	894	897	VV	4	4806	72754	0.09%	0.003%
85	9.372	897	900	904	VV	5	10422	155780	0.19%	0.006%
86	9.408	904	906	909	VV	4	10483	142079	0.17%	0.006%
87	9.449	909	913	919	VV	8	11120	265156	0.32%	0.011%
88	9.496	919	921	927	VV	7	7815	153921	0.18%	0.006%
89	9.567	927	933	937	VV	8	16983	383131	0.46%	0.015%
90	9.602	937	939	941	VV	3	8836	88547	0.11%	0.004%
91	9.620	941	942	946	VV	4	9346	102275	0.12%	0.004%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.655	946	948	949	VV	2	7018	60496	0.07%	0.002%
93	9.678	949	952	957	VV	7	8291	152246	0.18%	0.006%
94	9.720	957	959	963	VV	5	8197	128134	0.15%	0.005%
95	9.755	963	965	968	VV	4	5302	45109	0.05%	0.002%
96	9.796	968	972	979	VV	10	13017	219772	0.26%	0.009%
97	9.855	979	982	983	PV	3	8368	58314	0.07%	0.002%
98	9.884	983	987	991	VV	7	11997	236327	0.28%	0.009%
99	9.972	991	1002	1007	VV	7	37141	1174732	1.40%	0.047%
100	10.031	1007	1012	1021	VV		246431	4929086	5.86%	0.195%
101	10.108	1021	1025	1027	VV	5	29068	573708	0.68%	0.023%
102	10.131	1027	1029	1038	VV	9	17011	468796	0.56%	0.019%
103	10.202	1038	1041	1046	VV	7	14685	333082	0.40%	0.013%
104	10.249	1046	1049	1057	VV	10	15474	382832	0.46%	0.015%
105	10.308	1057	1059	1062	VV	4	8773	121179	0.14%	0.005%
106	10.355	1062	1067	1071	VV	7	9109	185301	0.22%	0.007%
107	10.396	1071	1074	1076	VV	3	7554	89930	0.11%	0.004%
108	10.419	1076	1078	1092	VV	3	7775	293763	0.35%	0.012%
109	10.514	1092	1094	1104	VV	10	5767	157606	0.19%	0.006%
110	10.596	1104	1108	1113	VV	8	8988	149864	0.18%	0.006%
111	10.649	1113	1117	1123	PV	8	9711	127606	0.15%	0.005%
112	10.696	1123	1125	1129	VV	4	8498	103441	0.12%	0.004%
113	10.731	1129	1131	1133	VV	3	6807	58811	0.07%	0.002%
114	10.802	1133	1143	1144	VV	10	12183	263987	0.31%	0.010%
115	10.825	1144	1147	1148	VV	3	17268	203863	0.24%	0.008%
116	10.843	1148	1150	1153	VV	4	17328	264862	0.31%	0.010%
117	10.872	1153	1155	1163	VV	9	23933	608309	0.72%	0.024%
118	10.931	1163	1165	1168	VV	3	13504	206863	0.25%	0.008%
119	10.955	1168	1169	1171	VV	2	10300	87996	0.10%	0.003%
120	10.990	1171	1175	1179	VV	7	16399	329380	0.39%	0.013%
121	11.049	1179	1185	1194	VV	3	57853	1269248	1.51%	0.050%
122	11.119	1194	1197	1200	VV	5	13507	213156	0.25%	0.008%
123	11.155	1200	1203	1207	VV	6	15487	260886	0.31%	0.010%
124	11.208	1207	1212	1214	VV	5	18698	247514	0.29%	0.010%
125	11.237	1214	1217	1221	VV	6	11725	229171	0.27%	0.009%
126	11.302	1221	1228	1233	VV	2	62450	1124827	1.34%	0.045%
127	11.355	1233	1237	1246	VV	2	25669	604327	0.72%	0.024%
128	11.514	1246	1264	1269	VV		120166	2957417	3.52%	0.117%
129	11.555	1269	1271	1279	VV	6	63623	1208008	1.44%	0.048%
130	11.608	1279	1280	1282	VV	2	6012	49501	0.06%	0.002%
131	11.684	1282	1293	1303	VV	2	22424	680544	0.81%	0.027%
132	11.755	1303	1305	1312	VV	8	6254	128844	0.15%	0.005%
133	11.825	1312	1317	1318	PV	5	17060	215021	0.26%	0.009%
134	11.837	1318	1319	1321	VV	2	14626	129026	0.15%	0.005%
135	11.878	1321	1326	1331	VV	8	18837	396489	0.47%	0.016%
136	11.949	1331	1338	1342	VV		3377447	41728397	49.62%	1.654%
137	11.996	1342	1346	1377	VV		4318453	63805100	75.87%	2.528%
138	12.190	1377	1379	1385	VV	6	22496	594906	0.71%	0.024%
139	12.237	1385	1387	1391	VV	5	28594	492926	0.59%	0.020%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.296	1391	1397	1408	VV		3115878	41474426	49.32%	1.644%
141	12.378	1408	1411	1415	VV	6	57479	1387047	1.65%	0.055%
142	12.425	1415	1419	1423	VV	7	57370	1246157	1.48%	0.049%
143	12.461	1423	1425	1427	VV	3	35130	432718	0.51%	0.017%
144	12.508	1427	1433	1436	VV	7	35065	1021386	1.21%	0.040%
145	12.543	1436	1439	1442	VV	5	37231	676945	0.80%	0.027%
146	12.584	1442	1446	1448	VV	5	36556	659593	0.78%	0.026%
147	12.631	1448	1454	1457	VV	8	39696	1080087	1.28%	0.043%
148	12.684	1457	1463	1467	VV	3	84846	2111222	2.51%	0.084%
149	12.755	1467	1475	1491	VV	2	799619	26305276	31.28%	1.042%
150	12.860	1491	1493	1497	VV	2	174516	2846933	3.39%	0.113%
151	12.902	1497	1500	1505	VV	7	102891	2777701	3.30%	0.110%
152	12.943	1505	1507	1509	VV	3	75264	1050746	1.25%	0.042%
153	12.966	1509	1511	1513	VV	3	77524	958311	1.14%	0.038%
154	13.013	1513	1519	1522	VV	6	105096	3045748	3.62%	0.121%
155	13.090	1522	1532	1549	VV		5534504	80324531	95.51%	3.183%
156	13.208	1549	1552	1555	VV	5	125869	2234786	2.66%	0.089%
157	13.266	1555	1562	1570	VV	7	177285	6821064	8.11%	0.270%
158	13.343	1570	1575	1589	VV	2	848566	24420684	29.04%	0.968%
159	13.437	1589	1591	1593	VV		223630	3081365	3.66%	0.122%
160	13.472	1593	1597	1601	VV		297027	5492276	6.53%	0.218%
161	13.519	1601	1605	1608	VV	2	230682	4601771	5.47%	0.182%
162	13.566	1608	1613	1622	VV		522698	12280156	14.60%	0.487%
163	13.631	1622	1624	1628	VV	5	187789	3175281	3.78%	0.126%
164	13.690	1628	1634	1636	VV		567633	9066099	10.78%	0.359%
165	13.719	1636	1639	1652	VV		553118	14837593	17.64%	0.588%
166	13.819	1652	1656	1659	VV	6	223514	4871709	5.79%	0.193%
167	13.866	1659	1664	1669	VV		481735	9994249	11.88%	0.396%
168	13.925	1669	1674	1680	VV	3	400325	10574695	12.57%	0.419%
169	13.972	1680	1682	1685	VV	4	267001	4484139	5.33%	0.178%
170	14.002	1685	1687	1690	VV	2	266291	3733396	4.44%	0.148%
171	14.031	1690	1692	1696	VV	2	303751	5618839	6.68%	0.223%
172	14.078	1696	1700	1702	VV	2	300358	5266773	6.26%	0.209%
173	14.102	1702	1704	1707	VV	4	195754	2976462	3.54%	0.118%
174	14.137	1707	1710	1712	VV	4	222659	4198268	4.99%	0.166%
175	14.190	1712	1719	1721	VV	8	255099	6942007	8.25%	0.275%
176	14.219	1721	1724	1727	VV		558819	7905247	9.40%	0.313%
177	14.266	1727	1732	1738	VV		843846	15907457	18.91%	0.630%
178	14.325	1738	1742	1748	VV		4044914	48379428	57.53%	1.917%
179	14.384	1748	1752	1757	VV		6444375	73255753	87.10%	2.903%
180	14.425	1757	1759	1765	VV		387509	8212426	9.77%	0.325%
181	14.466	1765	1766	1770	VV	4	279373	4437196	5.28%	0.176%
182	14.502	1770	1772	1774	VV	2	280352	3759371	4.47%	0.149%
183	14.525	1774	1776	1778	VV		295359	4080944	4.85%	0.162%
184	14.566	1778	1783	1788	VV	5	262724	7354039	8.74%	0.291%
185	14.625	1788	1793	1797	VV		1878411	22643780	26.92%	0.897%
186	14.660	1797	1799	1802	VV	4	247721	4141900	4.92%	0.164%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.696	1802	1805	1809	VV		397895	6953862	8.27%	0.276%
188	14.749	1809	1814	1817	VV	7	213315	6042976	7.19%	0.239%
189	14.778	1817	1819	1823	VV	5	203172	4045129	4.81%	0.160%
190	14.819	1823	1826	1833	VV	2	290139	6594756	7.84%	0.261%
191	14.890	1833	1838	1842	VV	5	210880	5778098	6.87%	0.229%
192	14.919	1842	1843	1845	VV	2	177539	2287956	2.72%	0.091%
193	14.949	1845	1848	1850	VV	3	170821	2436611	2.90%	0.097%
194	14.972	1850	1852	1856	VV		176686	3362546	4.00%	0.133%
195	15.019	1856	1860	1862	VV	4	170725	3094046	3.68%	0.123%
196	15.049	1862	1865	1872	VV		492603	8514356	10.12%	0.337%
197	15.125	1872	1878	1882	VV		260733	6236825	7.42%	0.247%
198	15.160	1882	1884	1888	VV	5	140925	2733975	3.25%	0.108%
199	15.207	1888	1892	1894	VV	5	136793	2505654	2.98%	0.099%
200	15.231	1894	1896	1901	VV	4	177194	3894807	4.63%	0.154%
201	15.313	1901	1910	1924	VV	2	240318	11205611	13.32%	0.444%
202	15.425	1924	1929	1937	VV	2	147459	6625893	7.88%	0.263%
203	15.484	1937	1939	1942	VV	4	136746	2330351	2.77%	0.092%
204	15.531	1942	1947	1949	VV		250437	4536272	5.39%	0.180%
205	15.554	1949	1951	1955	VV	5	238910	4895302	5.82%	0.194%
206	15.590	1955	1957	1963	VV	7	163301	4101252	4.88%	0.163%
207	15.660	1963	1969	1973	VV	3	210996	6544775	7.78%	0.259%
208	15.696	1973	1975	1981	VV	7	164866	4413238	5.25%	0.175%
209	15.743	1981	1983	1984	VV	2	145729	1585751	1.89%	0.063%
210	15.772	1984	1988	1990	VV	4	154662	3089480	3.67%	0.122%
211	15.813	1990	1995	1996	VV	5	180869	3257045	3.87%	0.129%
212	15.831	1996	1998	2003	VV	2	205196	4184429	4.98%	0.166%
213	15.896	2003	2009	2020	VV		7166051	84100625	100.00%	3.333%
214	15.966	2020	2021	2030	VV	9	203949	6952474	8.27%	0.276%
215	16.054	2030	2036	2038	VV	7	198777	5365189	6.38%	0.213%
216	16.078	2038	2040	2046	VV	7	196940	4865343	5.79%	0.193%
217	16.154	2046	2053	2056	VV	9	193821	6659369	7.92%	0.264%
218	16.213	2056	2063	2065	VV	7	202596	5730244	6.81%	0.227%
219	16.237	2065	2067	2069	VV	3	209018	2883030	3.43%	0.114%
220	16.266	2069	2072	2076	VV		361736	6472091	7.70%	0.256%
221	16.307	2076	2079	2081	VV	4	210762	3740708	4.45%	0.148%
222	16.331	2081	2083	2085	VV	3	208889	2850846	3.39%	0.113%
223	16.349	2085	2086	2088	VV	2	207442	2175566	2.59%	0.086%
224	16.384	2088	2092	2096	VV	7	214302	6003541	7.14%	0.238%
225	16.419	2096	2098	2103	VV	6	218181	5173069	6.15%	0.205%
226	16.501	2103	2112	2116	VV	10	257152	11181718	13.30%	0.443%
227	16.560	2116	2122	2124	VV	7	306944	7695836	9.15%	0.305%
228	16.584	2124	2126	2127	VV		301059	3209242	3.82%	0.127%
229	16.607	2127	2130	2132	VV	3	379292	5550516	6.60%	0.220%
230	16.625	2132	2133	2139	VV	6	273287	5579196	6.63%	0.221%
231	16.678	2139	2142	2147	VV	7	244235	7071568	8.41%	0.280%
232	16.737	2147	2152	2160	VV	7	240926	10099060	12.01%	0.400%
233	16.813	2160	2165	2170	VV	9	244612	8240407	9.80%	0.327%
234	16.907	2170	2181	2182	VV	9	247167	10561232	12.56%	0.419%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.931	2182	2185	2188	VV	5	281439	5082928	6.04%	0.201%
236	16.966	2188	2191	2194	VV	5	269184	5381401	6.40%	0.213%
237	16.990	2194	2195	2200	VV	4	257108	5492326	6.53%	0.218%
238	17.066	2200	2208	2210	VV	9	276986	9851430	11.71%	0.390%
239	17.090	2210	2212	2214	VV	3	273635	3978816	4.73%	0.158%
240	17.160	2214	2224	2236	VV		4576496	66011197	78.49%	2.616%
241	17.254	2236	2240	2242	VV	5	294489	6094726	7.25%	0.242%
242	17.284	2242	2245	2248	VV	5	292915	5483210	6.52%	0.217%
243	17.319	2248	2251	2256	VV	7	270453	7595910	9.03%	0.301%
244	17.366	2256	2259	2261	VV	4	270119	4492201	5.34%	0.178%
245	17.401	2261	2265	2266	VV	4	270661	5178735	6.16%	0.205%
246	17.425	2266	2269	2270	VV	3	268617	3796403	4.51%	0.150%
247	17.460	2270	2275	2280	VV	9	275143	9066130	10.78%	0.359%
248	17.513	2280	2284	2288	VV	7	301172	7887898	9.38%	0.313%
249	17.554	2288	2291	2292	VV	3	303864	3868574	4.60%	0.153%
250	17.590	2292	2297	2303	VV	8	344265	12897921	15.34%	0.511%
251	17.637	2303	2305	2308	VV	4	318027	5329053	6.34%	0.211%
252	17.672	2308	2311	2314	VV	5	298239	6575930	7.82%	0.261%
253	17.737	2314	2322	2331	VV	5	308434	17681296	21.02%	0.701%
254	17.813	2331	2335	2339	VV	2	341975	7923968	9.42%	0.314%
255	17.848	2339	2341	2344	VV	4	334308	5805217	6.90%	0.230%
256	17.872	2344	2345	2347	VV	2	314365	3381753	4.02%	0.134%
257	17.895	2347	2349	2353	VV	5	297222	6418485	7.63%	0.254%
258	17.954	2353	2359	2362	VV	7	339981	9993016	11.88%	0.396%
259	17.995	2362	2366	2370	VV	4	363399	9050776	10.76%	0.359%
260	18.031	2370	2372	2373	VV	2	299049	2921747	3.47%	0.116%
261	18.060	2373	2377	2383	VV	5	334336	10372242	12.33%	0.411%
262	18.148	2383	2392	2402	VV	5	368964	22242793	26.45%	0.881%
263	18.225	2402	2405	2410	VV	4	336476	8583651	10.21%	0.340%
264	18.284	2410	2415	2421	VV	5	335026	11261889	13.39%	0.446%
265	18.342	2421	2425	2428	VV	5	307613	6888797	8.19%	0.273%
266	18.378	2428	2431	2434	VV	4	315683	6844095	8.14%	0.271%
267	18.419	2434	2438	2440	VV	5	317414	6466359	7.69%	0.256%
268	18.454	2440	2444	2451	VV	10	319157	10803320	12.85%	0.428%
269	18.519	2451	2455	2462	VV	10	297617	11652765	13.86%	0.462%
270	18.572	2462	2464	2473	VV	10	288769	10306679	12.26%	0.408%
271	18.660	2473	2479	2486	VV	10	282418	13153865	15.64%	0.521%
272	18.725	2486	2490	2491	VV	4	288280	4345803	5.17%	0.172%
273	18.742	2491	2493	2505	VV	4	294511	13042161	15.51%	0.517%
274	18.860	2505	2513	2528	VV		3946592	82193539	97.73%	3.257%
275	18.990	2528	2535	2546	VV		2631586	54874524	65.25%	2.175%
276	19.072	2546	2549	2556	VV	9	270240	9081994	10.80%	0.360%
277	19.125	2556	2558	2559	VV	2	259450	3235724	3.85%	0.128%
278	19.142	2559	2561	2565	VV	5	258444	5162542	6.14%	0.205%
279	19.184	2565	2568	2570	VV	4	257446	4180569	4.97%	0.166%
280	19.219	2570	2574	2579	VV	8	268895	8566428	10.19%	0.339%
281	19.266	2579	2582	2584	VV	4	266234	4315731	5.13%	0.171%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.289	2584	2586	2590	VV	5	261530	5241488	6.23%	0.208%
283	19.325	2590	2592	2596	VV	5	259030	5520838	6.56%	0.219%
284	19.360	2596	2598	2602	VV	5	256422	5047283	6.00%	0.200%
285	19.425	2602	2609	2615	VV	9	282470	11633443	13.83%	0.461%
286	19.466	2615	2616	2620	VV	4	246311	4504251	5.36%	0.178%
287	19.501	2620	2622	2625	VV	4	242748	4236010	5.04%	0.168%
288	19.531	2625	2627	2630	VV	4	236792	3648483	4.34%	0.145%
289	19.589	2630	2637	2639	VV	8	249113	7645977	9.09%	0.303%
290	19.625	2639	2643	2649	VV	8	295000	10015653	11.91%	0.397%
291	19.695	2649	2655	2656	VV	6	268714	6320772	7.52%	0.250%
292	19.719	2656	2659	2660	VV	3	295059	3368955	4.01%	0.134%
293	19.760	2660	2666	2674	VV	3	349813	15990580	19.01%	0.634%
294	19.819	2674	2676	2684	VV	9	320883	10872030	12.93%	0.431%
295	19.878	2684	2686	2690	VV	5	289516	5779165	6.87%	0.229%
296	19.913	2690	2692	2696	VV	5	276933	5306766	6.31%	0.210%
297	19.954	2696	2699	2704	VV	7	271226	8012018	9.53%	0.317%
298	19.995	2704	2706	2707	VV	2	252242	2505611	2.98%	0.099%
299	20.031	2707	2712	2716	VV	8	262299	7735501	9.20%	0.307%
300	20.060	2716	2717	2725	VV	8	251646	7411665	8.81%	0.294%
301	20.113	2725	2726	2729	VV	3	240243	3414966	4.06%	0.135%
302	20.136	2729	2730	2732	VV	2	244061	2966221	3.53%	0.118%
303	20.160	2732	2734	2736	VV	3	238829	3012298	3.58%	0.119%
304	20.213	2736	2743	2749	VV	3	282159	11626145	13.82%	0.461%
305	20.260	2749	2751	2753	VV	3	238333	3411930	4.06%	0.135%
306	20.284	2753	2755	2757	VV	3	231064	3170455	3.77%	0.126%
307	20.325	2757	2762	2764	VV	6	242150	6191723	7.36%	0.245%
308	20.348	2764	2766	2769	VV	4	241585	4226811	5.03%	0.167%
309	20.384	2769	2772	2773	VV	3	247932	3468049	4.12%	0.137%
310	20.425	2773	2779	2786	VV	3	271879	11367376	13.52%	0.450%
311	20.478	2786	2788	2789	VV	2	257433	2944405	3.50%	0.117%
312	20.519	2789	2795	2797	VV	7	260691	6521603	7.75%	0.258%
313	20.542	2797	2799	2800	VV	2	261254	2772743	3.30%	0.110%
314	20.560	2800	2802	2811	VV	10	263287	10151835	12.07%	0.402%
315	20.619	2811	2812	2819	VV	7	242246	6357032	7.56%	0.252%
316	20.666	2819	2820	2829	VV	9	224178	7865264	9.35%	0.312%
317	20.731	2829	2831	2835	VV	5	222689	4778953	5.68%	0.189%
318	20.784	2835	2840	2850	VV	5	218214	11278615	13.41%	0.447%
319	20.854	2850	2852	2855	VV	4	225058	3819020	4.54%	0.151%
320	20.901	2855	2860	2873	VV	4	230609	14125218	16.80%	0.560%
321	20.989	2873	2875	2877	VV	3	207002	2369940	2.82%	0.094%
322	21.019	2877	2880	2883	VV	5	226779	5230038	6.22%	0.207%
323	21.048	2883	2885	2890	VV	6	217870	5052507	6.01%	0.200%
324	21.095	2890	2893	2894	VV	3	216039	2919875	3.47%	0.116%
325	21.125	2894	2898	2904	VV	9	227468	7803522	9.28%	0.309%
326	21.189	2904	2909	2913	VV	8	238802	6500047	7.73%	0.258%
327	21.219	2913	2914	2919	VV	5	233043	4854515	5.77%	0.192%
328	21.254	2919	2920	2922	VV	2	207071	2685448	3.19%	0.106%
329	21.283	2922	2925	2930	VV	7	206911	5477087	6.51%	0.217%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.325	2930	2932	2934	VV	3	211301	2883727	3.43%	0.114%
331	21.348	2934	2936	2937	VV	2	210939	2490038	2.96%	0.099%
332	21.378	2937	2941	2943	VV	5	219561	3909068	4.65%	0.155%
333	21.401	2943	2945	2946	VV	2	217978	2865033	3.41%	0.114%
334	21.448	2946	2953	2956	VV	9	235809	7520115	8.94%	0.298%
335	21.483	2956	2959	2965	VV	8	232287	7471460	8.88%	0.296%
336	21.554	2965	2971	2975	VV	9	220813	7683123	9.14%	0.304%
337	21.619	2975	2982	3001	VV	9	228992	19273606	22.92%	0.764%
338	21.742	3001	3003	3004	VV	2	205523	2046310	2.43%	0.081%
339	21.760	3004	3006	3008	VV	3	206570	2934336	3.49%	0.116%
340	21.783	3008	3010	3012	VV	3	208037	2479844	2.95%	0.098%
341	21.807	3012	3014	3018	VV	5	207912	4638139	5.51%	0.184%
342	21.860	3018	3023	3025	VV	6	208623	4808138	5.72%	0.191%
343	21.883	3025	3027	3028	VV	2	200343	2087845	2.48%	0.083%
344	21.901	3028	3030	3032	VV	3	197676	2537554	3.02%	0.101%
345	21.948	3032	3038	3040	VV	7	195584	5655037	6.72%	0.224%
346	22.019	3040	3050	3059	VV	7	279026	14736414	17.52%	0.584%
347	22.078	3059	3060	3062	VV	2	190982	2095404	2.49%	0.083%
348	22.095	3062	3063	3065	VV	2	194216	1944560	2.31%	0.077%
349	22.119	3065	3067	3071	VV	5	196282	3919125	4.66%	0.155%
350	22.201	3071	3081	3083	VV	5	194608	8430404	10.02%	0.334%
351	22.225	3083	3085	3087	VV	3	190822	2536374	3.02%	0.101%
352	22.254	3087	3090	3092	VV	4	195266	3122113	3.71%	0.124%
353	22.283	3092	3095	3099	VV	6	191938	4874670	5.80%	0.193%
354	22.313	3099	3100	3105	VV	5	186941	3688101	4.39%	0.146%
355	22.425	3105	3119	3121	VV	5	197358	10249323	12.19%	0.406%
356	22.442	3121	3122	3124	VV	2	195029	2166544	2.58%	0.086%
357	22.466	3124	3126	3129	VV	4	206793	3923717	4.67%	0.155%
358	22.489	3129	3130	3132	VV	2	197469	2067172	2.46%	0.082%
359	22.513	3132	3134	3138	VV	5	195904	4045737	4.81%	0.160%
360	22.560	3138	3142	3143	VV	4	191735	3201184	3.81%	0.127%
361	22.578	3143	3145	3147	VV	3	188782	2176543	2.59%	0.086%
362	22.595	3147	3148	3151	VV	3	188050	2891968	3.44%	0.115%
363	22.625	3151	3153	3156	VV	4	186446	2980795	3.54%	0.118%
364	22.654	3156	3158	3161	VV	4	177956	3011886	3.58%	0.119%
365	22.713	3161	3168	3170	VV	8	189954	6009188	7.15%	0.238%
366	22.736	3170	3172	3178	VV	7	173401	4488548	5.34%	0.178%
367	22.783	3178	3180	3183	VV	4	174802	3011655	3.58%	0.119%
368	22.813	3183	3185	3187	VV	3	167949	2399462	2.85%	0.095%
369	22.836	3187	3189	3191	VV	3	167663	1927110	2.29%	0.076%
370	22.913	3191	3202	3203	VV	3	175351	7482724	8.90%	0.297%
371	22.930	3203	3205	3212	VV	8	174263	5230149	6.22%	0.207%
372	23.001	3212	3217	3218	VV	5	171653	3832355	4.56%	0.152%
373	23.019	3218	3220	3223	VV	4	174618	3151062	3.75%	0.125%
374	23.077	3223	3230	3232	VV	8	181682	5274534	6.27%	0.209%
375	23.101	3232	3234	3239	VV	6	174312	4321278	5.14%	0.171%
376	23.142	3239	3241	3243	VV	3	175525	2473693	2.94%	0.098%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.166	3243	3245	3249	VV	5	171796	3229063	3.84%	0.128%
378	23.207	3249	3252	3257	VV	7	172386	4773122	5.68%	0.189%
379	23.248	3257	3259	3260	VV	2	163054	2137996	2.54%	0.085%
380	23.266	3260	3262	3264	VV	3	172415	1932105	2.30%	0.077%
381	23.301	3264	3268	3274	VV	9	179488	5822757	6.92%	0.231%
382	23.348	3274	3276	3279	VV	4	171427	3344598	3.98%	0.133%
383	23.383	3279	3282	3284	VV	4	169015	2668200	3.17%	0.106%
384	23.407	3284	3286	3293	VV	8	171543	5223850	6.21%	0.207%
385	23.477	3293	3298	3300	VV	6	175141	4102148	4.88%	0.163%
386	23.507	3300	3303	3309	VV	8	165368	4915444	5.84%	0.195%
387	23.560	3309	3312	3316	VV	6	164233	4127780	4.91%	0.164%
388	23.601	3316	3319	3323	VV	6	162375	3452292	4.10%	0.137%
389	23.636	3323	3325	3329	VV	5	158590	3182856	3.78%	0.126%
390	23.672	3329	3331	3333	VV	3	156933	2283407	2.72%	0.090%
391	23.695	3333	3335	3340	VV	6	152278	3859554	4.59%	0.153%
392	23.742	3340	3343	3345	VV	3	158384	2498049	2.97%	0.099%
393	23.783	3345	3350	3351	VV	5	166420	3617549	4.30%	0.143%
394	23.801	3351	3353	3354	VV	2	171855	1896583	2.26%	0.075%
395	23.819	3354	3356	3360	VV	5	174999	3432193	4.08%	0.136%
396	23.854	3360	3362	3373	VV	5	170991	7265140	8.64%	0.288%
397	23.924	3373	3374	3377	VV	3	154383	1853358	2.20%	0.073%
398	23.989	3377	3385	3387	VV	9	170038	5446341	6.48%	0.216%
399	24.013	3387	3389	3395	VV	7	176181	4904031	5.83%	0.194%
400	24.066	3395	3398	3400	VV	4	163993	2840807	3.38%	0.113%
401	24.095	3400	3403	3405	VV	4	159747	2804246	3.33%	0.111%
402	24.113	3405	3406	3409	VV	3	160434	1897914	2.26%	0.075%
403	24.142	3409	3411	3413	VV	3	165938	2611459	3.11%	0.103%
404	24.166	3413	3415	3417	VV	3	167973	1970785	2.34%	0.078%
405	24.195	3417	3420	3432	VV	3	169120	9279077	11.03%	0.368%
406	24.295	3432	3437	3443	VV	10	181001	6547705	7.79%	0.259%
407	24.348	3443	3446	3455	VV	10	176848	7193607	8.55%	0.285%
408	24.424	3455	3459	3461	VV	5	170537	3749761	4.46%	0.149%
409	24.454	3461	3464	3468	VV	6	164842	3434673	4.08%	0.136%
410	24.483	3468	3469	3472	VV	3	155372	2579916	3.07%	0.102%
411	24.519	3472	3475	3478	VV	5	153001	2726497	3.24%	0.108%
412	24.548	3478	3480	3482	VV	3	149331	2376561	2.83%	0.094%
413	24.577	3482	3485	3493	VV	10	148393	5319873	6.33%	0.211%
414	24.648	3493	3497	3499	VV	5	150582	2997396	3.56%	0.119%
415	24.754	3499	3515	3532	VV	5	246685	21214194	25.22%	0.841%
416	24.866	3532	3534	3538	VV	5	138114	2980938	3.54%	0.118%
417	24.901	3538	3540	3542	VV	3	140865	2011040	2.39%	0.080%
418	24.924	3542	3544	3548	VV	5	142583	2857939	3.40%	0.113%
419	24.960	3548	3550	3552	VBA	3	143260	2337244	2.78%	0.093%

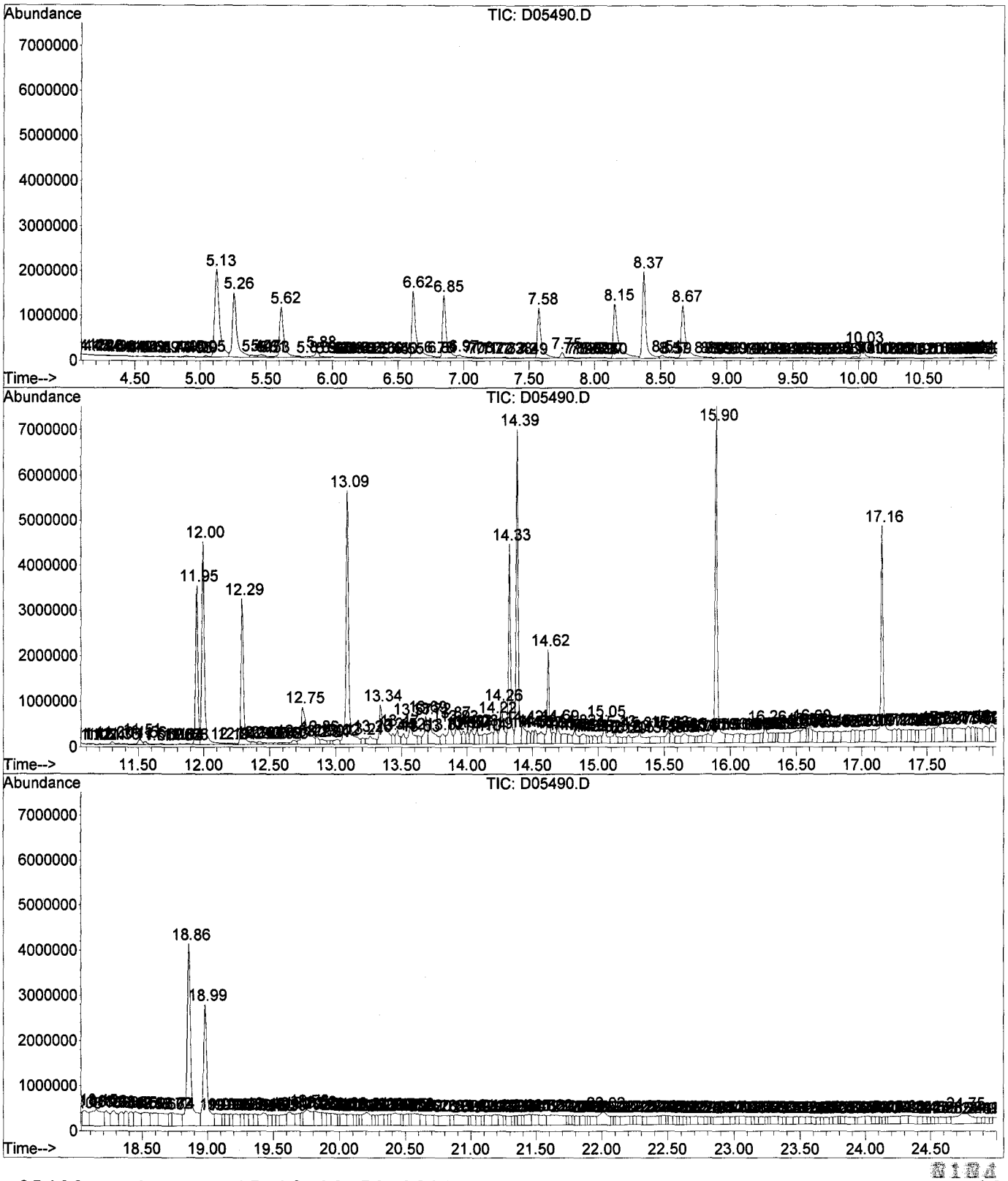
Sum of corrected areas: 2523472593

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17
Sample : F4XP3
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

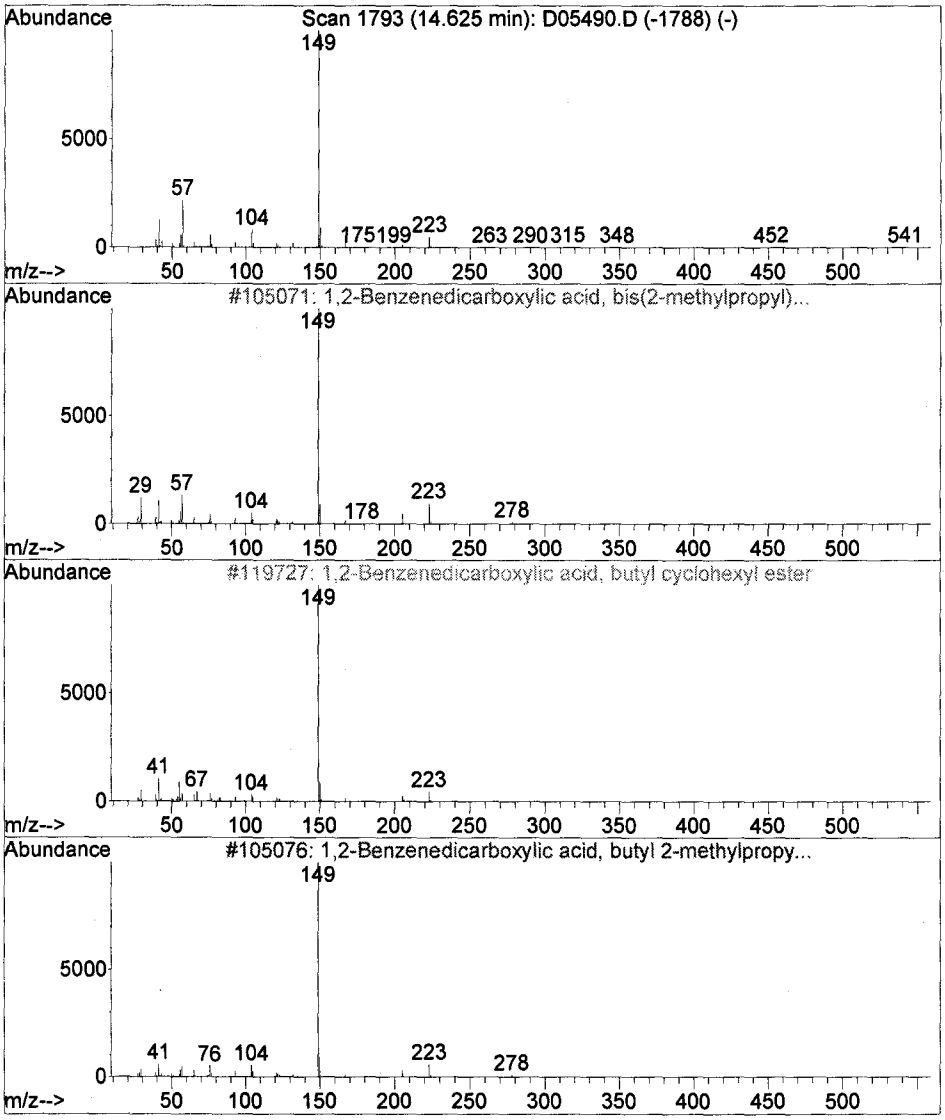
****

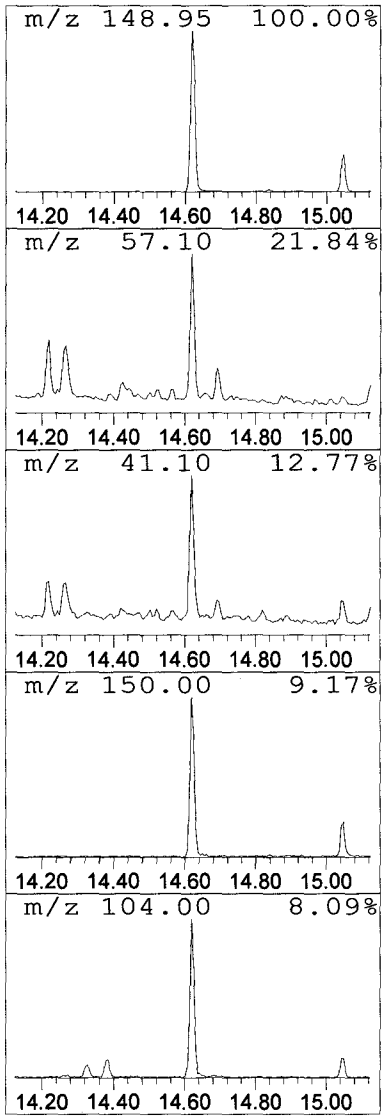
Peak Number 1 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	9.36 ug/L	22643800	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
2	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
3	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	72
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	72





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

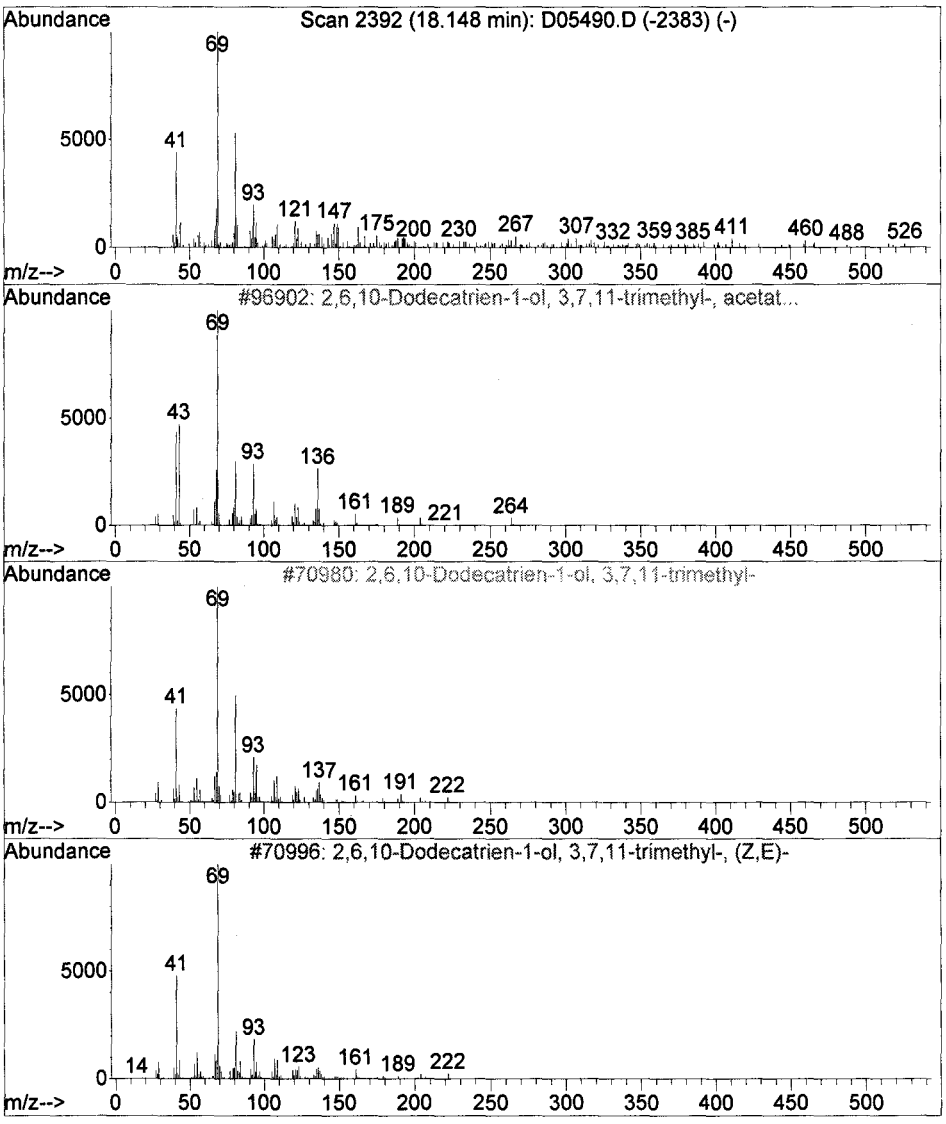
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

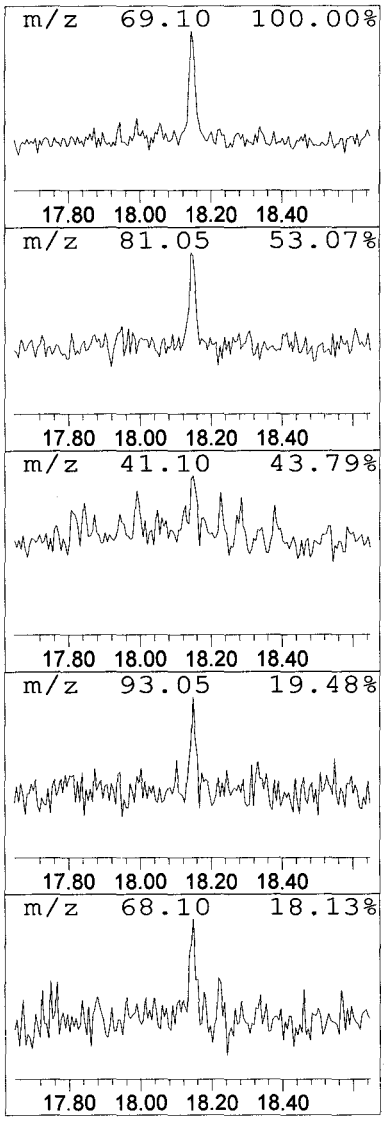
****

Peak Number 2 2,6,10-Dodecatrien-1-ol, 3,... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	8.11 ug/L	22242800	Perylene-d12	18.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10-Dodecatrien-1-ol, 3,7,11-...	264	C17H28O2	004128-17-0	89
2	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	89
3	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	003790-71-4	76
4	1-(3,5-Dinitrophenoxy)-3,7,11-tr...	388	C21H28N2O5	1000187-44-2	68
5	4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	64





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

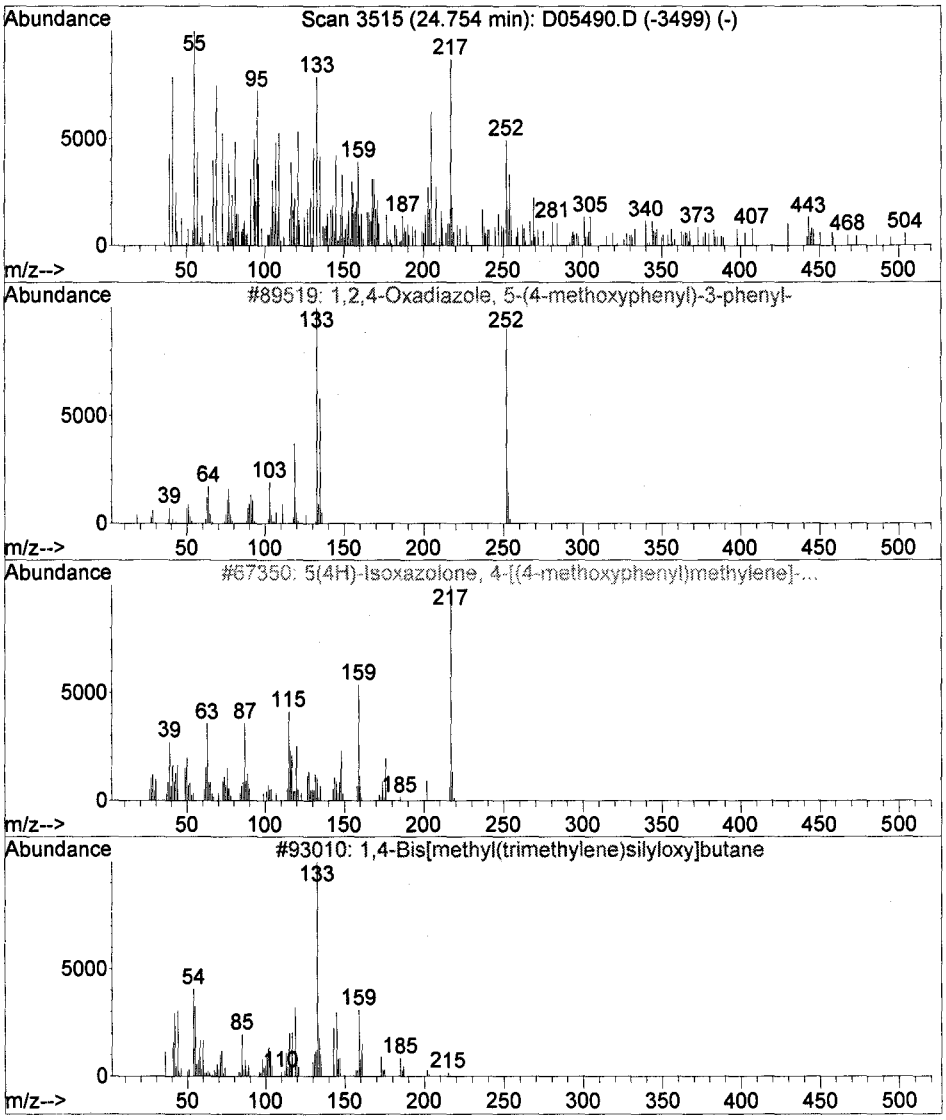
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

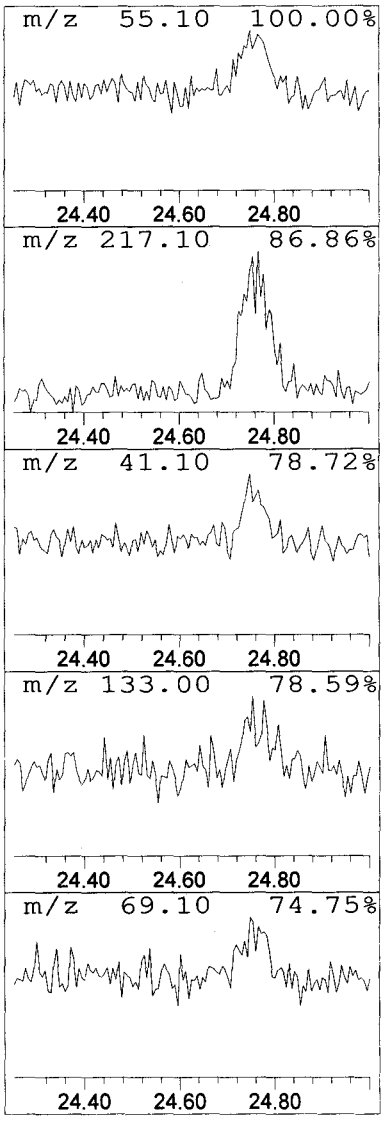
****

Peak Number 3 1,2,4-Oxadiazole, 5-(4-meth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.75	7.73 ug/L	21214200	Perylene-d12	18.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4-Oxadiazole, 5-(4-methoxyph...	252	C15H12N2O2	036364-17-7	30
2	5(4H)-Isoxazolone, 4-[(4-methoxy...	217	C12H11NO3	017975-46-1	25
3	1,4-Bis[methyl(trimethylene)sily...	258	C12H26O2Si2	1000217-00-3	22
4	Carbamic acid, N-(4-tolyl)-, 2-(...	259	C14H17N3O2	324021-96-7	15
5	1-Aminopyrene	217	C16H11N	001606-67-3	11





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05490.D
Acq On : 12/14/11 16:17 Operator: SV
Sample : F4XP3 Inst : D-5973
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,2-Benzenedicarb...	14.62	9.4	ug/L	22643800	4	14.33	48379400	20.0
2,6,10-Dodecatrie...	18.15	8.1	ug/L	22242800	6	18.99	54874500	20.0
1,2,4-Oxadiazole,...	24.75	7.7	ug/L	21214200	6	18.99	54874500	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.05

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05491

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	260	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	260	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.05

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05491

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	260	U
100-02-7	4-Nitrophenol	260	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	260	U
534-52-1	4,6-Dinitro-2-methylphenol	260	U
86-30-6	N-Nitrosodiphenylamine 1	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	260	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	130	U
206-44-0	Fluoranthene	130	U
129-00-0	Pyrene	130	U
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	U
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.05

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05491

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.62	250	J
02		Unknown-02	20.03	220	J
03		Unknown-03	24.77	320	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 10:12:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2963256	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13298301	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8162181	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	14264757	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	13965518	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	13212504	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	14040116	32.4315 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 81.08%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5221228	29.4583 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 73.65%		
7) 2-Chlorophenol-d4	5.26	132	6570122	32.0381 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 80.10%		
12) 4-Methylphenol-d8	6.62	113	5908339	31.6109 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 79.03%		
17) Nitrobenzene-d5	6.85	128	3221577	32.4785 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 81.20%		
20) 2-Nitrophenol-d4	7.58	143	3343391	35.3886 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 88.47%		
24) 2,4-Dichlorophenol-d3	8.15	165	5316973	31.0690 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 77.67%		
27) 4-Chloroaniline-d4	8.67	131	7154045	37.5222 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 93.81%		
41) Acenaphthylene-d8	12.00	160	23907436	31.5891 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 78.97%		
43) Dimethylphthalate-d6	11.95	166	16831056	32.9169 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 82.29%		
49) 4-Nitrophenol-d4	12.75	143	2788685	38.5860 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 96.47%		
56) Fluorene-d10	13.09	176	14438172	29.5630 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 73.91%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1267965	27.8958 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 69.74%		
68) Anthracene-d10	14.39	188	24304937	31.7633 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 79.41%		
79) Pyrene-d10	15.90	212	25676824	31.8877 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 79.72%		
85) Benzo(a)pyrene-d12	18.86	264	18941212	30.7288 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 76.82%		

Target Compounds	Qvalue

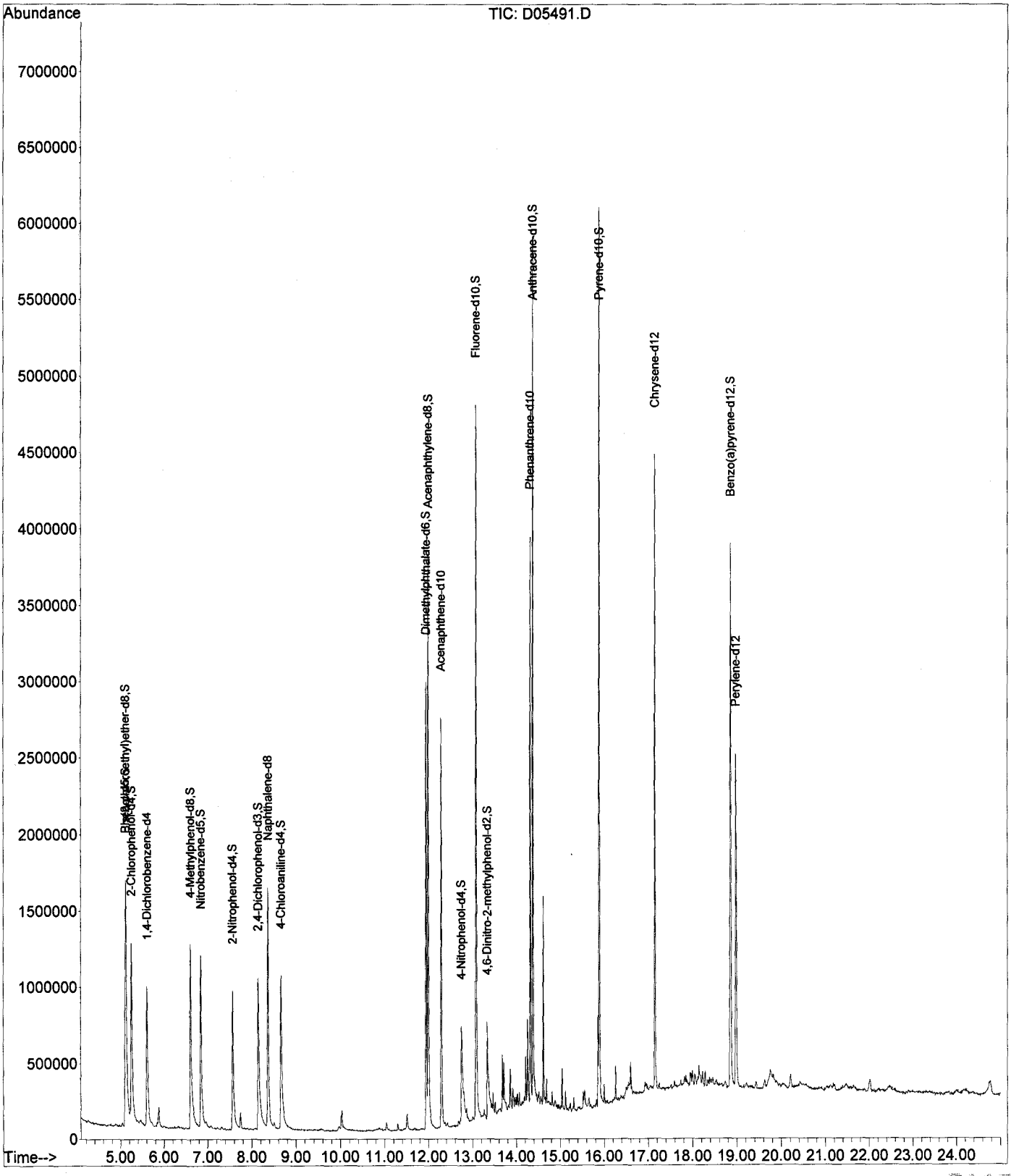
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0112

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 10:12:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.155	3	13	18	BV	3800	60628	0.07%	0.003%
2	4.196	18	20	24	VV 5	8744	91615	0.11%	0.004%
3	4.255	24	30	43	PV 5	18215	637104	0.76%	0.028%
4	4.349	43	46	51	VV 6	7497	152981	0.18%	0.007%
5	4.402	51	55	57	PV 5	7908	83230	0.10%	0.004%
6	4.432	57	60	67	VV 9	10242	191477	0.23%	0.008%
7	4.484	67	69	70	VV 2	4925	44056	0.05%	0.002%
8	4.502	70	72	76	VV 5	6779	83865	0.10%	0.004%
9	4.537	76	78	80	VV 2	7196	37355	0.04%	0.002%
10	4.561	80	82	84	VV 3	6463	46021	0.06%	0.002%
11	4.584	84	86	90	PV 5	7677	97496	0.12%	0.004%
12	4.620	90	92	94	VV 3	9276	93279	0.11%	0.004%
13	4.643	94	96	102	VV 7	9112	130198	0.16%	0.006%
14	4.690	102	104	106	PV 3	5808	44519	0.05%	0.002%
15	4.714	106	108	109	VV 2	7521	57472	0.07%	0.003%
16	4.737	109	112	114	VV 4	10168	120652	0.14%	0.005%
17	4.755	114	115	117	VV 2	9582	81117	0.10%	0.004%
18	4.779	117	119	124	VV 6	13794	163474	0.20%	0.007%
19	4.820	124	126	134	VV 8	5756	137920	0.17%	0.006%
20	4.890	134	138	149	VV 8	17091	417362	0.50%	0.019%
21	4.961	149	150	151	VV	7618	39190	0.05%	0.002%
22	4.984	151	154	160	VV 6	11452	179571	0.22%	0.008%
23	5.049	160	165	170	VV 8	27727	524469	0.63%	0.023%
24	5.126	170	178	193	VV 4	1624683	41858705	50.18%	1.856%
25	5.255	193	200	220	VV	1181261	29013173	34.78%	1.287%
26	5.390	220	223	229	VV 5	45505	1394036	1.67%	0.062%
27	5.449	229	233	234	VV 4	44068	570096	0.68%	0.025%
28	5.467	234	236	251	VV 4	48539	1858058	2.23%	0.082%
29	5.614	251	261	286	VV	923011	21914792	26.27%	0.972%
30	5.767	286	287	289	VV 2	15568	180684	0.22%	0.008%
31	5.814	289	295	297	VV 7	17338	407048	0.49%	0.018%
32	5.843	297	300	302	VV 2	35937	491836	0.59%	0.022%
33	5.884	302	307	315	VV 2	135687	2868832	3.44%	0.127%
34	5.943	315	317	323	VV 7	16852	306642	0.37%	0.014%
35	5.990	323	325	346	VV 7	16538	691786	0.83%	0.031%
36	6.131	346	349	351	VV 4	7222	77512	0.09%	0.003%
37	6.155	351	353	354	VV 2	7385	50283	0.06%	0.002%
38	6.208	354	362	364	VV 9	8235	191346	0.23%	0.008%
39	6.243	364	368	370	VV 5	13945	166981	0.20%	0.007%
40	6.273	370	373	378	VV 7	8418	172270	0.21%	0.008%
41	6.326	378	382	390	VV 7	15734	430022	0.52%	0.019%
42	6.396	390	394	398	VV 6	11931	204713	0.25%	0.009%
43	6.437	398	401	404	VV 5	8943	99385	0.12%	0.004%
44	6.502	404	412	417	PV 5	8397	213507	0.26%	0.009%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.543	417	419	424	VV	6	8913	146262	0.18%	0.006%
46	6.614	424	431	465	VV		1183016	29528836	35.40%	1.309%
47	6.849	465	471	487	VV		1129417	23788775	28.52%	1.055%
48	6.967	487	491	505	VV		53450	1994890	2.39%	0.088%
49	7.078	505	510	521	VV		26011	853276	1.02%	0.038%
50	7.155	521	523	524	VV	2	11848	123089	0.15%	0.005%
51	7.220	524	534	542	VV	2	14584	528547	0.63%	0.023%
52	7.325	542	552	560	VV	2	20261	636559	0.76%	0.028%
53	7.396	560	564	569	VV	7	11969	166199	0.20%	0.007%
54	7.455	569	574	576	PV	6	6469	91374	0.11%	0.004%
55	7.502	576	582	588	VV	6	8600	183595	0.22%	0.008%
56	7.572	588	594	616	VV		889426	19528055	23.41%	0.866%
57	7.708	616	617	619	VV	2	23417	241905	0.29%	0.011%
58	7.749	619	624	634	VV		111984	2155459	2.58%	0.096%
59	7.831	634	638	649	VV		15511	532050	0.64%	0.024%
60	7.908	649	651	656	VV	6	12861	204426	0.25%	0.009%
61	7.961	656	660	667	VV	10	9724	242917	0.29%	0.011%
62	8.020	667	670	674	VV	6	4484	100229	0.12%	0.004%
63	8.061	674	677	681	VV	6	10016	178276	0.21%	0.008%
64	8.096	681	683	687	VV	5	13863	213290	0.26%	0.009%
65	8.155	687	693	723	VV		1005138	26583926	31.87%	1.179%
66	8.372	723	730	749	VV		1568630	30095853	36.08%	1.335%
67	8.508	749	753	760	VV	8	52216	1337158	1.60%	0.059%
68	8.561	760	762	768	VV	6	18274	407338	0.49%	0.018%
69	8.608	768	770	772	VV	3	16186	186372	0.22%	0.008%
70	8.667	772	780	803	VV		1004371	24743508	29.66%	1.097%
71	8.808	803	804	817	VV		34333	1164629	1.40%	0.052%
72	8.890	817	818	825	VV	7	19369	429340	0.51%	0.019%
73	8.943	825	827	833	VV	7	13313	302873	0.36%	0.013%
74	8.990	833	835	840	VV	6	12455	229257	0.27%	0.010%
75	9.037	840	843	846	VV	5	11626	187518	0.22%	0.008%
76	9.084	846	851	854	VV	7	9173	180173	0.22%	0.008%
77	9.131	854	859	864	VV	9	12483	294420	0.35%	0.013%
78	9.172	864	866	868	VV	3	8125	87023	0.10%	0.004%
79	9.202	868	871	876	VV	7	9423	152200	0.18%	0.007%
80	9.243	876	878	879	VV	2	5104	51485	0.06%	0.002%
81	9.278	879	884	886	VV	6	6928	113678	0.14%	0.005%
82	9.308	886	889	893	VV	6	8232	150321	0.18%	0.007%
83	9.349	893	896	898	VV	4	7661	98330	0.12%	0.004%
84	9.378	898	901	903	VV	4	5540	66424	0.08%	0.003%
85	9.414	903	907	909	VV	5	8779	111549	0.13%	0.005%
86	9.437	909	911	917	VV	7	10861	196713	0.24%	0.009%
87	9.484	917	919	925	VV	7	5895	105280	0.13%	0.005%
88	9.531	925	927	934	VV	7	8293	259375	0.31%	0.012%
89	9.578	934	935	944	VV	8	11373	263291	0.32%	0.012%
90	9.637	944	945	947	VV	2	3749	27566	0.03%	0.001%
91	9.661	947	949	951	VV	3	3588	27875	0.03%	0.001%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.684	951	953	955	VV	3	7129	64244	0.08%	0.003%
93	9.714	955	958	961	VV	5	6518	99550	0.12%	0.004%
94	9.737	961	962	968	VV	5	7147	89201	0.11%	0.004%
95	9.784	968	970	972	VV	3	5654	47930	0.06%	0.002%
96	9.831	976	978	979	VV	2	8009	57777	0.07%	0.003%
97	9.849	979	981	986	VV	6	6003	103184	0.12%	0.005%
98	9.908	986	991	993	VV	6	6133	89580	0.11%	0.004%
99	9.978	993	1003	1007	VV	9	29852	872952	1.05%	0.039%
100	10.037	1007	1013	1040	VV		133408	3880116	4.65%	0.172%
101	10.202	1040	1041	1048	VV	7	10808	224778	0.27%	0.010%
102	10.266	1048	1052	1057	VV	8	11300	212845	0.26%	0.009%
103	10.308	1057	1059	1066	VV	8	6049	136235	0.16%	0.006%
104	10.355	1066	1067	1070	VV	3	4445	47409	0.06%	0.002%
105	10.378	1070	1071	1080	VV	9	7441	133814	0.16%	0.006%
106	10.443	1080	1082	1085	VV	4	8218	73295	0.09%	0.003%
107	10.472	1085	1087	1089	VV	3	5439	40461	0.05%	0.002%
108	10.496	1089	1091	1093	VV	3	5828	49383	0.06%	0.002%
109	10.537	1093	1098	1100	VV	6	4768	59498	0.07%	0.003%
110	10.561	1100	1102	1110	VV	9	3492	142203	0.17%	0.006%
111	10.649	1110	1117	1120	VV	8	11036	202092	0.24%	0.009%
112	10.696	1120	1125	1128	VV	6	6907	122003	0.15%	0.005%
113	10.725	1128	1130	1132	PV	3	4493	49326	0.06%	0.002%
114	10.813	1132	1145	1151	VV	3	14078	609099	0.73%	0.027%
115	10.884	1151	1157	1162	VV	10	18488	556720	0.67%	0.025%
116	10.931	1162	1165	1171	VV	8	12564	304825	0.37%	0.014%
117	11.049	1171	1185	1199	VV	5	50907	1357124	1.63%	0.060%
118	11.302	1199	1228	1246	PV	7	43926	1383177	1.66%	0.061%
119	11.513	1246	1264	1286	VV		106882	3060253	3.67%	0.136%
120	11.690	1286	1294	1306	VV		16249	462948	0.55%	0.021%
121	11.790	1306	1311	1313	PV	6	4540	68080	0.08%	0.003%
122	11.872	1313	1325	1329	VV	6	11370	441602	0.53%	0.020%
123	11.949	1329	1338	1342	VV		2902714	36435474	43.68%	1.616%
124	11.996	1342	1346	1375	VV		3644756	54900536	65.82%	2.434%
125	12.184	1375	1378	1390	VV		14847	774380	0.93%	0.034%
126	12.296	1390	1397	1408	VV		2623547	35936676	43.08%	1.594%
127	12.378	1408	1411	1414	VV	5	52345	938776	1.13%	0.042%
128	12.431	1414	1420	1436	VV	5	44518	1987020	2.38%	0.088%
129	12.560	1436	1442	1452	VV	5	24864	1238234	1.48%	0.055%
130	12.637	1452	1455	1458	VV	5	25032	507882	0.61%	0.023%
131	12.684	1458	1463	1467	VV	4	57483	1327917	1.59%	0.059%
132	12.755	1467	1475	1491	VV	3	671346	21601357	25.90%	0.958%
133	12.860	1491	1493	1507	VV	6	134990	4831072	5.79%	0.214%
134	12.960	1507	1510	1513	VV	4	60172	1327616	1.59%	0.059%
135	13.013	1513	1519	1523	VV	7	80676	2241233	2.69%	0.099%
136	13.090	1523	1532	1555	VV		4669093	68932877	82.64%	3.057%
137	13.260	1555	1561	1570	VV	7	126560	4927440	5.91%	0.218%
138	13.343	1570	1575	1594	VV	4	688035	21592366	25.89%	0.957%
139	13.472	1594	1597	1601	VV		229674	4157719	4.98%	0.184%

B116

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	13.519	1601	1605	1611	VV		177694	4231616	5.07%	0.188%
141	13.631	1611	1624	1628	VV		133461	7184371	8.61%	0.319%
142	13.684	1628	1633	1636	VV		450978	7013349	8.41%	0.311%
143	13.719	1636	1639	1651	VV		417570	10934657	13.11%	0.485%
144	13.813	1651	1655	1659	VV	7	154086	3815040	4.57%	0.169%
145	13.866	1659	1664	1670	VV		392962	8698424	10.43%	0.386%
146	13.931	1670	1675	1679	VV	2	258176	6242922	7.48%	0.277%
147	13.972	1679	1682	1685	VV	4	202313	3412207	4.09%	0.151%
148	14.001	1685	1687	1690	VV		201070	2885944	3.46%	0.128%
149	14.031	1690	1692	1696	VV	2	225700	4226746	5.07%	0.187%
150	14.072	1696	1699	1707	VV	2	228047	6412640	7.69%	0.284%
151	14.137	1707	1710	1712	VV	4	173274	2971277	3.56%	0.132%
152	14.219	1712	1724	1727	VV	2	446466	11950199	14.33%	0.530%
153	14.266	1727	1732	1738	VV		682052	12688969	15.21%	0.563%
154	14.325	1738	1742	1748	VV		3579480	41893013	50.22%	1.858%
155	14.384	1748	1752	1769	VV		5452486	73301182	87.87%	3.250%
156	14.519	1769	1775	1779	VV	4	234651	6725275	8.06%	0.298%
157	14.566	1779	1783	1788	VV	3	201634	5573470	6.68%	0.247%
158	14.625	1788	1793	1801	VV		1352218	19792255	23.73%	0.878%
159	14.696	1801	1805	1809	VV		315075	5476050	6.56%	0.243%
160	14.731	1809	1811	1817	VV	7	170663	4921024	5.90%	0.218%
161	14.784	1817	1820	1823	VV	5	161408	2846626	3.41%	0.126%
162	14.819	1823	1826	1832	VV	2	228665	5490202	6.58%	0.243%
163	14.890	1832	1838	1856	VV	10	173829	12039340	14.43%	0.534%
164	15.048	1856	1865	1872	VV		381026	9572295	11.48%	0.424%
165	15.125	1872	1878	1889	VV		224599	7709354	9.24%	0.342%
166	15.231	1889	1896	1901	VV	10	154584	5216951	6.25%	0.231%
167	15.313	1901	1910	1920	VV	5	193306	8417292	10.09%	0.373%
168	15.413	1920	1927	1937	VV	5	128036	6931821	8.31%	0.307%
169	15.560	1937	1952	1962	VV	6	230757	13774714	16.51%	0.611%
170	15.660	1962	1969	1982	VV	4	186350	10253721	12.29%	0.455%
171	15.766	1982	1987	1992	VV	9	135400	4326059	5.19%	0.192%
172	15.831	1992	1998	2000	VV	3	175556	4268182	5.12%	0.189%
173	15.895	2000	2009	2025	VV		6143665	83415488	100.00%	3.699%
174	16.007	2025	2028	2031	VV		272841	4170581	5.00%	0.185%
175	16.043	2031	2034	2045	VV		163921	7559832	9.06%	0.335%
176	16.160	2045	2054	2058	VV		159194	7120399	8.54%	0.316%
177	16.266	2058	2072	2080	VV		371777	14948433	17.92%	0.663%
178	16.331	2080	2083	2086	VV	5	181147	3491570	4.19%	0.155%
179	16.384	2086	2092	2099	VV	5	196074	8784041	10.53%	0.390%
180	16.437	2099	2101	2104	VV	4	192367	2843303	3.41%	0.126%
181	16.554	2104	2121	2124	VV	4	281778	15970638	19.15%	0.708%
182	16.607	2124	2130	2138	VV	3	405938	14047808	16.84%	0.623%
183	16.678	2138	2142	2147	VV	8	221100	6942437	8.32%	0.308%
184	16.725	2147	2150	2154	VV	6	221757	5168155	6.20%	0.229%
185	16.772	2154	2158	2162	VV	7	217083	5879793	7.05%	0.261%
186	16.813	2162	2165	2172	VV	9	220043	7429888	8.91%	0.329%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	16.866	2172	2174	2175	VV	2	217735	2558660	3.07%	0.113%
188	16.931	2175	2185	2199	VV	6	281889	20218112	24.24%	0.897%
189	17.054	2199	2206	2211	VV	6	254328	10605913	12.71%	0.470%
190	17.101	2211	2214	2216	VV	4	249508	4018885	4.82%	0.178%
191	17.160	2216	2224	2236	VV		4197917	57940397	69.46%	2.569%
192	17.248	2236	2239	2244	VV	6	269420	6622887	7.94%	0.294%
193	17.290	2244	2246	2252	VV	7	237679	6623985	7.94%	0.294%
194	17.337	2252	2254	2262	VV	9	245438	8990588	10.78%	0.399%
195	17.466	2262	2276	2279	VV	9	244385	14174234	16.99%	0.629%
196	17.519	2279	2285	2289	VV	8	259799	8551460	10.25%	0.379%
197	17.589	2289	2297	2309	VV	8	283451	17982110	21.56%	0.797%
198	17.737	2309	2322	2327	VV	8	288404	16229483	19.46%	0.720%
199	17.784	2327	2330	2332	VV	4	263039	4231437	5.07%	0.188%
200	17.819	2332	2336	2339	VV	3	310101	7299281	8.75%	0.324%
201	17.854	2339	2342	2353	VV	4	313052	14022680	16.81%	0.622%
202	17.954	2353	2359	2363	VV	4	333707	9884176	11.85%	0.438%
203	17.995	2363	2366	2372	VV	3	347671	9533962	11.43%	0.423%
204	18.054	2372	2376	2382	VV	5	325217	10409284	12.48%	0.462%
205	18.148	2382	2392	2400	VV	2	376884	20112715	24.11%	0.892%
206	18.225	2400	2405	2411	VV	3	341414	10538712	12.63%	0.467%
207	18.284	2411	2415	2420	VV	3	339233	9398248	11.27%	0.417%
208	18.342	2420	2425	2429	VV		285965	8545055	10.24%	0.379%
209	18.384	2429	2432	2435	VV	2	302542	5211288	6.25%	0.231%
210	18.419	2435	2438	2441	VV	5	289395	6078910	7.29%	0.270%
211	18.460	2441	2445	2449	VV	4	298493	8453862	10.13%	0.375%
212	18.531	2449	2457	2464	VV	4	279797	13856638	16.61%	0.614%
213	18.595	2464	2468	2472	VV	7	260423	6683485	8.01%	0.296%
214	18.654	2472	2478	2486	VV	7	257923	12863701	15.42%	0.570%
215	18.731	2486	2491	2504	VV	7	270610	15470293	18.55%	0.686%
216	18.860	2504	2513	2527	VV		3710635	75996173	91.11%	3.370%
217	18.984	2527	2534	2557	VV		2372089	60781731	72.87%	2.695%
218	19.213	2557	2573	2582	VV		257511	20685578	24.80%	0.917%
219	19.278	2582	2584	2605	VV		233969	18733810	22.46%	0.831%
220	19.431	2605	2610	2626	VV	10	256127	16521484	19.81%	0.733%
221	19.631	2626	2644	2650	VV	10	273728	20534970	24.62%	0.911%
222	19.760	2650	2666	2673	VV	10	336130	23612838	28.31%	1.047%
223	19.813	2673	2675	2685	VV	10	312473	11706341	14.03%	0.519%
224	19.889	2685	2688	2697	VV	10	268462	10253252	12.29%	0.455%
225	19.954	2697	2699	2704	VV	6	247195	6619825	7.94%	0.294%
226	20.031	2704	2712	2735	VV	6	245317	24945024	29.90%	1.106%
227	20.213	2735	2743	2758	VV	2	300845	19584256	23.48%	0.868%
228	20.425	2758	2779	2787	VV	2	252609	23953608	28.72%	1.062%
229	20.489	2787	2790	2795	VV	7	242581	7519799	9.01%	0.333%
230	20.560	2795	2802	2806	VV	10	241004	8944706	10.72%	0.397%
231	20.595	2806	2808	2815	VV	8	227405	6579540	7.89%	0.292%
232	20.654	2815	2818	2825	VV	9	221635	8158678	9.78%	0.362%
233	20.707	2825	2827	2832	VV	6	209810	4584875	5.50%	0.203%
234	20.748	2832	2834	2839	VV	6	214775	5447263	6.53%	0.242%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	20.789	2839	2841	2845	VV	5	212395	4350716	5.22%	0.193%
236	20.854	2845	2852	2854	VV	7	217993	6653227	7.98%	0.295%
237	20.889	2854	2858	2873	VV	7	213126	13879887	16.64%	0.615%
238	21.030	2873	2882	2890	VV	7	223564	12200468	14.63%	0.541%
239	21.113	2890	2896	2903	VV	7	226499	10342317	12.40%	0.459%
240	21.183	2903	2908	2910	VV	6	238698	5385406	6.46%	0.239%
241	21.207	2910	2912	2935	VV	6	233979	17729471	21.25%	0.786%
242	21.360	2935	2938	2940	VV	4	212647	3605744	4.32%	0.160%
243	21.477	2940	2958	2971	VV	4	235141	24123022	28.92%	1.070%
244	21.572	2971	2974	2982	VV	10	214969	7993948	9.58%	0.354%
245	21.642	2982	2986	3005	VV	10	224159	16465668	19.74%	0.730%
246	21.766	3005	3007	3019	VV	10	195023	9234632	11.07%	0.409%
247	21.901	3019	3030	3037	VV	10	198117	11670305	13.99%	0.517%
248	21.954	3037	3039	3041	VV	3	185319	2633817	3.16%	0.117%
249	22.019	3041	3050	3057	VV	3	259483	13003052	15.59%	0.577%
250	22.083	3057	3061	3065	VV	7	189886	5025704	6.02%	0.223%
251	22.119	3065	3067	3077	VV	7	192695	7640609	9.16%	0.339%
252	22.213	3077	3083	3088	VV	10	197564	7003809	8.40%	0.311%
253	22.248	3088	3089	3096	VV	7	194175	5437139	6.52%	0.241%
254	22.342	3096	3105	3112	VV	7	192729	10662031	12.78%	0.473%
255	22.477	3112	3128	3134	VV	7	213940	15739779	18.87%	0.698%
256	22.524	3134	3136	3157	VV	7	204073	14643278	17.55%	0.649%
257	22.666	3157	3160	3171	VV	7	175452	8755532	10.50%	0.388%
258	22.760	3171	3176	3179	VV	7	173483	4610735	5.53%	0.204%
259	22.795	3179	3182	3189	VV	9	173086	5797249	6.95%	0.257%
260	22.854	3189	3192	3196	VV	6	174247	4004641	4.80%	0.178%
261	22.901	3196	3200	3207	VV	10	181497	6589137	7.90%	0.292%
262	22.971	3207	3212	3214	VV	6	173284	4370936	5.24%	0.194%
263	22.995	3214	3216	3227	VV	6	179712	8136453	9.75%	0.361%
264	23.095	3227	3233	3238	VV	10	172196	6374661	7.64%	0.283%
265	23.160	3238	3244	3254	VV	10	173975	9271442	11.11%	0.411%
266	23.230	3254	3256	3259	VV	4	165178	2798983	3.36%	0.124%
267	23.266	3259	3262	3267	VV	6	169349	4457056	5.34%	0.198%
268	23.301	3267	3268	3277	VV	9	176367	6104144	7.32%	0.271%
269	23.389	3277	3283	3291	VV	9	171232	8221313	9.86%	0.365%
270	23.448	3291	3293	3297	VV	5	170453	3545782	4.25%	0.157%
271	23.495	3297	3301	3305	VV	7	164477	4117717	4.94%	0.183%
272	23.548	3305	3310	3312	VV	6	161865	4199727	5.03%	0.186%
273	23.577	3312	3315	3317	VV	4	159426	2720569	3.26%	0.121%
274	23.624	3317	3323	3337	VV	4	163339	10331520	12.39%	0.458%
275	23.830	3337	3358	3364	VV	4	166918	15173311	18.19%	0.673%
276	23.883	3364	3367	3376	VV	4	160269	6688284	8.02%	0.297%
277	24.013	3376	3389	3406	VV	4	174168	16479279	19.76%	0.731%
278	24.171	3406	3416	3419	VV	4	175333	7694278	9.22%	0.341%
279	24.213	3419	3423	3442	VV	4	179501	13215881	15.84%	0.586%
280	24.342	3442	3445	3447	VV	4	159286	2792929	3.35%	0.124%
281	24.383	3447	3452	3455	VV	6	159338	4357744	5.22%	0.193%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	24.407	3455	3456	3462	VV 6	154838	3690049	4.42%	0.164%
283	24.471	3462	3467	3470	VV 7	150327	4078283	4.89%	0.181%
284	24.501	3470	3472	3476	VV 5	147586	3064407	3.67%	0.136%
285	24.771	3476	3518	3541	VV 5	227249	36729041	44.03%	1.629%
286	24.918	3541	3543	3546	VV 4	142946	2307815	2.77%	0.102%
287	24.954	3546	3549	3552	VBA4	143526	3145832	3.77%	0.139%

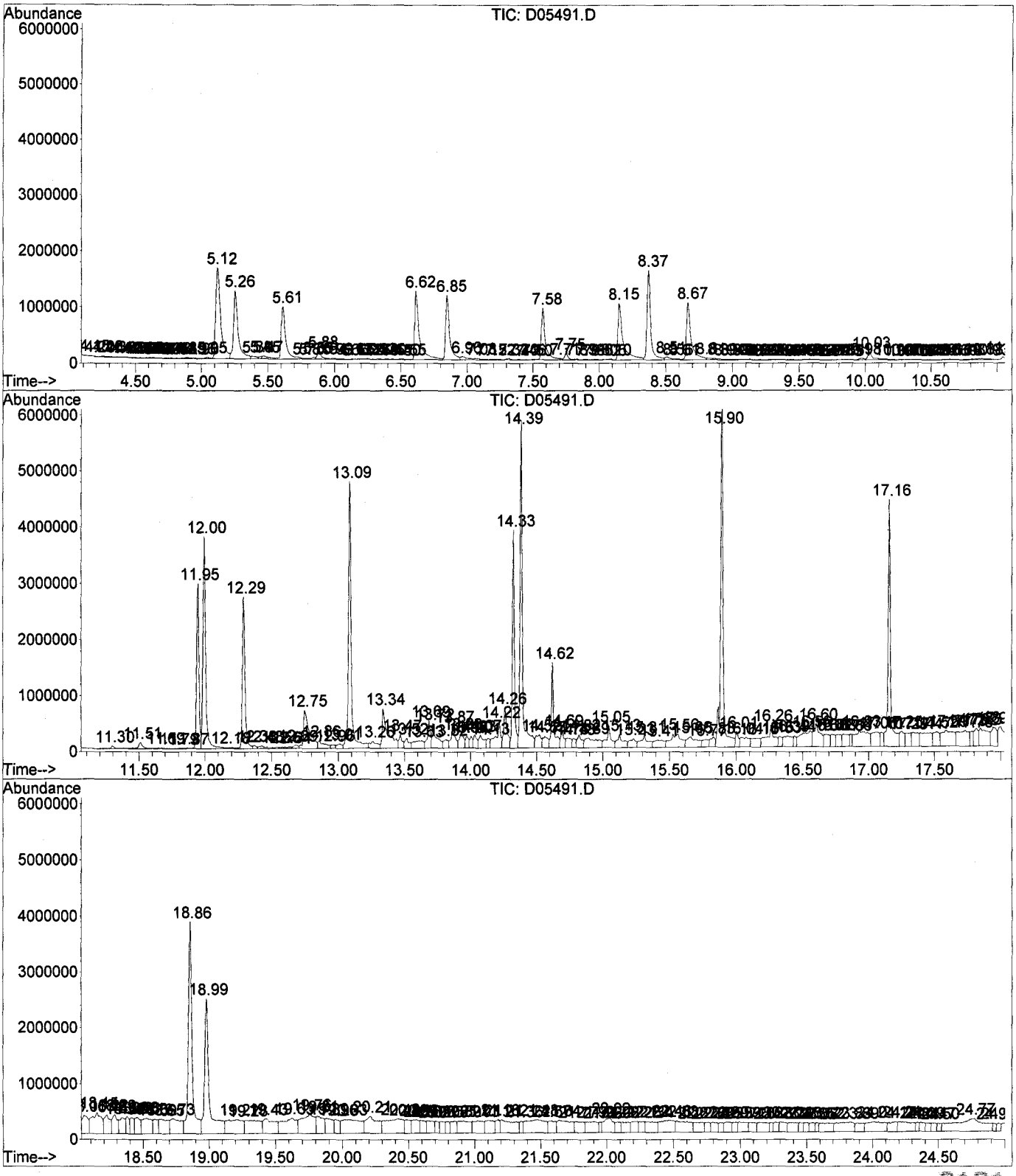
Sum of corrected areas: 2255161027

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48
Sample : F4XP4
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

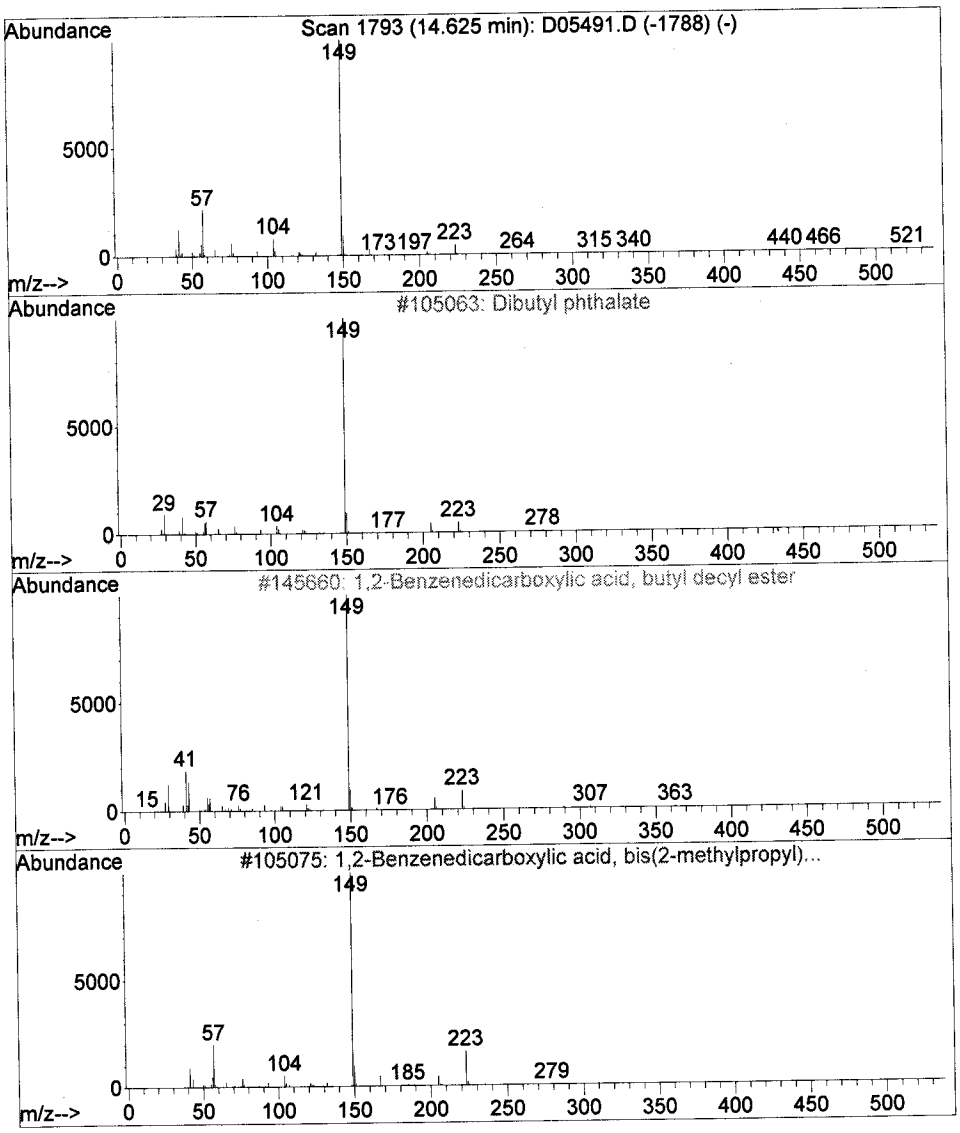
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

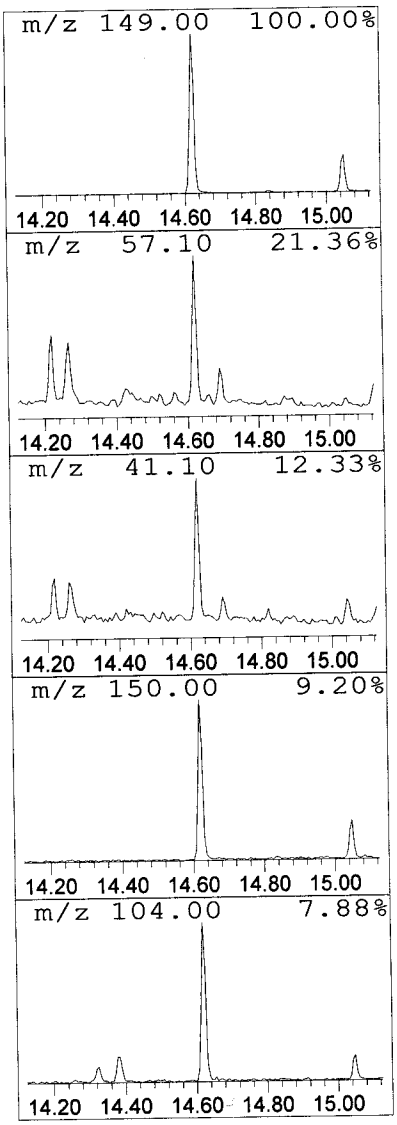
****

Peak Number 1 Dibutyl phthalate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	9.45 ug/L	19792300	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibutyl phthalate	278	C16H22O4	000084-74-2	78
2	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-19-0	78
3	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	72
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	72
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	72





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

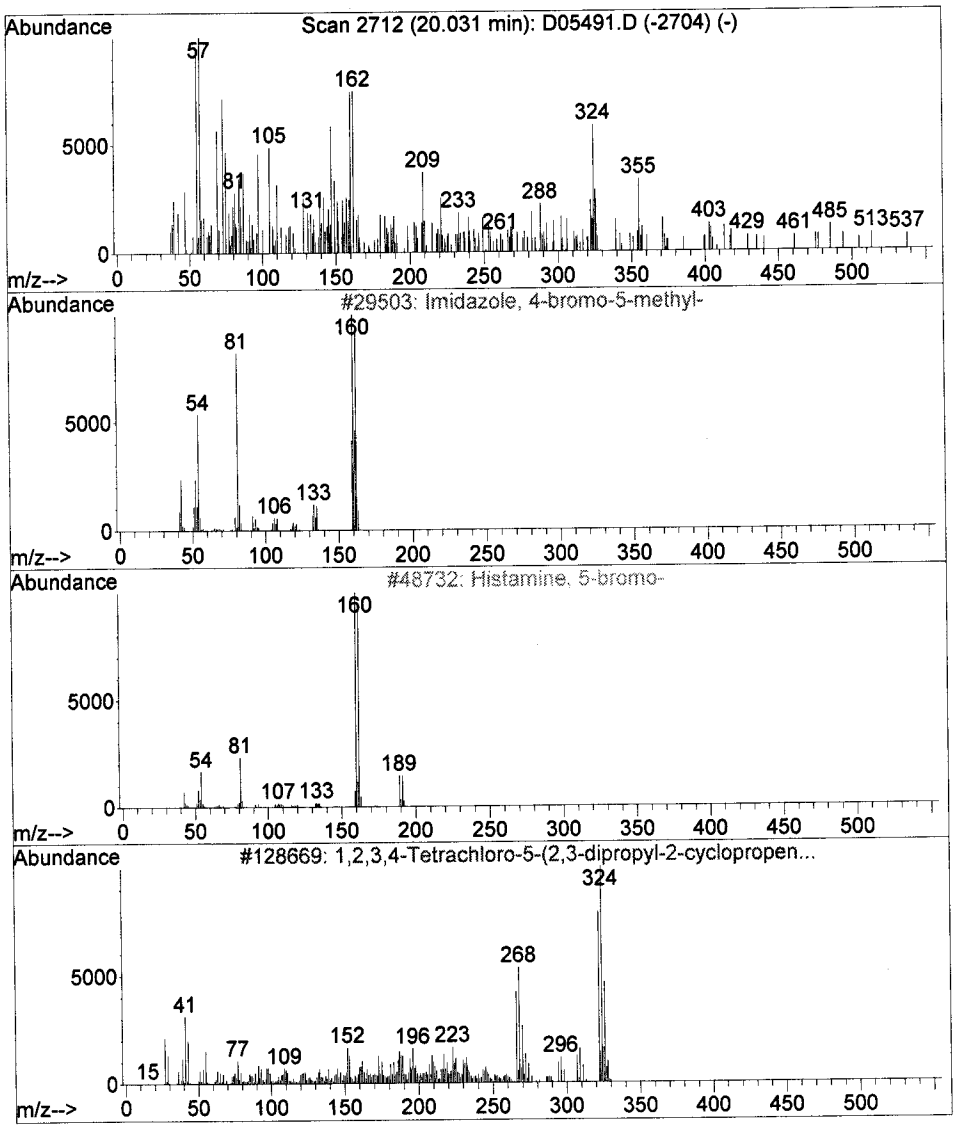
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

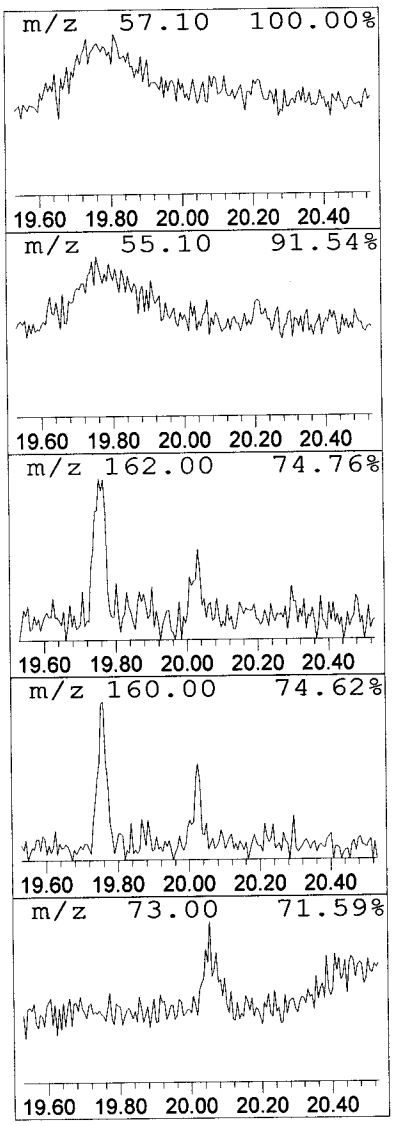
****
Peak Number 2 Imidazole, 4-bromo-5-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.03	8.21 ug/L	24945000	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Imidazole, 4-bromo-5-methyl-	160	C4H5BrN2	015813-08-8	43
2	Histamine, 5-bromo-	189	C5H8BrN3	081282-39-5	43
3	1,2,3,4-Tetrachloro-5-(2,3-dipro...	322	C14H14Cl4	005680-25-1	25
4	2-Propylthio-5-chloro-pyrimidin-...	204	C7H9ClN2OS	106146-80-9	25
5	2,4-Diamino-5-chloro-6-hydroxypy...	160	C4H5ClN4O	071552-22-2	22





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

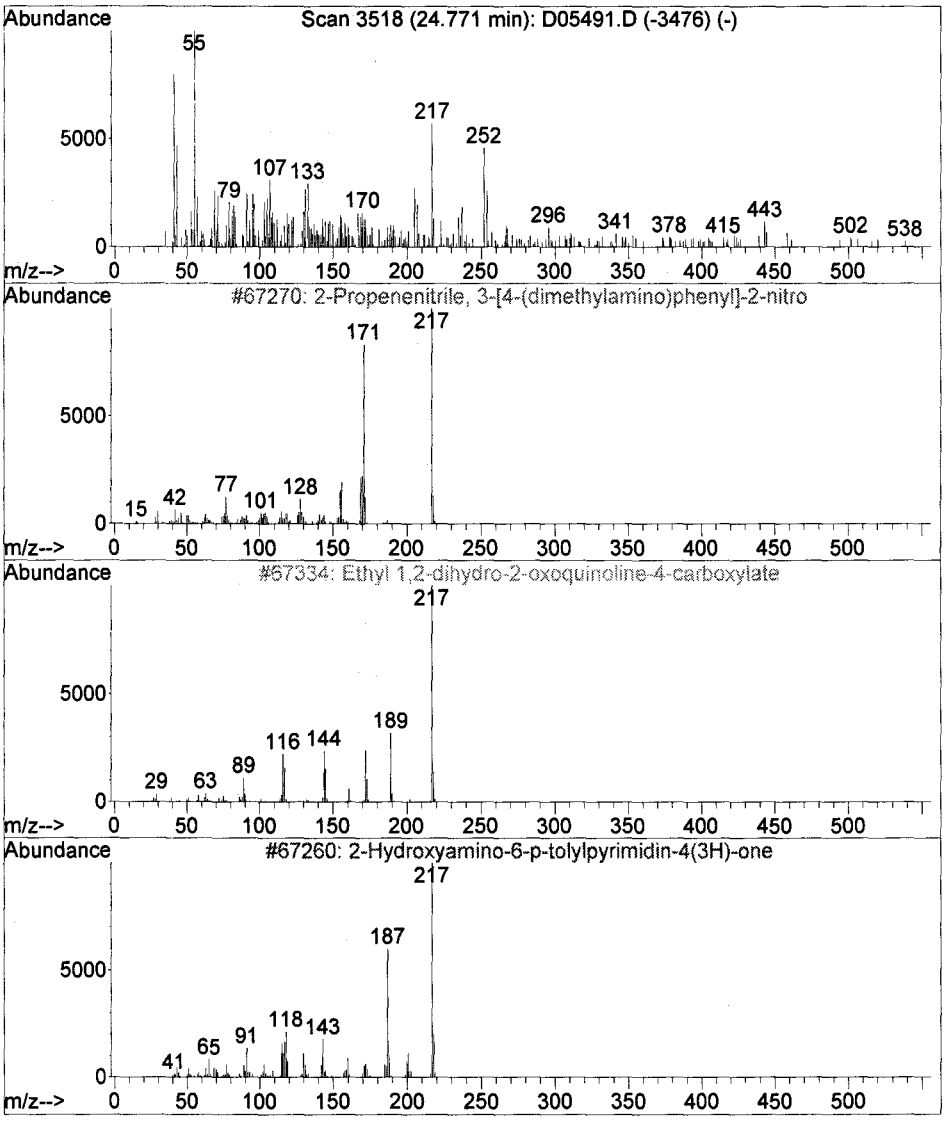
****

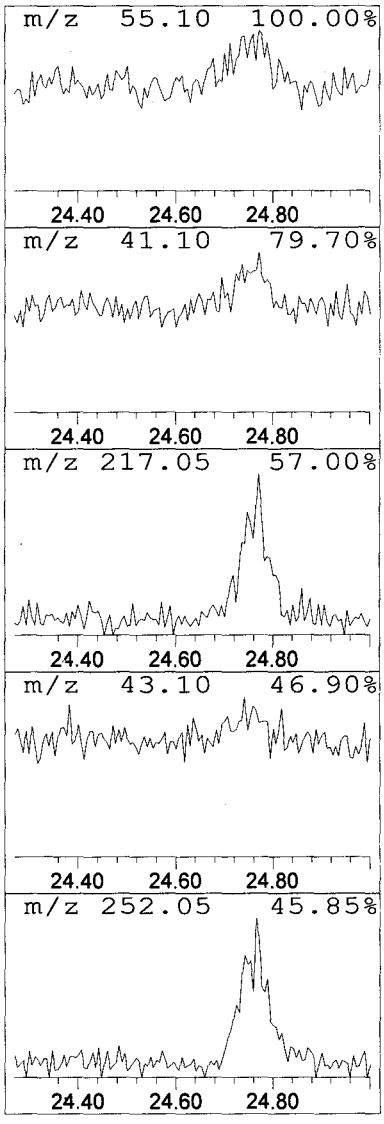
Peak Number 3 2-Propenenitrile, 3-[4-(dim... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.77	12.09 ug/L	36729000	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenenitrile, 3-[4-(dimethyl...	217	C11H11N3O2	038073-37-9	48
2	Ethyl 1,2-dihydro-2-oxoquinoline...	217	C12H11NO3	005466-27-3	20
3	2-Hydroxyamino-6-p-tolylpyrimidi...	217	C11H11N3O2	1000111-14-2	20
4	1-(4-Nitrophenyl)-3,5-dimethyl-p...	217	C11H11N3O2	013788-94-8	18
5	1-Aminopyrene	217	C16H11N	001606-67-3	18





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05491.D
Acq On : 12/14/11 16:48 Operator: SV
Sample : F4XP4 Inst : D-5973
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dibutyl phthalate	14.62	9.4	ug/L	19792300	4	14.33	41893000	20.0
Imidazole, 4-brom...	20.03	8.2	ug/L	24945000	6	18.99	60781700	20.0
2-Propenenitrile,...	24.77	12.1	ug/L	36729000	6	18.99	60781700	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06

Sample wt/vol: 60.70 (g/mL) G Lab File ID: D05492

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

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	240	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	240	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET F4XP5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06

Sample wt/vol: 60.70 (g/mL) G Lab File ID: D05492

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

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	240	U
100-02-7	4-Nitrophenol	240	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	240	U
534-52-1	4,6-Dinitro-2-methylphenol	240	U
86-30-6	N-Nitrosodiphenylamine 1	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	240	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	69	J
206-44-0	Fluoranthene	81	J
129-00-0	Pyrene	65	J
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	Bis(2-ethylhexyl)phthalate	64	J
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06

Sample wt/vol: 60.70 (g/mL) G Lab File ID: D05492

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

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000084-69-5	1,2-Benzenedicarboxylic acid,	14.62	390	NJ
02		Unknown-01	20.87	330	J
03	086699-53-8	Isochamaecydin	21.48	320	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 10:13:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

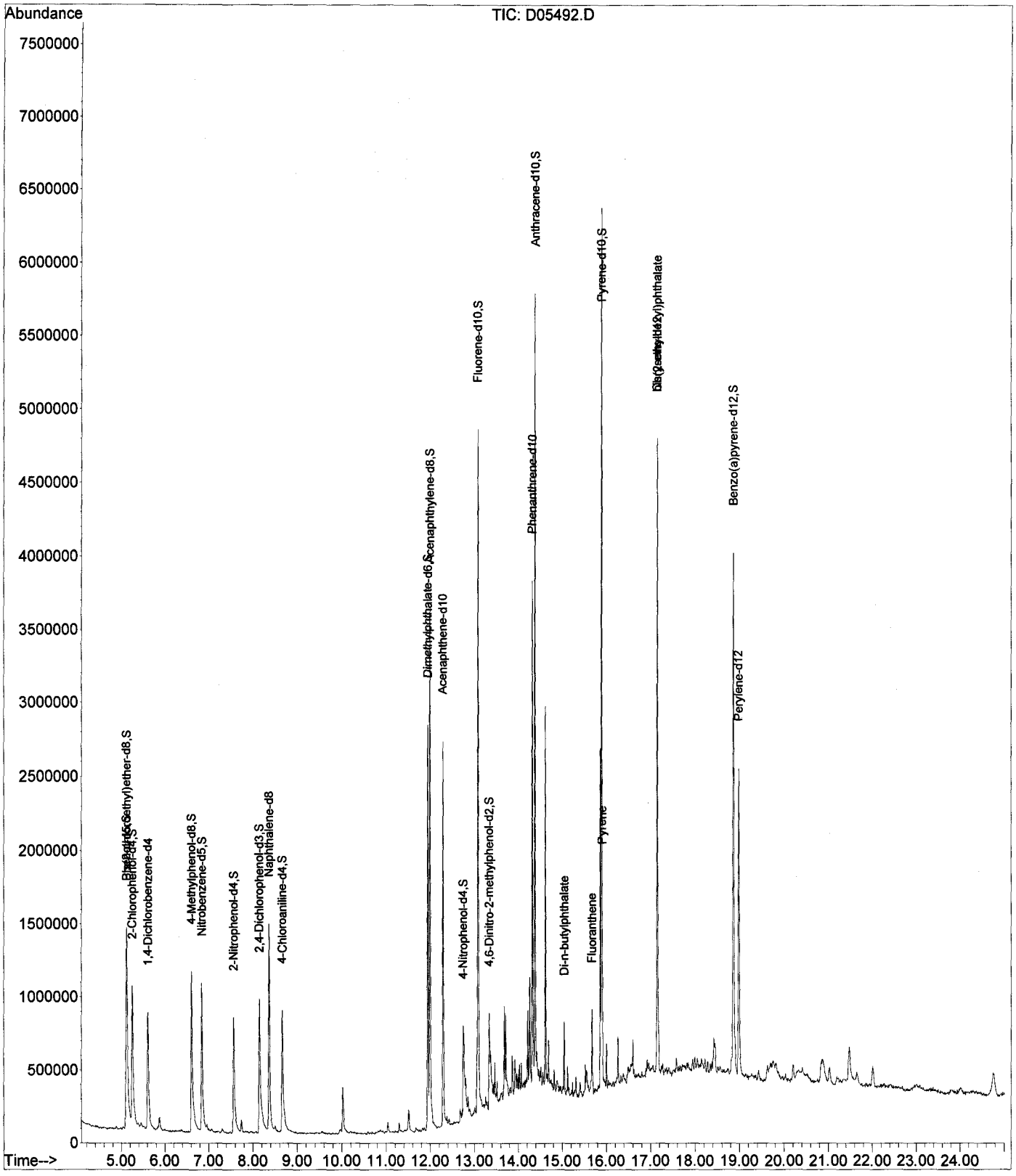
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2763273	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	12511279	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7834960	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	13502787	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	13329113	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	12325106	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	12430726	30.7920 ug/L	0.01
Spiked Amount 40.000	Range 39 - 106		Recovery = 76.98%		
5) Bis(2-chloroethyl)ether-d8	5.12	67	4535053	27.4386 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 68.60%		
7) 2-Chlorophenol-d4	5.26	132	5763004	30.1361 ug/L	0.01
Spiked Amount 40.000	Range 41 - 106		Recovery = 75.34%		
12) 4-Methylphenol-d8	6.62	113	5399934	30.9817 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 77.45%		
17) Nitrobenzene-d5	6.85	128	2909989	31.1826 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 77.96%		
20) 2-Nitrophenol-d4	7.57	143	3157567	35.5241 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 88.81%		
24) 2,4-Dichlorophenol-d3	8.16	165	5128314	31.8517 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 79.63%		
27) 4-Chloroaniline-d4	8.67	131	5946963	33.1533 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 82.88%		
41) Acenaphthylene-d8	12.00	160	22907770	31.5324 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 78.83%		
43) Dimethylphthalate-d6	11.95	166	16197598	33.0010 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 82.50%		
49) 4-Nitrophenol-d4	12.75	143	2638006	38.0255 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 95.06%		
56) Fluorene-d10	13.09	176	14156402	30.1967 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 75.49%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1416604	32.9247 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 82.31%		
68) Anthracene-d10	14.39	188	23283881	32.1460 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 80.36%		
79) Pyrene-d10	15.90	212	24626919	32.0441 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 80.11%		
85) Benzo(a)pyrene-d12	18.86	264	18309869	31.8433 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 79.61%		
Target Compounds					Qvalue
71) Di-n-butylphthalate	15.05	149	2247965	2.7869 ug/L	97
72) Fluoranthene	15.68	202	2462293	3.2867 ug/L	99
75) bis(2-ethylhexyl)phthalate	17.16	149	1445017	2.6176 ug/L #	94
80) Pyrene	15.91	202	2183942	2.6353 ug/L #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

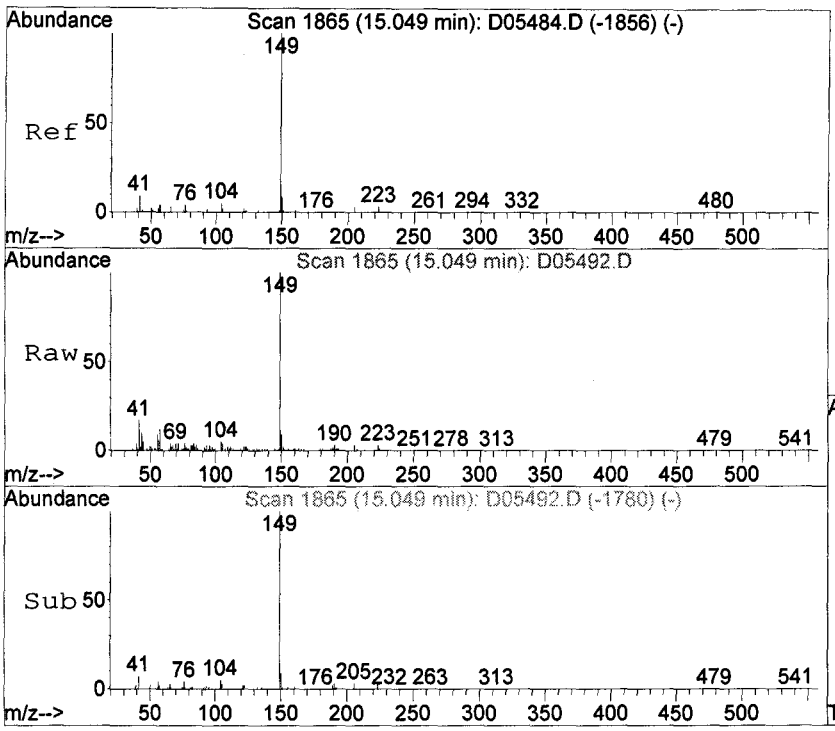
Data File: C:\MSDCHEM\1\DATA\D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 10:13:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



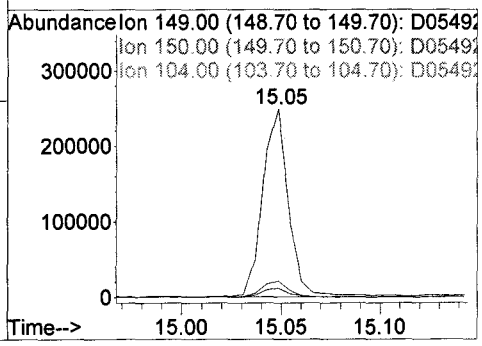
Data File : C:\MSDCHEM\1\DATA\D05492.D
Acq On : 12/14/11 17:19
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

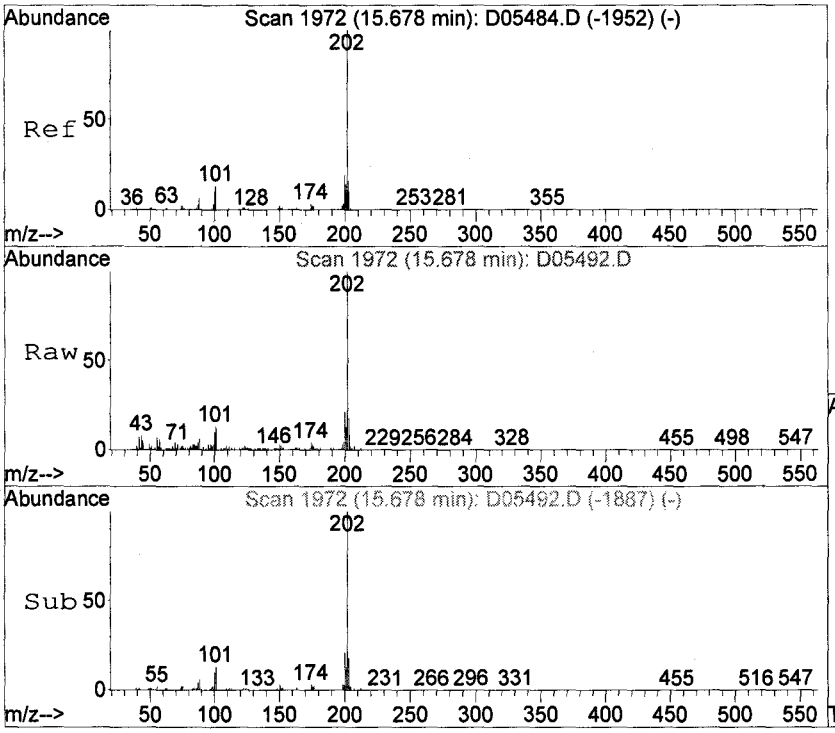
Vial: 10
Operator: SV
Inst : D-5973
Multiplr: 1.00



#71
Di-n-butylphthalate
Concen: 2.79 ug/L
RT: 15.05 min Scan# 1865
Delta R.T. 0.00 min
Integration Range:
Scan=1859 to 1874
R.T.= 15.01 to 15.10 (min)
Tgt Ion:149 Resp: 2247965

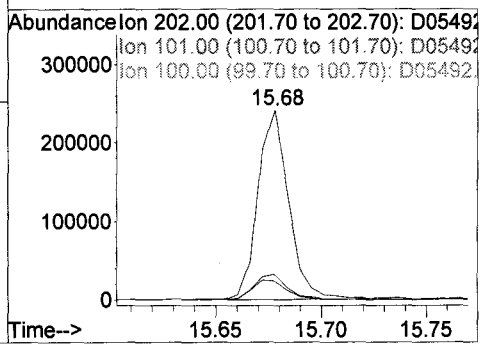
Ion	Ratio	Lower	Upper
149	100		
150	8.9	8.6	12.8
104	5.9	4.6	7.0





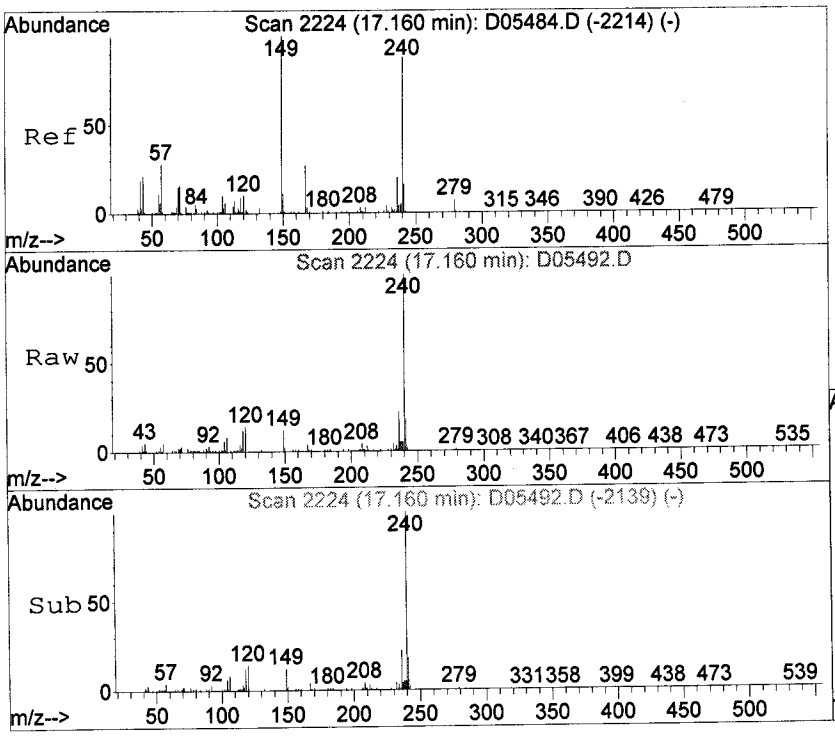
#72
Fluoranthene
Concen: 3.29 ug/L
RT: 15.68 min Scan# 1972
Delta R.T. 0.00 min
Integration Range:
Scan=1966 to 1981
R.T.= 15.64 to 15.73 (min)
Tgt Ion:202 Resp: 2462293

Ion	Ratio	Lower	Upper
202	100		
101	15.3	12.5	18.7
100	12.3	9.4	14.2



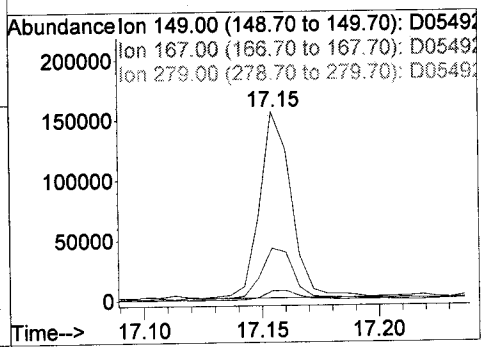
Data File : C:\MSDCHEM\1\DATA\D05492.D
Acq On : 12/14/11 17:19
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

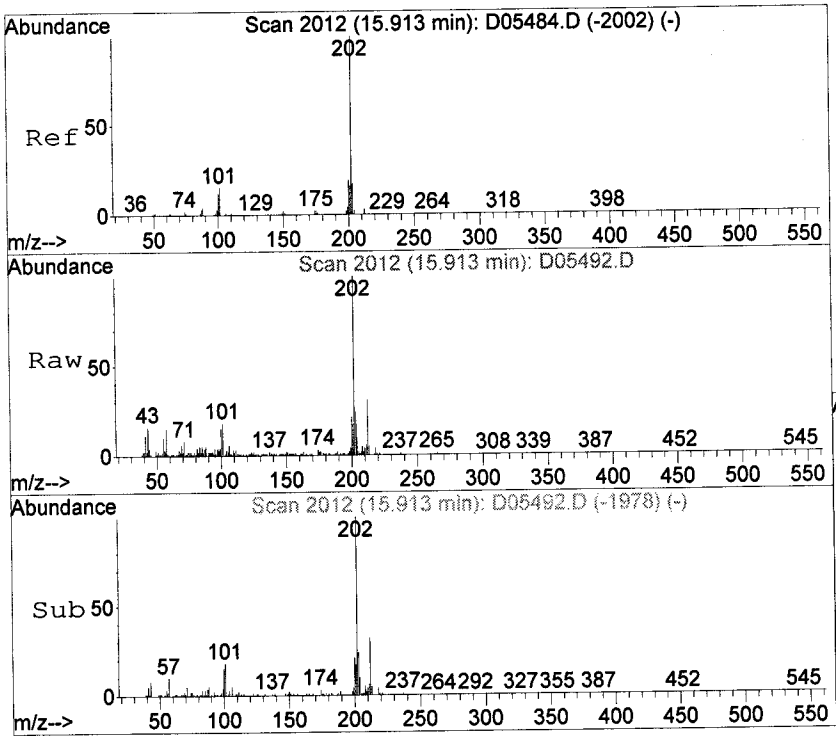
Vial: 10
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 2.62 ug/L
RT: 17.16 min Scan# 2224
Delta R.T. 0.00 min
Integration Range:
Scan=2218 to 2231
R.T.= 17.12 to 17.20 (min)
Tgt Ion:149 Resp: 1445017

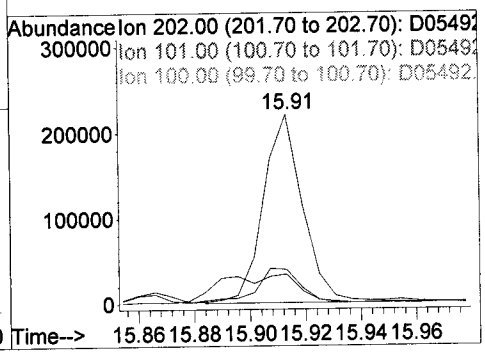
Ion	Ratio	Lower	Upper
149	100		
167	30.5	21.5	32.3
279	5.7	3.8	5.6#





#80
Pyrene
Concen: 2.64 ug/L
RT: 15.91 min Scan# 2012
Delta R.T. 0.00 min
Integration Range:
Scan=2007 to 2018
R.T.= 15.88 to 15.95 (min)
Tgt Ion:202 Resp: 2183942

Ion	Ratio	Lower	Upper
202	100		
101	21.4	15.0	22.4
100	31.6	12.7	19.1#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.155	6	13	17	BV 9	3588	60078	0.05%	0.002%
2	4.202	17	21	24	PV 6	5656	68521	0.06%	0.002%
3	4.255	24	30	33	VV 8	10991	228570	0.19%	0.008%
4	4.279	33	34	43	VV 9	10763	165524	0.14%	0.006%
5	4.343	43	45	53	PV 8	7839	194593	0.16%	0.007%
6	4.408	53	56	63	VV 8	10555	247651	0.20%	0.008%
7	4.455	63	64	71	VV 7	11949	197022	0.16%	0.007%
8	4.508	71	73	80	PV 8	7174	143763	0.12%	0.005%
9	4.602	80	89	105	PV 8	9231	413246	0.34%	0.014%
10	4.732	105	111	119	PV 8	8221	233857	0.19%	0.008%
11	4.802	119	123	135	VV 8	7926	290370	0.24%	0.010%
12	4.890	135	138	150	VV 10	18490	365486	0.30%	0.012%
13	4.990	150	155	159	VV 8	10419	163823	0.13%	0.006%
14	5.049	159	165	170	VV 6	19231	518184	0.43%	0.017%
15	5.126	170	178	193	VV 2	1367041	37195572	30.62%	1.249%
16	5.261	193	201	220	VV	966660	25769951	21.21%	0.866%
17	5.390	220	223	229	VV 6	52171	1250356	1.03%	0.042%
18	5.461	229	235	243	VV 6	52823	1793730	1.48%	0.060%
19	5.520	243	245	252	VV 8	29924	817779	0.67%	0.027%
20	5.614	252	261	290	VV	809640	20461585	16.84%	0.687%
21	5.884	290	307	319	VV 8	98121	3465886	2.85%	0.116%
22	6.002	319	327	334	VV 8	18794	611402	0.50%	0.021%
23	6.055	334	336	346	VV 9	10457	306189	0.25%	0.010%
24	6.126	346	348	355	VV 8	12246	226008	0.19%	0.008%
25	6.184	355	358	367	VV 8	11706	327006	0.27%	0.011%
26	6.249	367	369	375	VV 7	12074	273874	0.23%	0.009%
27	6.331	375	383	386	VV 10	15393	409789	0.34%	0.014%
28	6.379	386	391	399	VV 10	18276	571684	0.47%	0.019%
29	6.437	399	401	409	VV 9	9003	197769	0.16%	0.007%
30	6.502	409	412	417	PV 7	10696	156182	0.13%	0.005%
31	6.555	417	421	424	VV 6	12817	157122	0.13%	0.005%
32	6.614	424	431	465	VV	1069181	27924986	22.99%	0.938%
33	6.849	465	471	488	VV	1012981	21974460	18.09%	0.738%
34	6.967	488	491	504	VV 6	56528	1888411	1.55%	0.063%
35	7.073	504	509	522	VV 6	27871	1034714	0.85%	0.035%
36	7.167	522	525	532	VV 9	10031	286505	0.24%	0.010%
37	7.231	532	536	542	VV 9	13492	317964	0.26%	0.011%
38	7.320	542	551	559	VV 9	28958	889467	0.73%	0.030%
39	7.390	559	563	568	VV 8	10619	233255	0.19%	0.008%
40	7.437	568	571	573	VV 4	4871	55157	0.05%	0.002%
41	7.496	573	581	587	VV 4	12711	302624	0.25%	0.010%
42	7.573	587	594	619	VV	778589	18313367	15.08%	0.615%
43	7.749	619	624	637	VV	90408	1979601	1.63%	0.066%
44	7.843	637	640	644	VV 6	15596	310454	0.26%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	7.890	644	648	653	VV	8	14179	313944	0.26%	0.011%
46	7.955	653	659	672	VV	8	13206	528183	0.43%	0.018%
47	8.078	672	680	687	VV	8	12529	368229	0.30%	0.012%
48	8.155	687	693	724	VV		913224	25933938	21.35%	0.871%
49	8.373	724	730	749	VV		1444593	28563947	23.51%	0.959%
50	8.514	749	754	769	VV	7	54918	2011081	1.66%	0.068%
51	8.667	769	780	821	VV		832621	22490622	18.51%	0.755%
52	8.920	821	823	838	VV		17475	698593	0.58%	0.023%
53	9.067	838	848	851	VV		10555	341668	0.28%	0.011%
54	9.108	851	855	861	VV	9	10818	268371	0.22%	0.009%
55	9.161	861	864	871	VV	9	11010	246257	0.20%	0.008%
56	9.225	871	875	880	PV	8	8182	130797	0.11%	0.004%
57	9.296	880	887	890	VV	9	8929	221819	0.18%	0.007%
58	9.337	890	894	902	VV	9	8615	237249	0.20%	0.008%
59	9.437	902	911	924	VV	9	11127	496929	0.41%	0.017%
60	9.567	924	933	946	VV	9	18478	635054	0.52%	0.021%
61	9.672	946	951	954	VV	7	7212	135379	0.11%	0.005%
62	9.719	954	959	969	VV	7	9628	260334	0.21%	0.009%
63	9.802	969	973	977	VV	7	10616	149167	0.12%	0.005%
64	9.837	977	979	981	VV	3	5488	44814	0.04%	0.002%
65	9.884	981	987	994	VV	3	7307	201075	0.17%	0.007%
66	9.984	994	1004	1006	VV	7	33921	930988	0.77%	0.031%
67	10.031	1006	1012	1035	VV		322940	7357667	6.06%	0.247%
68	10.202	1035	1041	1046	VV	10	18296	494390	0.41%	0.017%
69	10.243	1046	1048	1056	VV	9	12940	357906	0.29%	0.012%
70	10.296	1056	1057	1064	VV	6	15164	230510	0.19%	0.008%
71	10.349	1064	1066	1075	VV	10	9740	211673	0.17%	0.007%
72	10.461	1075	1085	1089	VV	10	9592	317002	0.26%	0.011%
73	10.525	1089	1096	1103	VV	10	10197	241481	0.20%	0.008%
74	10.596	1103	1108	1112	PV	8	15079	312019	0.26%	0.010%
75	10.649	1112	1117	1121	VV	6	11128	209111	0.17%	0.007%
76	10.690	1121	1124	1135	VV	6	11705	290296	0.24%	0.010%
77	10.825	1135	1147	1153	VV	6	19526	852411	0.70%	0.029%
78	10.872	1153	1155	1163	VV	9	24747	609424	0.50%	0.020%
79	10.931	1163	1165	1171	VV	7	18844	309904	0.26%	0.010%
80	10.990	1171	1175	1178	VV	6	14385	265679	0.22%	0.009%
81	11.049	1178	1185	1192	VV	2	72907	1435671	1.18%	0.048%
82	11.114	1192	1196	1199	VV	6	11761	200730	0.17%	0.007%
83	11.208	1199	1212	1223	VV	6	20345	899873	0.74%	0.030%
84	11.302	1223	1228	1233	VV	2	71556	1207140	0.99%	0.041%
85	11.349	1233	1236	1244	VV	10	23032	544043	0.45%	0.018%
86	11.514	1244	1264	1285	VV		157441	5041347	4.15%	0.169%
87	11.684	1285	1293	1304	VV		33483	1138484	0.94%	0.038%
88	11.766	1304	1307	1311	VV	6	18627	278932	0.23%	0.009%
89	11.831	1311	1318	1321	VV	7	27020	666883	0.55%	0.022%
90	11.872	1321	1325	1330	VV	7	30684	638464	0.53%	0.021%
91	11.949	1330	1338	1342	VV		2800023	35852026	29.51%	1.204%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	11.996	1342	1346	1373	VV		3474826	55192379	45.43%	1.854%
93	12.178	1373	1377	1385	VV		38272	1421139	1.17%	0.048%
94	12.296	1385	1397	1408	VV		2557699	37656876	31.00%	1.265%
95	12.372	1408	1410	1416	VV	4	105119	2355403	1.94%	0.079%
96	12.425	1416	1419	1427	VV	7	88604	2358575	1.94%	0.079%
97	12.496	1427	1431	1436	VV	8	55263	1763372	1.45%	0.059%
98	12.543	1436	1439	1447	VV	10	68042	2240940	1.84%	0.075%
99	12.608	1447	1450	1457	VV	9	63578	2301032	1.89%	0.077%
100	12.678	1457	1462	1467	VV	2	149101	3468181	2.85%	0.116%
101	12.755	1467	1475	1490	VV	2	719885	27167649	22.36%	0.912%
102	12.860	1490	1493	1496	VV	2	234667	4249804	3.50%	0.143%
103	12.896	1496	1499	1506	VV	9	150247	4558279	3.75%	0.153%
104	13.013	1506	1519	1523	VV	4	159259	7393131	6.09%	0.248%
105	13.090	1523	1532	1550	VV		4510642	76689378	63.13%	2.576%
106	13.213	1550	1553	1558	VV	7	181515	4566124	3.76%	0.153%
107	13.260	1558	1561	1570	VV	8	231551	8050917	6.63%	0.270%
108	13.343	1570	1575	1589	VV	4	776746	28251009	23.26%	0.949%
109	13.437	1589	1591	1593	VV		317937	4415701	3.63%	0.148%
110	13.466	1593	1596	1601	VV	2	444545	8125540	6.69%	0.273%
111	13.519	1601	1605	1611	VV		332499	8351557	6.87%	0.281%
112	13.572	1611	1614	1616	VV	4	219595	3493633	2.88%	0.117%
113	13.631	1616	1624	1627	VV	8	254532	9936928	8.18%	0.334%
114	13.684	1627	1633	1636	VV		785629	12803419	10.54%	0.430%
115	13.719	1636	1639	1651	VV		753263	20751628	17.08%	0.697%
116	13.819	1651	1656	1660	VV	7	297158	8088617	6.66%	0.272%
117	13.866	1660	1664	1670	VV	2	508664	12919529	10.64%	0.434%
118	13.931	1670	1675	1680	VV		484986	11852268	9.76%	0.398%
119	13.972	1680	1682	1685	VV	4	384126	6442675	5.30%	0.216%
120	14.002	1685	1687	1689	VV		371150	5132408	4.22%	0.172%
121	14.031	1689	1692	1696	VV	2	438768	8352593	6.88%	0.281%
122	14.072	1696	1699	1705	VV	2	442757	9944387	8.19%	0.334%
123	14.131	1705	1709	1712	VV	6	328972	8140034	6.70%	0.273%
124	14.219	1712	1724	1727	VV		792958	21474834	17.68%	0.721%
125	14.266	1727	1732	1738	VV	2	1049512	21279078	17.52%	0.715%
126	14.325	1738	1742	1749	VV		3478407	48480325	39.91%	1.628%
127	14.384	1749	1752	1770	VV		5367257	83761432	68.95%	2.813%
128	14.519	1770	1775	1779	VV	4	422585	11931807	9.82%	0.401%
129	14.566	1779	1783	1787	VV	4	386873	10173907	8.38%	0.342%
130	14.625	1787	1793	1802	VV		2562805	38516361	31.71%	1.294%
131	14.696	1802	1805	1809	VV		591195	10811466	8.90%	0.363%
132	14.749	1809	1814	1817	VV	6	335135	9505151	7.82%	0.319%
133	14.778	1817	1819	1823	VV	5	312503	5660527	4.66%	0.190%
134	14.819	1823	1826	1833	VV	2	394579	10635560	8.76%	0.357%
135	14.884	1833	1837	1845	VV	9	325329	13121739	10.80%	0.441%
136	14.949	1845	1848	1857	VV	8	289304	10645800	8.76%	0.358%
137	15.049	1857	1865	1872	VV		721677	18836524	15.51%	0.633%
138	15.125	1872	1878	1888	VV		408661	14929791	12.29%	0.501%
139	15.231	1888	1896	1900	VV	10	307102	10863877	8.94%	0.365%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	15.313	1900	1910	1916	VV	2	350377	14340254	11.80%	0.482%
141	15.407	1916	1926	1936	VV	2	311978	16651396	13.71%	0.559%
142	15.531	1936	1947	1962	VV	5	412720	27065657	22.28%	0.909%
143	15.678	1962	1972	1979	VV		782995	21959969	18.08%	0.738%
144	15.737	1979	1982	1992	VV		261150	11370102	9.36%	0.382%
145	15.896	1992	2009	2024	VV	2	6228515	121478868	100.00%	4.080%
146	16.007	2024	2028	2031	VV		575871	9755994	8.03%	0.328%
147	16.043	2031	2034	2037	VV	5	318525	6301234	5.19%	0.212%
148	16.078	2037	2040	2046	VV	8	306520	9086605	7.48%	0.305%
149	16.160	2046	2054	2057	VV	10	309806	10923714	8.99%	0.367%
150	16.201	2057	2061	2064	VV	5	309590	7135893	5.87%	0.240%
151	16.266	2064	2072	2079	VV	2	608309	20426027	16.81%	0.686%
152	16.331	2079	2083	2087	VV	5	349206	8975639	7.39%	0.301%
153	16.390	2087	2093	2104	VV	5	362256	19701883	16.22%	0.662%
154	16.501	2104	2112	2118	VV	5	405861	18177509	14.96%	0.611%
155	16.607	2118	2130	2138	VV	3	582268	29141634	23.99%	0.979%
156	16.672	2138	2141	2145	VV	6	357894	8362126	6.88%	0.281%
157	16.707	2145	2147	2149	VV	3	354342	4822019	3.97%	0.162%
158	16.737	2149	2152	2160	VV	10	359808	13509723	11.12%	0.454%
159	16.807	2160	2164	2170	VV	8	368876	12133048	9.99%	0.408%
160	16.866	2170	2174	2177	VV	6	348944	7817198	6.44%	0.263%
161	16.931	2177	2185	2188	VV	5	453781	15187512	12.50%	0.510%
162	16.966	2188	2191	2197	VV	7	428342	13409740	11.04%	0.450%
163	17.060	2197	2207	2211	VV	7	408644	19395046	15.97%	0.651%
164	17.101	2211	2214	2216	VV	4	375392	6228322	5.13%	0.209%
165	17.160	2216	2224	2236	VV		4439423	73010373	60.10%	2.452%
166	17.278	2236	2244	2248	VV	6	423694	16636619	13.70%	0.559%
167	17.366	2248	2259	2262	VV	6	395982	18576119	15.29%	0.624%
168	17.419	2262	2268	2273	VV	9	392905	14284178	11.76%	0.480%
169	17.460	2273	2275	2278	VV	4	364549	6086120	5.01%	0.204%
170	17.519	2278	2285	2293	VV	4	377313	19280434	15.87%	0.648%
171	17.590	2293	2297	2303	VV	7	457287	14346615	11.81%	0.482%
172	17.637	2303	2305	2308	VV	4	398346	6922857	5.70%	0.233%
173	17.672	2308	2311	2315	VV	6	402890	10021145	8.25%	0.337%
174	17.725	2315	2320	2324	VV	8	407452	11651045	9.59%	0.391%
175	17.760	2324	2326	2332	VV	7	406720	12276026	10.11%	0.412%
176	17.819	2332	2336	2339	VV	3	419427	8966976	7.38%	0.301%
177	17.848	2339	2341	2354	VV	3	422457	21387112	17.61%	0.718%
178	17.954	2354	2359	2363	VV	7	440523	12158299	10.01%	0.408%
179	18.001	2363	2367	2371	VV	4	455679	12199180	10.04%	0.410%
180	18.060	2371	2377	2381	VV	7	443015	14404292	11.86%	0.484%
181	18.148	2381	2392	2401	VV	9	447653	28866873	23.76%	0.970%
182	18.231	2401	2406	2410	VV	3	443068	13106887	10.79%	0.440%
183	18.284	2410	2415	2421	VV	2	428332	14732903	12.13%	0.495%
184	18.348	2421	2426	2429	VV	4	407399	10075248	8.29%	0.338%
185	18.384	2429	2432	2434	VV	2	428263	7897935	6.50%	0.265%
186	18.425	2434	2439	2450	VV	3	583373	26701470	21.98%	0.897%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	18.519	2450	2455	2458	VV	8	390560	9383018	7.72%	0.315%
188	18.566	2458	2463	2473	VV	9	390982	19417996	15.98%	0.652%
189	18.631	2473	2474	2481	VV	7	358327	10657756	8.77%	0.358%
190	18.737	2481	2492	2498	VV	7	372490	20740205	17.07%	0.697%
191	18.866	2498	2514	2528	VV		3809433	96200045	79.19%	3.231%
192	18.989	2528	2535	2550	VV		2375198	60762101	50.02%	2.041%
193	19.089	2550	2552	2555	VV	4	334069	5413008	4.46%	0.182%
194	19.137	2555	2560	2566	VV	10	335150	12063524	9.93%	0.405%
195	19.184	2566	2568	2570	VV	3	326879	5066017	4.17%	0.170%
196	19.213	2570	2573	2576	VV	5	320458	6193193	5.10%	0.208%
197	19.278	2576	2584	2593	VV	5	335236	19084395	15.71%	0.641%
198	19.342	2593	2595	2604	VV	10	318971	12321758	10.14%	0.414%
199	19.431	2604	2610	2617	VV	9	355478	14261188	11.74%	0.479%
200	19.484	2617	2619	2629	VV	9	299732	12464073	10.26%	0.419%
201	19.637	2629	2645	2648	VV	9	385476	20975506	17.27%	0.705%
202	19.760	2648	2666	2672	VV	9	418220	33668573	27.72%	1.131%
203	19.825	2672	2677	2683	VV	10	403755	13636010	11.23%	0.458%
204	19.872	2683	2685	2695	VV	10	345129	14273438	11.75%	0.479%
205	19.960	2695	2700	2707	VV	10	309365	12187686	10.03%	0.409%
206	20.036	2707	2713	2719	VV	10	325416	13192791	10.86%	0.443%
207	20.089	2719	2722	2730	VV	10	293285	10958774	9.02%	0.368%
208	20.207	2730	2742	2749	VV	2	376442	20810039	17.13%	0.699%
209	20.331	2749	2763	2768	VV	2	350479	21897340	18.03%	0.735%
210	20.378	2768	2771	2774	VV	5	336335	7861419	6.47%	0.264%
211	20.419	2774	2778	2791	VV	5	362639	19802701	16.30%	0.665%
212	20.519	2791	2795	2816	VV	5	322342	25305974	20.83%	0.850%
213	20.654	2816	2818	2820	VV	3	278291	4652804	3.83%	0.156%
214	20.754	2820	2835	2840	VV	3	282596	18392701	15.14%	0.618%
215	20.872	2840	2855	2874	VV	10	416361	41028633	33.77%	1.378%
216	21.031	2874	2882	2902	VV	4	354839	27086275	22.30%	0.910%
217	21.195	2902	2910	2913	VV	10	296508	10298577	8.48%	0.346%
218	21.225	2913	2915	2920	VV	6	288356	6890138	5.67%	0.231%
219	21.272	2920	2923	2927	VV	6	277005	6694746	5.51%	0.225%
220	21.301	2927	2928	2930	VV	2	267155	3043690	2.51%	0.102%
221	21.348	2930	2936	2946	VV	2	279037	15262102	12.56%	0.513%
222	21.478	2946	2958	2980	VV	9	494208	39822673	32.78%	1.338%
223	21.654	2980	2988	3009	VV	4	321607	27293451	22.47%	0.917%
224	21.825	3009	3017	3019	VV	8	232749	8067987	6.64%	0.271%
225	21.854	3019	3022	3028	VV	8	245033	7538402	6.21%	0.253%
226	21.936	3028	3036	3042	VV	8	240252	11516690	9.48%	0.387%
227	22.019	3042	3050	3066	VV	8	353952	22324362	18.38%	0.750%
228	22.130	3066	3069	3073	VV	6	226806	5305819	4.37%	0.178%
229	22.183	3073	3078	3087	VV	6	232707	10731824	8.83%	0.360%
230	22.272	3087	3093	3099	VV	6	240596	10054217	8.28%	0.338%
231	22.330	3099	3103	3110	VV	10	225390	8448613	6.95%	0.284%
232	22.425	3110	3119	3127	VV	10	233039	13674604	11.26%	0.459%
233	22.483	3127	3129	3146	VV	10	222234	13510704	11.12%	0.454%
234	22.601	3146	3149	3154	VV	7	216281	6220689	5.12%	0.209%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	22.648	3154	3157	3174	VV	7	208942	14094727	11.60%	0.473%
236	22.772	3174	3178	3189	VV	7	197462	10178333	8.38%	0.342%
237	22.848	3189	3191	3193	VV	3	193880	2688682	2.21%	0.090%
238	22.889	3193	3198	3202	VV	8	203105	5774413	4.75%	0.194%
239	23.007	3202	3218	3227	VV	8	226274	19503350	16.05%	0.655%
240	23.083	3227	3231	3235	VV	7	217674	5570559	4.59%	0.187%
241	23.125	3235	3238	3250	VV	7	204933	10425805	8.58%	0.350%
242	23.213	3250	3253	3256	VV	5	185951	3492749	2.88%	0.117%
243	23.242	3256	3258	3264	VV	7	189473	5527589	4.55%	0.186%
244	23.313	3264	3270	3277	VV	7	194356	8396676	6.91%	0.282%
245	23.389	3277	3283	3289	VV	7	198878	8136210	6.70%	0.273%
246	23.442	3289	3292	3299	VV	9	187461	6337413	5.22%	0.213%
247	23.501	3299	3302	3313	VV	9	186332	8318234	6.85%	0.279%
248	23.595	3313	3318	3323	VV	9	171845	5991251	4.93%	0.201%
249	23.642	3323	3326	3337	VV	9	167348	7364577	6.06%	0.247%
250	23.730	3337	3341	3343	VV	5	165072	3819888	3.14%	0.128%
251	23.807	3343	3354	3367	VV	5	182695	14075562	11.59%	0.473%
252	23.895	3367	3369	3373	VV	5	170609	3814649	3.14%	0.128%
253	24.013	3373	3389	3401	VV	5	194578	16880009	13.90%	0.567%
254	24.095	3401	3403	3405	VV	3	157706	2145068	1.77%	0.072%
255	24.119	3405	3407	3409	VV	3	164971	2510399	2.07%	0.084%
256	24.172	3409	3416	3419	VV	9	164095	5494919	4.52%	0.185%
257	24.207	3419	3422	3424	VV	4	162857	3024912	2.49%	0.102%
258	24.248	3424	3429	3432	VV	7	164182	4047406	3.33%	0.136%
259	24.295	3432	3437	3440	VV	7	171393	4748221	3.91%	0.159%
260	24.324	3440	3442	3447	VV	6	164919	4215740	3.47%	0.142%
261	24.371	3447	3450	3454	VV	6	169363	3861321	3.18%	0.130%
262	24.407	3454	3456	3473	VV	6	162856	10259720	8.45%	0.345%
263	24.536	3473	3478	3486	VV	6	153158	6376311	5.25%	0.214%
264	24.589	3486	3487	3492	VV	5	140319	3287655	2.71%	0.110%
265	24.760	3492	3516	3536	VV	5	289902	28518122	23.48%	0.958%
266	24.889	3536	3538	3540	VV	3	135724	1896144	1.56%	0.064%
267	24.936	3540	3546	3552	VBA	3	146737	6104310	5.02%	0.205%

Sum of corrected areas: 2977313297

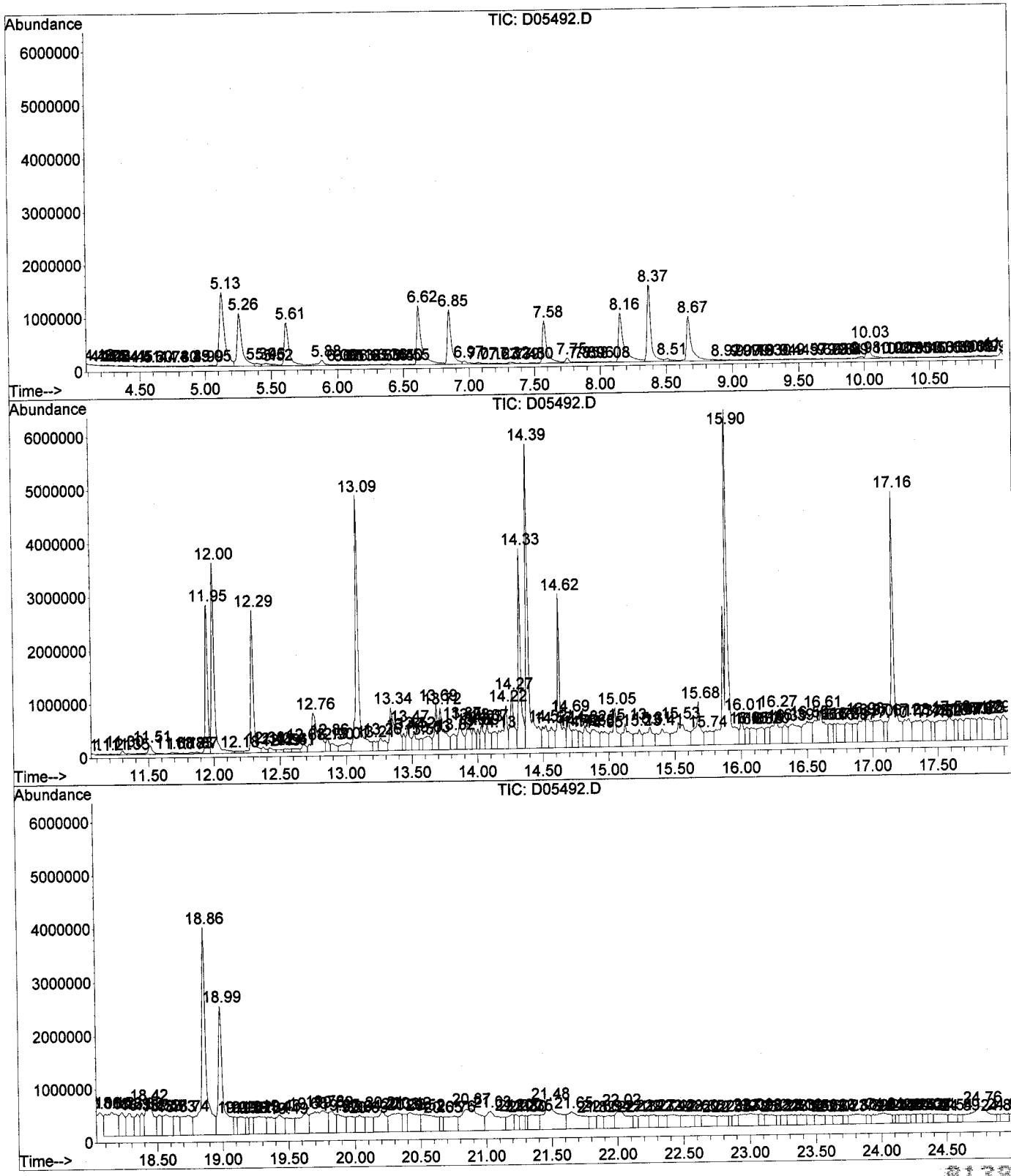
LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19
Operator: SV
Sample : F4XP5
Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

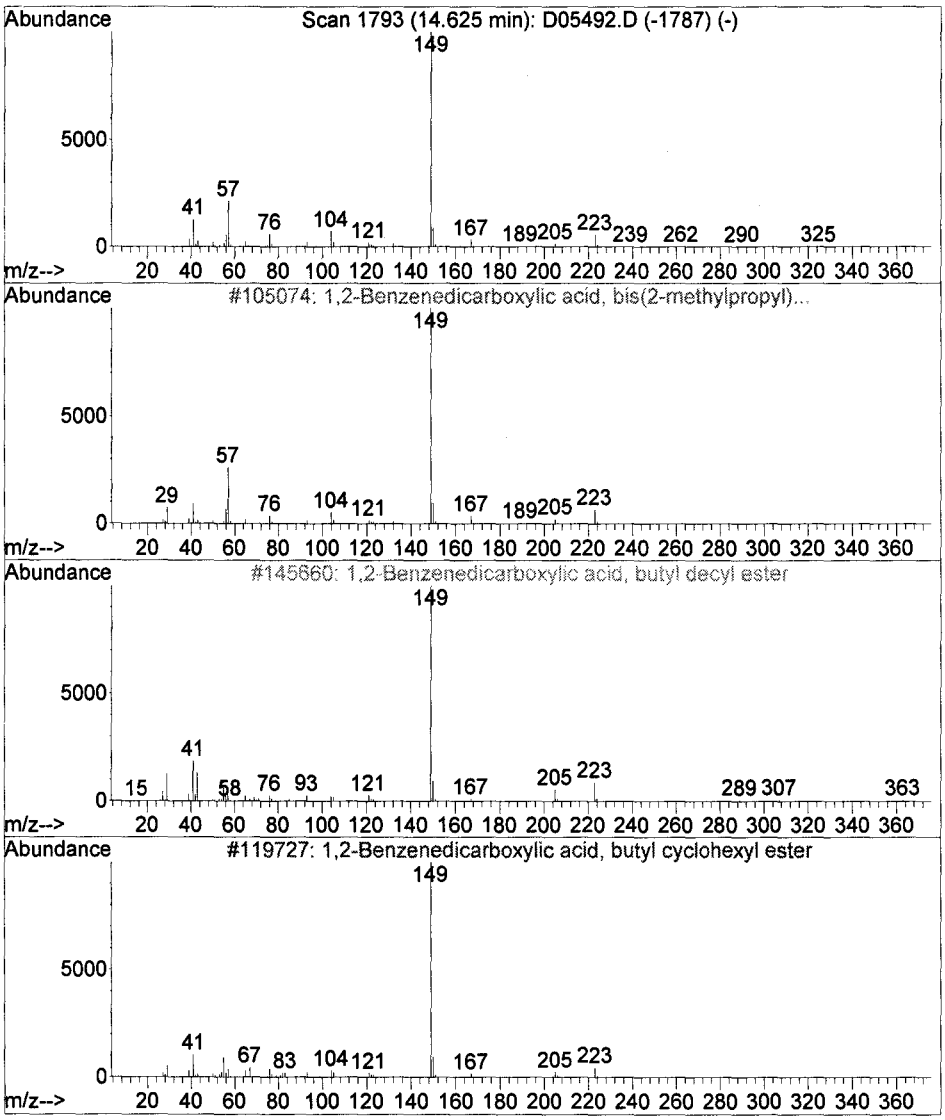
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

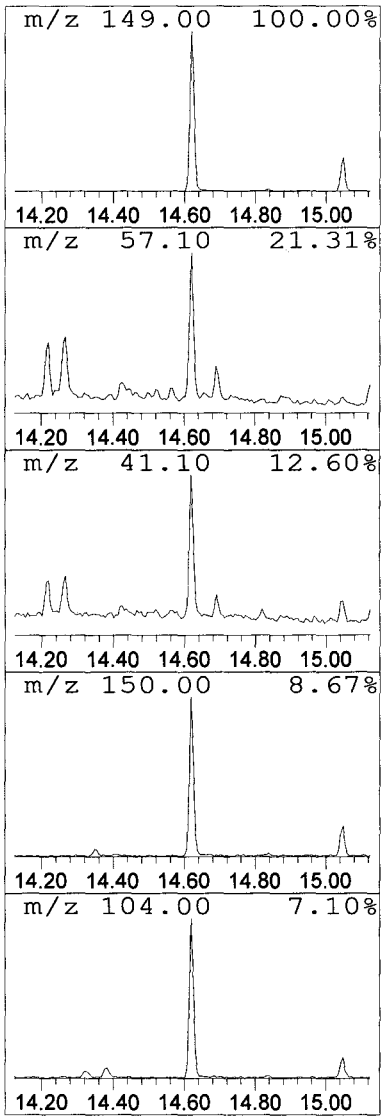
****

Peak Number 1 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	15.89 ug/L	38516400	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	86
2	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-19-0	78
3	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
4	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	78





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19
Operator: SV
Sample : F4XP5
Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

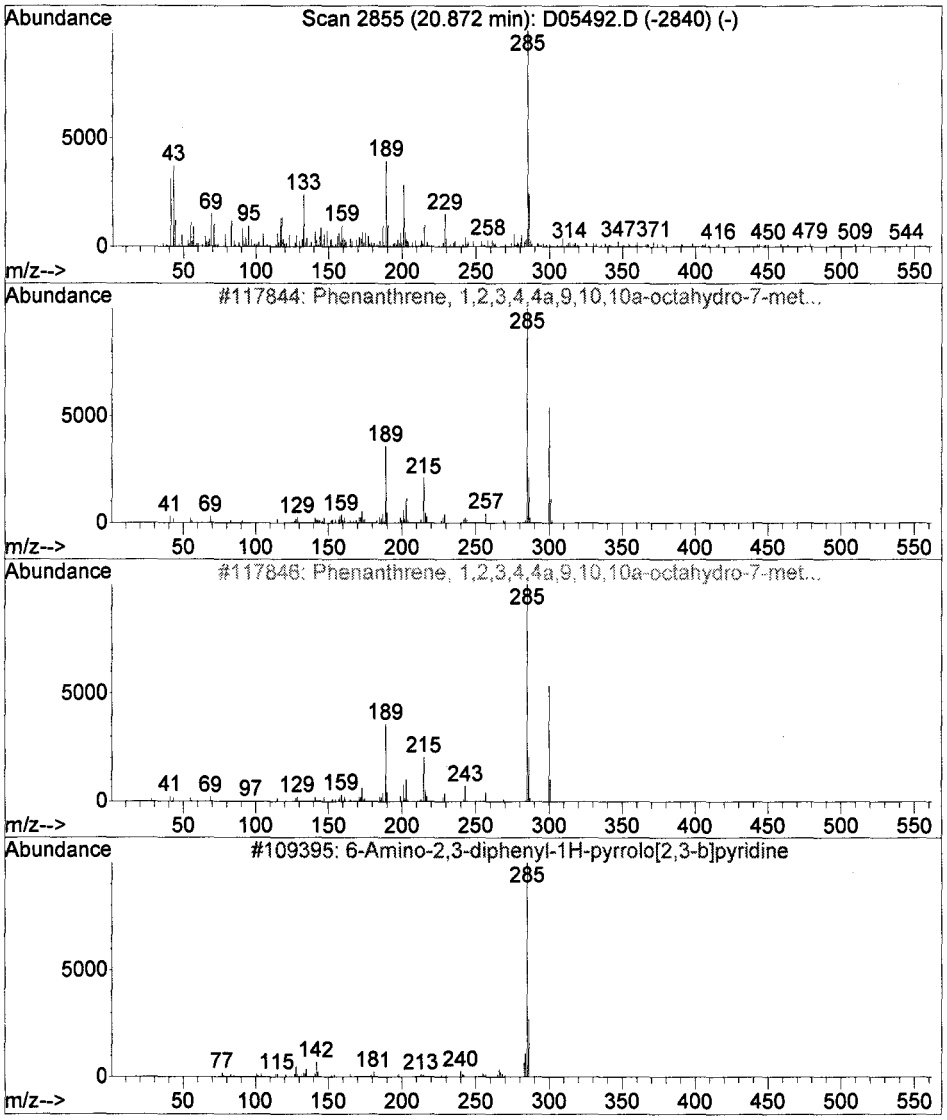
****

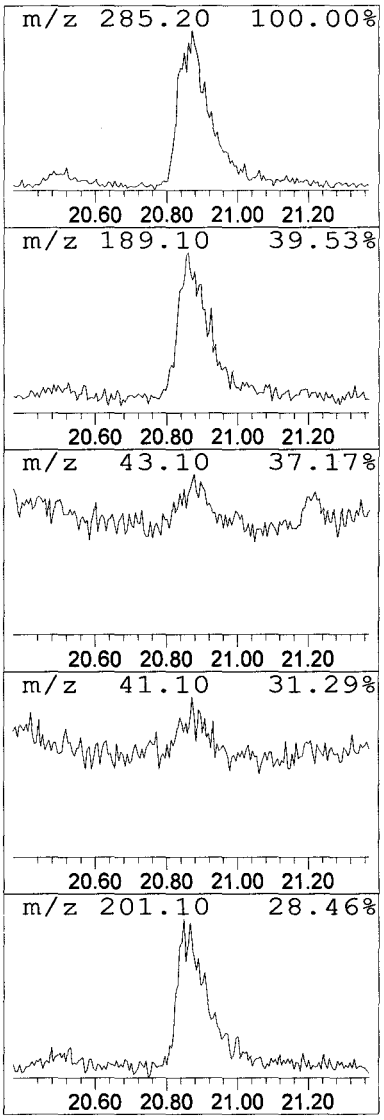
Peak Number 2 Phenanthrene, 1,2,3,4,4a,9,... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	13.50 ug/L	41028600	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,2,3,4,4a,9,10,10...	300	C21H32O	015340-83-7	45
2	Phenanthrene, 1,2,3,4,4a,9,10,10...	300	C21H32O	015340-83-7	45
3	6-Amino-2,3-diphenyl-1H-pyrrolo[...	285	C19H15N3	055463-74-6	43
4	Morphinan-6-one, 3-methoxy-17-me...	285	C18H23NO2	002246-20-0	43
5	Benzo[d,E]isoindolo[2,1-a]quinaz...	285	C18H11N3O	331269-09-1	43





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

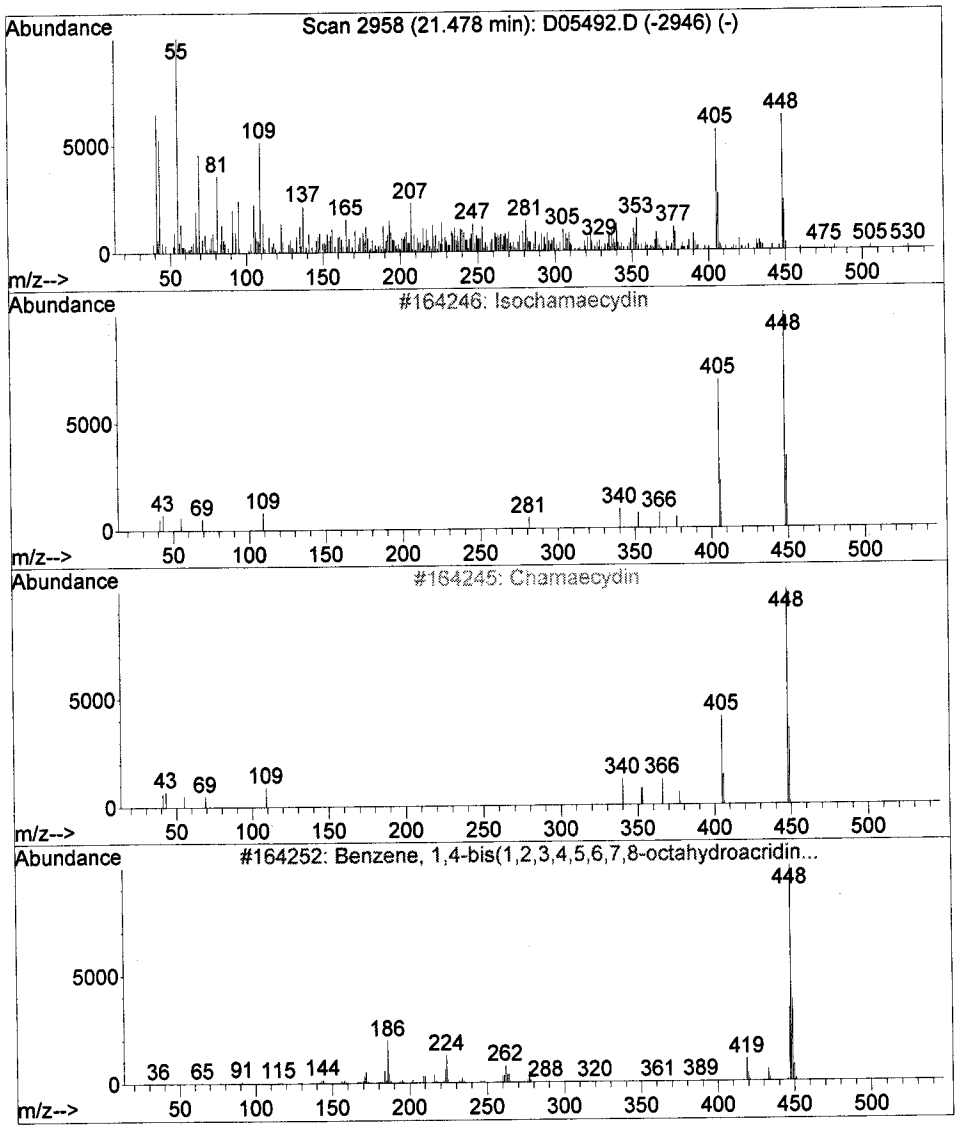
12/15/11

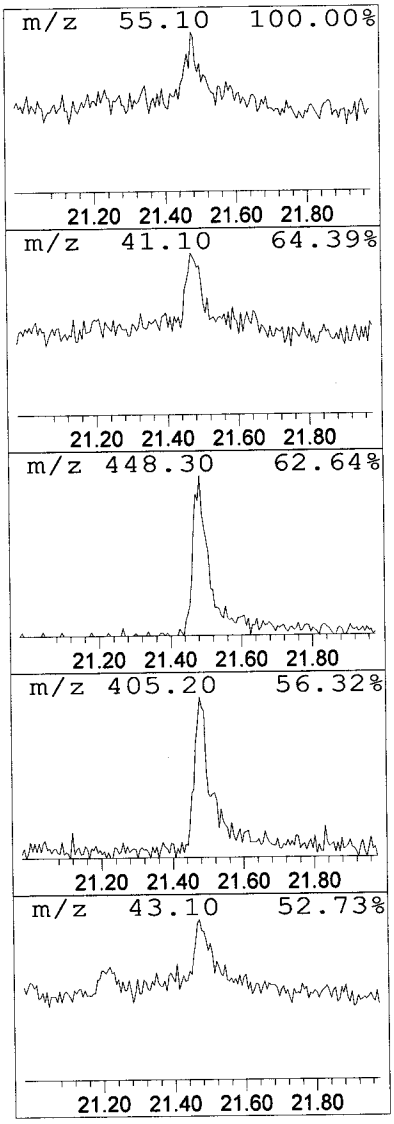
****

Peak Number 3 Isochamaecydin Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	13.11 ug/L	39822700	Perylene-d12	18.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isochamaecydin	448	C30H40O3	086699-53-8	93
2	Chamaecydin	448	C30H40O3	086746-82-9	43
3	Benzene, 1,4-bis(1,2,3,4,5,6,7,8...	448	C32H36N2	1000162-50-7	25
4	Silane, dimethylphenyl[(6a,7,8,1...	448	C29H40O2Si	077590-67-1	12
5	1'H-Androst-16-eno[17,16-g]indol...	405	C27H35NO2	056196-20-4	12





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05492.D
Acq On : 12/14/11 17:19 Operator: SV
Sample : F4XP5 Inst : D-5973
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,2-Benzenedicarb...	14.62	15.9	ug/L	38516400	4	14.33	48480300	20.0
Phenanthrene, 1,2...	20.87	13.5	ug/L	41028600	6	18.99	60762100	20.0
Isochamaecydin	21.48	13.1	ug/L	39822700	6	18.99	60762100	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.07

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05493

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

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	160	U
108-95-2	Phenol	160	U
111-44-4	Bis(2-chloroethyl)ether	160	U
95-57-8	2-Chlorophenol	160	U
95-48-7	2-Methylphenol	160	U
108-60-1	2,2'-Oxybis(1-chloropropane)	160	U
98-86-2	Acetophenone	160	U
106-44-5	4-Methylphenol	160	U
621-64-7	N-Nitroso-di-n-propylamine	160	U
67-72-1	Hexachloroethane	160	U
98-95-3	Nitrobenzene	160	U
78-59-1	Isophorone	160	U
88-75-5	2-Nitrophenol	160	U
105-67-9	2,4-Dimethylphenol	160	U
111-91-1	Bis(2-chloroethoxy)methane	160	U
120-83-2	2,4-Dichlorophenol	160	U
91-20-3	Naphthalene	160	U
106-47-8	4-Chloroaniline	160	U
87-68-3	Hexachlorobutadiene	160	U
105-60-2	Caprolactam	160	U
59-50-7	4-Chloro-3-methylphenol	160	U
91-57-6	2-Methylnaphthalene	160	U
77-47-4	Hexachlorocyclopentadiene	160	U
88-06-2	2,4,6-Trichlorophenol	160	U
95-95-4	2,4,5-Trichlorophenol	160	U
92-52-4	1,1'-Biphenyl	160	U
91-58-7	2-Chloronaphthalene	160	U
88-74-4	2-Nitroaniline	320	U
131-11-3	Dimethylphthalate	160	U
606-20-2	2,6-Dinitrotoluene	160	U
208-96-8	Acenaphthylene	160	U
99-09-2	3-Nitroaniline	320	U
83-32-9	Acenaphthene	160	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.07

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05493

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

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	320	U
100-02-7	4-Nitrophenol	320	U
132-64-9	Dibenzofuran	160	U
121-14-2	2,4-Dinitrotoluene	160	U
84-66-2	Diethylphthalate	160	U
86-73-7	Fluorene	160	U
7005-72-3	4-Chlorophenyl-phenylether	160	U
100-01-6	4-Nitroaniline	320	U
534-52-1	4,6-Dinitro-2-methylphenol	320	U
86-30-6	N-Nitrosodiphenylamine 1	160	U
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U
101-55-3	4-Bromophenyl-phenylether	160	U
118-74-1	Hexachlorobenzene	160	U
1912-24-9	Atrazine	160	U
87-86-5	Pentachlorophenol	320	U
85-01-8	Phenanthrene	160	U
120-12-7	Anthracene	160	U
86-74-8	Carbazole	160	U
84-74-2	Di-n-butylphthalate	79	J
206-44-0	Fluoranthene	160	U
129-00-0	Pyrene	160	U
85-68-7	Butylbenzylphthalate	160	U
91-94-1	3,3'-Dichlorobenzidine	160	U
56-55-3	Benzo(a)anthracene	160	U
218-01-9	Chrysene	160	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	U
117-84-0	Di-n-octylphthalate	160	U
205-99-2	Benzo(b)fluoranthene	160	U
207-08-9	Benzo(k)fluoranthene	160	U
50-32-8	Benzo(a)pyrene	160	U
193-39-5	Indeno(1,2,3-cd)pyrene	160	U
53-70-3	Dibenzo(a,h)anthracene	160	U
191-24-2	Benzo(g,h,i)perylene	160	U
58-90-2	2,3,4,6-Tetrachlorophenol	160	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.07

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05493

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

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.27	280	J
02		Unknown-02	14.62	420	J
03		Unknown-03	20.21	310	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05493.D
Acq On : 12/14/11 17:49
Sample : F4XP6
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 15 10:13:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	3412923	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	15607654	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	9758201	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	16748800	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	15854328	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	14443318	20.0000 ug/L	0.00

System Monitoring Compounds

3) Phenol-d5	5.12	99	14908791	29.9007 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 74.75%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5496131	26.9237 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 67.31%		
7) 2-Chlorophenol-d4	5.26	132	6709737	28.4080 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 71.02%		
12) 4-Methylphenol-d8	6.61	113	6519965	30.2872 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 75.72%		
17) Nitrobenzene-d5	6.85	128	3439102	29.5414 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 73.85%		
20) 2-Nitrophenol-d4	7.57	143	3514315	31.6939 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 79.23%		
24) 2,4-Dichlorophenol-d3	8.15	165	6014376	29.9442 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 74.86%		
27) 4-Chloroaniline-d4	8.67	131	6223922	27.8137 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 69.53%		
41) Acenaphthylene-d8	12.00	160	27792409	30.7161 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 76.79%		
43) Dimethylphthalate-d6	11.95	166	19751704	32.3108 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 80.78%		
49) 4-Nitrophenol-d4	12.75	143	3256524	37.6895 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 94.22%		
56) Fluorene-d10	13.09	176	17176475	29.4176 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 73.54%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1722173	32.2693 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 80.67%		
68) Anthracene-d10	14.39	188	27946764	31.1059 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 77.76%		
79) Pyrene-d10	15.90	212	29738820	32.5324 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 81.33%		
85) Benzo(a)pyrene-d12	18.86	264	20492235	30.4120 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 76.03%		

Target Compounds					Qvalue
71) Di-n-butylphthalate	15.05	149	2466034	2.4647 ug/L	96

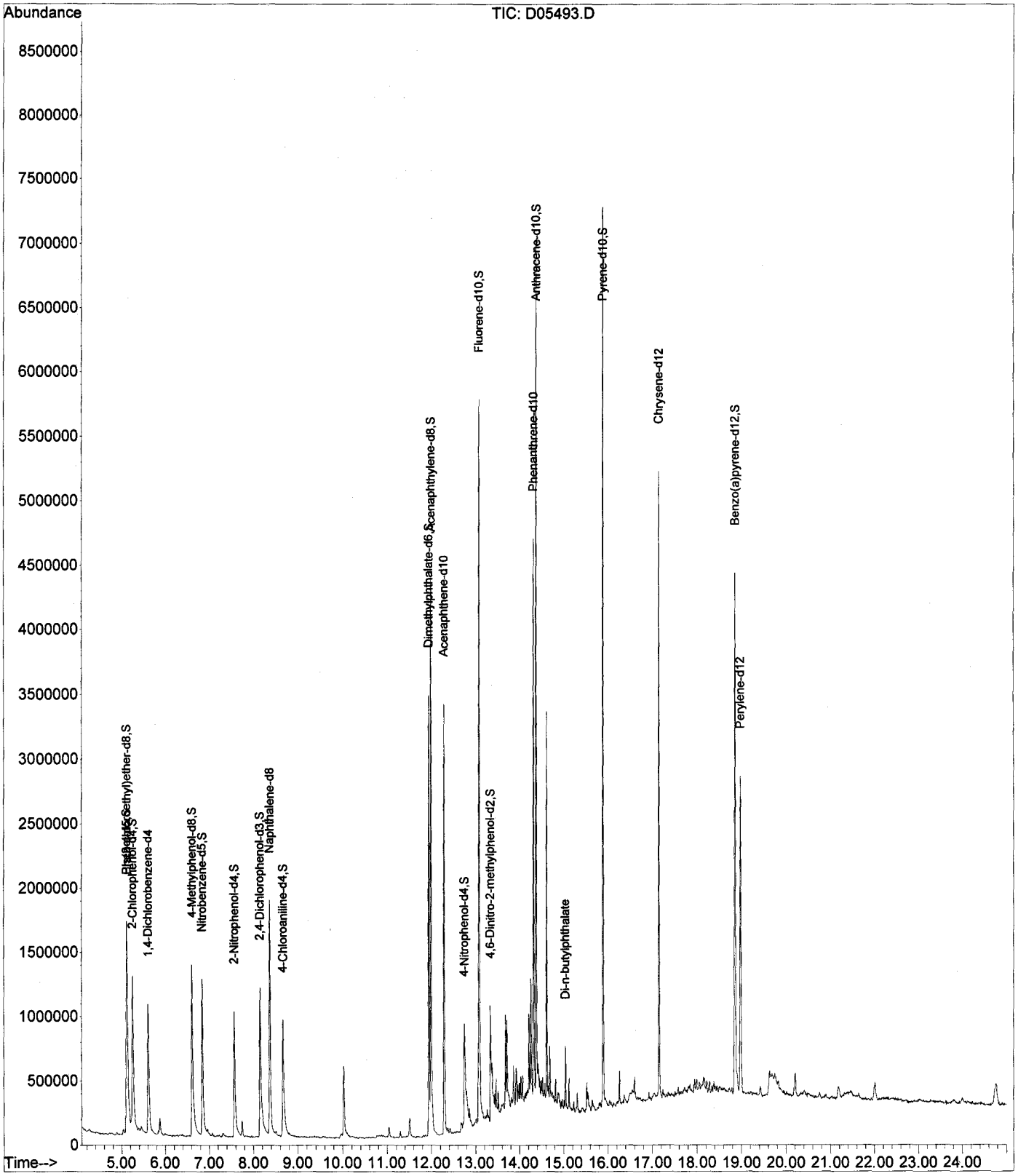
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8147

Quantitation Report (QT Reviewed)

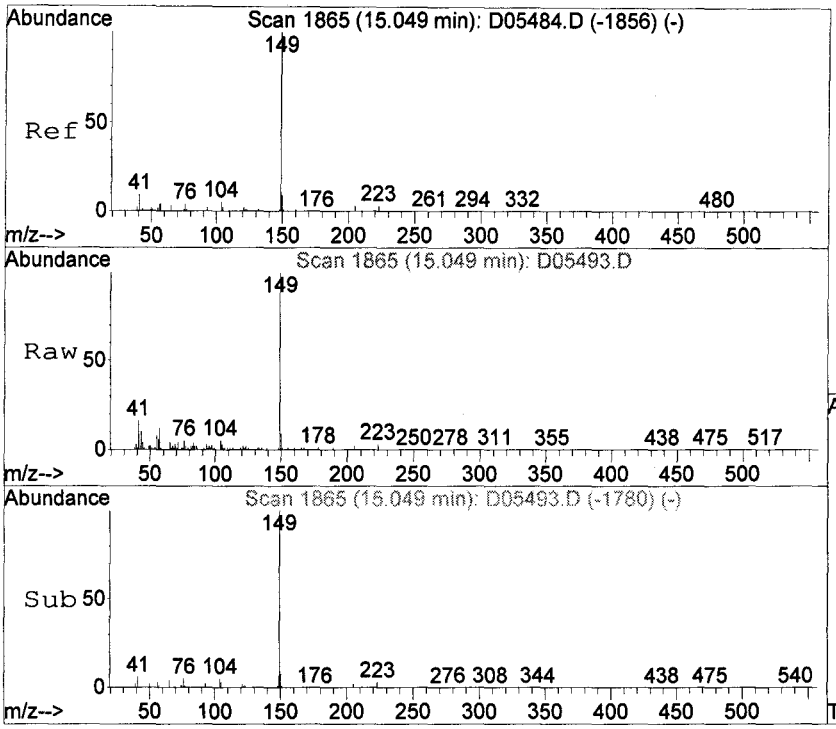
Data File: C:\MSDCHEM\1\DATA\D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 10:13:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



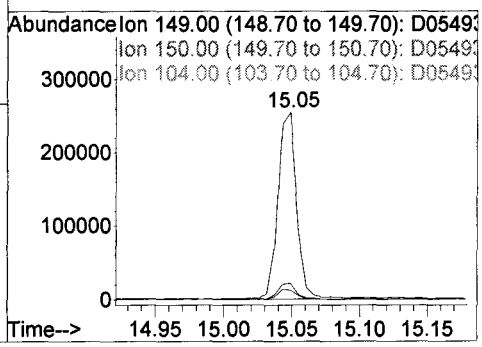
Data File : C:\MSDCHEM\1\DATA\D05493.D
Acq On : 12/14/11 17:49
Sample : F4XP6
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 11
Operator: SV
Inst : D-5973
Multiplr: 1.00



#71
Di-n-butylphthalate
Concen: 2.46 ug/L
RT: 15.05 min Scan# 1865
Delta R.T. 0.00 min
Integration Range:
Scan=1854 to 1876
R.T.= 14.98 to 15.11 (min)
Tgt Ion:149 Resp: 2466034

Ion	Ratio	Lower	Upper
149	100		
150	8.6	8.6	12.8
104	5.6	4.6	7.0



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.144	3	11	19	BV	6424	144278	0.17%	0.005%
2	4.261	19	31	42	PV	22809	760211	0.88%	0.027%
3	4.338	42	44	49	VV 6	8221	127641	0.15%	0.005%
4	4.379	49	51	55	VV 5	5230	103712	0.12%	0.004%
5	4.414	55	57	61	VV 5	9448	145964	0.17%	0.005%
6	4.449	61	63	67	VV 5	8391	141758	0.16%	0.005%
7	4.485	67	69	72	VV 4	8422	94639	0.11%	0.003%
8	4.514	72	74	80	PV 7	7447	110498	0.13%	0.004%
9	4.567	80	83	85	VV 4	10114	122138	0.14%	0.004%
10	4.591	85	87	89	VV 3	5490	45240	0.05%	0.002%
11	4.614	89	91	92	VV 2	6941	68490	0.08%	0.002%
12	4.632	92	94	99	VV 6	9858	163565	0.19%	0.006%
13	4.673	99	101	103	VV 3	4961	41918	0.05%	0.002%
14	4.726	103	110	114	PV 10	14044	336170	0.39%	0.012%
15	4.761	114	116	130	VV 10	11634	417268	0.48%	0.015%
16	4.891	130	138	148	VV 10	22063	671296	0.77%	0.024%
17	4.955	148	149	159	VV 10	9889	322871	0.37%	0.012%
18	5.043	159	164	170	VV 7	47091	1124397	1.30%	0.040%
19	5.126	170	178	192	VV 3	1656643	44200665	50.98%	1.586%
20	5.255	192	200	220	VV	1219697	31197960	35.98%	1.119%
21	5.391	220	223	229	VV 6	59611	1561983	1.80%	0.056%
22	5.455	229	234	241	VV 8	71687	2216478	2.56%	0.080%
23	5.508	241	243	251	VV 9	37742	1058381	1.22%	0.038%
24	5.614	251	261	290	VV	1019609	25127821	28.98%	0.901%
25	5.802	290	293	295	VV 4	19444	325957	0.38%	0.012%
26	5.843	295	300	302	VV 2	43195	810587	0.93%	0.029%
27	5.885	302	307	319	VV 2	136287	3124398	3.60%	0.112%
28	5.996	319	326	330	VV 9	22526	557083	0.64%	0.020%
29	6.038	330	333	337	VV 5	15801	285998	0.33%	0.010%
30	6.067	337	338	344	VV 6	7869	175975	0.20%	0.006%
31	6.120	344	347	349	VV 4	7413	105701	0.12%	0.004%
32	6.143	349	351	355	VV 4	6438	85945	0.10%	0.003%
33	6.179	355	357	362	VV 6	10177	156248	0.18%	0.006%
34	6.249	362	369	372	VV 9	7865	164640	0.19%	0.006%
35	6.285	372	375	378	VV 5	10767	143800	0.17%	0.005%
36	6.338	378	384	389	VV 10	14335	360138	0.42%	0.013%
37	6.390	389	393	395	VV 5	15307	239118	0.28%	0.009%
38	6.414	395	397	399	VV 3	7390	72033	0.08%	0.003%
39	6.438	399	401	403	VV 3	6677	67427	0.08%	0.002%
40	6.455	403	404	407	VV 3	3869	30122	0.03%	0.001%
41	6.514	407	414	416	PV 7	6401	133743	0.15%	0.005%
42	6.555	416	421	423	VV 5	9227	143094	0.17%	0.005%
43	6.573	423	424	426	VV 2	4244	38109	0.04%	0.001%
44	6.614	426	431	464	VV	1332993	32315674	37.27%	1.159%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.849	464	471	488	VV		1216414	25683017	29.62%	0.921%
46	6.967	488	491	495	VV	5	57335	1131798	1.31%	0.041%
47	7.002	495	497	506	VV	9	32362	763139	0.88%	0.027%
48	7.073	506	509	518	VV	9	31116	666814	0.77%	0.024%
49	7.137	518	520	525	VV	6	6505	143670	0.17%	0.005%
50	7.190	525	529	533	VV	6	12960	283068	0.33%	0.010%
51	7.232	533	536	541	VV	7	16683	258944	0.30%	0.009%
52	7.273	541	543	544	VV	2	6099	43380	0.05%	0.002%
53	7.314	544	550	558	VV	9	28828	828721	0.96%	0.030%
54	7.373	558	560	565	VV	6	9818	169984	0.20%	0.006%
55	7.408	565	566	569	VV	3	5377	48963	0.06%	0.002%
56	7.455	569	574	578	VV	8	8188	116892	0.13%	0.004%
57	7.496	578	581	585	VV	7	8268	128940	0.15%	0.005%
58	7.573	585	594	618	VV		977884	21751595	25.09%	0.780%
59	7.749	618	624	633	VV		127440	2361704	2.72%	0.085%
60	7.814	633	635	640	VV	6	12593	240443	0.28%	0.009%
61	7.855	640	642	645	VV	4	13796	191285	0.22%	0.007%
62	7.896	645	649	657	VV	4	10157	301907	0.35%	0.011%
63	7.955	657	659	663	VV	5	12374	169211	0.20%	0.006%
64	7.990	663	665	671	VV	7	8321	149654	0.17%	0.005%
65	8.061	671	677	680	VV	8	10535	236693	0.27%	0.008%
66	8.090	680	682	685	VV	4	11158	129575	0.15%	0.005%
67	8.155	685	693	723	VV		1147367	30238272	34.87%	1.085%
68	8.373	723	730	749	VV		1814606	35119455	40.50%	1.260%
69	8.508	749	753	763	VV	4	54669	1545964	1.78%	0.055%
70	8.579	763	765	769	VV	5	24015	442388	0.51%	0.016%
71	8.667	769	780	812	VV		915437	23930749	27.60%	0.859%
72	8.867	812	814	819	VV	6	20347	447390	0.52%	0.016%
73	8.908	819	821	824	VV	4	19965	240456	0.28%	0.009%
74	8.937	824	826	835	VV	10	15576	457208	0.53%	0.016%
75	9.008	835	838	846	VV	10	12883	354829	0.41%	0.013%
76	9.067	846	848	852	VV	5	11397	220990	0.25%	0.008%
77	9.102	852	854	860	VV	7	9529	262003	0.30%	0.009%
78	9.149	860	862	872	VV	7	13416	338953	0.39%	0.012%
79	9.220	872	874	877	VV	4	7001	100360	0.12%	0.004%
80	9.249	877	879	881	VV	3	6762	65004	0.07%	0.002%
81	9.273	881	883	884	VV	2	11568	99077	0.11%	0.004%
82	9.314	884	890	895	VV	10	9560	274905	0.32%	0.010%
83	9.373	895	900	904	VV	7	15410	287822	0.33%	0.010%
84	9.414	904	907	908	VV	3	14020	124631	0.14%	0.004%
85	9.431	908	910	912	VV	3	12905	135815	0.16%	0.005%
86	9.449	912	913	926	VV	3	13197	362634	0.42%	0.013%
87	9.537	926	928	930	VV	3	10464	112921	0.13%	0.004%
88	9.567	930	933	937	VV	5	19244	376473	0.43%	0.014%
89	9.608	937	940	946	VV	8	12687	263046	0.30%	0.009%
90	9.649	946	947	954	VV	7	7777	164613	0.19%	0.006%
91	9.714	954	958	961	VV	6	9960	171270	0.20%	0.006%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.755	961	965	969	VV	6	5592	111272	0.13%	0.004%
93	9.796	969	972	974	VV	4	5429	78711	0.09%	0.003%
94	9.831	974	978	979	VV	4	6233	86388	0.10%	0.003%
95	9.855	979	982	984	VV	4	10680	120368	0.14%	0.004%
96	9.878	984	986	989	VV	4	7843	120870	0.14%	0.004%
97	9.908	989	991	994	VV	4	6925	70189	0.08%	0.003%
98	9.978	994	1003	1006	PV	9	35789	954880	1.10%	0.034%
99	10.031	1006	1012	1030	VV		554369	11582000	13.36%	0.416%
100	10.143	1030	1031	1036	VV	5	21978	339817	0.39%	0.012%
101	10.220	1036	1044	1046	VV	8	14112	464827	0.54%	0.017%
102	10.249	1046	1049	1055	VV	7	13845	317192	0.37%	0.011%
103	10.290	1055	1056	1068	VV	10	9735	295300	0.34%	0.011%
104	10.373	1068	1070	1071	VV	2	8032	58509	0.07%	0.002%
105	10.390	1071	1073	1078	VV	6	10657	189991	0.22%	0.007%
106	10.426	1078	1079	1088	VV	9	7422	170806	0.20%	0.006%
107	10.537	1088	1098	1102	PV	9	7446	175912	0.20%	0.006%
108	10.567	1102	1103	1105	VV	2	7030	50616	0.06%	0.002%
109	10.584	1105	1106	1111	VV	5	10427	166489	0.19%	0.006%
110	10.678	1111	1122	1130	VV	5	9259	359812	0.41%	0.013%
111	10.784	1130	1140	1144	VV	5	19727	613017	0.71%	0.022%
112	10.820	1144	1146	1149	VV	4	21715	302541	0.35%	0.011%
113	10.843	1149	1150	1152	VV	2	18688	194504	0.22%	0.007%
114	10.878	1152	1156	1159	VV	6	25273	452955	0.52%	0.016%
115	10.920	1159	1163	1173	VV	6	19017	654007	0.75%	0.023%
116	11.008	1173	1178	1180	VV	6	14779	293885	0.34%	0.011%
117	11.049	1180	1185	1197	VV		84443	1767514	2.04%	0.063%
118	11.137	1197	1200	1204	VV	6	8058	142826	0.16%	0.005%
119	11.208	1204	1212	1216	PV	10	10966	260530	0.30%	0.009%
120	11.237	1216	1217	1221	VV	4	10368	110271	0.13%	0.004%
121	11.302	1221	1228	1233	VV	4	54610	906043	1.04%	0.033%
122	11.361	1233	1238	1240	VV	6	11832	212128	0.24%	0.008%
123	11.384	1240	1242	1248	VV	7	10565	262352	0.30%	0.009%
124	11.443	1248	1252	1255	VV	6	15248	315092	0.36%	0.011%
125	11.514	1255	1264	1275	VV		152082	3353983	3.87%	0.120%
126	11.584	1275	1276	1279	VV	3	8168	100386	0.12%	0.004%
127	11.614	1279	1281	1288	VV	7	10403	152069	0.18%	0.005%
128	11.672	1288	1291	1296	PV	6	12574	202005	0.23%	0.007%
129	11.714	1296	1298	1310	VV	6	9861	234621	0.27%	0.008%
130	11.825	1310	1317	1321	VV	10	15739	347676	0.40%	0.012%
131	11.872	1321	1325	1329	VV	7	19592	342297	0.39%	0.012%
132	11.949	1329	1338	1342	VV		3462725	43124468	49.74%	1.547%
133	11.996	1342	1346	1369	VV		4250508	63403228	73.12%	2.275%
134	12.143	1369	1371	1378	VV	8	26465	618245	0.71%	0.022%
135	12.231	1378	1386	1388	VV	9	27378	814087	0.94%	0.029%
136	12.296	1388	1397	1407	VV		3236724	43518849	50.19%	1.561%
137	12.378	1407	1411	1415	VV	7	70322	1451977	1.67%	0.052%
138	12.425	1415	1419	1427	VV	9	65811	1840926	2.12%	0.066%
139	12.490	1427	1430	1433	VV	5	36209	627837	0.72%	0.023%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.543	1433	1439	1441	VV	7	39222	955525	1.10%	0.034%
141	12.584	1441	1446	1448	VV	6	44654	972060	1.12%	0.035%
142	12.608	1448	1450	1452	VV	3	38886	405965	0.47%	0.015%
143	12.631	1452	1454	1458	VV	5	40998	811057	0.94%	0.029%
144	12.684	1458	1463	1467	VV	3	108894	2539242	2.93%	0.091%
145	12.749	1467	1474	1481	VV		895240	21200303	24.45%	0.761%
146	12.802	1481	1483	1490	VV	2	345183	7846926	9.05%	0.282%
147	12.861	1490	1493	1505	VV	2	213988	6846850	7.90%	0.246%
148	12.943	1505	1507	1509	VV	2	91406	1132059	1.31%	0.041%
149	12.967	1509	1511	1513	VV	3	98587	1249715	1.44%	0.045%
150	13.014	1513	1519	1522	VV	7	138980	3912969	4.51%	0.140%
151	13.090	1522	1532	1543	VV		5541334	81591905	94.10%	2.927%
152	13.161	1543	1544	1550	VV	4	189668	4001844	4.62%	0.144%
153	13.208	1550	1552	1555	VV	4	153862	2763215	3.19%	0.099%
154	13.237	1555	1557	1559	VV	3	159185	2004720	2.31%	0.072%
155	13.261	1559	1561	1570	VV	7	206312	6388422	7.37%	0.229%
156	13.343	1570	1575	1579	VV	2	977199	17262490	19.91%	0.619%
157	13.378	1579	1581	1589	VV	2	557218	13399830	15.45%	0.481%
158	13.437	1589	1591	1593	VV		320832	4091808	4.72%	0.147%
159	13.466	1593	1596	1601	VV		427360	7283042	8.40%	0.261%
160	13.519	1601	1605	1611	VV		341393	8408042	9.70%	0.302%
161	13.566	1611	1613	1614	VV	2	206565	2396350	2.76%	0.086%
162	13.596	1614	1618	1620	VV	3	239121	4221388	4.87%	0.151%
163	13.631	1620	1624	1627	VV	5	249427	6154114	7.10%	0.221%
164	13.684	1627	1633	1636	VV		876907	13582983	15.67%	0.487%
165	13.719	1636	1639	1651	VV		842543	21434063	24.72%	0.769%
166	13.819	1651	1656	1659	VV	6	292946	7766815	8.96%	0.279%
167	13.866	1659	1664	1670	VV	2	542290	12889825	14.87%	0.462%
168	13.931	1670	1675	1679	VV		516641	12439689	14.35%	0.446%
169	13.972	1679	1682	1685	VV	2	389204	6384603	7.36%	0.229%
170	14.002	1685	1687	1690	VV	2	397580	5831097	6.72%	0.209%
171	14.031	1690	1692	1696	VV	2	453675	8213846	9.47%	0.295%
172	14.072	1696	1699	1707	VV	2	450375	12111647	13.97%	0.435%
173	14.137	1707	1710	1712	VV	2	326942	5665216	6.53%	0.203%
174	14.190	1712	1719	1721	VV	6	347657	9972129	11.50%	0.358%
175	14.219	1721	1724	1727	VV		938148	12834939	14.80%	0.460%
176	14.266	1727	1732	1738	VV	2	1178764	23254605	26.82%	0.834%
177	14.325	1738	1742	1748	VV		4341363	52967204	61.09%	1.900%
178	14.384	1748	1752	1757	VV		6599720	77006065	88.81%	2.763%
179	14.425	1757	1759	1765	VV	2	548705	12269787	14.15%	0.440%
180	14.466	1765	1766	1769	VV		414199	5744655	6.63%	0.206%
181	14.502	1769	1772	1774	VV		416632	6052963	6.98%	0.217%
182	14.519	1774	1775	1780	VV		431641	7828997	9.03%	0.281%
183	14.566	1780	1783	1787	VV	3	390095	8473710	9.77%	0.304%
184	14.619	1787	1792	1797	VV		2928810	34326394	39.59%	1.231%
185	14.661	1797	1799	1801	VV	2	379516	5828521	6.72%	0.209%
186	14.696	1801	1805	1809	VV		662730	11620896	13.40%	0.417%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.749	1809	1814	1817	VV 5	325283	8106896	9.35%	0.291%
188	14.778	1817	1819	1823	VV 4	296754	5837461	6.73%	0.209%
189	14.819	1823	1826	1833	VV 2	415895	9970264	11.50%	0.358%
190	14.878	1833	1836	1837	VV 2	321052	4244976	4.90%	0.152%
191	14.890	1837	1838	1841	VV 2	319199	4719362	5.44%	0.169%
192	14.919	1841	1843	1845	VV 2	266468	3562905	4.11%	0.128%
193	14.949	1845	1848	1850	VV 4	252104	3485996	4.02%	0.125%
194	14.972	1850	1852	1856	VV 3	264800	5163640	5.96%	0.185%
195	15.013	1856	1859	1861	VV 2	261515	4333531	5.00%	0.155%
196	15.049	1861	1865	1872	VV	689103	12471818	14.38%	0.447%
197	15.125	1872	1878	1884	VV	406736	10309474	11.89%	0.370%
198	15.172	1884	1886	1888	VV 3	201222	2607033	3.01%	0.094%
199	15.196	1888	1890	1892	VV 3	194638	2487014	2.87%	0.089%
200	15.231	1892	1896	1900	VV 5	248103	6092821	7.03%	0.219%
201	15.313	1900	1910	1916	VV 3	314105	11359178	13.10%	0.408%
202	15.360	1916	1918	1923	VV 6	177342	4409790	5.09%	0.158%
203	15.437	1923	1931	1935	VV 8	198632	7555791	8.71%	0.271%
204	15.472	1935	1937	1939	VV 3	176867	2704299	3.12%	0.097%
205	15.496	1939	1941	1943	VV 3	188291	2087887	2.41%	0.075%
206	15.525	1943	1946	1955	VV 2	379988	11957655	13.79%	0.429%
207	15.584	1955	1956	1962	VV 6	214559	4855239	5.60%	0.174%
208	15.655	1962	1968	1979	VV 5	257433	12532057	14.45%	0.450%
209	15.725	1979	1980	1982	VV 2	186968	2517458	2.90%	0.090%
210	15.808	1982	1994	1996	VV 9	237489	9727556	11.22%	0.349%
211	15.831	1996	1998	2001	VV 3	237076	4066460	4.69%	0.146%
212	15.896	2001	2009	2016	VV	7378060	86707986	100.00%	3.111%
213	15.949	2016	2018	2025	VV 5	268533	7846846	9.05%	0.282%
214	16.002	2025	2027	2030	VV 4	224821	3703635	4.27%	0.133%
215	16.043	2030	2034	2044	VV 10	252836	11264877	12.99%	0.404%
216	16.131	2044	2049	2054	VV 9	232737	7209088	8.31%	0.259%
217	16.166	2054	2055	2057	VV 2	216838	2615813	3.02%	0.094%
218	16.213	2057	2063	2064	VV 6	237205	5871912	6.77%	0.211%
219	16.231	2064	2066	2068	VV 3	242719	3224878	3.72%	0.116%
220	16.266	2068	2072	2076	VV	449961	7895869	9.11%	0.283%
221	16.296	2076	2077	2079	VV 2	233491	3017660	3.48%	0.108%
222	16.325	2079	2082	2084	VV 4	234958	3975795	4.59%	0.143%
223	16.349	2084	2086	2088	VV 3	247006	2998811	3.46%	0.108%
224	16.378	2088	2091	2103	VV 3	288498	13524636	15.60%	0.485%
225	16.513	2103	2114	2118	VV 3	303510	14276890	16.47%	0.512%
226	16.555	2118	2121	2127	VV 7	324318	10029195	11.57%	0.360%
227	16.607	2127	2130	2132	VV 2	419274	6839190	7.89%	0.245%
228	16.631	2132	2134	2139	VV 6	311033	6901430	7.96%	0.248%
229	16.684	2139	2143	2146	VV 6	270838	6268804	7.23%	0.225%
230	16.725	2146	2150	2152	VV 5	267337	5605664	6.46%	0.201%
231	16.743	2152	2153	2156	VV 3	264207	3166993	3.65%	0.114%
232	16.784	2156	2160	2162	VV 5	254592	5192320	5.99%	0.186%
233	16.807	2162	2164	2168	VV 5	256273	5588008	6.44%	0.200%
234	16.849	2168	2171	2173	VV 4	251134	4177016	4.82%	0.150%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.931	2173	2185	2187	VV	4	305034	12986035	14.98%	0.466%
236	16.954	2187	2189	2194	VV	6	271003	6687514	7.71%	0.240%
237	17.054	2194	2206	2212	VV	6	297922	17362687	20.02%	0.623%
238	17.160	2212	2224	2234	VV		4844922	68168945	78.62%	2.446%
239	17.249	2234	2239	2241	VV	5	321117	7210561	8.32%	0.259%
240	17.272	2241	2243	2248	VV	6	292702	6206613	7.16%	0.223%
241	17.325	2248	2252	2255	VV	6	285829	7301248	8.42%	0.262%
242	17.366	2255	2259	2262	VV	6	300149	6961526	8.03%	0.250%
243	17.396	2262	2264	2266	VV	3	290586	4234879	4.88%	0.152%
244	17.437	2266	2271	2275	VV	8	292144	8661570	9.99%	0.311%
245	17.472	2275	2277	2279	VV	3	282792	4267787	4.92%	0.153%
246	17.519	2279	2285	2289	VV	9	307897	9659426	11.14%	0.347%
247	17.590	2289	2297	2300	VV	8	341607	11838132	13.65%	0.425%
248	17.625	2300	2303	2307	VV	6	306005	7324127	8.45%	0.263%
249	17.678	2307	2312	2314	VV	6	307429	7572300	8.73%	0.272%
250	17.731	2314	2321	2328	VV	6	335725	14660534	16.91%	0.526%
251	17.778	2328	2329	2331	VV	2	314836	4067441	4.69%	0.146%
252	17.819	2331	2336	2339	VV	3	344937	8537081	9.85%	0.306%
253	17.849	2339	2341	2346	VV	6	359088	8202736	9.46%	0.294%
254	17.884	2346	2347	2351	VV	4	320918	5809775	6.70%	0.208%
255	17.919	2351	2353	2354	VV	2	306005	3655662	4.22%	0.131%
256	17.949	2354	2358	2363	VV	3	393102	10170553	11.73%	0.365%
257	17.996	2363	2366	2370	VV	3	394338	9465033	10.92%	0.340%
258	18.054	2370	2376	2382	VV	4	372351	13545557	15.62%	0.486%
259	18.119	2382	2387	2389	VV	6	354685	8967795	10.34%	0.322%
260	18.149	2389	2392	2394	VV	3	407431	6396052	7.38%	0.229%
261	18.166	2394	2395	2402	VV	7	399662	9946920	11.47%	0.357%
262	18.225	2402	2405	2409	VV	4	380483	9369355	10.81%	0.336%
263	18.284	2409	2415	2420	VV	5	374331	12568081	14.49%	0.451%
264	18.349	2420	2426	2428	VV	3	342317	8634117	9.96%	0.310%
265	18.384	2428	2432	2435	VV	2	370714	7805581	9.00%	0.280%
266	18.413	2435	2437	2442	VV	6	341964	7926970	9.14%	0.284%
267	18.454	2442	2444	2450	VV	6	343736	9581013	11.05%	0.344%
268	18.525	2450	2456	2460	VV	9	338009	11642343	13.43%	0.418%
269	18.566	2460	2463	2476	VV	9	326972	17018095	19.63%	0.611%
270	18.654	2476	2478	2480	VV	3	312428	4900669	5.65%	0.176%
271	18.678	2480	2482	2484	VV	3	302645	3997864	4.61%	0.143%
272	18.701	2484	2486	2487	VV	2	298789	3568273	4.12%	0.128%
273	18.737	2487	2492	2497	VV	8	321090	10309067	11.89%	0.370%
274	18.796	2497	2502	2505	VV	3	323644	9043980	10.43%	0.324%
275	18.866	2505	2514	2528	VV		4212237	86169202	99.38%	3.091%
276	18.984	2528	2534	2545	VV		2683539	56385361	65.03%	2.023%
277	19.060	2545	2547	2551	VV	5	294223	5778859	6.66%	0.207%
278	19.096	2551	2553	2555	VV	3	279772	4130553	4.76%	0.148%
279	19.143	2555	2561	2569	VV	3	282455	13951284	16.09%	0.501%
280	19.219	2569	2574	2579	VV	9	288508	9312874	10.74%	0.334%
281	19.266	2579	2582	2585	VV	5	282766	6230937	7.19%	0.224%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.296	2585	2587	2588	VV 2	277263	2745667	3.17%	0.099%
283	19.313	2588	2590	2595	VV 6	279603	6502710	7.50%	0.233%
284	19.348	2595	2596	2603	VV 7	278706	7771885	8.96%	0.279%
285	19.431	2603	2610	2618	VV 7	324812	15263814	17.60%	0.548%
286	19.490	2618	2620	2624	VV 5	259944	5197452	5.99%	0.186%
287	19.525	2624	2626	2628	VV 3	262249	3085910	3.56%	0.111%
288	19.572	2628	2634	2637	VV 8	270736	8507231	9.81%	0.305%
289	19.631	2637	2644	2649	VV 4	445489	15417968	17.78%	0.553%
290	19.684	2649	2653	2659	VV 9	421421	15691811	18.10%	0.563%
291	19.748	2659	2664	2675	VV 9	425854	21578333	24.89%	0.774%
292	19.825	2675	2677	2695	VV 9	364581	21689187	25.01%	0.778%
293	19.954	2695	2699	2700	VV 4	288706	4976829	5.74%	0.179%
294	19.972	2700	2702	2704	VV 3	282402	3892814	4.49%	0.140%
295	19.995	2704	2706	2708	VV 3	269172	3292544	3.80%	0.118%
296	20.019	2708	2710	2717	VV 8	279235	8354226	9.63%	0.300%
297	20.078	2717	2720	2722	VV 4	264290	4617281	5.33%	0.166%
298	20.101	2722	2724	2729	VV 6	261045	6063258	6.99%	0.218%
299	20.207	2729	2742	2755	VV	425969	26991815	31.13%	0.968%
300	20.295	2755	2757	2758	VV 2	251314	2738526	3.16%	0.098%
301	20.325	2758	2762	2764	VV 5	265898	5351874	6.17%	0.192%
302	20.348	2764	2766	2772	VV 7	272898	7372668	8.50%	0.264%
303	20.419	2772	2778	2785	VV 7	290136	12667533	14.61%	0.454%
304	20.466	2785	2786	2788	VV 2	261988	2993268	3.45%	0.107%
305	20.490	2788	2790	2801	VV 2	268651	11107551	12.81%	0.398%
306	20.566	2801	2803	2808	VV 6	252229	6356675	7.33%	0.228%
307	20.607	2808	2810	2816	VV 7	245674	6975827	8.05%	0.250%
308	20.654	2816	2818	2820	VV 3	245620	3357136	3.87%	0.120%
309	20.672	2820	2821	2825	VV 4	240925	3776730	4.36%	0.135%
310	20.719	2825	2829	2831	VV 5	236947	4818822	5.56%	0.173%
311	20.766	2831	2837	2844	VV 5	266296	11423636	13.17%	0.410%
312	20.842	2844	2850	2853	VV 8	235318	7485831	8.63%	0.269%
313	20.907	2853	2861	2867	VV 8	252715	11534002	13.30%	0.414%
314	20.960	2867	2870	2872	VV 4	225992	4347865	5.01%	0.156%
315	21.001	2872	2877	2878	VV 5	226577	4449759	5.13%	0.160%
316	21.031	2878	2882	2888	VV 9	239731	8023624	9.25%	0.288%
317	21.078	2888	2890	2894	VV 5	230515	4779427	5.51%	0.171%
318	21.113	2894	2896	2898	VV 3	227185	3578435	4.13%	0.128%
319	21.142	2898	2901	2902	VV 3	228787	3062007	3.53%	0.110%
320	21.184	2902	2908	2916	VV 10	308922	13661234	15.76%	0.490%
321	21.242	2916	2918	2921	VV 4	243021	3713243	4.28%	0.133%
322	21.284	2921	2925	2926	VV 4	241351	4316894	4.98%	0.155%
323	21.301	2926	2928	2929	VV 2	250490	3131421	3.61%	0.112%
324	21.325	2929	2932	2934	VV 4	262336	4391305	5.06%	0.158%
325	21.372	2934	2940	2948	VV 4	262960	11998743	13.84%	0.430%
326	21.431	2948	2950	2953	VV 4	266410	4685379	5.40%	0.168%
327	21.466	2953	2956	2965	VV 4	277259	11685691	13.48%	0.419%
328	21.537	2965	2968	2973	VV 7	242752	6158042	7.10%	0.221%
329	21.572	2973	2974	2976	VV 2	236708	2649197	3.06%	0.095%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.601	2976	2979	2983	VV	6	238550	5587188	6.44%	0.200%
331	21.648	2983	2987	3000	VV	6	252064	13983382	16.13%	0.502%
332	21.737	3000	3002	3003	VV	2	214781	2425325	2.80%	0.087%
333	21.766	3003	3007	3010	VV	6	218335	4672933	5.39%	0.168%
334	21.801	3010	3013	3017	VV	6	219732	5269222	6.08%	0.189%
335	21.842	3017	3020	3025	VV	7	205527	5631099	6.49%	0.202%
336	21.878	3025	3026	3028	VV	2	208443	2706971	3.12%	0.097%
337	21.901	3028	3030	3032	VV	3	204571	2606035	3.01%	0.093%
338	21.931	3032	3035	3038	VV	5	214249	4697106	5.42%	0.169%
339	22.013	3038	3049	3059	VV	5	339853	18806222	21.69%	0.675%
340	22.095	3059	3063	3065	VV	5	209749	3879510	4.47%	0.139%
341	22.119	3065	3067	3071	VV	5	211603	4523406	5.22%	0.162%
342	22.154	3071	3073	3075	VV	3	211380	2733243	3.15%	0.098%
343	22.178	3075	3077	3083	VV	7	216593	6064176	6.99%	0.218%
344	22.225	3083	3085	3092	VV	8	217608	6522079	7.52%	0.234%
345	22.278	3092	3094	3100	VV	7	217582	6236126	7.19%	0.224%
346	22.325	3100	3102	3107	VV	6	219577	5183924	5.98%	0.186%
347	22.366	3107	3109	3110	VV	2	207681	2307340	2.66%	0.083%
348	22.384	3110	3112	3114	VV	3	211751	2811371	3.24%	0.101%
349	22.431	3114	3120	3122	VV	7	213257	5956523	6.87%	0.214%
350	22.454	3122	3124	3131	VV	8	207451	6134674	7.08%	0.220%
351	22.507	3131	3133	3136	VV	4	205339	3752503	4.33%	0.135%
352	22.536	3136	3138	3140	VV	2	206997	2637728	3.04%	0.095%
353	22.560	3140	3142	3148	VV	7	200322	5594845	6.45%	0.201%
354	22.607	3148	3150	3154	VV	5	202289	4232254	4.88%	0.152%
355	22.654	3154	3158	3159	VV	4	192476	3403860	3.93%	0.122%
356	22.678	3159	3162	3164	VV	4	188644	3226451	3.72%	0.116%
357	22.725	3164	3170	3176	VV	4	193931	7377558	8.51%	0.265%
358	22.766	3176	3177	3180	VV	3	185698	2549656	2.94%	0.091%
359	22.795	3180	3182	3186	VV	5	180341	3926453	4.53%	0.141%
360	22.831	3186	3188	3189	VV	2	179541	1770931	2.04%	0.064%
361	22.848	3189	3191	3194	VV	4	182749	3431026	3.96%	0.123%
362	22.895	3194	3199	3201	VV	6	186499	3982549	4.59%	0.143%
363	22.919	3201	3203	3206	VV	4	191782	3675868	4.24%	0.132%
364	22.948	3206	3208	3213	VV	6	186574	4317565	4.98%	0.155%
365	23.025	3213	3221	3222	VV	8	197702	6216811	7.17%	0.223%
366	23.042	3222	3224	3234	VV	8	197032	7835928	9.04%	0.281%
367	23.113	3234	3236	3243	VV	8	186354	5548231	6.40%	0.199%
368	23.166	3243	3245	3248	VV	4	182141	3582398	4.13%	0.129%
369	23.201	3248	3251	3254	VV	5	182145	3449752	3.98%	0.124%
370	23.236	3254	3257	3259	VV	4	177412	3186873	3.68%	0.114%
371	23.284	3259	3265	3275	VV	4	187015	10084662	11.63%	0.362%
372	23.354	3275	3277	3282	VV	6	182096	4500427	5.19%	0.161%
373	23.395	3282	3284	3291	VV	8	177487	5316533	6.13%	0.191%
374	23.448	3291	3293	3295	VV	3	179564	2504545	2.89%	0.090%
375	23.501	3295	3302	3306	VV	10	180325	6533186	7.53%	0.234%
376	23.531	3306	3307	3315	VV	8	172136	5549227	6.40%	0.199%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.589	3315	3317	3319	VV 3	163910	2009128	2.32%	0.072%
378	23.625	3319	3323	3333	VV 3	176667	7904721	9.12%	0.284%
379	23.701	3333	3336	3338	VV 4	163849	3358406	3.87%	0.120%
380	23.736	3338	3342	3343	VV 4	167214	2843359	3.28%	0.102%
381	23.760	3343	3346	3347	VV 3	174962	2251216	2.60%	0.081%
382	23.819	3347	3356	3362	VV 3	190426	9572520	11.04%	0.343%
383	23.866	3362	3364	3366	VV 3	171111	1978928	2.28%	0.071%
384	23.883	3366	3367	3369	VV 2	166259	1953983	2.25%	0.070%
385	23.936	3369	3376	3378	VV 8	172863	5135718	5.92%	0.184%
386	24.007	3378	3388	3399	VV 8	198641	12742597	14.70%	0.457%
387	24.089	3399	3402	3404	VV 4	170404	3064935	3.53%	0.110%
388	24.131	3404	3409	3411	VV 6	171190	4077983	4.70%	0.146%
389	24.148	3411	3412	3416	VV 4	168806	2681296	3.09%	0.096%
390	24.178	3416	3417	3419	VV 2	163565	1918499	2.21%	0.069%
391	24.236	3419	3427	3438	VV 2	168600	10530226	12.14%	0.378%
392	24.319	3438	3441	3443	VV 4	156973	2445492	2.82%	0.088%
393	24.348	3443	3446	3447	VV 3	152185	2320021	2.68%	0.083%
394	24.383	3447	3452	3454	VV 6	158100	3442489	3.97%	0.124%
395	24.401	3454	3455	3457	VV 2	155030	1819425	2.10%	0.065%
396	24.425	3457	3459	3461	VV 3	161695	2082130	2.40%	0.075%
397	24.442	3461	3462	3468	VV 6	157545	3874466	4.47%	0.139%
398	24.495	3468	3471	3476	VV 7	149583	3811304	4.40%	0.137%
399	24.548	3476	3480	3482	VV 5	144477	3128497	3.61%	0.112%
400	24.572	3482	3484	3492	VV 9	140744	4727678	5.45%	0.170%
401	24.636	3492	3495	3499	VV 6	141631	3349269	3.86%	0.120%
402	24.760	3499	3516	3527	VV 6	304108	21007913	24.23%	0.754%
403	24.836	3527	3529	3536	VV 8	159781	4448195	5.13%	0.160%
404	24.907	3536	3541	3543	VV 6	153331	3216970	3.71%	0.115%
405	24.925	3543	3544	3552	VBA7	143852	5034985	5.81%	0.181%

Sum of corrected areas: 2787406466

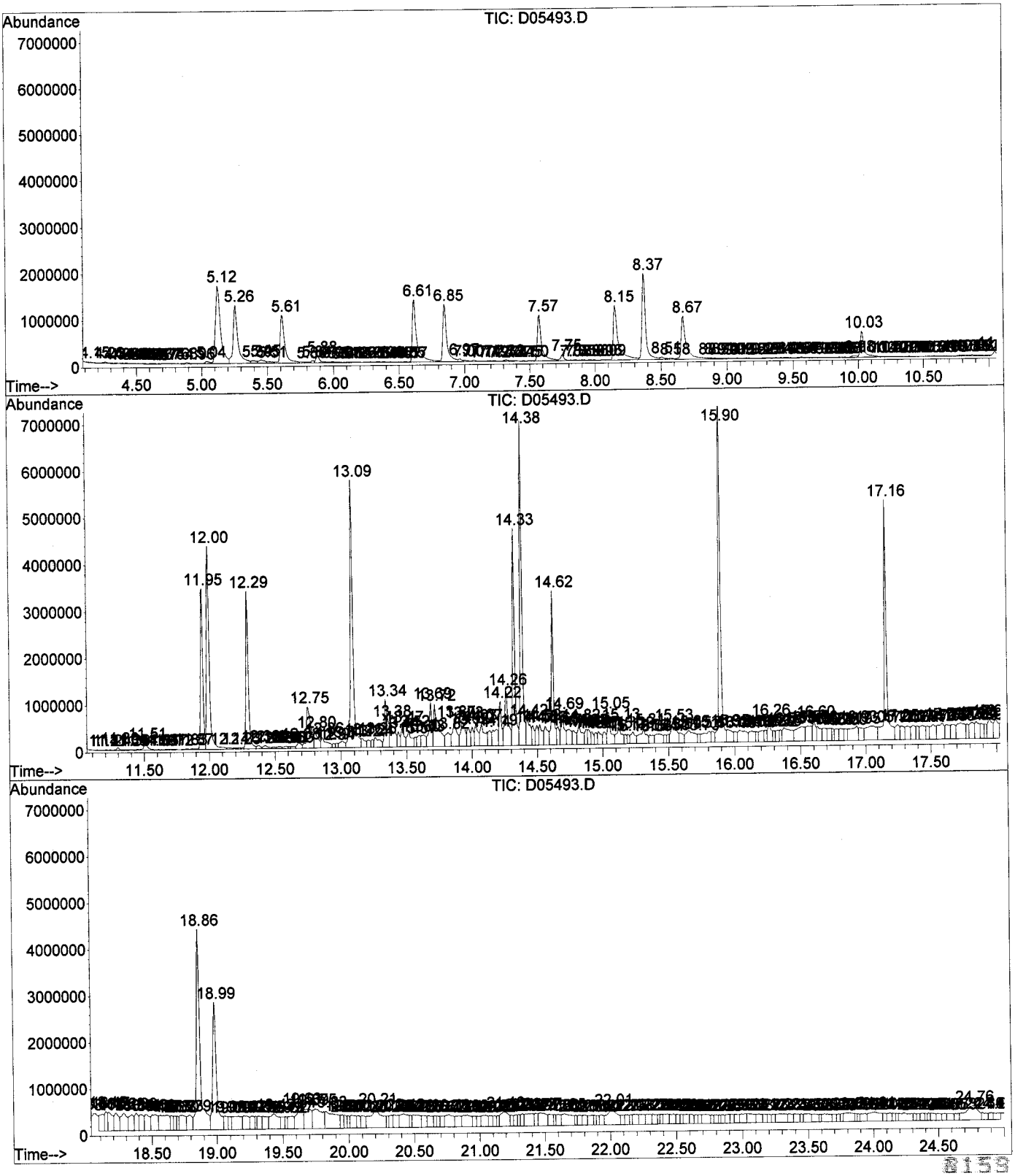
8156

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49
Sample : F4XP6
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

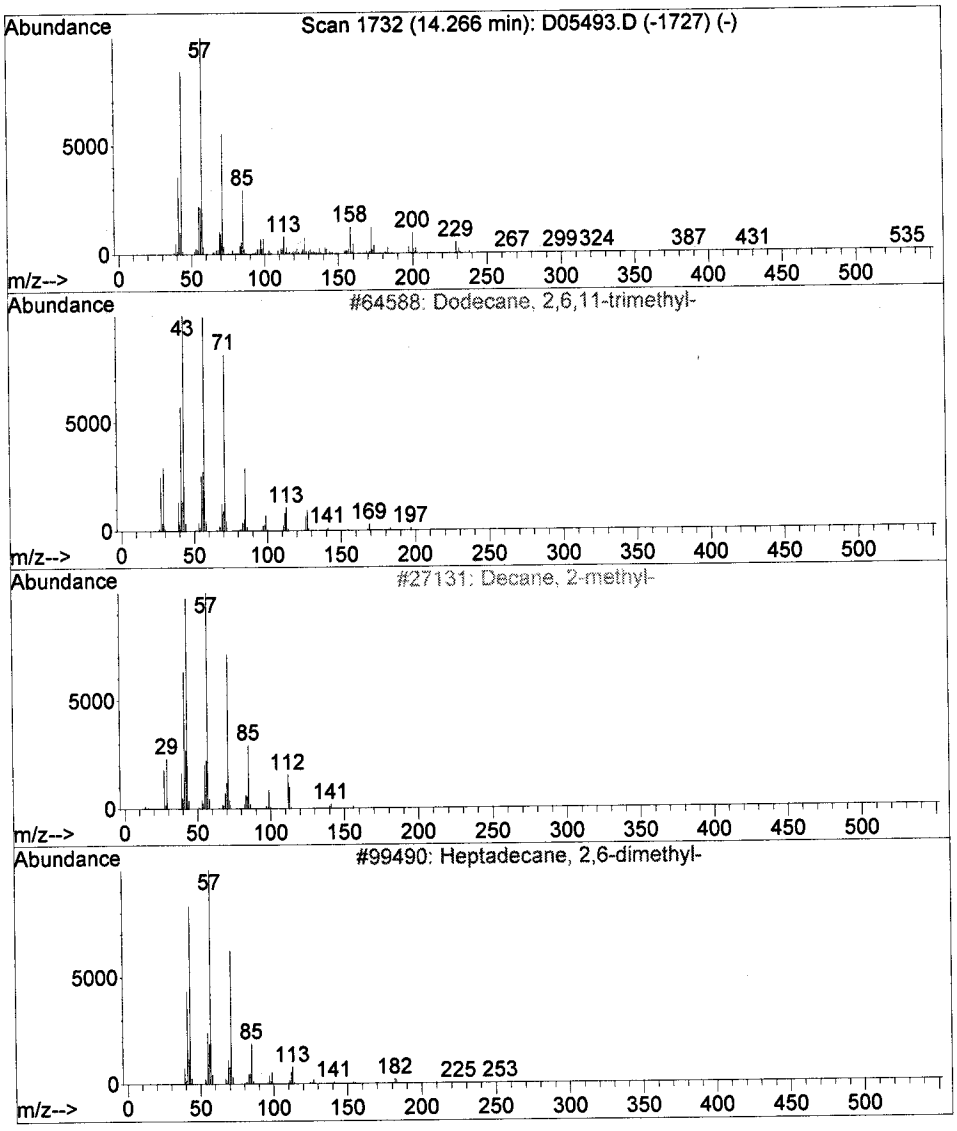
****

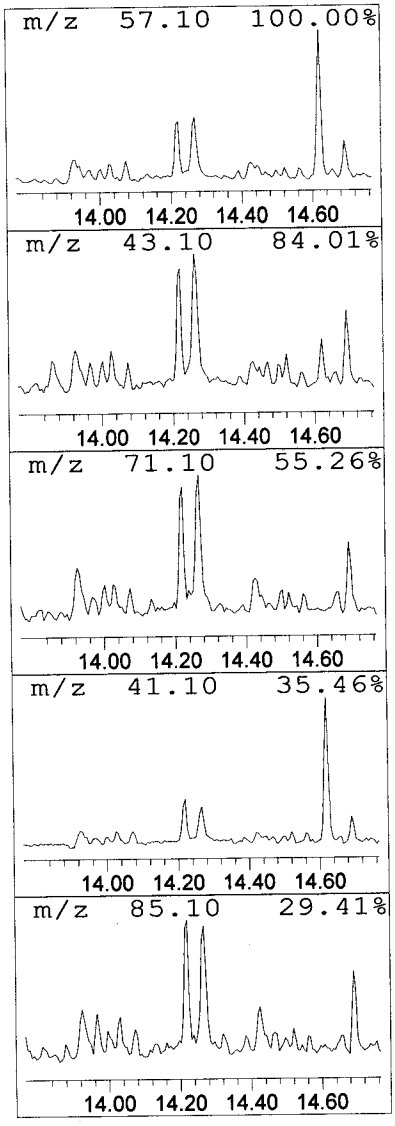
Peak Number 1 Dodecane, 2,6,11-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	8.78 ug/L	23254600	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	83
2	Decane, 2-methyl-	156	C11H24	006975-98-0	83
3	Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	60
4	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	55
5	Tetradecane	198	C14H30	000629-59-4	53





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

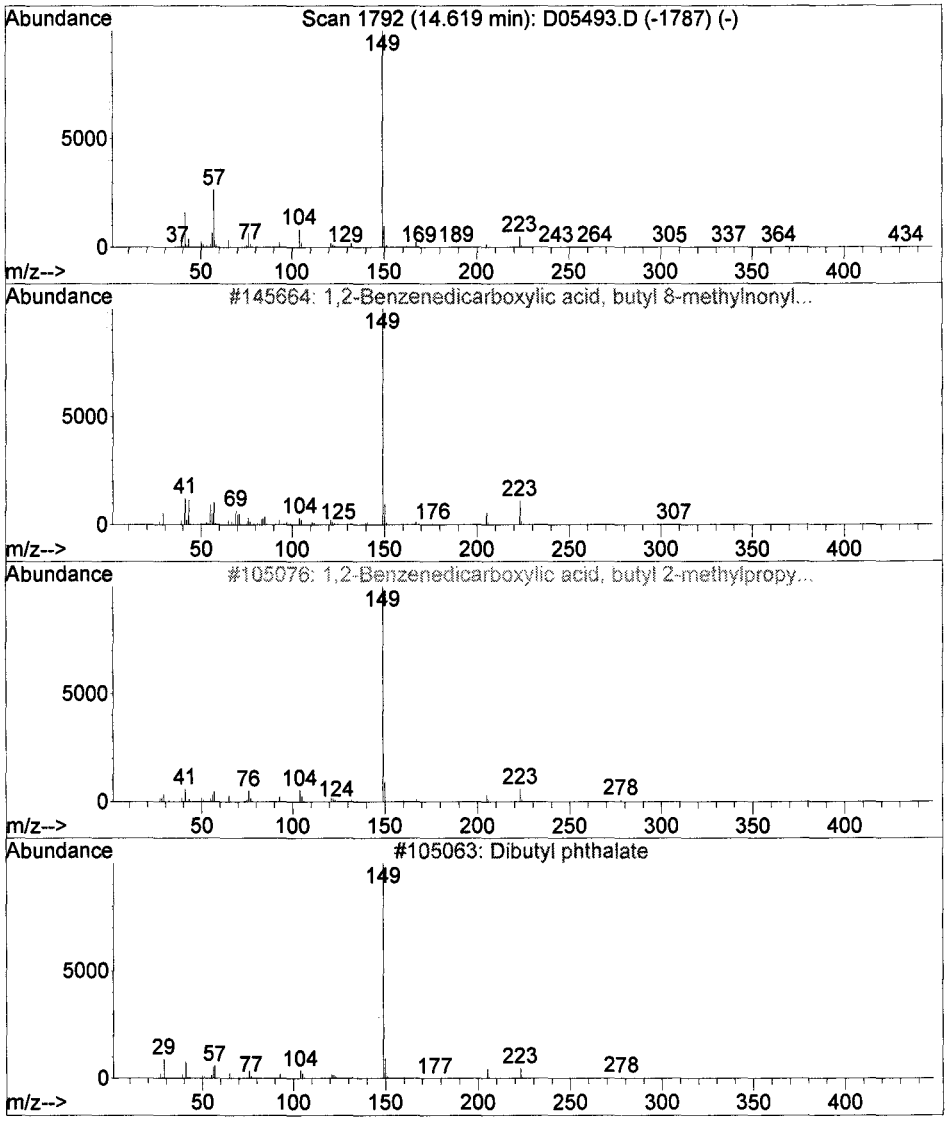
****

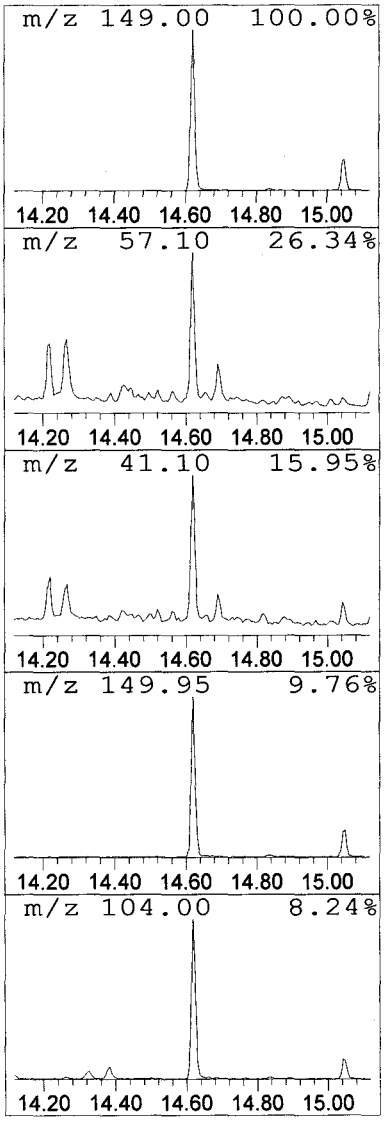
Peak Number 2 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	12.96 ug/L	34326400	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-18-9	78
2	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
3	Dibutyl phthalate	278	C16H22O4	000084-74-2	78
4	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	78





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49
Sample : F4XP6
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

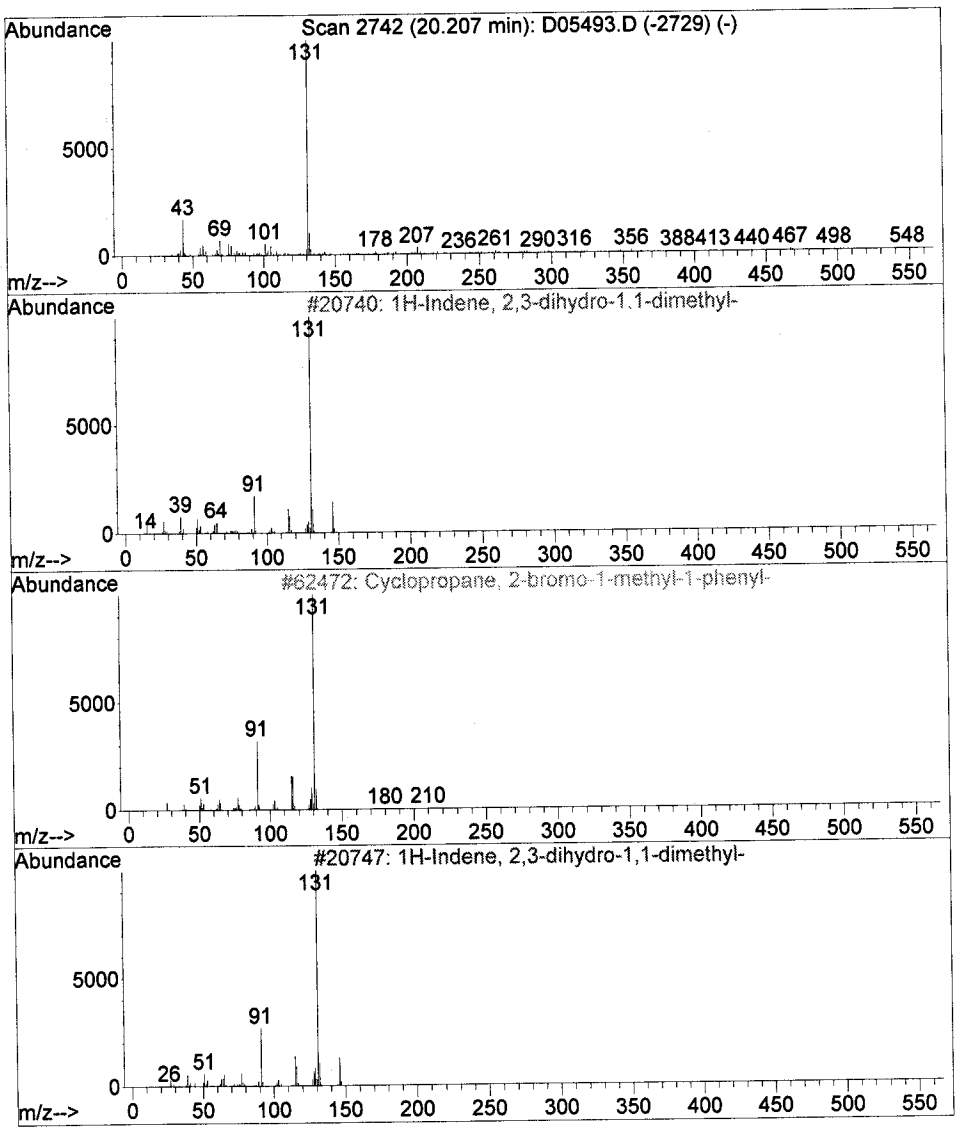
****

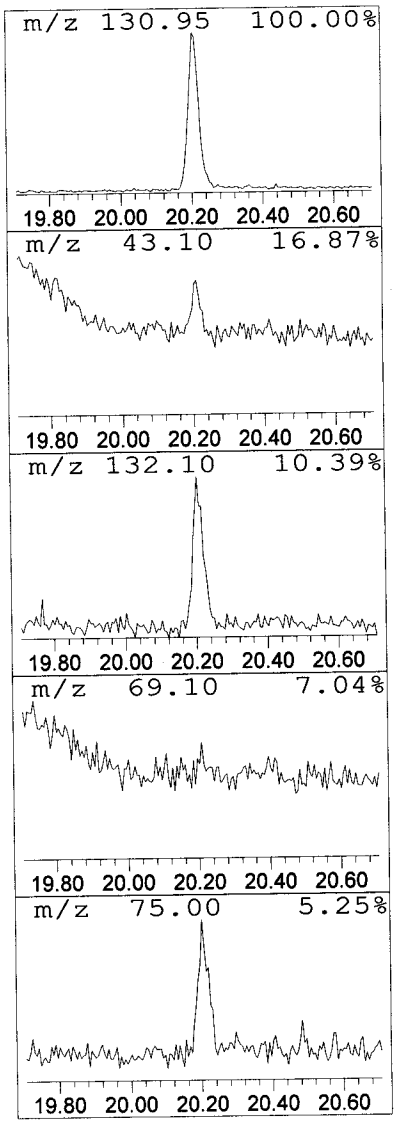
Peak Number 3 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.21	9.57 ug/L	26991800	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	50
2	Cyclopropane, 2-bromo-1-methyl-1...	210	C10H11Br	055091-64-0	39
3	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	39
4	N-[3-[[Diethylamino]methyl]-4-me...	432	C21H23F3N6O	072115-87-8	39
5	D-Galactose, 2-amino-2-deoxy-3,4...	467	C18H45NO5Si4	056248-47-6	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05493.D
Acq On : 12/14/11 17:49 Operator: SV
Sample : F4XP6 Inst : D-5973
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dodecane, 2,6,11-...	14.26	8.8	ug/L	23254600	4	14.33	52967200	20.0
1,2-Benzenedicarb...	14.62	13.0	ug/L	34326400	4	14.33	52967200	20.0
1H-Indene, 2,3-di...	20.21	9.6	ug/L	26991800	6	18.99	56385400	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.01

Sample wt/vol: 60.10 (g/mL) G Lab File ID: D05496

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

% Moisture: 46 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	160	U
108-95-2	Phenol	160	U
111-44-4	Bis(2-chloroethyl)ether	160	U
95-57-8	2-Chlorophenol	160	U
95-48-7	2-Methylphenol	160	U
108-60-1	2,2'-Oxybis(1-chloropropane)	160	U
98-86-2	Acetophenone	160	U
106-44-5	4-Methylphenol	160	U
621-64-7	N-Nitroso-di-n-propylamine	160	U
67-72-1	Hexachloroethane	160	U
98-95-3	Nitrobenzene	160	U
78-59-1	Isophorone	160	U
88-75-5	2-Nitrophenol	160	U
105-67-9	2,4-Dimethylphenol	160	U
111-91-1	Bis(2-chloroethoxy)methane	160	U
120-83-2	2,4-Dichlorophenol	160	U
91-20-3	Naphthalene	160	U
106-47-8	4-Chloroaniline	160	U
87-68-3	Hexachlorobutadiene	160	U
105-60-2	Caprolactam	160	U
59-50-7	4-Chloro-3-methylphenol	160	U
91-57-6	2-Methylnaphthalene	160	U
77-47-4	Hexachlorocyclopentadiene	160	U
88-06-2	2,4,6-Trichlorophenol	160	U
95-95-4	2,4,5-Trichlorophenol	160	U
92-52-4	1,1'-Biphenyl	160	U
91-58-7	2-Chloronaphthalene	160	U
88-74-4	2-Nitroaniline	310	U
131-11-3	Dimethylphthalate	160	U
606-20-2	2,6-Dinitrotoluene	160	U
208-96-8	Acenaphthylene	160	U
99-09-2	3-Nitroaniline	310	U
83-32-9	Acenaphthene	160	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.01

Sample wt/vol: 60.10 (g/mL) G Lab File ID: D05496

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

% Moisture: 46 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	310	U
100-02-7	4-Nitrophenol	310	U
132-64-9	Dibenzofuran	160	U
121-14-2	2,4-Dinitrotoluene	160	U
84-66-2	Diethylphthalate	160	U
86-73-7	Fluorene	160	U
7005-72-3	4-Chlorophenyl-phenylether	160	U
100-01-6	4-Nitroaniline	310	U
534-52-1	4,6-Dinitro-2-methylphenol	310	U
86-30-6	N-Nitrosodiphenylamine 1	160	U
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U
101-55-3	4-Bromophenyl-phenylether	160	U
118-74-1	Hexachlorobenzene	160	U
1912-24-9	Atrazine	160	U
87-86-5	Pentachlorophenol	310	U
85-01-8	Phenanthrene	160	U
120-12-7	Anthracene	160	U
86-74-8	Carbazole	160	U
84-74-2	Di-n-butylphthalate	160	U
206-44-0	Fluoranthene	160	U
129-00-0	Pyrene	160	U
85-68-7	Butylbenzylphthalate	160	U
91-94-1	3,3'-Dichlorobenzidine	160	U
56-55-3	Benzo(a)anthracene	160	U
218-01-9	Chrysene	160	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	U
117-84-0	Di-n-octylphthalate	160	U
205-99-2	Benzo(b)fluoranthene	160	U
207-08-9	Benzo(k)fluoranthene	160	U
50-32-8	Benzo(a)pyrene	160	U
193-39-5	Indeno(1,2,3-cd)pyrene	160	U
53-70-3	Dibenzo(a,h)anthracene	160	U
191-24-2	Benzo(g,h,i)perylene	160	U
58-90-2	2,3,4,6-Tetrachlorophenol	160	U

1 Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.01

Sample wt/vol: 60.10 (g/mL) G Lab File ID: D05496

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

% Moisture: 46 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.71	130	J
02		Unknown-02	14.26	170	J
03		Unknown-03	14.62	210	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 15 10:14:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2750104	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13055969	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8552905	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	15283791	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	15850377	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	14416563	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	13133153	32.6878 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 81.72%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	4774311	29.0246 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 72.56%		
7) 2-Chlorophenol-d4	5.25	132	6141133	32.2672 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 80.67%		
12) 4-Methylphenol-d8	6.61	113	5932412	34.1998 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 85.50%		
17) Nitrobenzene-d5	6.85	128	3201491	32.8750 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 82.19%		
20) 2-Nitrophenol-d4	7.57	143	3383297	36.4757 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 91.19%		
24) 2,4-Dichlorophenol-d3	8.15	165	5538933	32.9668 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 82.42%		
27) 4-Chloroaniline-d4	8.66	131	7316677	39.0875 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 97.72%		
41) Acenaphthylene-d8	11.99	160	25676564	32.3768 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 80.94%		
43) Dimethylphthalate-d6	11.95	166	18031837	33.6542 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 84.14%		
49) 4-Nitrophenol-d4	12.75	143	3166446	41.8114 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 104.53%		
56) Fluorene-d10	13.09	176	15643714	30.5681 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 76.42%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1608432	33.0269 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 82.57%		
68) Anthracene-d10	14.38	188	26175387	31.9270 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 79.82%		
79) Pyrene-d10	15.89	212	28514272	31.2006 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 78.00%		
85) Benzo(a)pyrene-d12	18.86	264	21409635	31.8325 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 79.58%		

Target Compounds Qvalue

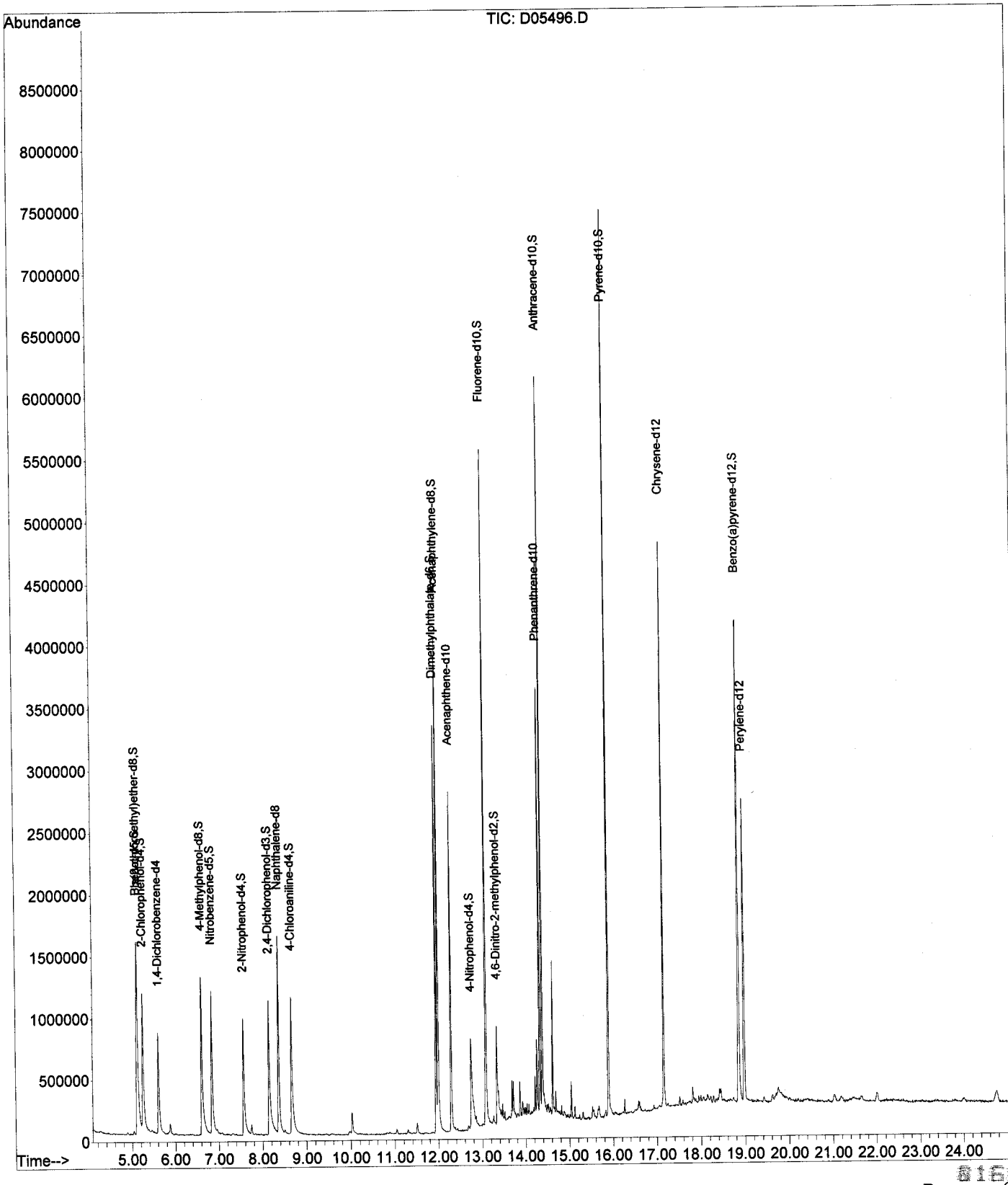
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0167

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 15 10:14:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.108	3	5	10	BV 5	7998	95810	0.12%	0.006%
2	4.149	10	12	16	PV 5	5724	43302	0.05%	0.003%
3	4.190	16	19	26	PV 9	5130	117748	0.15%	0.008%
4	4.249	26	29	31	VV 4	12840	171626	0.22%	0.011%
5	4.273	31	33	36	VV 4	14977	182823	0.23%	0.012%
6	4.302	36	38	40	VV 3	9840	76797	0.10%	0.005%
7	4.326	40	42	47	VV 6	6654	73551	0.09%	0.005%
8	4.361	47	48	52	PV 4	4500	38072	0.05%	0.002%
9	4.390	52	53	57	PV 4	5257	45932	0.06%	0.003%
10	4.432	57	60	62	VV 4	9500	78734	0.10%	0.005%
11	4.449	62	63	71	VV 8	9570	121593	0.15%	0.008%
12	4.508	71	73	76	PV 4	2884	23662	0.03%	0.002%
13	4.584	76	86	89	PV 4	6588	171226	0.22%	0.011%
14	4.614	89	91	94	VV 3	7134	71927	0.09%	0.005%
15	4.637	94	95	100	VV 5	4949	75336	0.09%	0.005%
16	4.684	100	103	105	VV 4	5682	76103	0.10%	0.005%
17	4.708	105	107	109	VV 3	5011	36762	0.05%	0.002%
18	4.731	109	111	114	PV 4	6762	61462	0.08%	0.004%
19	4.761	114	116	118	VV 3	5777	60763	0.08%	0.004%
20	4.784	118	120	125	VV 6	6104	111989	0.14%	0.007%
21	4.826	125	127	133	VV 6	4380	66522	0.08%	0.004%
22	4.896	133	139	144	VV 10	15353	325452	0.41%	0.021%
23	4.937	144	146	150	VV 5	3098	45456	0.06%	0.003%
24	4.984	150	154	159	VV 7	8412	121343	0.15%	0.008%
25	5.037	159	163	170	VV 10	27840	530237	0.67%	0.034%
26	5.120	170	177	193	VV 3	1574038	39864333	50.17%	2.558%
27	5.255	193	200	218	VV	1124549	27024497	34.01%	1.734%
28	5.379	218	221	228	VV 9	43093	1241388	1.56%	0.080%
29	5.431	228	230	231	VV 2	31398	353500	0.44%	0.023%
30	5.455	231	234	241	VV 8	39838	1070795	1.35%	0.069%
31	5.508	241	243	252	VV 9	28856	763839	0.96%	0.049%
32	5.608	252	260	288	VV	810192	19281550	24.26%	1.237%
33	5.790	288	291	296	VV 6	16498	360768	0.45%	0.023%
34	5.837	296	299	300	VV 2	25295	235012	0.30%	0.015%
35	5.878	300	306	314	VV 3	90853	2072684	2.61%	0.133%
36	5.931	314	315	319	VV 4	14323	155471	0.20%	0.010%
37	5.990	319	325	327	VV 6	14615	267269	0.34%	0.017%
38	6.014	327	329	334	VV 6	12735	198986	0.25%	0.013%
39	6.061	334	337	339	VV 4	7238	107130	0.13%	0.007%
40	6.096	339	343	344	VV 4	7244	82229	0.10%	0.005%
41	6.120	344	347	350	VV 4	6537	85376	0.11%	0.005%
42	6.178	350	357	360	VV 9	7644	175961	0.22%	0.011%
43	6.208	360	362	364	VV 3	3248	28897	0.04%	0.002%
44	6.226	364	365	366	VV	4593	34925	0.04%	0.002%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20
Operator: SV
Sample : F4XP7
Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.243	366	368	371	VV	4	6436	81877	0.10%	0.005%
46	6.278	371	374	378	VV	6	9281	143807	0.18%	0.009%
47	6.337	378	384	387	VV	7	10914	199941	0.25%	0.013%
48	6.384	387	392	400	VV	7	12083	312277	0.39%	0.020%
49	6.437	400	401	404	VV	3	5175	53403	0.07%	0.003%
50	6.490	404	410	413	PV	8	6727	108258	0.14%	0.007%
51	6.531	413	417	419	VV	5	5372	60623	0.08%	0.004%
52	6.567	419	423	425	VV	5	11136	143368	0.18%	0.009%
53	6.614	425	431	462	VV		1239424	29636502	37.30%	1.902%
54	6.802	462	463	465	VV	2	23016	209225	0.26%	0.013%
55	6.843	465	470	487	VV		1145967	23938379	30.13%	1.536%
56	6.961	487	490	495	VV	7	50717	1206015	1.52%	0.077%
57	7.002	495	497	503	VV	7	22342	499255	0.63%	0.032%
58	7.073	503	509	515	VV	9	23262	698849	0.88%	0.045%
59	7.114	515	516	519	VV	3	10683	141011	0.18%	0.009%
60	7.167	519	525	527	VV	7	9686	198596	0.25%	0.013%
61	7.190	527	529	533	VV	5	13139	187660	0.24%	0.012%
62	7.225	533	535	537	VV	3	12917	131291	0.17%	0.008%
63	7.243	537	538	542	VV	4	9012	107817	0.14%	0.007%
64	7.273	542	543	545	VV	2	6985	43171	0.05%	0.003%
65	7.308	545	549	560	VV	2	16169	531390	0.67%	0.034%
66	7.396	560	564	568	VV	6	12299	209748	0.26%	0.013%
67	7.431	568	570	572	VV	3	4897	50918	0.06%	0.003%
68	7.455	572	574	584	VV	3	4020	126439	0.16%	0.008%
69	7.572	584	594	619	VV		927960	20505516	25.81%	1.316%
70	7.749	619	624	634	VV		83717	1799335	2.26%	0.115%
71	7.831	634	638	642	VV	7	14474	306868	0.39%	0.020%
72	7.872	642	645	647	VV	4	11307	137916	0.17%	0.009%
73	7.890	647	648	655	VV	7	9538	226228	0.28%	0.015%
74	7.955	655	659	670	VV	7	12806	358892	0.45%	0.023%
75	8.061	670	677	684	VV	7	11692	364684	0.46%	0.023%
76	8.149	684	692	717	VV		1083436	27343188	34.41%	1.754%
77	8.302	717	718	723	VV	5	42328	757555	0.95%	0.049%
78	8.367	723	729	749	VV		1563530	29680911	37.35%	1.904%
79	8.508	749	753	759	VV	7	44671	1126061	1.42%	0.072%
80	8.555	759	761	767	VV	7	20930	461561	0.58%	0.030%
81	8.661	767	779	805	VV		1093366	26451751	33.29%	1.697%
82	8.819	805	806	811	VV	5	28712	435504	0.55%	0.028%
83	8.861	811	813	816	VV	4	23756	376779	0.47%	0.024%
84	8.890	816	818	823	VV	6	21519	418384	0.53%	0.027%
85	8.931	823	825	829	VV	5	14667	261124	0.33%	0.017%
86	8.972	829	832	843	VV	5	15551	484061	0.61%	0.031%
87	9.067	843	848	851	VV	7	12044	219478	0.28%	0.014%
88	9.096	851	853	855	VV	3	9777	122611	0.15%	0.008%
89	9.119	855	857	868	VV	3	10228	369816	0.47%	0.024%
90	9.196	868	870	872	VV	3	8070	69573	0.09%	0.004%
91	9.214	872	873	878	VV	5	6535	112738	0.14%	0.007%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.261	878	881	883	VV	3	11744	131067	0.16%	0.008%
93	9.284	883	885	888	VV	4	10378	141516	0.18%	0.009%
94	9.314	888	890	891	VV	2	8649	71783	0.09%	0.005%
95	9.331	891	893	896	VV	4	7358	86705	0.11%	0.006%
96	9.372	896	900	903	VV	6	8478	169875	0.21%	0.011%
97	9.443	903	912	914	VV	10	11881	329311	0.41%	0.021%
98	9.466	914	916	922	VV	7	9076	155653	0.20%	0.010%
99	9.519	922	925	927	PV	4	5513	61803	0.08%	0.004%
100	9.543	927	929	935	VV	7	11519	310400	0.39%	0.020%
101	9.584	935	936	938	VV	2	12328	114131	0.14%	0.007%
102	9.602	938	939	945	VV	5	11346	183994	0.23%	0.012%
103	9.649	945	947	950	VV	4	7246	87918	0.11%	0.006%
104	9.678	950	952	953	VV	2	6514	53584	0.07%	0.003%
105	9.708	953	957	962	VV	8	9303	198208	0.25%	0.013%
106	9.796	962	972	975	VV	8	6980	187665	0.24%	0.012%
107	9.825	975	977	978	VV	2	3681	31800	0.04%	0.002%
108	9.843	978	980	983	VV	4	7754	75856	0.10%	0.005%
109	9.878	983	986	987	VV	3	5826	73133	0.09%	0.005%
110	9.902	987	990	994	VV	6	6110	88376	0.11%	0.006%
111	9.955	994	999	1000	VV	5	22641	271030	0.34%	0.017%
112	9.972	1000	1002	1006	VV	5	29939	506387	0.64%	0.032%
113	10.031	1006	1012	1023	VV		178513	3829714	4.82%	0.246%
114	10.102	1023	1024	1029	VV	5	21358	385480	0.49%	0.025%
115	10.143	1029	1031	1033	VV	3	12508	138803	0.17%	0.009%
116	10.166	1033	1035	1037	VV	3	9195	96473	0.12%	0.006%
117	10.190	1037	1039	1046	VV	8	11343	282656	0.36%	0.018%
118	10.243	1046	1048	1053	VV	6	11574	215346	0.27%	0.014%
119	10.313	1053	1060	1063	VV	9	8394	181579	0.23%	0.012%
120	10.349	1063	1066	1071	VV	8	9033	118803	0.15%	0.008%
121	10.390	1071	1073	1076	PV	4	4568	56283	0.07%	0.004%
122	10.413	1076	1077	1079	VV	2	3201	25309	0.03%	0.002%
123	10.437	1079	1081	1084	VV	4	5627	53762	0.07%	0.003%
124	10.466	1084	1086	1090	VV	5	7137	77721	0.10%	0.005%
125	10.502	1090	1092	1096	VV	5	4661	68107	0.09%	0.004%
126	10.537	1096	1098	1104	VV	7	3999	47932	0.06%	0.003%
127	10.584	1104	1106	1110	VV	5	6860	84463	0.11%	0.005%
128	10.613	1110	1111	1114	VV	3	3568	31536	0.04%	0.002%
129	10.643	1114	1116	1122	VV	7	6523	75366	0.09%	0.005%
130	10.690	1122	1124	1127	VV	4	6253	70535	0.09%	0.005%
131	10.719	1127	1129	1131	VV	3	4108	40784	0.05%	0.003%
132	10.743	1131	1133	1138	VV	5	8169	141744	0.18%	0.009%
133	10.784	1138	1140	1143	VV	3	8115	127154	0.16%	0.008%
134	10.813	1143	1145	1152	VV	8	12775	332771	0.42%	0.021%
135	10.866	1152	1154	1158	VV	5	17644	296648	0.37%	0.019%
136	10.896	1158	1159	1161	VV	2	13117	135242	0.17%	0.009%
137	10.919	1161	1163	1169	VV	7	10685	227348	0.29%	0.015%
138	10.961	1169	1170	1172	VV	2	6581	72066	0.09%	0.005%
139	10.984	1172	1174	1177	VV	4	10990	157096	0.20%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.043	1177	1184	1190	VV	4	40925	869445	1.09%	0.056%
141	11.090	1190	1192	1194	VV	3	8314	62972	0.08%	0.004%
142	11.113	1194	1196	1198	VV	3	8003	64919	0.08%	0.004%
143	11.143	1198	1201	1206	VV	7	9723	145365	0.18%	0.009%
144	11.196	1206	1210	1217	VV	9	10081	232502	0.29%	0.015%
145	11.249	1217	1219	1221	VV	3	10781	93445	0.12%	0.006%
146	11.296	1221	1227	1234	VV	4	38031	796376	1.00%	0.051%
147	11.343	1234	1235	1240	VV	5	13427	206787	0.26%	0.013%
148	11.408	1240	1246	1248	VV	7	10778	191663	0.24%	0.012%
149	11.443	1248	1252	1254	VV	5	10454	191807	0.24%	0.012%
150	11.466	1254	1256	1258	VV	3	10907	126108	0.16%	0.008%
151	11.508	1258	1263	1274	VV	2	85023	1847944	2.33%	0.119%
152	11.584	1274	1276	1278	VV	3	6903	79708	0.10%	0.005%
153	11.625	1278	1283	1286	VV	7	5531	97834	0.12%	0.006%
154	11.672	1286	1291	1292	PV	5	9130	109523	0.14%	0.007%
155	11.690	1292	1294	1297	VV	4	10240	127388	0.16%	0.008%
156	11.725	1297	1300	1304	VV	6	8366	138456	0.17%	0.009%
157	11.760	1304	1306	1313	VV	8	4800	54888	0.07%	0.004%
158	11.819	1313	1316	1317	VV	3	7294	62628	0.08%	0.004%
159	11.837	1317	1319	1322	VV	4	9212	120173	0.15%	0.008%
160	11.872	1322	1325	1330	VV	7	8998	186468	0.23%	0.012%
161	11.943	1330	1337	1342	VV		3143413	38877936	48.93%	2.495%
162	11.996	1342	1346	1375	VV		3914973	58419754	73.52%	3.748%
163	12.178	1375	1377	1379	VV	3	11826	149171	0.19%	0.010%
164	12.202	1379	1381	1383	VV	3	12520	130223	0.16%	0.008%
165	12.243	1383	1388	1390	VV	6	14035	263341	0.33%	0.017%
166	12.290	1390	1396	1407	VV		2702701	36822812	46.34%	2.363%
167	12.372	1407	1410	1415	VV	6	41580	820131	1.03%	0.053%
168	12.431	1415	1420	1423	VV	6	29895	568541	0.72%	0.036%
169	12.455	1423	1424	1427	VV	3	15359	205628	0.26%	0.013%
170	12.543	1427	1439	1441	VV	3	17101	559851	0.70%	0.036%
171	12.607	1441	1450	1452	VV	10	16224	463475	0.58%	0.030%
172	12.637	1452	1455	1457	VV	4	14612	236464	0.30%	0.015%
173	12.678	1457	1462	1467	VV	6	47342	1046323	1.32%	0.067%
174	12.749	1467	1474	1490	VV		748984	22682408	28.54%	1.455%
175	12.855	1490	1492	1497	VV	3	119167	2246573	2.83%	0.144%
176	12.896	1497	1499	1506	VV	7	63508	1644725	2.07%	0.106%
177	12.978	1506	1513	1515	VV	8	47192	1305084	1.64%	0.084%
178	13.013	1515	1519	1523	VV	7	59138	1620533	2.04%	0.104%
179	13.084	1523	1531	1548	VV		5247506	69375617	87.31%	4.451%
180	13.202	1548	1551	1555	VV	6	69007	1384017	1.74%	0.089%
181	13.260	1555	1561	1566	VV	4	117518	3059113	3.85%	0.196%
182	13.296	1566	1567	1570	VV	3	64467	925483	1.16%	0.059%
183	13.337	1570	1574	1589	VV	3	810257	20221201	25.45%	1.297%
184	13.437	1589	1591	1593	VV	2	162852	2273577	2.86%	0.146%
185	13.466	1593	1596	1601	VV		209459	3639137	4.58%	0.234%
186	13.513	1601	1604	1607	VV		144887	2439029	3.07%	0.156%

B172

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
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Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	13.572	1607	1614	1616	VV	8	89995	2399026	3.02%	0.154%
188	13.596	1616	1618	1620	VV	3	104062	1326530	1.67%	0.085%
189	13.619	1620	1622	1626	VV	5	108031	2407580	3.03%	0.154%
190	13.684	1626	1633	1636	VV		392808	6182732	7.78%	0.397%
191	13.713	1636	1638	1650	VV		374392	8930244	11.24%	0.573%
192	13.807	1650	1654	1660	VV	6	126733	4086295	5.14%	0.262%
193	13.866	1660	1664	1669	VV		371762	6624467	8.34%	0.425%
194	13.925	1669	1674	1679	VV	2	218674	5584700	7.03%	0.358%
195	13.972	1679	1682	1684	VV	3	167948	2658829	3.35%	0.171%
196	14.001	1684	1687	1689	VV	2	168131	2411307	3.03%	0.155%
197	14.025	1689	1691	1696	VV		195342	3459367	4.35%	0.222%
198	14.072	1696	1699	1704	VV	4	194738	4148931	5.22%	0.266%
199	14.137	1704	1710	1712	VV	7	137274	3274153	4.12%	0.210%
200	14.184	1712	1718	1720	VV	4	163919	4175670	5.25%	0.268%
201	14.219	1720	1724	1727	VV		400851	5388956	6.78%	0.346%
202	14.260	1727	1731	1738	VV		691496	11979912	15.08%	0.769%
203	14.325	1738	1742	1748	VV		3622672	43084563	54.22%	2.765%
204	14.384	1748	1752	1769	VV		5940495	75552598	95.08%	4.848%
205	14.501	1769	1772	1773	VV	3	182192	2397103	3.02%	0.154%
206	14.519	1773	1775	1780	VV	2	189924	3556003	4.48%	0.228%
207	14.560	1780	1782	1787	VV	3	160836	3472468	4.37%	0.223%
208	14.619	1787	1792	1797	VV		1249297	14786181	18.61%	0.949%
209	14.654	1797	1798	1801	VV	2	161461	2503933	3.15%	0.161%
210	14.690	1801	1804	1809	VV		273570	4488483	5.65%	0.288%
211	14.731	1809	1811	1812	VV	2	128708	1580341	1.99%	0.101%
212	14.749	1812	1814	1817	VV	3	124308	1718710	2.16%	0.110%
213	14.772	1817	1818	1823	VV	5	120875	2387317	3.00%	0.153%
214	14.819	1823	1826	1830	VV	2	166718	3013400	3.79%	0.193%
215	14.849	1830	1831	1833	VV	2	95725	939689	1.18%	0.060%
216	14.884	1833	1837	1845	VV	8	120744	4260936	5.36%	0.273%
217	14.943	1845	1847	1849	VV	3	87823	1327443	1.67%	0.085%
218	14.966	1849	1851	1856	VV	3	93334	1780558	2.24%	0.114%
219	15.013	1856	1859	1861	VV	4	93898	1522431	1.92%	0.098%
220	15.048	1861	1865	1871	VV		350062	5036243	6.34%	0.323%
221	15.125	1871	1878	1882	VV		155706	3370858	4.24%	0.216%
222	15.172	1882	1886	1889	VV	6	63306	1389594	1.75%	0.089%
223	15.196	1889	1890	1894	VV	4	64545	988833	1.24%	0.063%
224	15.231	1894	1896	1900	VV	4	87476	1539188	1.94%	0.099%
225	15.313	1900	1910	1918	VV	6	107988	3958842	4.98%	0.254%
226	15.372	1918	1920	1924	VV	5	56400	987949	1.24%	0.063%
227	15.425	1924	1929	1931	VV	6	61773	1341032	1.69%	0.086%
228	15.443	1931	1932	1937	VV	5	62818	1174661	1.48%	0.075%
229	15.525	1937	1946	1948	VV	2	141995	3019716	3.80%	0.194%
230	15.548	1948	1950	1962	VV	9	119773	3957266	4.98%	0.254%
231	15.660	1962	1969	1970	VV	2	127390	2719609	3.42%	0.175%
232	15.678	1970	1972	1979	VV		146637	3065529	3.86%	0.197%
233	15.731	1979	1981	1983	VV	3	60956	807171	1.02%	0.052%
234	15.760	1983	1986	1989	VV	5	66211	1364266	1.72%	0.088%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	15.831	1989	1998	2001	VV	3	111937	3306919	4.16%	0.212%
236	15.895	2001	2009	2024	VV		7012598	79463061	100.00%	5.099%
237	15.995	2024	2026	2030	VV	5	89080	1575060	1.98%	0.101%
238	16.048	2030	2035	2038	VV	7	91872	2388692	3.01%	0.153%
239	16.078	2038	2040	2043	VV	4	89178	1303168	1.64%	0.084%
240	16.131	2043	2049	2051	VV	7	77726	2114707	2.66%	0.136%
241	16.225	2051	2065	2068	VV	7	92929	4989028	6.28%	0.320%
242	16.260	2068	2071	2080	VV		180555	4091003	5.15%	0.262%
243	16.378	2080	2091	2092	VV		88683	3660446	4.61%	0.235%
244	16.419	2092	2098	2100	VV	7	90905	2321862	2.92%	0.149%
245	16.437	2100	2101	2105	VV	4	82669	1456273	1.83%	0.093%
246	16.472	2105	2107	2109	VV	3	89920	1210506	1.52%	0.078%
247	16.513	2109	2114	2116	VV	6	103317	2368033	2.98%	0.152%
248	16.531	2116	2117	2118	VV		100871	915450	1.15%	0.059%
249	16.548	2118	2120	2122	VV	3	108548	1343322	1.69%	0.086%
250	16.584	2122	2126	2128	VV		174210	2853060	3.59%	0.183%
251	16.601	2128	2129	2132	VV	3	164200	2098077	2.64%	0.135%
252	16.625	2132	2133	2140	VV	7	125431	2889220	3.64%	0.185%
253	16.684	2140	2143	2145	VV	4	93822	1567749	1.97%	0.101%
254	16.725	2145	2150	2154	VV	8	101687	3125720	3.93%	0.201%
255	16.760	2154	2156	2158	VV	3	91069	994351	1.25%	0.064%
256	16.784	2158	2160	2164	VV	5	93469	2082862	2.62%	0.134%
257	16.819	2164	2166	2168	VV	3	95498	1122697	1.41%	0.072%
258	16.854	2168	2172	2176	VV	7	93910	2563623	3.23%	0.164%
259	16.931	2176	2185	2187	VV	8	129571	4118916	5.18%	0.264%
260	16.954	2187	2189	2191	VV	3	109998	1375407	1.73%	0.088%
261	17.001	2191	2197	2199	VV	7	107130	2798846	3.52%	0.180%
262	17.037	2199	2203	2204	VV	4	119202	2226160	2.80%	0.143%
263	17.060	2204	2207	2213	VV	8	126996	3561833	4.48%	0.229%
264	17.154	2213	2223	2234	VV		4419697	56176930	70.70%	3.605%
265	17.248	2234	2239	2244	VV	9	139196	4114189	5.18%	0.264%
266	17.290	2244	2246	2248	VV	3	120279	2017427	2.54%	0.129%
267	17.313	2248	2250	2252	VV	3	123623	1422027	1.79%	0.091%
268	17.331	2252	2253	2257	VV	4	121256	2139002	2.69%	0.137%
269	17.372	2257	2260	2263	VV	5	123821	2501882	3.15%	0.161%
270	17.395	2263	2264	2266	VV	2	119925	1236631	1.56%	0.079%
271	17.419	2266	2268	2276	VV	9	125218	4503567	5.67%	0.289%
272	17.478	2276	2278	2279	VV	2	121016	1219196	1.53%	0.078%
273	17.519	2279	2285	2289	VV	9	189839	4879813	6.14%	0.313%
274	17.548	2289	2290	2292	VV	2	126672	1321275	1.66%	0.085%
275	17.589	2292	2297	2302	VV	9	156868	5046733	6.35%	0.324%
276	17.642	2302	2306	2309	VV	6	136297	3001891	3.78%	0.193%
277	17.713	2309	2318	2320	VV	10	141480	5204437	6.55%	0.334%
278	17.754	2320	2325	2328	VV	7	150481	3849452	4.84%	0.247%
279	17.784	2328	2330	2331	VV	2	136651	1550279	1.95%	0.099%
280	17.813	2331	2335	2339	VV		258157	5499600	6.92%	0.353%
281	17.848	2339	2341	2344	VV	4	172043	2537105	3.19%	0.163%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	17.878	2344	2346	2354	VV	9	161499	5179666	6.52%	0.332%
283	17.948	2354	2358	2361	VV	6	182380	4204800	5.29%	0.270%
284	17.995	2361	2366	2370	VV	5	190787	5038928	6.34%	0.323%
285	18.054	2370	2376	2382	VV	8	176641	6688532	8.42%	0.429%
286	18.101	2382	2384	2385	VV	2	155701	1721351	2.17%	0.110%
287	18.119	2385	2387	2389	VV	3	160058	2034414	2.56%	0.131%
288	18.148	2389	2392	2400	VV	6	195064	6592314	8.30%	0.423%
289	18.219	2400	2404	2410	VV	5	178655	5215674	6.56%	0.335%
290	18.284	2410	2415	2420	VV	6	181127	5772273	7.26%	0.370%
291	18.337	2420	2424	2428	VV	7	157049	3759346	4.73%	0.241%
292	18.378	2428	2431	2434	VV	5	161818	3310640	4.17%	0.212%
293	18.419	2434	2438	2440	VV	4	236873	4487574	5.65%	0.288%
294	18.448	2440	2443	2450	VV		236767	6219507	7.83%	0.399%
295	18.513	2450	2454	2456	VV	4	152212	3109895	3.91%	0.200%
296	18.536	2456	2458	2460	VV	3	148618	1797629	2.26%	0.115%
297	18.554	2460	2461	2464	VV	3	136504	1857577	2.34%	0.119%
298	18.584	2464	2466	2468	VV	3	137089	1838313	2.31%	0.118%
299	18.619	2468	2472	2475	VV	6	141882	3761634	4.73%	0.241%
300	18.654	2475	2478	2485	VV	9	146167	4959949	6.24%	0.318%
301	18.736	2485	2492	2496	VV	8	158675	5474372	6.89%	0.351%
302	18.772	2496	2498	2500	VV	3	133677	1832057	2.31%	0.118%
303	18.789	2500	2501	2505	VV	4	129444	2001909	2.52%	0.128%
304	18.860	2505	2513	2527	VV		4054747	74866696	94.22%	4.804%
305	18.984	2527	2534	2544	VV		2538457	47238756	59.45%	3.031%
306	19.054	2544	2546	2559	VV		140667	6835525	8.60%	0.439%
307	19.148	2559	2562	2566	VV	6	132744	2845775	3.58%	0.183%
308	19.178	2566	2567	2569	VV	2	128366	1566328	1.97%	0.101%
309	19.213	2569	2573	2579	VV	9	127110	4302791	5.41%	0.276%
310	19.272	2579	2583	2585	VV	5	131033	2234815	2.81%	0.143%
311	19.289	2585	2586	2588	VV	2	126089	1320490	1.66%	0.085%
312	19.313	2588	2590	2596	VV	7	122226	3440532	4.33%	0.221%
313	19.366	2596	2599	2602	VV	5	119776	2307068	2.90%	0.148%
314	19.425	2602	2609	2615	VV	9	149512	5735693	7.22%	0.368%
315	19.466	2615	2616	2629	VV	9	118024	5510529	6.93%	0.354%
316	19.548	2629	2630	2632	VV	2	112675	1223032	1.54%	0.078%
317	19.572	2632	2634	2636	VV	3	113882	1518152	1.91%	0.097%
318	19.625	2636	2643	2648	VV	8	164178	6066876	7.63%	0.389%
319	19.701	2648	2656	2658	VV	9	171127	5362055	6.75%	0.344%
320	19.754	2658	2665	2671	VV	9	221914	8738085	11.00%	0.561%
321	19.801	2671	2673	2675	VV	3	179846	2545897	3.20%	0.163%
322	19.825	2675	2677	2689	VV	3	178844	7836057	9.86%	0.503%
323	19.907	2689	2691	2694	VV	4	143686	2073377	2.61%	0.133%
324	19.936	2694	2696	2704	VV	9	140816	4611736	5.80%	0.296%
325	20.019	2704	2710	2715	VV	9	130939	4749305	5.98%	0.305%
326	20.054	2715	2716	2728	VV	9	112841	5122318	6.45%	0.329%
327	20.142	2728	2731	2733	VV	4	116183	1967512	2.48%	0.126%
328	20.166	2733	2735	2736	VV	2	104642	1147041	1.44%	0.074%
329	20.189	2736	2739	2740	VV	3	120707	1456183	1.83%	0.093%

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	20.207	2740	2742	2748	VV	7	119151	3060624	3.85%	0.196%
331	20.254	2748	2750	2752	VV	3	109107	1251597	1.58%	0.080%
332	20.272	2752	2753	2755	VV	2	99573	990948	1.25%	0.064%
333	20.295	2755	2757	2759	VV	3	103024	1452261	1.83%	0.093%
334	20.366	2759	2769	2771	VV	3	114953	4416204	5.56%	0.283%
335	20.413	2771	2777	2790	VV	3	116913	7411270	9.33%	0.476%
336	20.519	2790	2795	2798	VV	7	108507	2670322	3.36%	0.171%
337	20.542	2798	2799	2802	VV	3	102970	1533269	1.93%	0.098%
338	20.572	2802	2804	2807	VV	4	100084	1487205	1.87%	0.095%
339	20.613	2807	2811	2815	VV	7	97796	2581285	3.25%	0.166%
340	20.642	2815	2816	2823	VV	7	100391	2691720	3.39%	0.173%
341	20.695	2823	2825	2829	VV	5	93792	2037057	2.56%	0.131%
342	20.742	2829	2833	2839	VV	9	98147	3031102	3.81%	0.194%
343	20.783	2839	2840	2842	VV	2	87823	1076048	1.35%	0.069%
344	20.813	2842	2845	2847	VV	4	88726	1398925	1.76%	0.090%
345	20.830	2847	2848	2851	VV	3	91220	1282420	1.61%	0.082%
346	20.883	2851	2857	2862	VV	10	95869	3375375	4.25%	0.217%
347	20.919	2862	2863	2869	VV	6	87099	2094833	2.64%	0.134%
348	20.977	2869	2873	2874	VV	4	88850	1448204	1.82%	0.093%
349	21.030	2874	2882	2892	VV	4	137084	6865003	8.64%	0.440%
350	21.101	2892	2894	2896	VV	3	87570	1270700	1.60%	0.082%
351	21.136	2896	2900	2902	VV	5	93254	1773443	2.23%	0.114%
352	21.183	2902	2908	2913	VV	10	121409	4096964	5.16%	0.263%
353	21.219	2913	2914	2918	VV	4	106352	1736544	2.19%	0.111%
354	21.254	2918	2920	2921	VV	2	82066	763278	0.96%	0.049%
355	21.307	2921	2929	2931	VV	9	91024	3003219	3.78%	0.193%
356	21.330	2931	2933	2935	VV	3	88484	1064935	1.34%	0.068%
357	21.360	2935	2938	2939	VV	3	88997	1342875	1.69%	0.086%
358	21.377	2939	2941	2950	VV	10	97833	3477134	4.38%	0.223%
359	21.448	2950	2953	2955	VV	4	107908	1963179	2.47%	0.126%
360	21.477	2955	2958	2963	VV	7	110176	2678871	3.37%	0.172%
361	21.519	2963	2965	2967	VV	3	100908	1418368	1.78%	0.091%
362	21.542	2967	2969	2976	VV	8	95718	2808763	3.53%	0.180%
363	21.589	2976	2977	2979	VV	2	98734	1042662	1.31%	0.067%
364	21.654	2979	2988	2997	VV	10	112289	6123585	7.71%	0.393%
365	21.719	2997	2999	3006	VV	8	81472	2289199	2.88%	0.147%
366	21.772	3006	3008	3013	VV	6	76853	1979456	2.49%	0.127%
367	21.813	3013	3015	3022	VV	8	71335	2129504	2.68%	0.137%
368	21.860	3022	3023	3026	VV	3	73542	994059	1.25%	0.064%
369	21.895	3026	3029	3032	VV	5	72220	1477099	1.86%	0.095%
370	21.924	3032	3034	3040	VV	7	74310	2022893	2.55%	0.130%
371	22.001	3040	3047	3065	VV	7	136639	7727468	9.72%	0.496%
372	22.119	3065	3067	3068	VV	2	68173	725584	0.91%	0.047%
373	22.136	3068	3070	3073	VV	4	69311	1211779	1.52%	0.078%
374	22.166	3073	3075	3080	VV	6	71153	1678854	2.11%	0.108%
375	22.224	3080	3085	3087	VV	6	78200	1580990	1.99%	0.101%
376	22.260	3087	3091	3095	VV	7	73080	2012480	2.53%	0.129%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	22.295	3095	3097	3104	VV	8	67534	2191999	2.76%	0.141%
378	22.383	3104	3112	3119	VV	8	75577	3437255	4.33%	0.221%
379	22.477	3119	3128	3130	VV	10	67501	2439772	3.07%	0.157%
380	22.501	3130	3132	3159	VV	10	69477	5912639	7.44%	0.379%
381	22.683	3159	3163	3172	VV	10	58713	2289421	2.88%	0.147%
382	22.748	3172	3174	3182	VV	8	47700	1552790	1.95%	0.100%
383	22.819	3182	3186	3189	VV	6	54160	1135158	1.43%	0.073%
384	22.913	3189	3202	3207	VV	6	54422	2915880	3.67%	0.187%
385	23.001	3207	3217	3220	VV	6	51800	2156185	2.71%	0.138%
386	23.036	3220	3223	3236	VV	6	54932	2663423	3.35%	0.171%
387	23.130	3236	3239	3253	VV	6	50592	2361091	2.97%	0.151%
388	23.266	3253	3262	3272	VV	6	46578	2689768	3.38%	0.173%
389	23.342	3272	3275	3280	VV	7	49472	1178509	1.48%	0.076%
390	23.383	3280	3282	3291	VV	9	49937	1611385	2.03%	0.103%
391	23.483	3291	3299	3301	VV	9	42808	1399039	1.76%	0.090%
392	23.507	3301	3303	3306	VV	4	38781	636827	0.80%	0.041%
393	23.554	3306	3311	3325	VV	4	41400	2254551	2.84%	0.145%
394	23.742	3325	3343	3356	VV	4	42040	3614906	4.55%	0.232%
395	23.824	3356	3357	3364	VV	7	42190	957888	1.21%	0.061%
396	23.895	3364	3369	3377	VV	7	30451	1266681	1.59%	0.081%
397	24.001	3377	3387	3400	VV	7	51862	2836586	3.57%	0.182%
398	24.095	3400	3403	3404	VV	3	31168	340357	0.43%	0.022%
399	24.113	3404	3406	3408	VV	3	28066	316724	0.40%	0.020%
400	24.130	3408	3409	3412	VV	3	27858	382344	0.48%	0.025%
401	24.183	3412	3418	3420	VV	7	29084	688213	0.87%	0.044%
402	24.207	3420	3422	3423	VV	2	24229	238148	0.30%	0.015%
403	24.236	3423	3427	3440	VV	2	31110	1182651	1.49%	0.076%
404	24.324	3440	3442	3444	VV	3	22240	263371	0.33%	0.017%
405	24.360	3444	3448	3456	VV	3	27842	842760	1.06%	0.054%
406	24.424	3456	3459	3461	VV	4	23185	343508	0.43%	0.022%
407	24.454	3461	3464	3468	VV	6	18922	329249	0.41%	0.021%
408	24.489	3468	3470	3482	VV	6	19414	576045	0.72%	0.037%
409	24.583	3482	3486	3489	VV	6	16576	265630	0.33%	0.017%
410	24.613	3489	3491	3494	VV	4	16256	203926	0.26%	0.013%
411	24.648	3494	3497	3499	VV	4	16419	224654	0.28%	0.014%
412	24.754	3499	3515	3529	VV	4	97110	4737007	5.96%	0.304%
413	24.848	3529	3531	3534	VV	4	12353	123300	0.16%	0.008%
414	24.889	3534	3538	3543	VV	8	10536	136632	0.17%	0.009%

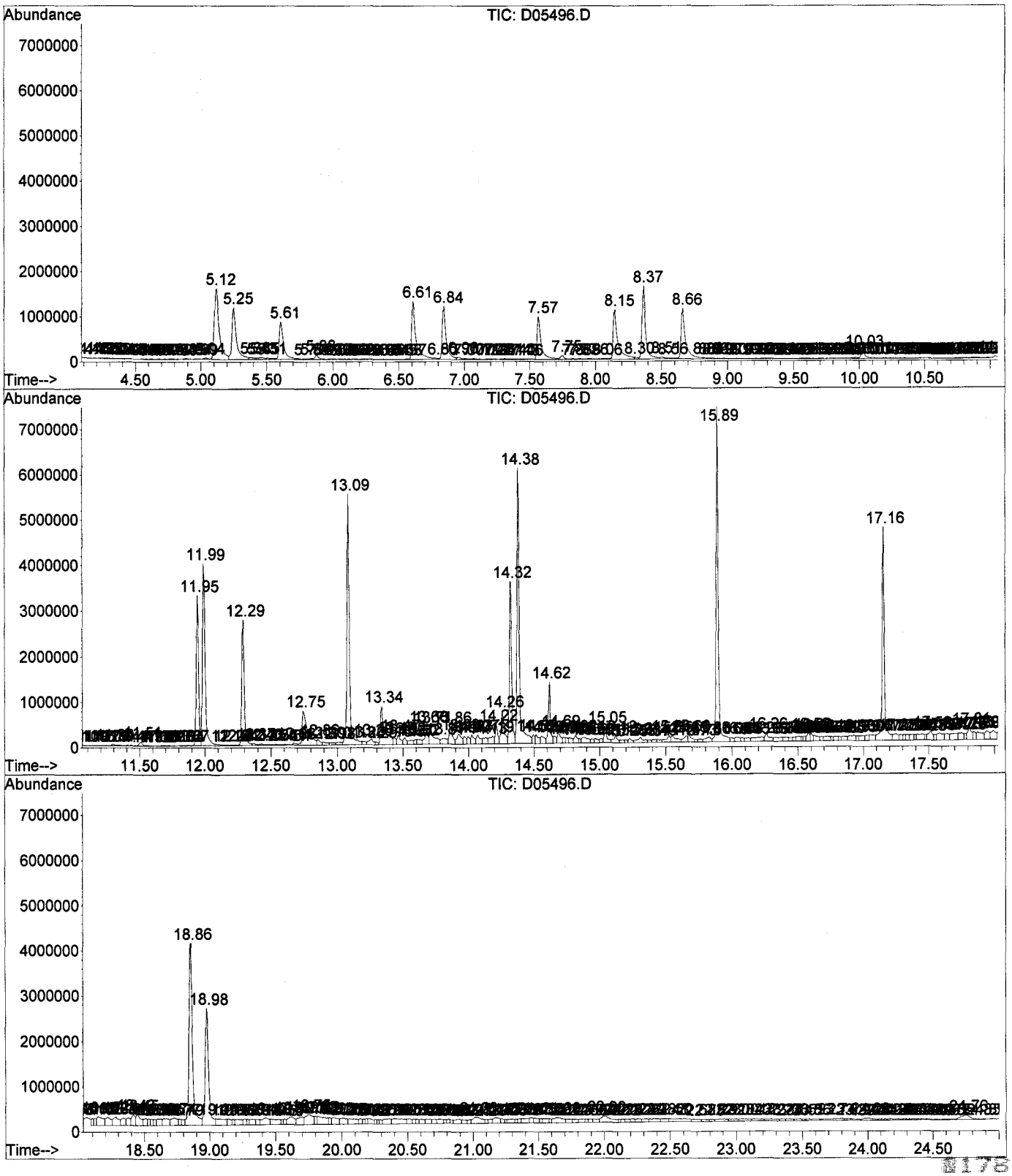
Sum of corrected areas: 1558492563

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

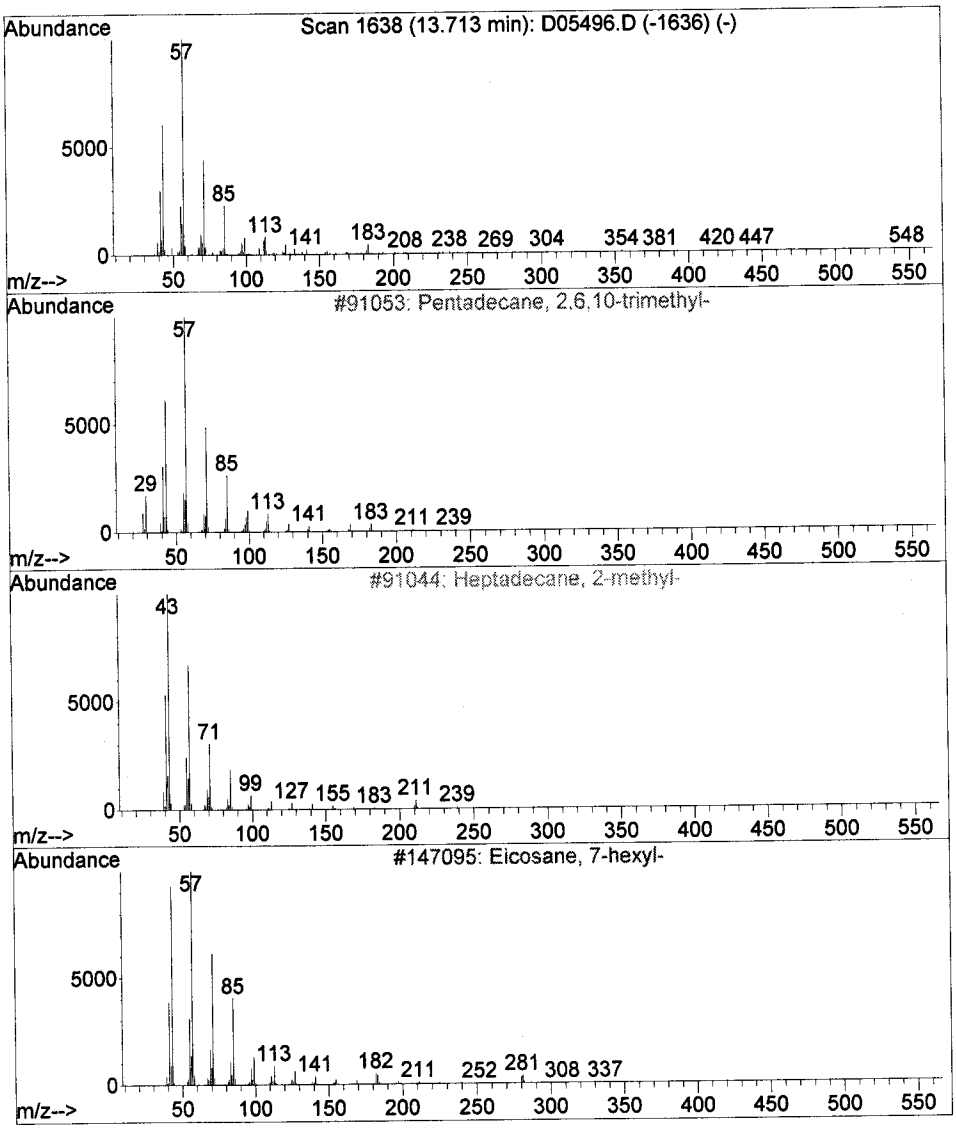
****

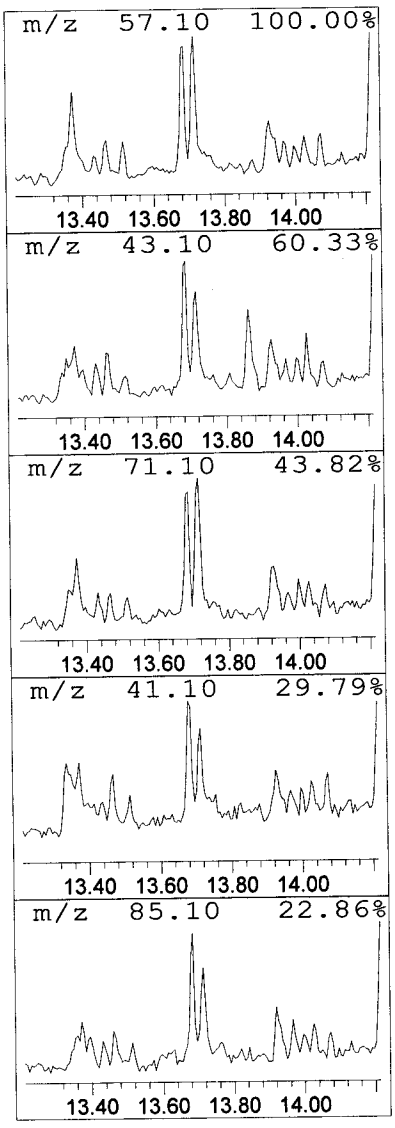
Peak Number 1 Pentadecane, 2,6,10-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.71	4.15 ug/L	8930240	Phenanthrene-d10	14.32

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	83
2	Heptadecane, 2-methyl-	254	C18H38	001560-89-0	72
3	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	64
4	Tetracosane	338	C24H50	000646-31-1	64
5	Docosane, 9-butyl-	366	C26H54	055282-14-9	64





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

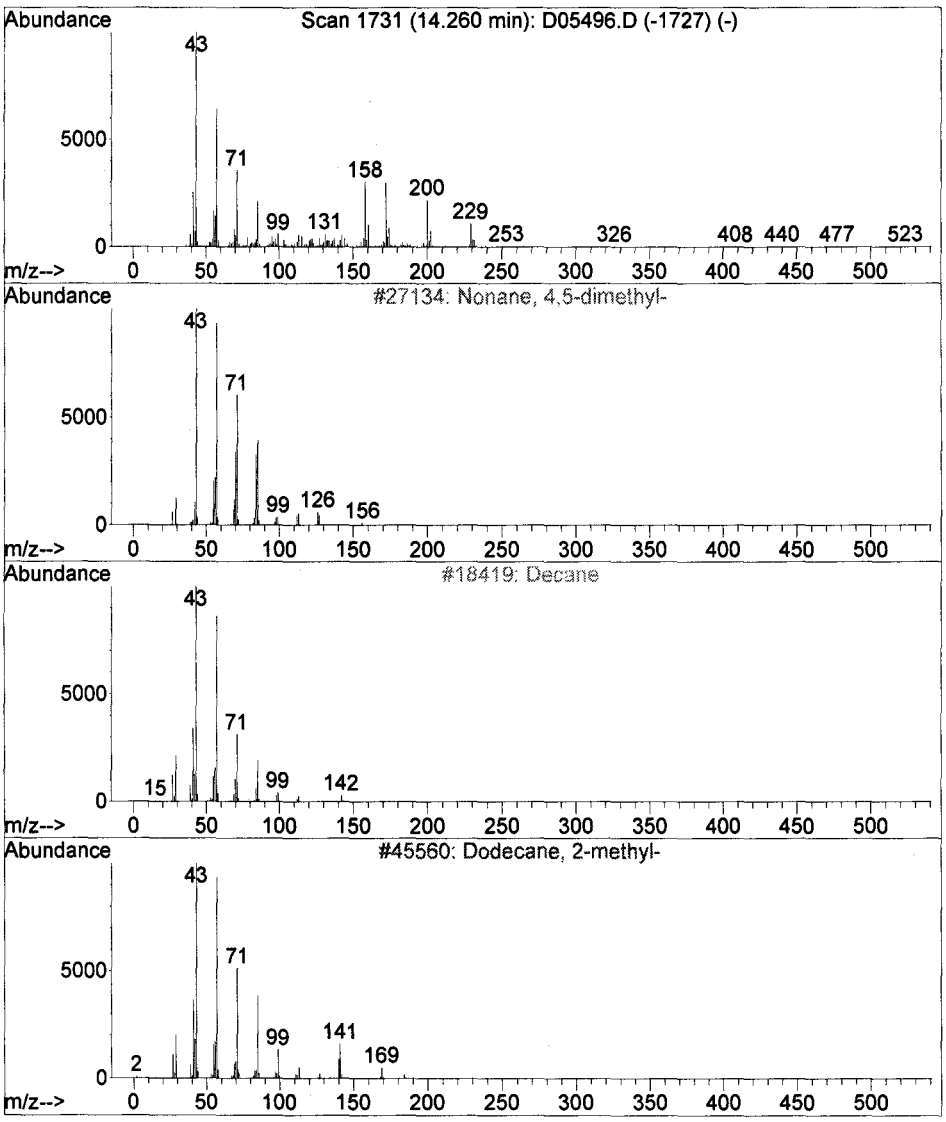
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

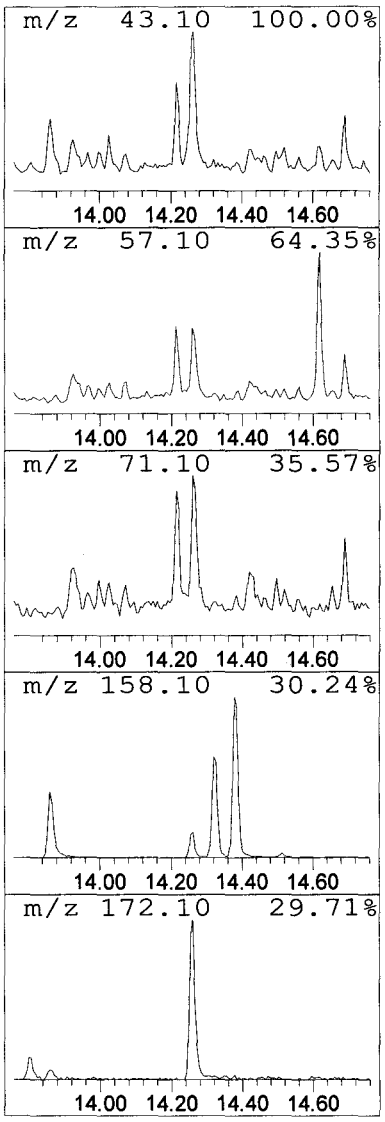
****

Peak Number 2 Nonane, 4,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	5.56 ug/L	11979900	Phenanthrene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4,5-dimethyl-	156	C11H24	017302-23-7	35
2	Decane	142	C10H22	000124-18-5	18
3	Dodecane, 2-methyl-	184	C13H28	001560-97-0	18
4	Eicosane, 3-methyl-	296	C21H44	006418-46-8	18
5	Heptadecane, 2-methyl-	254	C18H38	001560-89-0	18





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

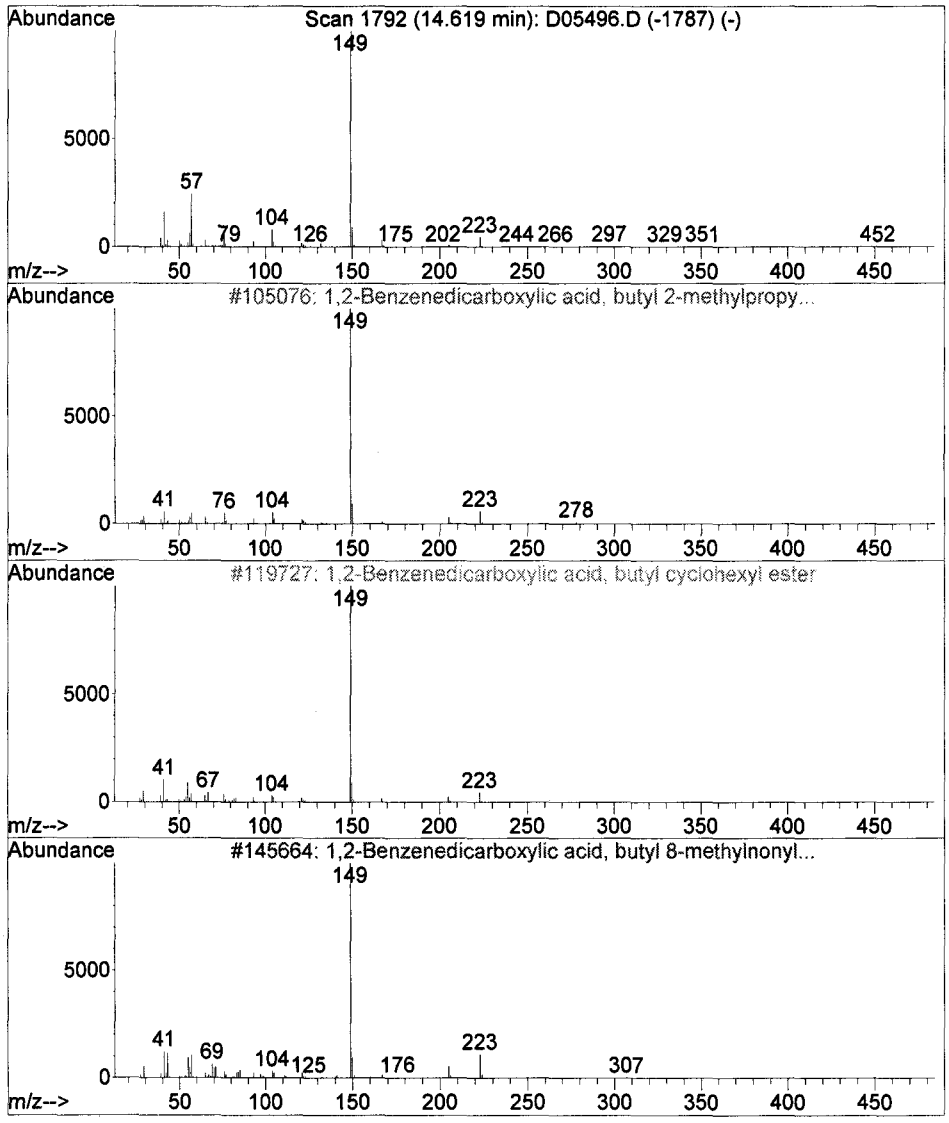
****

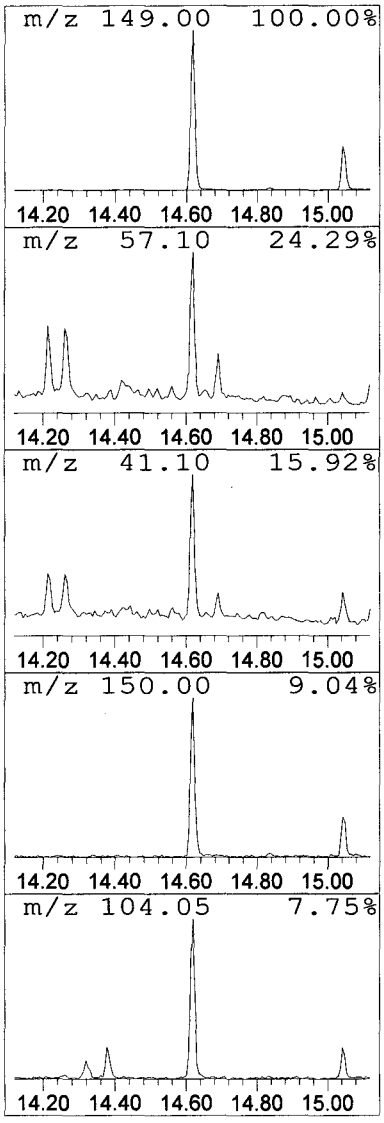
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	6.86 ug/L	14786200	Phenanthrene-d10	14.32

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	83
2	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	83
3	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-18-9	78
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
5	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05496.D
Acq On : 12/14/11 19:20 Operator: SV
Sample : F4XP7 Inst : D-5973
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Pentadecane, 2,6,...	13.71	4.1	ug/L	8930240	4	14.32	43084600	20.0
Nonane, 4,5-dimet...	14.26	5.6	ug/L	11979900	4	14.32	43084600	20.0
1,2-Benzenedicarb...	14.62	6.9	ug/L	14786200	4	14.32	43084600	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05497

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

% Moisture: 44 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	150	U
108-95-2	Phenol	150	U
111-44-4	Bis(2-chloroethyl)ether	150	U
95-57-8	2-Chlorophenol	150	U
95-48-7	2-Methylphenol	150	U
108-60-1	2,2'-Oxybis(1-chloropropane)	150	U
98-86-2	Acetophenone	150	U
106-44-5	4-Methylphenol	150	U
621-64-7	N-Nitroso-di-n-propylamine	150	U
67-72-1	Hexachloroethane	150	U
98-95-3	Nitrobenzene	150	U
78-59-1	Isophorone	150	U
88-75-5	2-Nitrophenol	150	U
105-67-9	2,4-Dimethylphenol	150	U
111-91-1	Bis(2-chloroethoxy)methane	150	U
120-83-2	2,4-Dichlorophenol	150	U
91-20-3	Naphthalene	150	U
106-47-8	4-Chloroaniline	150	U
87-68-3	Hexachlorobutadiene	150	U
105-60-2	Caprolactam	150	U
59-50-7	4-Chloro-3-methylphenol	150	U
91-57-6	2-Methylnaphthalene	150	U
77-47-4	Hexachlorocyclopentadiene	150	U
88-06-2	2,4,6-Trichlorophenol	150	U
95-95-4	2,4,5-Trichlorophenol	150	U
92-52-4	1,1'-Biphenyl	150	U
91-58-7	2-Chloronaphthalene	150	U
88-74-4	2-Nitroaniline	290	U
131-11-3	Dimethylphthalate	150	U
606-20-2	2,6-Dinitrotoluene	150	U
208-96-8	Acenaphthylene	150	U
99-09-2	3-Nitroaniline	290	U
83-32-9	Acenaphthene	150	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05497

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

% Moisture: 44 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	290	U
100-02-7	4-Nitrophenol	290	U
132-64-9	Dibenzofuran	150	U
121-14-2	2,4-Dinitrotoluene	150	U
84-66-2	Diethylphthalate	150	U
86-73-7	Fluorene	150	U
7005-72-3	4-Chlorophenyl-phenylether	150	U
100-01-6	4-Nitroaniline	290	U
534-52-1	4,6-Dinitro-2-methylphenol	290	U
86-30-6	N-Nitrosodiphenylamine 1	150	U
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U
101-55-3	4-Bromophenyl-phenylether	150	U
118-74-1	Hexachlorobenzene	150	U
1912-24-9	Atrazine	150	U
87-86-5	Pentachlorophenol	290	U
85-01-8	Phenanthrene	150	U
120-12-7	Anthracene	150	U
86-74-8	Carbazole	150	U
84-74-2	Di-n-butylphthalate	150	U
206-44-0	Fluoranthene	150	U
129-00-0	Pyrene	150	U
85-68-7	Butylbenzylphthalate	150	U
91-94-1	3,3'-Dichlorobenzidine	150	U
56-55-3	Benzo(a)anthracene	150	U
218-01-9	Chrysene	150	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	U
117-84-0	Di-n-octylphthalate	150	U
205-99-2	Benzo(b)fluoranthene	150	U
207-08-9	Benzo(k)fluoranthene	150	U
50-32-8	Benzo(a)pyrene	150	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	U
53-70-3	Dibenzo(a,h)anthracene	150	U
191-24-2	Benzo(g,h,i)perylene	150	U
58-90-2	2,3,4,6-Tetrachlorophenol	150	U

1 Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05497

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

% Moisture: 44 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.03	190	J
02		Unknown-02	14.26	200	J
03		Unknown-03	14.62	200	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 15 10:15:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2756360	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	12416290	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	7946178	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.32	188	14112264	20.0000	ug/L	0.00
73) Chrysene-d12	17.15	240	14511978	20.0000	ug/L	0.00
81) Perylene-d12	18.98	264	13576755	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.12	99	13131611	32.6097	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 81.52%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	4749540	28.8084	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 72.02%			
7) 2-Chlorophenol-d4	5.25	132	5989746	31.4004	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 78.50%			
12) 4-Methylphenol-d8	6.61	113	5642676	32.4556	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 81.14%			
17) Nitrobenzene-d5	6.85	128	2935316	31.6947	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 79.24%			
20) 2-Nitrophenol-d4	7.57	143	3270023	37.0707	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 92.68%			
24) 2,4-Dichlorophenol-d3	8.15	165	5191849	32.4930	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 81.23%			
27) 4-Chloroaniline-d4	8.67	131	6279939	35.2774	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 88.19%			
41) Acenaphthylene-d8	11.99	160	24766659	33.6139	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 84.03%			
43) Dimethylphthalate-d6	11.95	166	17434536	35.0240	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 87.56%			
49) 4-Nitrophenol-d4	12.75	143	3016195	42.8684	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 107.17%			
56) Fluorene-d10	13.09	176	15535984	32.6756	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 81.69%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	1648379	36.6570	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 91.64%			
68) Anthracene-d10	14.38	188	26452118	34.9429	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 87.36%			
79) Pyrene-d10	15.89	212	28228907	33.7370	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 84.34%			
85) Benzo(a)pyrene-d12	18.86	264	21435824	33.8429	ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 84.61%			

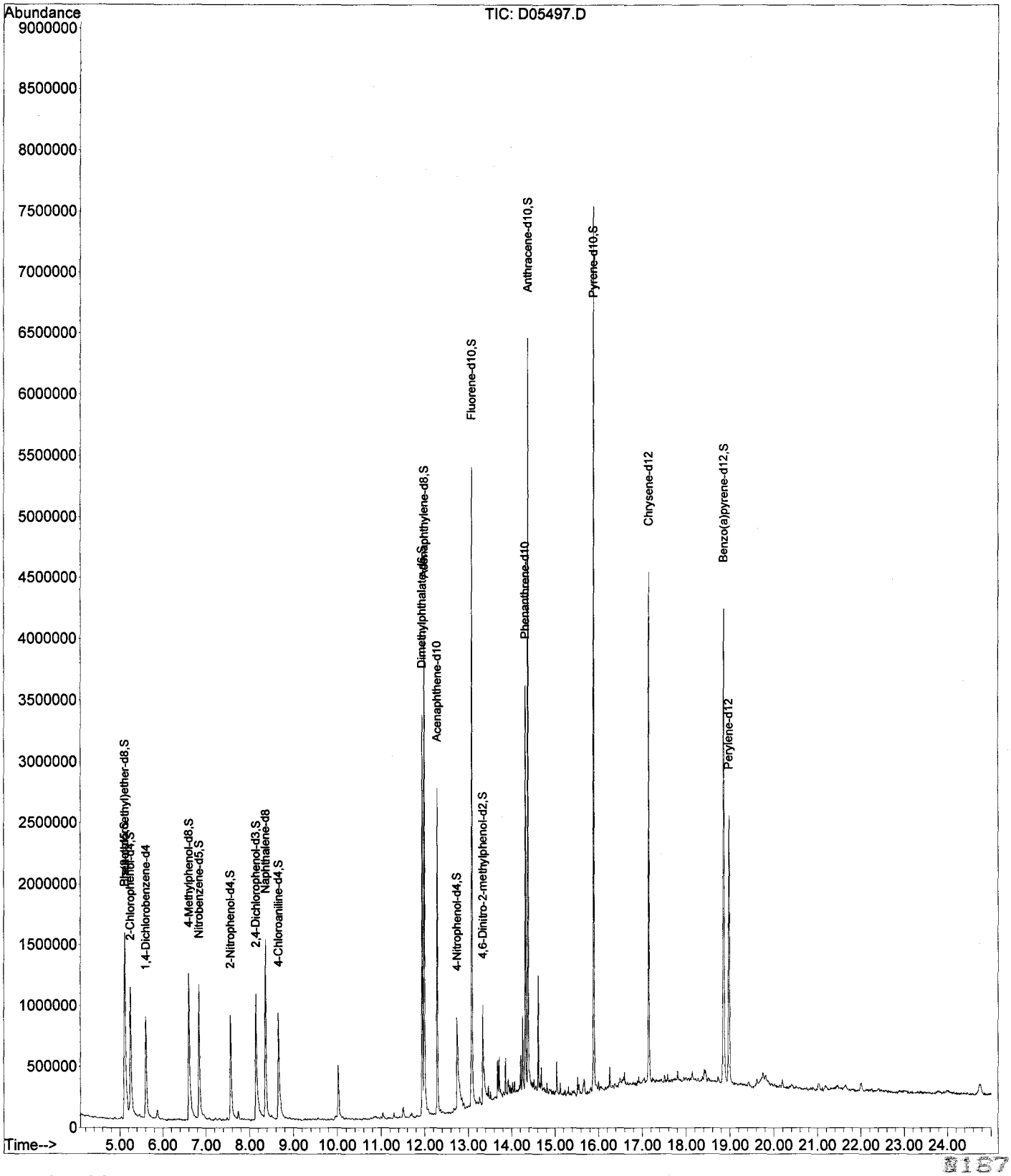
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 15 10:15:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.155	12	13	18	PV 5	5977	52988	0.06%	0.003%
2	4.196	18	20	22	PV 3	8437	63101	0.08%	0.003%
3	4.220	22	24	25	VV 2	9015	81884	0.10%	0.004%
4	4.237	25	27	29	VV 3	10874	115134	0.14%	0.006%
5	4.273	29	33	40	VV 10	13111	326559	0.40%	0.017%
6	4.326	40	42	44	VV 3	5503	54254	0.07%	0.003%
7	4.349	44	46	48	VV 3	7913	68799	0.08%	0.004%
8	4.367	48	49	51	VV 2	5713	37382	0.05%	0.002%
9	4.426	51	59	69	PV 2	10479	317993	0.39%	0.017%
10	4.496	69	71	74	VV 4	5021	58497	0.07%	0.003%
11	4.526	74	76	79	PV 4	6039	63639	0.08%	0.003%
12	4.567	79	83	85	VV 5	6583	99743	0.12%	0.005%
13	4.590	85	87	90	VV 3	7104	70334	0.09%	0.004%
14	4.620	90	92	101	VV 10	6419	140574	0.17%	0.007%
15	4.684	101	103	107	VV 5	5817	63487	0.08%	0.003%
16	4.720	107	109	111	VV 3	9194	96016	0.12%	0.005%
17	4.743	111	113	114	VV 2	5487	45240	0.06%	0.002%
18	4.779	114	119	125	VV 10	10940	272723	0.33%	0.014%
19	4.837	125	129	132	VV 6	8023	96055	0.12%	0.005%
20	4.884	132	137	142	PV 8	18712	361486	0.44%	0.019%
21	4.926	142	144	148	VV 5	8470	103978	0.13%	0.005%
22	4.996	148	156	158	VV 9	9599	210674	0.26%	0.011%
23	5.049	158	165	170	VV 10	23416	547771	0.67%	0.028%
24	5.120	170	177	193	VV 3	1508006	39102401	47.85%	2.030%
25	5.255	193	200	220	VV	1067280	26831616	32.83%	1.393%
26	5.384	220	222	228	VV 6	44442	1009530	1.24%	0.052%
27	5.467	228	236	242	VV 6	43514	1569511	1.92%	0.081%
28	5.508	242	243	250	VV 7	25274	665373	0.81%	0.035%
29	5.561	250	252	254	VV 3	20732	260946	0.32%	0.014%
30	5.608	254	260	277	VV	824503	19020305	23.27%	0.987%
31	5.714	277	278	289	VV	36963	980851	1.20%	0.051%
32	5.802	289	293	296	VV 5	23938	503547	0.62%	0.026%
33	5.843	296	300	302	VV 4	29169	444842	0.54%	0.023%
34	5.879	302	306	317	VV 5	83886	2163922	2.65%	0.112%
35	5.979	317	323	329	VV 10	15654	518732	0.63%	0.027%
36	6.020	329	330	332	VV 2	9507	91649	0.11%	0.005%
37	6.043	332	334	337	VV 4	10476	161996	0.20%	0.008%
38	6.067	337	338	341	VV 3	8610	57503	0.07%	0.003%
39	6.096	341	343	345	PV 3	6062	42911	0.05%	0.002%
40	6.126	345	348	353	VV 7	12145	235201	0.29%	0.012%
41	6.167	353	355	359	VV 5	10720	141401	0.17%	0.007%
42	6.196	359	360	364	VV 4	8014	118590	0.15%	0.006%
43	6.237	364	367	372	VV 7	10856	222253	0.27%	0.012%
44	6.279	372	374	378	VV 5	12895	171191	0.21%	0.009%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.331	378	383	388	VV	9	15126	320405	0.39%	0.017%
46	6.384	388	392	399	VV	9	14106	344368	0.42%	0.018%
47	6.437	399	401	404	VV	4	7127	87894	0.11%	0.005%
48	6.467	404	406	409	VV	4	6432	63856	0.08%	0.003%
49	6.490	409	410	412	VV	2	4256	31531	0.04%	0.002%
50	6.508	412	413	416	VV	3	6719	32181	0.04%	0.002%
51	6.543	416	419	421	PV	4	10411	120130	0.15%	0.006%
52	6.614	421	431	462	VV		1167190	28624759	35.03%	1.486%
53	6.802	462	463	465	VV	2	24372	257789	0.32%	0.013%
54	6.843	465	470	486	VV		1086410	22402862	27.41%	1.163%
55	6.955	486	489	500	VV	10	53508	1751200	2.14%	0.091%
56	7.073	500	509	518	VV	10	24816	984169	1.20%	0.051%
57	7.131	518	519	528	VV	9	7646	220669	0.27%	0.011%
58	7.226	528	535	544	VV	9	23436	666801	0.82%	0.035%
59	7.320	544	551	560	VV	9	17255	560831	0.69%	0.029%
60	7.396	560	564	569	VV	8	13308	233885	0.29%	0.012%
61	7.437	569	571	575	VV	5	7191	131763	0.16%	0.007%
62	7.490	575	580	585	VV	9	24519	444786	0.54%	0.023%
63	7.573	585	594	619	VV		852987	19213197	23.51%	0.997%
64	7.749	619	624	630	VV	2	76481	1527345	1.87%	0.079%
65	7.802	630	633	636	VV	5	12367	249482	0.31%	0.013%
66	7.837	636	639	644	VV	7	17735	349976	0.43%	0.018%
67	7.878	644	646	654	VV	9	14120	309754	0.38%	0.016%
68	7.961	654	660	662	VV	7	11043	235407	0.29%	0.012%
69	7.984	662	664	666	VV	3	11699	138008	0.17%	0.007%
70	8.002	666	667	669	VV	2	11269	95889	0.12%	0.005%
71	8.020	669	670	673	VV	3	6987	57442	0.07%	0.003%
72	8.090	673	682	684	PV	9	13138	351698	0.43%	0.018%
73	8.149	684	692	716	VV		1023349	26096765	31.93%	1.355%
74	8.296	716	717	722	VV	4	49958	1003673	1.23%	0.052%
75	8.367	722	729	750	VV		1447573	28423954	34.78%	1.475%
76	8.508	750	753	763	VV	9	46500	1445085	1.77%	0.075%
77	8.578	763	765	771	VV	7	18754	399932	0.49%	0.021%
78	8.667	771	780	805	VV		860855	22241805	27.22%	1.155%
79	8.831	805	808	813	VV	7	28853	611216	0.75%	0.032%
80	8.867	813	814	817	VV	3	19793	254239	0.31%	0.013%
81	8.914	817	822	830	VV	3	25400	816433	1.00%	0.042%
82	8.972	830	832	833	VV	2	12833	114875	0.14%	0.006%
83	9.002	833	837	844	VV	10	15451	425251	0.52%	0.022%
84	9.055	844	846	852	VV	5	10049	263810	0.32%	0.014%
85	9.102	852	854	856	VV	3	11670	99125	0.12%	0.005%
86	9.120	856	857	862	VV	5	12806	211555	0.26%	0.011%
87	9.161	862	864	869	VV	6	12575	177551	0.22%	0.009%
88	9.237	869	877	881	VV	6	10158	225467	0.28%	0.012%
89	9.272	881	883	890	VV	7	17632	312696	0.38%	0.016%
90	9.331	890	893	901	VV	10	13018	340982	0.42%	0.018%
91	9.384	901	902	906	VV	4	13405	150314	0.18%	0.008%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.443	906	912	919	VV	4	13647	458574	0.56%	0.024%
93	9.496	919	921	926	VV	6	12341	192662	0.24%	0.010%
94	9.567	926	933	938	VV	10	20859	507772	0.62%	0.026%
95	9.608	938	940	943	VV	4	9610	166694	0.20%	0.009%
96	9.672	943	951	954	VV	10	12349	329642	0.40%	0.017%
97	9.714	954	958	961	VV	6	12639	185619	0.23%	0.010%
98	9.737	961	962	968	VV	4	5037	95111	0.12%	0.005%
99	9.796	968	972	976	VV	7	11707	172852	0.21%	0.009%
100	9.825	976	977	979	PV	2	8120	58549	0.07%	0.003%
101	9.872	979	985	992	VV	2	9928	273273	0.33%	0.014%
102	9.961	992	1000	1005	PV	2	28770	921581	1.13%	0.048%
103	10.025	1005	1011	1027	VV		439448	9274721	11.35%	0.481%
104	10.131	1027	1029	1047	VV		31842	1181756	1.45%	0.061%
105	10.261	1047	1051	1053	VV	5	15377	266307	0.33%	0.014%
106	10.284	1053	1055	1057	VV	3	12377	152865	0.19%	0.008%
107	10.314	1057	1060	1061	VV	3	11371	138407	0.17%	0.007%
108	10.337	1061	1064	1072	VV	10	14406	384679	0.47%	0.020%
109	10.419	1072	1078	1082	VV	9	15214	295952	0.36%	0.015%
110	10.461	1082	1085	1088	VV	5	11472	149249	0.18%	0.008%
111	10.490	1088	1090	1093	VV	4	7296	122804	0.15%	0.006%
112	10.519	1093	1095	1098	VV	4	8538	89827	0.11%	0.005%
113	10.549	1098	1100	1102	VV	3	6068	42627	0.05%	0.002%
114	10.590	1102	1107	1113	PV	10	14403	295430	0.36%	0.015%
115	10.637	1113	1115	1118	VV	4	12049	158388	0.19%	0.008%
116	10.666	1118	1120	1123	VV	4	9930	114266	0.14%	0.006%
117	10.702	1123	1126	1133	VV	9	8608	175128	0.21%	0.009%
118	10.766	1133	1137	1141	VV	7	17723	289928	0.35%	0.015%
119	10.849	1141	1151	1153	VV	7	23070	670137	0.82%	0.035%
120	10.878	1153	1156	1163	VV	8	26996	655642	0.80%	0.034%
121	10.937	1163	1166	1172	VV	8	16702	396164	0.48%	0.021%
122	10.996	1172	1176	1180	VV	6	21033	406271	0.50%	0.021%
123	11.043	1180	1184	1192	VV	5	53016	1048419	1.28%	0.054%
124	11.102	1192	1194	1198	VV	5	9937	115088	0.14%	0.006%
125	11.166	1198	1205	1209	PV	10	13842	310632	0.38%	0.016%
126	11.202	1209	1211	1214	VV	4	16022	228071	0.28%	0.012%
127	11.225	1214	1215	1221	VV	6	12217	221528	0.27%	0.011%
128	11.296	1221	1227	1231	VV	4	51949	865164	1.06%	0.045%
129	11.343	1231	1235	1240	VV	8	19054	457445	0.56%	0.024%
130	11.390	1240	1243	1245	VV	4	14471	221711	0.27%	0.012%
131	11.431	1245	1250	1255	VV	9	18933	506793	0.62%	0.026%
132	11.513	1255	1264	1275	VV	2	92525	2404653	2.94%	0.125%
133	11.584	1275	1276	1283	VV	7	14185	337448	0.41%	0.018%
134	11.649	1283	1287	1289	VV	5	12470	176705	0.22%	0.009%
135	11.684	1289	1293	1295	VV	5	32073	504327	0.62%	0.026%
136	11.708	1295	1297	1303	VV	6	43547	760998	0.93%	0.040%
137	11.755	1303	1305	1308	VV	4	13327	172966	0.21%	0.009%
138	11.784	1308	1310	1311	VV	2	10411	76353	0.09%	0.004%
139	11.825	1311	1317	1322	VV	10	23973	560931	0.69%	0.029%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.866	1322	1324	1327	VV	4	19271	269490	0.33%	0.014%
141	11.943	1327	1337	1342	VV		3138062	39120412	47.87%	2.031%
142	11.996	1342	1346	1358	VV		3916528	55780614	68.25%	2.896%
143	12.084	1358	1361	1368	VV	8	73637	1975615	2.42%	0.103%
144	12.143	1368	1371	1374	VV	5	40791	808832	0.99%	0.042%
145	12.178	1374	1377	1382	VV	7	34805	754550	0.92%	0.039%
146	12.225	1382	1385	1389	VV	6	32445	643740	0.79%	0.033%
147	12.290	1389	1396	1407	VV		2621945	35515649	43.46%	1.844%
148	12.372	1407	1410	1414	VV	5	68603	1401407	1.71%	0.073%
149	12.419	1414	1418	1426	VV	10	49236	1713800	2.10%	0.089%
150	12.478	1426	1428	1429	VV	2	35887	372881	0.46%	0.019%
151	12.496	1429	1431	1432	VV	2	35645	388372	0.48%	0.020%
152	12.525	1432	1436	1437	VV	4	41146	671570	0.82%	0.035%
153	12.543	1437	1439	1441	VV	2	40002	479819	0.59%	0.025%
154	12.584	1441	1446	1447	VV	4	40867	787296	0.96%	0.041%
155	12.602	1447	1449	1450	VV	2	33767	316651	0.39%	0.016%
156	12.637	1450	1455	1457	VV	6	43029	893489	1.09%	0.046%
157	12.678	1457	1462	1467	VV	6	72217	1971571	2.41%	0.102%
158	12.749	1467	1474	1490	VV		791401	24913579	30.48%	1.293%
159	12.855	1490	1492	1496	VV	3	153376	2712181	3.32%	0.141%
160	12.896	1496	1499	1507	VV	10	110990	3381253	4.14%	0.176%
161	12.960	1507	1510	1513	VV	5	79250	1653376	2.02%	0.086%
162	13.002	1513	1517	1522	VV	8	86677	2338587	2.86%	0.121%
163	13.084	1522	1531	1543	VV		5082135	70301158	86.02%	3.649%
164	13.160	1543	1544	1547	VV	3	127061	1322351	1.62%	0.069%
165	13.202	1547	1551	1558	VV	10	116119	4190532	5.13%	0.218%
166	13.260	1558	1561	1564	VV	4	151951	2925770	3.58%	0.152%
167	13.290	1564	1566	1569	VV	2	112450	1526105	1.87%	0.079%
168	13.337	1569	1574	1579	VV		865867	14850529	18.17%	0.771%
169	13.372	1579	1580	1589	VV	2	376256	8589924	10.51%	0.446%
170	13.437	1589	1591	1594	VV	3	185984	2883185	3.53%	0.150%
171	13.466	1594	1596	1601	VV	2	241208	4730264	5.79%	0.246%
172	13.513	1601	1604	1607	VV	2	189187	3357574	4.11%	0.174%
173	13.543	1607	1609	1611	VV	3	133383	1690680	2.07%	0.088%
174	13.607	1611	1620	1622	VV	10	152346	5365848	6.57%	0.279%
175	13.631	1622	1624	1628	VV	5	149745	2747901	3.36%	0.143%
176	13.684	1628	1633	1635	VV		446627	7123450	8.72%	0.370%
177	13.713	1635	1638	1651	VV		457819	12553056	15.36%	0.652%
178	13.813	1651	1655	1658	VV	6	190176	4574504	5.60%	0.237%
179	13.866	1658	1664	1668	VV		442160	8820287	10.79%	0.458%
180	13.925	1668	1674	1679	VV	2	287694	8195287	10.03%	0.425%
181	13.966	1679	1681	1685	VV	4	240364	4056258	4.96%	0.211%
182	14.002	1685	1687	1689	VV	2	219028	3222781	3.94%	0.167%
183	14.031	1689	1692	1696	VV	2	258788	4762186	5.83%	0.247%
184	14.072	1696	1699	1704	VV	4	261076	6049032	7.40%	0.314%
185	14.113	1704	1706	1708	VV	3	199494	2744027	3.36%	0.142%
186	14.137	1708	1710	1712	VV	3	198704	2493151	3.05%	0.129%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.190	1712	1719	1720	VV	7	231323	6321708	7.74%	0.328%
188	14.219	1720	1724	1727	VV		471254	6778819	8.29%	0.352%
189	14.260	1727	1731	1738	VV		772780	14565894	17.82%	0.756%
190	14.325	1738	1742	1748	VV		3557280	43318507	53.00%	2.249%
191	14.384	1748	1752	1769	VV		6167609	81093779	99.23%	4.209%
192	14.496	1769	1771	1773	VV	3	259108	3664340	4.48%	0.190%
193	14.519	1773	1775	1778	VV	3	276591	4200764	5.14%	0.218%
194	14.566	1778	1783	1787	VV	7	231200	6587809	8.06%	0.342%
195	14.619	1787	1792	1796	VV		1070491	14880997	18.21%	0.772%
196	14.660	1796	1799	1801	VV	4	248078	3946308	4.83%	0.205%
197	14.690	1801	1804	1808	VV		360983	6549688	8.01%	0.340%
198	14.749	1808	1814	1817	VV	8	209630	5692169	6.96%	0.295%
199	14.778	1817	1819	1823	VV	5	196263	4282302	5.24%	0.222%
200	14.819	1823	1826	1833	VV	4	244682	6228535	7.62%	0.323%
201	14.872	1833	1835	1840	VV	6	195657	4882680	5.97%	0.253%
202	14.913	1840	1842	1845	VV	4	193410	2790704	3.41%	0.145%
203	14.943	1845	1847	1856	VV	9	177095	6806904	8.33%	0.353%
204	15.013	1856	1859	1861	VV	3	181459	2833024	3.47%	0.147%
205	15.049	1861	1865	1873	VV		399107	8857649	10.84%	0.460%
206	15.125	1873	1878	1883	VV	2	243388	6418322	7.85%	0.333%
207	15.172	1883	1886	1889	VV	5	151424	3145975	3.85%	0.163%
208	15.207	1889	1892	1894	VV	4	165596	2667875	3.26%	0.138%
209	15.231	1894	1896	1900	VV	4	180640	3315167	4.06%	0.172%
210	15.290	1900	1906	1908	VV	7	164331	3975661	4.86%	0.206%
211	15.313	1908	1910	1916	VV	6	207074	4690534	5.74%	0.243%
212	15.360	1916	1918	1920	VV	3	155211	1980043	2.42%	0.103%
213	15.401	1920	1925	1929	VV	8	171261	4945638	6.05%	0.257%
214	15.443	1929	1932	1941	VV	8	174973	6750050	8.26%	0.350%
215	15.525	1941	1946	1949	VV		282817	5093369	6.23%	0.264%
216	15.554	1949	1951	1955	VV	5	227152	4299369	5.26%	0.223%
217	15.584	1955	1956	1961	VV	5	165126	3245126	3.97%	0.168%
218	15.678	1961	1972	1978	VV	2	267141	11886517	14.54%	0.617%
219	15.731	1978	1981	1983	VV	4	159442	2246835	2.75%	0.117%
220	15.754	1983	1985	1988	VV	4	167898	2656134	3.25%	0.138%
221	15.825	1988	1997	2001	VV		197297	7883883	9.65%	0.409%
222	15.896	2001	2009	2016	VV		6983666	81725884	100.00%	4.242%
223	15.943	2016	2017	2024	VV	5	220180	6223306	7.61%	0.323%
224	16.001	2024	2027	2030	VV	4	237097	4493451	5.50%	0.233%
225	16.043	2030	2034	2037	VV	5	201455	4301125	5.26%	0.223%
226	16.072	2037	2039	2050	VV	5	201044	8362910	10.23%	0.434%
227	16.160	2050	2054	2057	VV	6	193040	4370236	5.35%	0.227%
228	16.201	2057	2061	2063	VV	5	195116	4204868	5.15%	0.218%
229	16.237	2063	2067	2068	VV	4	205316	3538252	4.33%	0.184%
230	16.260	2068	2071	2079	VV	2	341837	8635892	10.57%	0.448%
231	16.331	2079	2083	2088	VV	8	203879	5902688	7.22%	0.306%
232	16.384	2088	2092	2104	VV	8	217876	11512457	14.09%	0.598%
233	16.472	2104	2107	2108	VV	3	223031	3166815	3.87%	0.164%
234	16.501	2108	2112	2116	VV	6	260277	6225589	7.62%	0.323%

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.531	2116	2117	2119	VV	2	231343	2454433	3.00%	0.127%
236	16.554	2119	2121	2123	VV	3	247131	3561578	4.36%	0.185%
237	16.601	2123	2129	2132	VV	4	306368	8347047	10.21%	0.433%
238	16.625	2132	2133	2137	VV	4	232950	3964205	4.85%	0.206%
239	16.672	2137	2141	2145	VV	7	224268	5987594	7.33%	0.311%
240	16.731	2145	2151	2154	VV	8	221697	6571531	8.04%	0.341%
241	16.754	2154	2155	2158	VV	3	209982	2842900	3.48%	0.148%
242	16.801	2158	2163	2167	VV	8	224664	6851057	8.38%	0.356%
243	16.843	2167	2170	2173	VV	5	222497	4812140	5.89%	0.250%
244	16.872	2173	2175	2177	VV	3	216569	2462078	3.01%	0.128%
245	16.901	2177	2180	2181	VV	3	236111	3821332	4.68%	0.198%
246	16.925	2181	2184	2187	VV	4	265172	4817008	5.89%	0.250%
247	16.954	2187	2189	2193	VV	5	224340	4238011	5.19%	0.220%
248	17.054	2193	2206	2211	VV	5	255580	14587191	17.85%	0.757%
249	17.154	2211	2223	2233	VV		4259822	61814671	75.64%	3.209%
250	17.219	2233	2234	2236	VV	2	233633	2208321	2.70%	0.115%
251	17.248	2236	2239	2240	VV	3	251583	3858300	4.72%	0.200%
252	17.272	2240	2243	2248	VV	7	239213	5969064	7.30%	0.310%
253	17.325	2248	2252	2257	VV	8	234967	7628197	9.33%	0.396%
254	17.366	2257	2259	2260	VV	2	227887	2465218	3.02%	0.128%
255	17.395	2260	2264	2266	VV	5	234343	4596584	5.62%	0.239%
256	17.431	2266	2270	2271	VV	4	236451	3881513	4.75%	0.201%
257	17.442	2271	2272	2281	VV	9	238031	7561090	9.25%	0.392%
258	17.513	2281	2284	2289	VV	7	266047	6924848	8.47%	0.359%
259	17.554	2289	2291	2293	VV	3	228427	3115039	3.81%	0.162%
260	17.584	2293	2296	2302	VV	8	272727	7244247	8.86%	0.376%
261	17.631	2302	2304	2307	VV	4	230650	4018108	4.92%	0.209%
262	17.678	2307	2312	2314	VV	6	236372	5833748	7.14%	0.303%
263	17.713	2314	2318	2322	VV	7	238669	6031125	7.38%	0.313%
264	17.754	2322	2325	2327	VV	4	247086	4364629	5.34%	0.227%
265	17.813	2327	2335	2339	VV	2	301627	10946982	13.39%	0.568%
266	17.848	2339	2341	2351	VV	2	234340	9166862	11.22%	0.476%
267	17.954	2351	2359	2363	VV	10	248751	9384821	11.48%	0.487%
268	18.001	2363	2367	2372	VV	7	245078	7744537	9.48%	0.402%
269	18.042	2372	2374	2375	VV	2	236224	2777573	3.40%	0.144%
270	18.060	2375	2377	2380	VV	4	237585	4140872	5.07%	0.215%
271	18.101	2380	2384	2387	VV	6	237544	5562940	6.81%	0.289%
272	18.148	2387	2392	2396	VV	6	287715	8038712	9.84%	0.417%
273	18.184	2396	2398	2402	VV	5	230359	5014091	6.14%	0.260%
274	18.219	2402	2404	2409	VV	6	234799	4798594	5.87%	0.249%
275	18.284	2409	2415	2419	VV	9	233986	7954296	9.73%	0.413%
276	18.348	2419	2426	2428	VV	8	223397	6778247	8.29%	0.352%
277	18.378	2428	2431	2435	VV	5	248216	5782087	7.07%	0.300%
278	18.419	2435	2438	2441	VV	4	302619	5744061	7.03%	0.298%
279	18.448	2441	2443	2449	VV	4	297241	7442842	9.11%	0.386%
280	18.513	2449	2454	2461	VV	10	234691	9223216	11.29%	0.479%
281	18.566	2461	2463	2467	VV	5	214829	4280628	5.24%	0.222%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	18.601	2467	2469	2470	VV	2	211042	2593022	3.17%	0.135%
283	18.637	2470	2475	2486	VV	2	209005	11261060	13.78%	0.585%
284	18.731	2486	2491	2497	VV	10	234858	8314856	10.17%	0.432%
285	18.772	2497	2498	2503	VV	5	198903	3764485	4.61%	0.195%
286	18.860	2503	2513	2526	VV		4059925	80533700	98.54%	4.180%
287	18.984	2526	2534	2545	VV		2374821	49017606	59.98%	2.544%
288	19.060	2545	2547	2550	VV	4	194770	3850638	4.71%	0.200%
289	19.107	2550	2555	2560	VV	8	189374	6041666	7.39%	0.314%
290	19.148	2560	2562	2569	VV	8	182556	5671520	6.94%	0.294%
291	19.219	2569	2574	2576	VV	6	178362	4094454	5.01%	0.213%
292	19.248	2576	2579	2586	VV	9	179423	5892955	7.21%	0.306%
293	19.301	2586	2588	2592	VV	5	172339	3932933	4.81%	0.204%
294	19.336	2592	2594	2597	VV	4	172070	2717598	3.33%	0.141%
295	19.372	2597	2600	2602	VV	4	166056	2856655	3.50%	0.148%
296	19.425	2602	2609	2616	VV	10	188094	8255729	10.10%	0.429%
297	19.478	2616	2618	2622	VV	5	154460	2968553	3.63%	0.154%
298	19.572	2622	2634	2635	VV	5	155889	7045879	8.62%	0.366%
299	19.619	2635	2642	2647	VV	10	206456	7692960	9.41%	0.399%
300	19.701	2647	2656	2657	VV	9	202552	6619968	8.10%	0.344%
301	19.754	2657	2665	2671	VV	9	257184	11126666	13.61%	0.578%
302	19.819	2671	2676	2680	VV	8	233286	6288128	7.69%	0.326%
303	19.848	2680	2681	2683	VV	2	199289	2473016	3.03%	0.128%
304	19.872	2683	2685	2689	VV	5	192315	4065018	4.97%	0.211%
305	19.907	2689	2691	2694	VV	4	171589	2629336	3.22%	0.136%
306	19.948	2694	2698	2705	VV	10	169408	6392755	7.82%	0.332%
307	20.019	2705	2710	2713	VV	7	163567	4048978	4.95%	0.210%
308	20.054	2713	2716	2720	VV	6	149363	3707389	4.54%	0.192%
309	20.131	2720	2729	2731	VV	10	153454	5536050	6.77%	0.287%
310	20.148	2731	2732	2735	VV	3	151245	1908709	2.34%	0.099%
311	20.195	2735	2740	2757	VV	2	190561	11096535	13.58%	0.576%
312	20.319	2757	2761	2765	VV	7	135017	3795212	4.64%	0.197%
313	20.413	2765	2777	2789	VV	7	156380	11404671	13.95%	0.592%
314	20.513	2789	2794	2802	VV	7	138368	5907295	7.23%	0.307%
315	20.578	2802	2805	2807	VV	4	127650	2127942	2.60%	0.110%
316	20.601	2807	2809	2812	VV	4	124935	1945265	2.38%	0.101%
317	20.625	2812	2813	2818	VV	5	119052	2548727	3.12%	0.132%
318	20.666	2818	2820	2826	VV	7	113560	3032049	3.71%	0.157%
319	20.713	2826	2828	2831	VV	4	117782	1985448	2.43%	0.103%
320	20.748	2831	2834	2840	VV	8	120759	3766245	4.61%	0.196%
321	20.795	2840	2842	2847	VV	6	110661	2678668	3.28%	0.139%
322	20.842	2847	2850	2856	VV	8	120156	3300293	4.04%	0.171%
323	20.895	2856	2859	2868	VV	8	124112	4718474	5.77%	0.245%
324	20.983	2868	2874	2876	VV	6	111181	3075712	3.76%	0.160%
325	21.019	2876	2880	2893	VV	9	153422	7524723	9.21%	0.391%
326	21.107	2893	2895	2899	VV	4	115312	1967330	2.41%	0.102%
327	21.183	2899	2908	2910	VV	10	135722	4589183	5.62%	0.238%
328	21.201	2910	2911	2921	VV	10	126546	4300978	5.26%	0.223%
329	21.307	2921	2929	2933	VV	10	115205	4464131	5.46%	0.232%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.342	2933	2935	2939	VV	5	111830	2220643	2.72%	0.115%
331	21.378	2939	2941	2942	VV	2	112294	1368157	1.67%	0.071%
332	21.448	2942	2953	2955	VV	2	133031	5010059	6.13%	0.260%
333	21.472	2955	2957	2961	VV	5	131876	2717319	3.32%	0.141%
334	21.595	2961	2978	2979	VV	5	110616	6731128	8.24%	0.349%
335	21.654	2979	2988	2993	VV	10	132363	5575531	6.82%	0.289%
336	21.689	2993	2994	3000	VV	6	100253	2424552	2.97%	0.126%
337	21.748	3000	3004	3007	VV	6	96827	2279238	2.79%	0.118%
338	21.789	3007	3011	3013	VV	5	94750	1645502	2.01%	0.085%
339	21.807	3013	3014	3016	VV	2	94768	1044338	1.28%	0.054%
340	21.842	3016	3020	3022	VV	5	93900	1827839	2.24%	0.095%
341	21.866	3022	3024	3026	VV	3	90737	1199641	1.47%	0.062%
342	21.883	3026	3027	3029	VV	2	82860	900547	1.10%	0.047%
343	21.907	3029	3031	3034	VV	4	83093	1547180	1.89%	0.080%
344	21.942	3034	3037	3041	VV	6	86077	1771956	2.17%	0.092%
345	22.007	3041	3048	3057	VV	6	145979	6496072	7.95%	0.337%
346	22.072	3057	3059	3061	VV	3	82489	960338	1.18%	0.050%
347	22.101	3061	3064	3066	VV	4	84793	1359812	1.66%	0.071%
348	22.125	3066	3068	3071	VV	4	89725	1399849	1.71%	0.073%
349	22.177	3071	3077	3078	VV	6	89066	2275508	2.78%	0.118%
350	22.213	3078	3083	3084	VV	5	88292	1757488	2.15%	0.091%
351	22.236	3084	3087	3089	VV	4	88524	1206852	1.48%	0.063%
352	22.254	3089	3090	3095	VV	5	90471	1795139	2.20%	0.093%
353	22.295	3095	3097	3100	VV	4	78567	1176720	1.44%	0.061%
354	22.342	3100	3105	3107	VV	6	77166	1898731	2.32%	0.099%
355	22.413	3107	3117	3122	VV	6	91230	4325194	5.29%	0.225%
356	22.454	3122	3124	3126	VV	3	77972	964326	1.18%	0.050%
357	22.472	3126	3127	3130	VV	3	80958	1136673	1.39%	0.059%
358	22.513	3130	3134	3139	VV	8	72264	2121018	2.60%	0.110%
359	22.572	3139	3144	3153	VV	8	74591	3310223	4.05%	0.172%
360	22.642	3153	3156	3159	VV	5	70667	1380415	1.69%	0.072%
361	22.666	3159	3160	3165	VV	5	64169	1309802	1.60%	0.068%
362	22.713	3165	3168	3172	VV	6	65274	1457511	1.78%	0.076%
363	22.748	3172	3174	3176	VV	3	56078	585217	0.72%	0.030%
364	22.766	3176	3177	3181	VV	4	57279	966769	1.18%	0.050%
365	22.819	3181	3186	3190	VV	8	59268	1745361	2.14%	0.091%
366	22.883	3190	3197	3199	VV	8	68174	1808221	2.21%	0.094%
367	22.901	3199	3200	3208	VV	8	65146	1795907	2.20%	0.093%
368	22.960	3208	3210	3215	VV	6	62783	1436120	1.76%	0.075%
369	23.001	3215	3217	3218	VV	2	66577	758128	0.93%	0.039%
370	23.042	3218	3224	3226	VV	7	62431	1571208	1.92%	0.082%
371	23.066	3226	3228	3234	VV	6	62202	1710167	2.09%	0.089%
372	23.113	3234	3236	3238	VV	3	54402	581390	0.71%	0.030%
373	23.160	3238	3244	3254	VV	3	56180	2708416	3.31%	0.141%
374	23.236	3254	3257	3260	VV	5	48178	986287	1.21%	0.051%
375	23.277	3260	3264	3266	VV	5	48743	920734	1.13%	0.048%
376	23.295	3266	3267	3269	VV	2	51078	585171	0.72%	0.030%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.319	3269	3271	3274	VV	4	54951	902003	1.10%	0.047%
378	23.372	3274	3280	3283	VV	8	56928	1399067	1.71%	0.073%
379	23.401	3283	3285	3287	VV	3	54927	760489	0.93%	0.039%
380	23.424	3287	3289	3294	VV	6	46380	1033080	1.26%	0.054%
381	23.477	3294	3298	3300	VV	5	48513	905822	1.11%	0.047%
382	23.501	3300	3302	3309	VV	8	47904	1305586	1.60%	0.068%
383	23.554	3309	3311	3315	VV	4	45723	796109	0.97%	0.041%
384	23.583	3315	3316	3322	VV	6	44247	1079927	1.32%	0.056%
385	23.630	3322	3324	3330	VV	7	35796	922686	1.13%	0.048%
386	23.701	3330	3336	3339	VV	8	38133	1048209	1.28%	0.054%
387	23.742	3339	3343	3345	VV	5	45379	764988	0.94%	0.040%
388	23.777	3345	3349	3351	VV	5	50810	970164	1.19%	0.050%
389	23.801	3351	3353	3355	VV	3	50637	697021	0.85%	0.036%
390	23.819	3355	3356	3361	VV	5	46918	850432	1.04%	0.044%
391	23.854	3361	3362	3364	VV	2	39052	442197	0.54%	0.023%
392	23.889	3364	3368	3370	VV	5	35457	610588	0.75%	0.032%
393	23.924	3370	3374	3377	VV	6	44444	894607	1.09%	0.046%
394	23.966	3377	3381	3382	VV	4	42135	689012	0.84%	0.036%
395	24.001	3382	3387	3400	VV	4	53868	2784762	3.41%	0.145%
396	24.089	3400	3402	3409	VV	8	35762	926850	1.13%	0.048%
397	24.148	3409	3412	3417	VV	7	37480	774369	0.95%	0.040%
398	24.189	3417	3419	3421	VV	3	29431	382617	0.47%	0.020%
399	24.207	3421	3422	3426	VV	4	33549	496480	0.61%	0.026%
400	24.236	3426	3427	3429	VV	2	29192	303846	0.37%	0.016%
401	24.266	3429	3432	3434	VV	4	29289	397260	0.49%	0.021%
402	24.289	3434	3436	3439	VV	4	29488	471428	0.58%	0.024%
403	24.319	3439	3441	3446	VV	6	32472	569904	0.70%	0.030%
404	24.377	3446	3451	3454	VV	7	29113	647095	0.79%	0.034%
405	24.407	3454	3456	3458	VV	3	26227	289400	0.35%	0.015%
406	24.430	3458	3460	3462	VV	3	24095	312928	0.38%	0.016%
407	24.454	3462	3464	3470	VV	7	30611	602106	0.74%	0.031%
408	24.501	3470	3472	3474	VV	3	19002	222643	0.27%	0.012%
409	24.530	3474	3477	3483	VV	8	23395	441255	0.54%	0.023%
410	24.583	3483	3486	3488	VV	4	21078	304836	0.37%	0.016%
411	24.607	3488	3490	3494	VV	5	15307	205057	0.25%	0.011%
412	24.654	3494	3498	3500	VV	5	18803	229237	0.28%	0.012%
413	24.754	3500	3515	3527	VV	5	93074	4781442	5.85%	0.248%
414	24.854	3527	3532	3533	VV	5	23785	268710	0.33%	0.014%
415	24.871	3533	3535	3539	VV	5	11965	125411	0.15%	0.007%
416	24.901	3539	3540	3544	VV	4	9296	87712	0.11%	0.005%
417	24.936	3544	3546	3548	PV	3	11667	86021	0.11%	0.004%

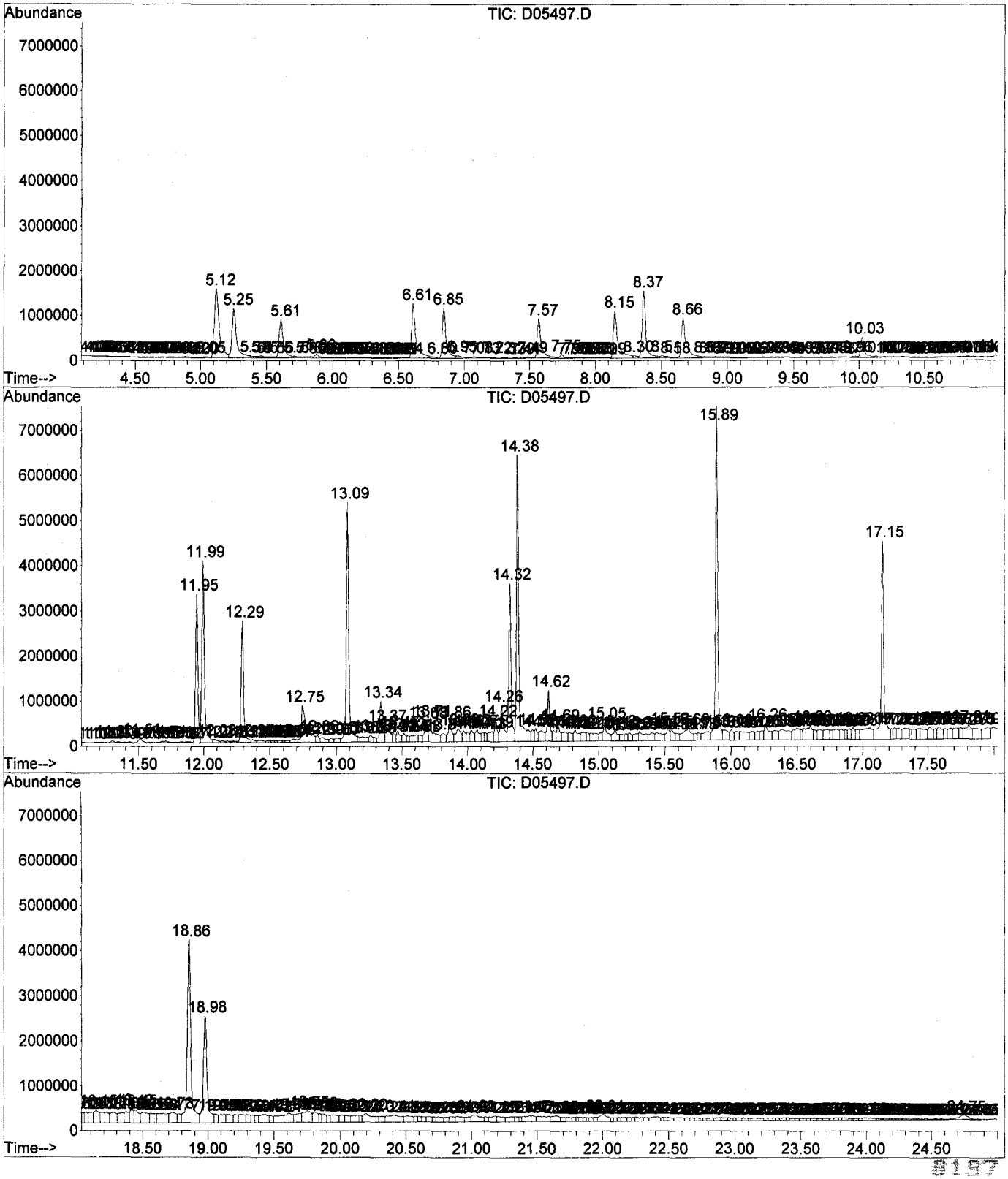
Sum of corrected areas: 1926447713

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

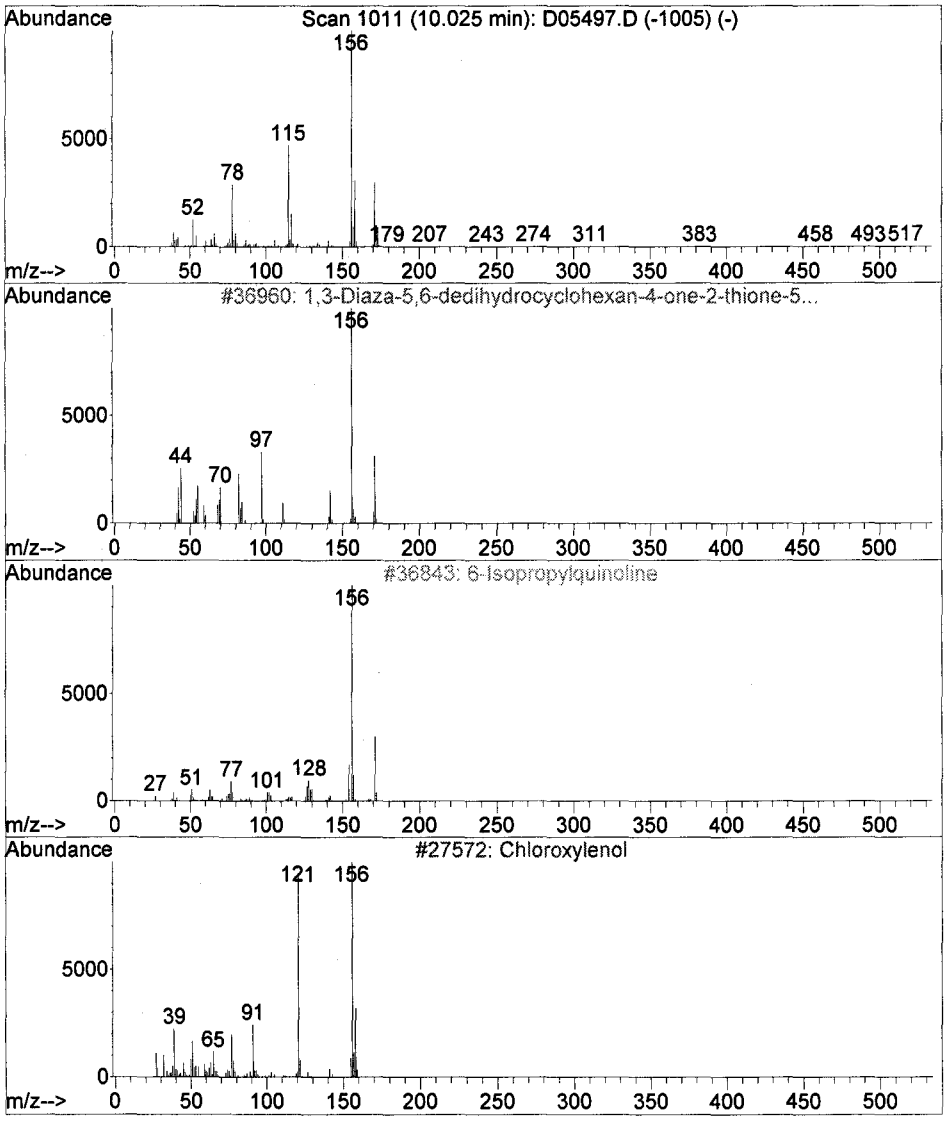
****

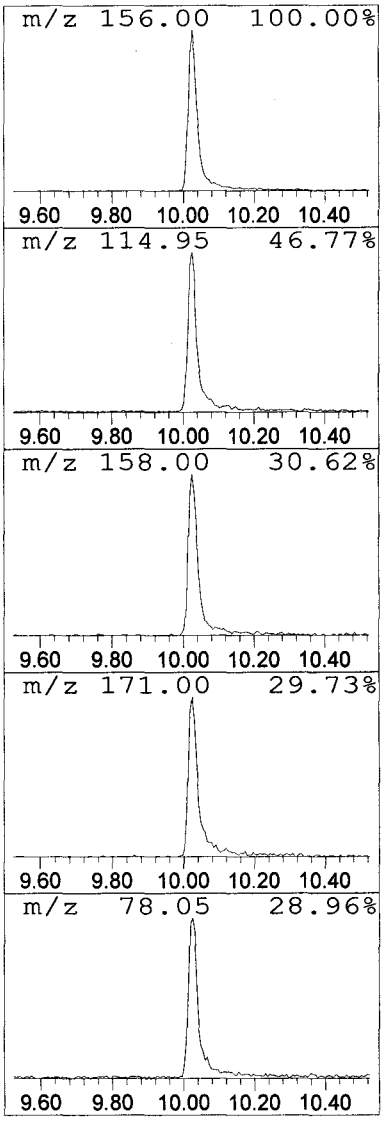
Peak Number 1 1,3-Diaza-5,6-dedihydrocycl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.03	6.53 ug/L	9274720	Naphthalene-d8	8.37

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Diaza-5,6-dedihydrocyclohexa...	171	C6H9N3OS	021263-85-4	38
2	6-Isopropylquinoline	171	C12H13N	000135-79-5	38
3	Chloroxylenol	156	C8H9ClO	000088-04-0	32
4	1,2,3,4-Tetrahydropentalene, 1,1...	171	C12H13N	1000217-18-6	25
5	Tebuthiuron	228	C9H16N4OS	034014-18-1	25





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

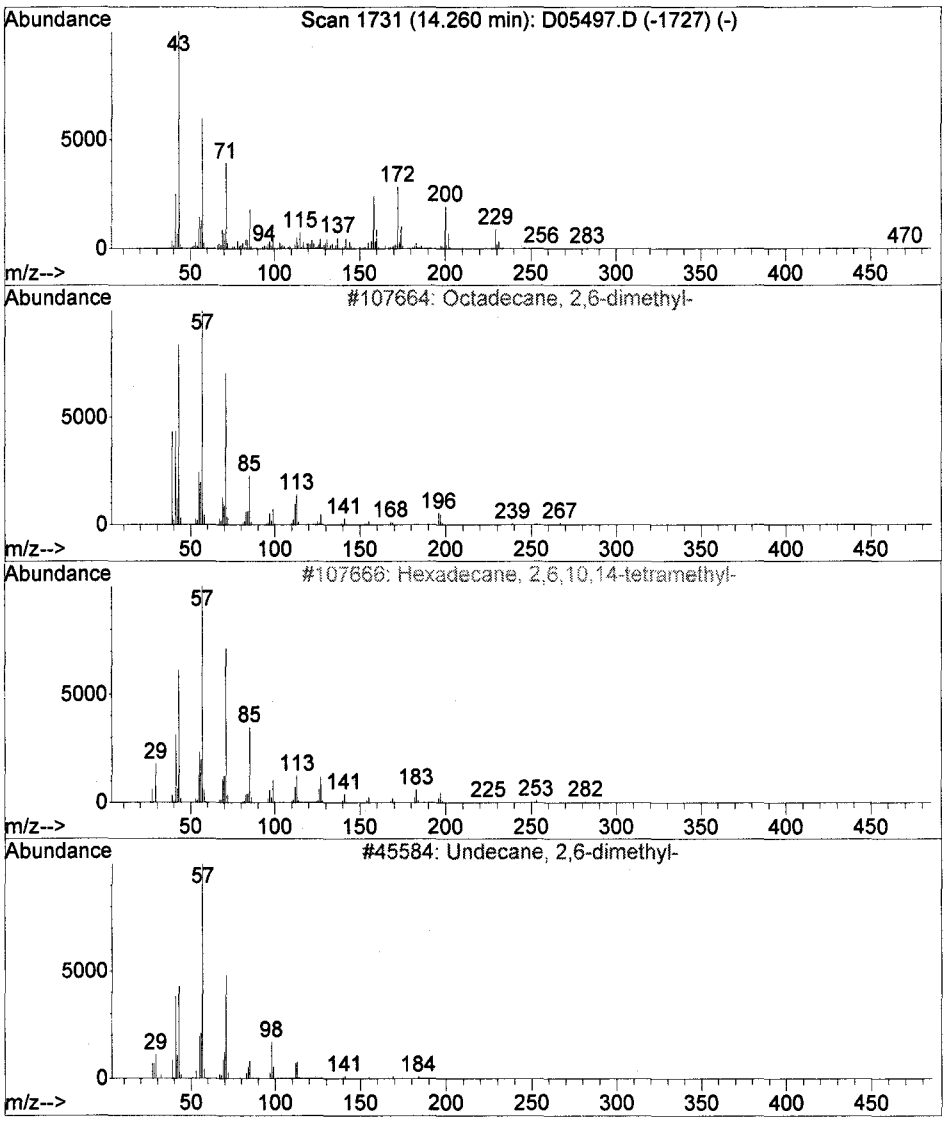
****

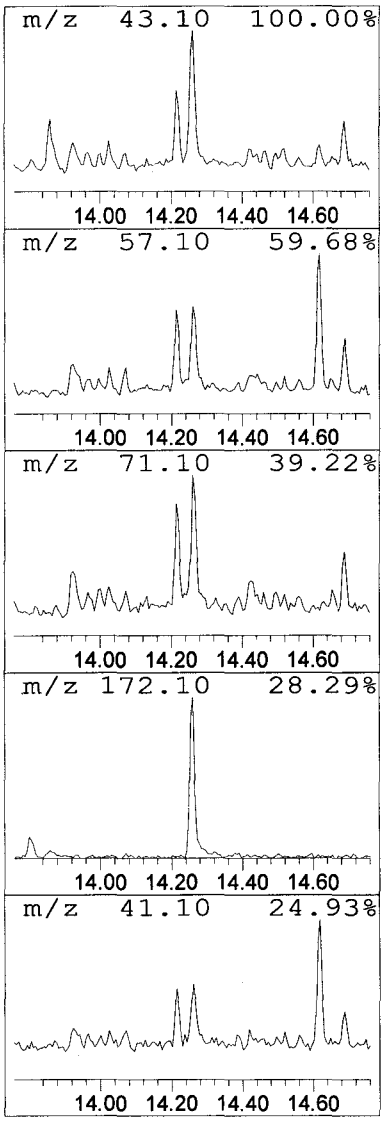
Peak Number 2 Octadecane, 2,6-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	6.73 ug/L	14565900	Phenanthrene-d10	14.32

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane, 2,6-dimethyl-	282	C20H42	075163-97-2	55
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	53
3	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	47
4	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	30
5	Undecane, 6-ethyl-	184	C13H28	017312-60-6	25





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

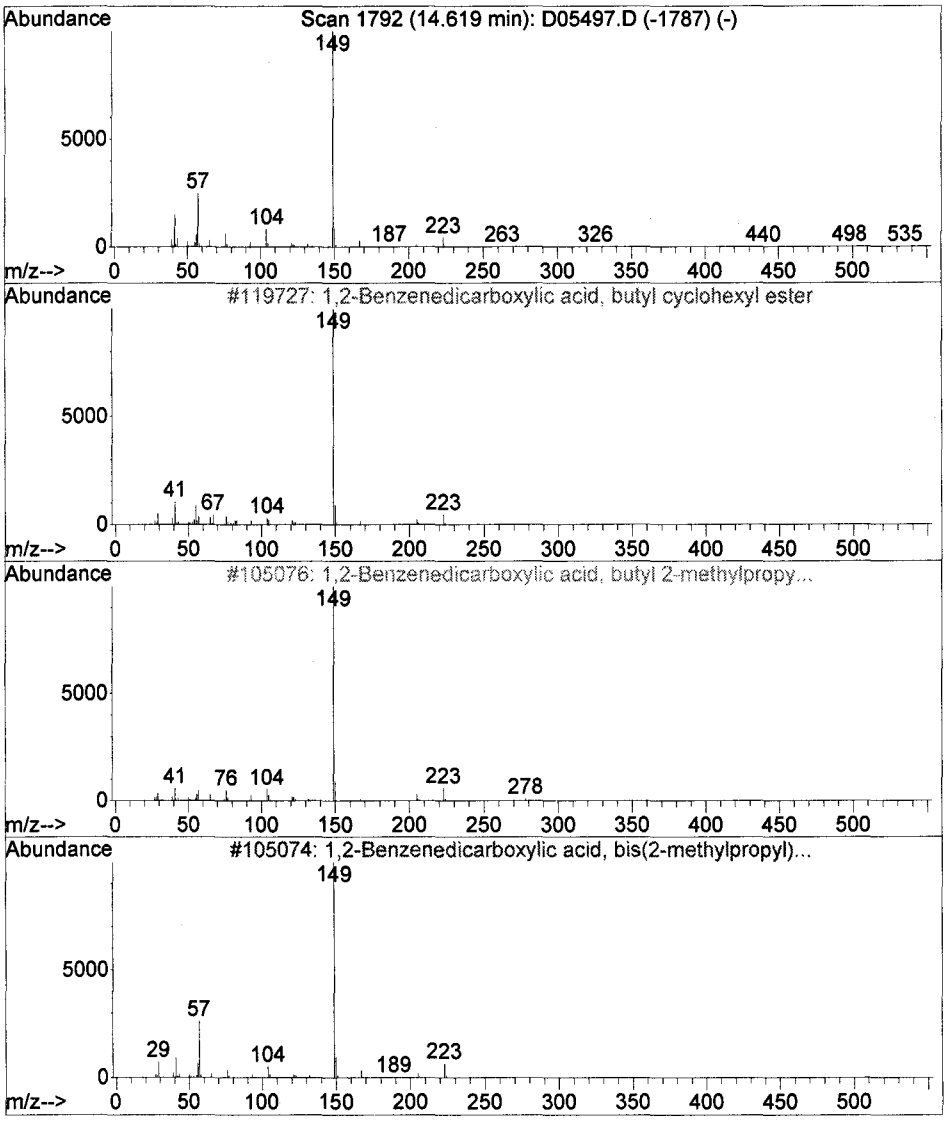
****

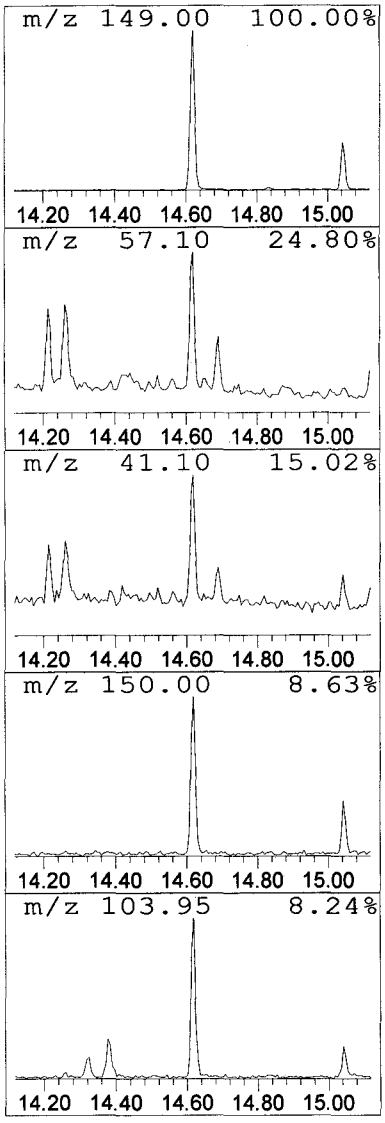
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	6.87 ug/L	14881000	Phenanthrene-d10	14.32

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
2	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
3	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	72
5	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	56





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05497.D
Acq On : 12/14/11 19:51 Operator: SV
Sample : F4XP8 Inst : D-5973
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,3-Diaza-5,6-ded...	10.03	6.5	ug/L	9274720	2	8.37	28424000	20.0
Octadecane, 2,6-d...	14.26	6.7	ug/L	14565900	4	14.32	43318500	20.0
1,2-Benzenedicarb...	14.62	6.9	ug/L	14881000	4	14.32	43318500	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.03

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05501

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	140	U
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	140	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	270	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	270	U
83-32-9	Acenaphthene	140	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.03

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05501

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	270	U
100-02-7	4-Nitrophenol	270	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	270	U
534-52-1	4,6-Dinitro-2-methylphenol	270	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	270	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	140	U
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	U
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

1 Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.03

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05501

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.86	150	J
02	000084-69-5	1,2-Benzenedicarboxylic acid,	14.62	290	NJ
03		Unknown-02	15.05	180	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 10:43:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:41:59 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2760794	20.0000 ug/L	0.00
16) Naphthalene-d8	8.36	136	12484044	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7941668	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	14022513	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	13906528	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	13123735	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	12339737	30.5941 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 76.49%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	4571756	27.6856 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 69.21%		
7) 2-Chlorophenol-d4	5.25	132	5690858	29.7856 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 74.46%		
12) 4-Methylphenol-d8	6.61	113	5185003	29.7753 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 74.44%		
17) Nitrobenzene-d5	6.84	128	2733181	29.3519 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 73.38%		
20) 2-Nitrophenol-d4	7.57	143	3040480	34.2815 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 85.70%		
24) 2,4-Dichlorophenol-d3	8.15	165	4756650	29.6078 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 74.02%		
27) 4-Chloroaniline-d4	8.66	131	5989215	33.4617 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 83.65%		
41) Acenaphthylene-d8	11.99	160	22014771	29.8960 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 74.74%		
43) Dimethylphthalate-d6	11.94	166	15513358	31.1823 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 77.96%		
49) 4-Nitrophenol-d4	12.75	143	2844580	40.4523 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 101.13%		
56) Fluorene-d10	13.08	176	13688906	28.8071 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 72.02%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1491040	33.3703 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 83.43%		
68) Anthracene-d10	14.38	188	23329267	31.0149 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 77.54%		
79) Pyrene-d10	15.89	212	24506241	30.5631 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 76.41%		
85) Benzo(a)pyrene-d12	18.86	264	18444223	30.1249 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 75.31%		

Target Compounds	Qvalue

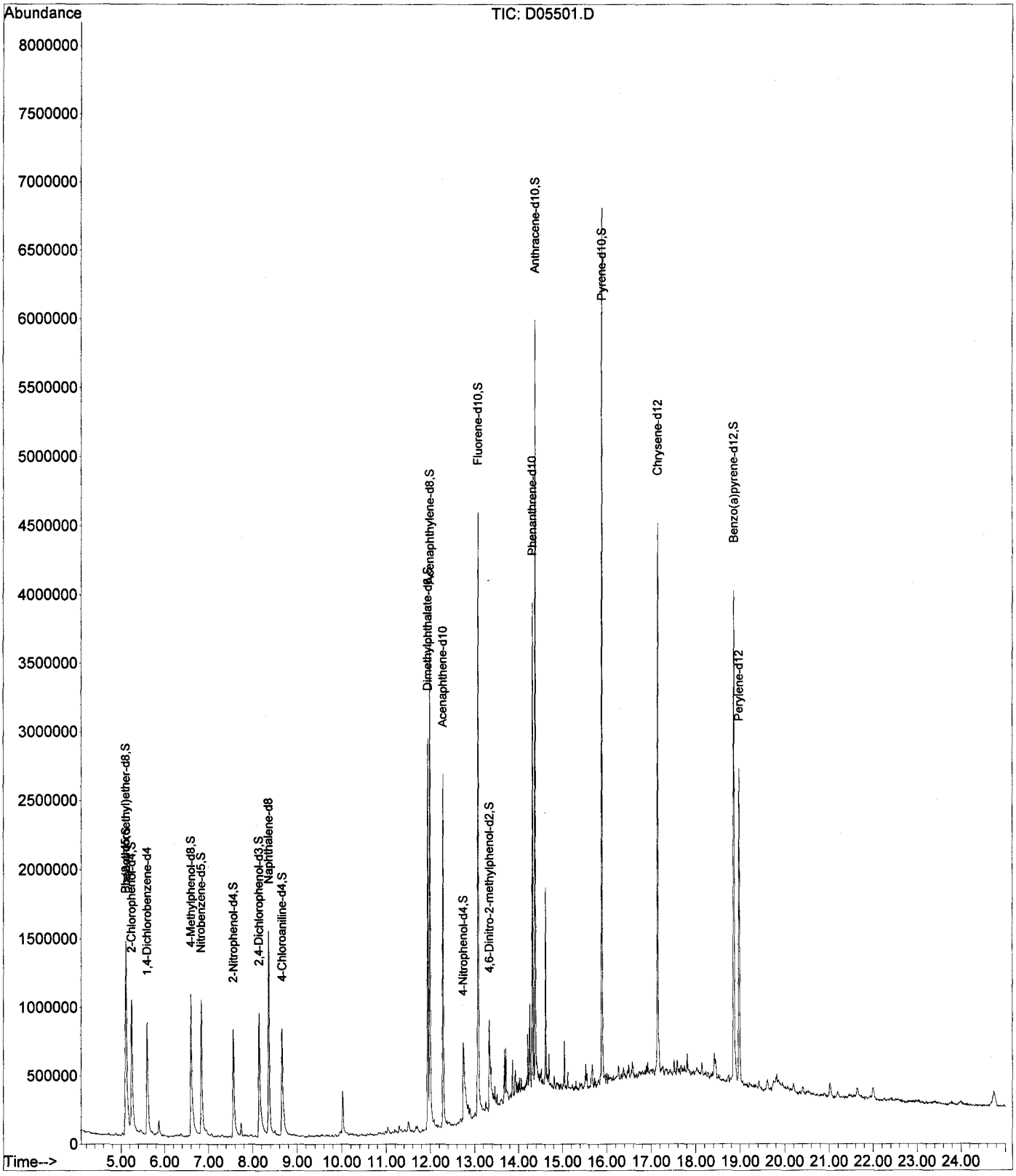
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0205

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 10:43:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:41:59 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.261	22	31	40	PV	12322	388161	0.47%	0.016%
2	4.326	40	42	46	PV 5	5174	69675	0.09%	0.003%
3	4.361	46	48	52	VV 5	4393	40315	0.05%	0.002%
4	4.396	52	54	62	VV 9	6197	108898	0.13%	0.005%
5	4.455	62	64	68	VV 5	7299	68772	0.08%	0.003%
6	4.485	68	69	74	VV 5	5326	62087	0.08%	0.003%
7	4.526	74	76	80	VV 5	5949	83353	0.10%	0.003%
8	4.555	80	81	84	VV 3	5563	45758	0.06%	0.002%
9	4.590	84	87	88	PV 3	6197	62425	0.08%	0.003%
10	4.608	88	90	92	VV 3	7704	70551	0.09%	0.003%
11	4.632	92	94	96	VV 2	7293	67773	0.08%	0.003%
12	4.649	96	97	103	VV 6	5279	107790	0.13%	0.004%
13	4.714	103	108	112	VV 8	14367	249797	0.30%	0.010%
14	4.743	112	113	115	VV 2	7913	64547	0.08%	0.003%
15	4.773	115	118	129	VV 2	7991	265819	0.32%	0.011%
16	4.879	129	136	144	VV 2	17964	490037	0.60%	0.020%
17	4.932	144	145	149	VV 4	6492	93342	0.11%	0.004%
18	4.979	149	153	157	VV 7	9774	124465	0.15%	0.005%
19	5.043	157	164	169	PV 9	22840	502423	0.61%	0.021%
20	5.120	169	177	191	VV 3	1397590	36519106	44.56%	1.511%
21	5.249	191	199	220	VV	1002659	26393439	32.20%	1.092%
22	5.385	220	222	229	VV 8	42413	1244150	1.52%	0.051%
23	5.449	229	233	249	VV 8	47099	2097523	2.56%	0.087%
24	5.555	249	251	252	VV 2	17515	194171	0.24%	0.008%
25	5.608	252	260	275	VV	819140	18830145	22.97%	0.779%
26	5.708	275	277	287	VV 9	35968	1047836	1.28%	0.043%
27	5.796	287	292	295	VV 7	22988	484577	0.59%	0.020%
28	5.873	295	305	316	VV 5	115685	3186861	3.89%	0.132%
29	5.949	316	318	320	VV 3	15308	155740	0.19%	0.006%
30	5.979	320	323	330	VV 9	17870	410306	0.50%	0.017%
31	6.026	330	331	339	VV 8	9756	287322	0.35%	0.012%
32	6.085	339	341	344	VV 4	8061	59959	0.07%	0.002%
33	6.120	344	347	349	PV 4	7119	90509	0.11%	0.004%
34	6.143	349	351	355	VV 5	7493	140145	0.17%	0.006%
35	6.190	355	359	362	VV 6	9076	156155	0.19%	0.006%
36	6.237	362	367	372	VV 9	14104	312720	0.38%	0.013%
37	6.285	372	375	379	VV 6	17541	301431	0.37%	0.012%
38	6.326	379	382	386	VV 6	15788	296792	0.36%	0.012%
39	6.373	386	390	397	VV 8	24442	615628	0.75%	0.025%
40	6.437	397	401	405	VV 7	8475	153678	0.19%	0.006%
41	6.484	405	409	413	VV 7	10585	144577	0.18%	0.006%
42	6.532	413	417	418	VV 4	9809	104448	0.13%	0.004%
43	6.549	418	420	424	VV 5	14379	234513	0.29%	0.010%
44	6.608	424	430	462	VV	1037717	26276474	32.06%	1.087%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.843	462	470	486	VV		980974	21616873	26.37%	0.895%
46	6.955	486	489	504	VV		53215	2017913	2.46%	0.084%
47	7.067	504	508	510	VV	5	28857	470356	0.57%	0.019%
48	7.084	510	511	514	VV	3	24625	225484	0.28%	0.009%
49	7.108	514	515	518	VV	3	8876	89814	0.11%	0.004%
50	7.143	518	521	524	VV	5	9942	139990	0.17%	0.006%
51	7.167	524	525	526	VV		9113	74499	0.09%	0.003%
52	7.184	526	528	531	VV	4	12166	160300	0.20%	0.007%
53	7.220	531	534	543	VV	10	15411	343897	0.42%	0.014%
54	7.302	543	548	559	VV	10	19917	647401	0.79%	0.027%
55	7.379	559	561	562	VV	2	6908	55408	0.07%	0.002%
56	7.396	562	564	570	VV	6	10922	162613	0.20%	0.007%
57	7.467	570	576	577	PV	6	7246	138371	0.17%	0.006%
58	7.484	577	579	584	VV	6	8618	112591	0.14%	0.005%
59	7.526	584	586	587	VV	2	3210	28412	0.03%	0.001%
60	7.567	587	593	617	VV		784754	17822899	21.75%	0.738%
61	7.743	617	623	630	VV		102848	1939231	2.37%	0.080%
62	7.831	630	638	642	VV		20848	526591	0.64%	0.022%
63	7.879	642	646	649	VV	6	16661	278519	0.34%	0.012%
64	7.908	649	651	652	VV	2	8072	69889	0.09%	0.003%
65	7.949	652	658	668	VV	2	16619	617687	0.75%	0.026%
66	8.020	668	670	673	VV	4	4558	63037	0.08%	0.003%
67	8.073	673	679	686	VV	4	12838	298079	0.36%	0.012%
68	8.149	686	692	721	VV		898074	24123837	29.43%	0.998%
69	8.367	721	729	749	VV		1478765	28541921	34.82%	1.181%
70	8.502	749	752	760	VV	5	51696	1202147	1.47%	0.050%
71	8.567	760	763	768	VV	6	22124	495403	0.60%	0.021%
72	8.608	768	770	771	VV	2	14509	158551	0.19%	0.007%
73	8.661	771	779	804	VV		788890	20610373	25.15%	0.853%
74	8.826	804	807	815	VV	9	25271	754358	0.92%	0.031%
75	8.884	815	817	818	VV	2	17968	153805	0.19%	0.006%
76	8.908	818	821	823	VV	4	19927	309783	0.38%	0.013%
77	8.931	823	825	826	VV	2	14770	136480	0.17%	0.006%
78	8.949	826	828	832	VV	5	18882	279116	0.34%	0.012%
79	8.984	832	834	839	VV	6	13470	235166	0.29%	0.010%
80	9.025	839	841	846	VV	6	6560	131495	0.16%	0.005%
81	9.084	846	851	853	VV	5	6532	116029	0.14%	0.005%
82	9.120	853	857	863	VV	9	8869	233418	0.28%	0.010%
83	9.167	863	865	869	VV	5	6209	68991	0.08%	0.003%
84	9.202	869	871	879	PV	9	5309	69908	0.09%	0.003%
85	9.273	879	883	885	VV	5	16927	209665	0.26%	0.009%
86	9.320	885	891	894	VV	8	9983	236613	0.29%	0.010%
87	9.349	894	896	897	VV	2	7635	59893	0.07%	0.002%
88	9.367	897	899	904	VV	6	8868	134878	0.16%	0.006%
89	9.408	904	906	908	VV	3	9568	79803	0.10%	0.003%
90	9.437	908	911	915	VV	6	11614	235979	0.29%	0.010%
91	9.473	915	917	919	VV	3	10204	105723	0.13%	0.004%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.496	919	921	924	VV	4	9005	104746	0.13%	0.004%
93	9.531	924	927	929	VV	4	12612	118468	0.14%	0.005%
94	9.561	929	932	945	VV	4	19989	536903	0.66%	0.022%
95	9.655	945	948	954	VV	9	15860	298945	0.36%	0.012%
96	9.714	954	958	962	VV	7	13331	192602	0.23%	0.008%
97	9.749	962	964	965	VV	2	3588	31158	0.04%	0.001%
98	9.790	965	971	978	VV	8	12760	238033	0.29%	0.010%
99	9.867	978	984	989	PV	9	15225	306605	0.37%	0.013%
100	9.955	989	999	1000	VV	8	29899	475105	0.58%	0.020%
101	9.973	1000	1002	1005	VV	4	36501	535234	0.65%	0.022%
102	10.025	1005	1011	1022	VV		327606	6667503	8.13%	0.276%
103	10.096	1022	1023	1028	VV	4	28874	591517	0.72%	0.024%
104	10.131	1028	1029	1036	VV	7	24611	397736	0.49%	0.016%
105	10.196	1036	1040	1046	VV	9	21798	609958	0.74%	0.025%
106	10.243	1046	1048	1052	VV	4	22137	354250	0.43%	0.015%
107	10.278	1052	1054	1056	VV	3	12796	149917	0.18%	0.006%
108	10.308	1056	1059	1063	VV	6	13547	240087	0.29%	0.010%
109	10.343	1063	1065	1070	VV	6	12676	143603	0.18%	0.006%
110	10.390	1070	1073	1075	VV	4	5468	39819	0.05%	0.002%
111	10.420	1075	1078	1082	VV	5	13177	221421	0.27%	0.009%
112	10.455	1082	1084	1087	VV	4	14761	135837	0.17%	0.006%
113	10.508	1087	1093	1098	VV	10	8532	181064	0.22%	0.007%
114	10.584	1098	1106	1112	VV	10	13694	312068	0.38%	0.013%
115	10.643	1112	1116	1120	VV	7	16797	266633	0.33%	0.011%
116	10.678	1120	1122	1123	VV	2	9340	87682	0.11%	0.004%
117	10.696	1123	1125	1129	VV	5	9038	97772	0.12%	0.004%
118	10.761	1129	1136	1142	PV	5	7526	145699	0.18%	0.006%
119	10.808	1142	1144	1145	VV	2	8650	72582	0.09%	0.003%
120	10.843	1145	1150	1153	VV	6	19185	388290	0.47%	0.016%
121	10.867	1153	1154	1159	VV	5	16519	243820	0.30%	0.010%
122	10.931	1159	1165	1170	VV	10	15250	359050	0.44%	0.015%
123	10.990	1170	1175	1179	VV	8	25974	511641	0.62%	0.021%
124	11.037	1179	1183	1193	VV	6	53273	1379887	1.68%	0.057%
125	11.108	1193	1195	1197	VV	3	12002	136908	0.17%	0.006%
126	11.143	1197	1201	1207	VV	8	20230	491598	0.60%	0.020%
127	11.196	1207	1210	1214	VV	5	35095	593427	0.72%	0.025%
128	11.243	1214	1218	1223	VV	8	23999	506712	0.62%	0.021%
129	11.296	1223	1227	1233	VV	4	63555	1371304	1.67%	0.057%
130	11.343	1233	1235	1239	VV	5	36657	643589	0.79%	0.027%
131	11.378	1239	1241	1242	VV	2	22295	233708	0.29%	0.010%
132	11.425	1242	1249	1252	VV	9	35251	867755	1.06%	0.036%
133	11.508	1252	1263	1272	VV	2	89352	2989933	3.65%	0.124%
134	11.590	1272	1277	1280	VV	7	26106	574634	0.70%	0.024%
135	11.619	1280	1282	1284	VV	3	18549	212120	0.26%	0.009%
136	11.678	1284	1292	1295	VV	10	52040	1115984	1.36%	0.046%
137	11.708	1295	1297	1310	VV	10	55049	1367346	1.67%	0.057%
138	11.825	1310	1317	1321	VV	8	28593	657616	0.80%	0.027%
139	11.872	1321	1325	1326	VV	4	23364	419476	0.51%	0.017%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.890	1326	1328	1330	VV	3	24898	266607	0.33%	0.011%
141	11.943	1330	1337	1341	VV		2775099	34549140	42.15%	1.430%
142	11.990	1341	1345	1358	VV		3498180	51055162	62.29%	2.113%
143	12.084	1358	1361	1368	VV	7	96910	2429223	2.96%	0.101%
144	12.143	1368	1371	1374	VV	5	58206	1115466	1.36%	0.046%
145	12.178	1374	1377	1384	VV	9	56344	1447770	1.77%	0.060%
146	12.231	1384	1386	1389	VV	4	43313	733865	0.90%	0.030%
147	12.290	1389	1396	1407	VV		2591285	36536126	44.58%	1.512%
148	12.372	1407	1410	1413	VV	5	84978	1594985	1.95%	0.066%
149	12.419	1413	1418	1429	VV	5	77060	3593220	4.38%	0.149%
150	12.508	1429	1433	1436	VV	6	56967	1298741	1.58%	0.054%
151	12.549	1436	1440	1447	VV	10	60039	2122640	2.59%	0.088%
152	12.602	1447	1449	1451	VV	3	59436	737220	0.90%	0.031%
153	12.631	1451	1454	1457	VV	5	72508	1478786	1.80%	0.061%
154	12.678	1457	1462	1466	VV	5	95903	2495478	3.04%	0.103%
155	12.749	1466	1474	1489	VV	2	645972	24385804	29.75%	1.009%
156	12.855	1489	1492	1496	VV	4	194925	3863280	4.71%	0.160%
157	12.896	1496	1499	1507	VV	5	170107	4877637	5.95%	0.202%
158	13.008	1507	1518	1523	VV	10	134305	5980706	7.30%	0.247%
159	13.084	1523	1531	1547	VV		4475180	68981117	84.16%	2.855%
160	13.202	1547	1551	1555	VV	7	160669	4553632	5.56%	0.188%
161	13.261	1555	1561	1564	VV	6	209740	5176938	6.32%	0.214%
162	13.290	1564	1566	1570	VV	5	165013	3134107	3.82%	0.130%
163	13.337	1570	1574	1589	VV	3	816699	26580899	32.43%	1.100%
164	13.437	1589	1591	1593	VV	2	262454	3829005	4.67%	0.158%
165	13.466	1593	1596	1601	VV		323430	6636468	8.10%	0.275%
166	13.513	1601	1604	1607	VV		259089	4701571	5.74%	0.195%
167	13.543	1607	1609	1611	VV	3	192900	2531751	3.09%	0.105%
168	13.560	1611	1612	1615	VV	3	194153	2932024	3.58%	0.121%
169	13.613	1615	1621	1627	VV	10	226079	8742238	10.67%	0.362%
170	13.684	1627	1633	1635	VV		562469	10014845	12.22%	0.414%
171	13.713	1635	1638	1642	VV		602563	9693708	11.83%	0.401%
172	13.749	1642	1644	1651	VV	8	279291	8015347	9.78%	0.332%
173	13.819	1651	1656	1658	VV	5	260683	6313475	7.70%	0.261%
174	13.860	1658	1663	1670	VV		483085	12953897	15.80%	0.536%
175	13.931	1670	1675	1679	VV	3	426368	10264528	12.52%	0.425%
176	13.966	1679	1681	1684	VV	3	341849	5872807	7.17%	0.243%
177	14.002	1684	1687	1689	VV		328139	4670452	5.70%	0.193%
178	14.025	1689	1691	1696	VV	2	371786	7395541	9.02%	0.306%
179	14.072	1696	1699	1707	VV	4	367879	12860414	15.69%	0.532%
180	14.137	1707	1710	1712	VV	4	307867	4626390	5.64%	0.191%
181	14.160	1712	1714	1716	VV	3	321834	3992685	4.87%	0.165%
182	14.184	1716	1718	1720	VV	3	343962	5241818	6.40%	0.217%
183	14.219	1720	1724	1726	VV		648858	9904670	12.08%	0.410%
184	14.260	1726	1731	1737	VV	2	895277	19180462	23.40%	0.794%
185	14.325	1737	1742	1747	VV		3626159	46268762	56.45%	1.915%
186	14.378	1747	1751	1764	VV		5517347	76903768	93.83%	3.182%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.466	1764	1766	1769	VV	4	397315	6696749	8.17%	0.277%
188	14.496	1769	1771	1773	VV	3	396773	5146015	6.28%	0.213%
189	14.519	1773	1775	1777	VV	2	431576	6185637	7.55%	0.256%
190	14.543	1777	1779	1780	VV	2	343184	3251778	3.97%	0.135%
191	14.560	1780	1782	1787	VV	4	359176	8165407	9.96%	0.338%
192	14.619	1787	1792	1796	VV		1756952	24658200	30.08%	1.020%
193	14.655	1796	1798	1801	VV	4	391666	6492609	7.92%	0.269%
194	14.690	1801	1804	1808	VV		526336	9630270	11.75%	0.399%
195	14.725	1808	1810	1812	VV	3	324165	3885273	4.74%	0.161%
196	14.743	1812	1813	1816	VV	3	322779	5072206	6.19%	0.210%
197	14.772	1816	1818	1823	VV	6	310678	6671514	8.14%	0.276%
198	14.819	1823	1826	1832	VV	4	379829	10788245	13.16%	0.446%
199	14.890	1832	1838	1844	VV	9	326215	13168378	16.07%	0.545%
200	14.943	1844	1847	1849	VV	4	308795	4531413	5.53%	0.188%
201	14.966	1849	1851	1857	VV	7	319678	8211407	10.02%	0.340%
202	15.013	1857	1859	1861	VV	3	314659	4716767	5.75%	0.195%
203	15.043	1861	1864	1873	VV		603334	14661972	17.89%	0.607%
204	15.125	1873	1878	1883	VV		396870	11598926	14.15%	0.480%
205	15.166	1883	1885	1888	VV	4	288421	4548379	5.55%	0.188%
206	15.202	1888	1891	1893	VV	4	282928	4940545	6.03%	0.204%
207	15.231	1893	1896	1899	VV	4	306497	6864516	8.38%	0.284%
208	15.266	1899	1902	1904	VV	4	286691	3924637	4.79%	0.162%
209	15.284	1904	1905	1907	VV	2	291631	3432129	4.19%	0.142%
210	15.313	1907	1910	1915	VV	7	326124	8367028	10.21%	0.346%
211	15.355	1915	1917	1920	VV	4	279707	4211298	5.14%	0.174%
212	15.396	1920	1924	1927	VV	5	313972	7997161	9.76%	0.331%
213	15.437	1927	1931	1934	VV	6	311153	7461635	9.10%	0.309%
214	15.472	1934	1937	1939	VV	4	283418	3988954	4.87%	0.165%
215	15.525	1939	1946	1948	VV		448490	11556175	14.10%	0.478%
216	15.554	1948	1951	1958	VV	8	382801	10917423	13.32%	0.452%
217	15.625	1958	1963	1964	VV	5	291152	6409157	7.82%	0.265%
218	15.678	1964	1972	1978	VV	2	446253	16658905	20.33%	0.689%
219	15.731	1978	1981	1983	VV	4	351590	5666745	6.91%	0.234%
220	15.754	1983	1985	1987	VV	3	326233	4970109	6.06%	0.206%
221	15.784	1987	1990	1991	VV	3	301650	4122348	5.03%	0.171%
222	15.825	1991	1997	2001	VV	2	334261	10572837	12.90%	0.438%
223	15.890	2001	2008	2017	VV		6185080	81961952	100.00%	3.392%
224	15.960	2017	2020	2024	VV	6	371813	8861999	10.81%	0.367%
225	16.002	2024	2027	2031	VV	4	378666	8233573	10.05%	0.341%
226	16.043	2031	2034	2036	VV	4	368083	6693379	8.17%	0.277%
227	16.072	2036	2039	2041	VV	4	344498	5662621	6.91%	0.234%
228	16.096	2041	2043	2048	VV	6	351696	8193768	10.00%	0.339%
229	16.154	2048	2053	2057	VV	8	356874	10363733	12.64%	0.429%
230	16.196	2057	2060	2062	VV	4	343053	6092261	7.43%	0.252%
231	16.225	2062	2065	2068	VV	5	355321	7072489	8.63%	0.293%
232	16.266	2068	2072	2080	VV	8	428321	15823919	19.31%	0.655%
233	16.331	2080	2083	2087	VV	6	370082	9039876	11.03%	0.374%
234	16.372	2087	2090	2103	VV	9	411177	20743625	25.31%	0.858%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.472	2103	2107	2109	VV	2	391612	7632675	9.31%	0.316%
236	16.496	2109	2111	2118	VV	5	427447	11052048	13.48%	0.457%
237	16.560	2118	2122	2123	VV	4	396524	7621958	9.30%	0.315%
238	16.584	2123	2126	2137	VV	4	448648	18190934	22.19%	0.753%
239	16.672	2137	2141	2145	VV	7	366873	9919864	12.10%	0.410%
240	16.725	2145	2150	2157	VV	7	381697	14880996	18.16%	0.616%
241	16.778	2157	2159	2160	VV	2	372217	4517231	5.51%	0.187%
242	16.796	2160	2162	2166	VV	4	380551	8403307	10.25%	0.348%
243	16.831	2166	2168	2172	VV	5	372520	6796846	8.29%	0.281%
244	16.866	2172	2174	2176	VV	3	390500	5533800	6.75%	0.229%
245	16.896	2176	2179	2181	VV	3	425411	7423997	9.06%	0.307%
246	16.925	2181	2184	2187	VV	4	445238	8558554	10.44%	0.354%
247	16.954	2187	2189	2190	VV	2	375513	4191092	5.11%	0.173%
248	17.013	2190	2199	2201	VV	9	392695	14701686	17.94%	0.608%
249	17.043	2201	2204	2210	VV	8	394860	11494270	14.02%	0.476%
250	17.154	2210	2223	2232	VV		4400889	75261609	91.83%	3.114%
251	17.219	2232	2234	2236	VV	3	396050	4924543	6.01%	0.204%
252	17.249	2236	2239	2240	VV	3	403045	5763282	7.03%	0.238%
253	17.266	2240	2242	2246	VV	5	412014	8709596	10.63%	0.360%
254	17.337	2246	2254	2257	VV	10	393250	14080553	17.18%	0.583%
255	17.360	2257	2258	2261	VV	3	384412	5228408	6.38%	0.216%
256	17.390	2261	2263	2267	VV	5	366579	7114692	8.68%	0.294%
257	17.431	2267	2270	2278	VV	10	384922	15175481	18.52%	0.628%
258	17.519	2278	2285	2293	VV	10	449727	18864797	23.02%	0.781%
259	17.590	2293	2297	2302	VV	3	450556	13387560	16.33%	0.554%
260	17.631	2302	2304	2308	VV	4	389626	7834478	9.56%	0.324%
261	17.672	2308	2311	2315	VV	5	411360	8991736	10.97%	0.372%
262	17.713	2315	2318	2322	VV	6	392168	9213556	11.24%	0.381%
263	17.748	2322	2324	2327	VV	4	407103	7386992	9.01%	0.306%
264	17.813	2327	2335	2339	VV		496920	16528977	20.17%	0.684%
265	17.848	2339	2341	2348	VV	8	380871	11609705	14.16%	0.480%
266	17.919	2348	2353	2355	VV	6	360990	8292271	10.12%	0.343%
267	17.943	2355	2357	2361	VV	5	364029	8253183	10.07%	0.342%
268	18.001	2361	2367	2368	VV	6	365670	8534782	10.41%	0.353%
269	18.025	2368	2371	2376	VV	6	390324	10484786	12.79%	0.434%
270	18.060	2376	2377	2380	VV	3	368964	5032659	6.14%	0.208%
271	18.096	2380	2383	2385	VV	4	354395	6099932	7.44%	0.252%
272	18.143	2385	2391	2396	VV	3	421687	14443491	17.62%	0.598%
273	18.195	2396	2400	2402	VV	5	347693	7162308	8.74%	0.296%
274	18.225	2402	2405	2410	VV	7	355424	8802850	10.74%	0.364%
275	18.284	2410	2415	2421	VV	10	351544	13827620	16.87%	0.572%
276	18.343	2421	2425	2427	VV	5	343691	6446166	7.86%	0.267%
277	18.372	2427	2430	2432	VV	4	351778	6304389	7.69%	0.261%
278	18.419	2432	2438	2441	VV		487011	11624526	14.18%	0.481%
279	18.448	2441	2443	2450	VV		444158	12271761	14.97%	0.508%
280	18.513	2450	2454	2457	VV	6	330793	7274514	8.88%	0.301%
281	18.543	2457	2459	2461	VV	3	318140	5019984	6.12%	0.208%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05
Operator: SV
Sample : F4XP9
Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	18.572	2461	2464	2466	VV	4	296233	5024244	6.13%	0.208%
283	18.595	2466	2468	2472	VV	5	293258	5595560	6.83%	0.232%
284	18.625	2472	2473	2481	VV	8	292986	8865420	10.82%	0.367%
285	18.690	2481	2484	2487	VV	5	286738	6662145	8.13%	0.276%
286	18.737	2487	2492	2496	VV	7	321905	9526514	11.62%	0.394%
287	18.784	2496	2500	2503	VV	6	301200	6814587	8.31%	0.282%
288	18.860	2503	2513	2527	VV		3781053	81308252	99.20%	3.365%
289	18.978	2527	2533	2545	VV		2491312	52584575	64.16%	2.176%
290	19.060	2545	2547	2552	VV	6	277394	6207392	7.57%	0.257%
291	19.101	2552	2554	2558	VV	5	255655	5587212	6.82%	0.231%
292	19.154	2558	2563	2564	VV	5	253986	5708541	6.96%	0.236%
293	19.172	2564	2566	2568	VV	3	245134	2786760	3.40%	0.115%
294	19.213	2568	2573	2577	VV	8	259610	7744463	9.45%	0.320%
295	19.242	2577	2578	2580	VV	2	249792	2645384	3.23%	0.109%
296	19.266	2580	2582	2587	VV	6	243741	5996418	7.32%	0.248%
297	19.307	2587	2589	2595	VV	7	244144	6237877	7.61%	0.258%
298	19.354	2595	2597	2605	VV	9	246194	8352948	10.19%	0.346%
299	19.425	2605	2609	2616	VV	10	270604	9267162	11.31%	0.383%
300	19.472	2616	2617	2623	VV	6	221278	5187398	6.33%	0.215%
301	19.519	2623	2625	2627	VV	3	206277	2944458	3.59%	0.122%
302	19.548	2627	2630	2632	VV	4	207796	3354778	4.09%	0.139%
303	19.619	2632	2642	2648	VV	4	275628	13139864	16.03%	0.544%
304	19.660	2648	2649	2651	VV	2	209299	2226427	2.72%	0.092%
305	19.684	2651	2653	2654	VV	2	214791	2375643	2.90%	0.098%
306	19.701	2654	2656	2658	VV	3	217222	2507201	3.06%	0.104%
307	19.754	2658	2665	2671	VV	3	266827	11903560	14.52%	0.493%
308	19.819	2671	2676	2682	VV	10	308371	9842664	12.01%	0.407%
309	19.866	2682	2684	2688	VV	5	271088	5795454	7.07%	0.240%
310	19.895	2688	2689	2691	VV	2	248140	2917934	3.56%	0.121%
311	19.919	2691	2693	2695	VV	3	237741	3269260	3.99%	0.135%
312	19.948	2695	2698	2704	VV	8	251505	6904226	8.42%	0.286%
313	19.995	2704	2706	2715	VV	10	216522	8092454	9.87%	0.335%
314	20.072	2715	2719	2726	VV	10	223716	8122356	9.91%	0.336%
315	20.131	2726	2729	2735	VV	8	205832	6163124	7.52%	0.255%
316	20.201	2735	2741	2751	VV	3	239103	11730113	14.31%	0.485%
317	20.272	2751	2753	2758	VV	6	177831	4163704	5.08%	0.172%
318	20.313	2758	2760	2761	VV	2	170106	2087716	2.55%	0.086%
319	20.331	2761	2763	2765	VV	3	178396	2226392	2.72%	0.092%
320	20.354	2765	2767	2769	VV	3	178645	2435300	2.97%	0.101%
321	20.407	2769	2776	2785	VV	3	211328	10282074	12.54%	0.425%
322	20.484	2785	2789	2790	VV	4	177144	3007754	3.67%	0.124%
323	20.513	2790	2794	2797	VV	6	181349	4158659	5.07%	0.172%
324	20.542	2797	2799	2808	VV	10	180772	6150899	7.50%	0.255%
325	20.607	2808	2810	2815	VV	6	162274	4085178	4.98%	0.169%
326	20.648	2815	2817	2826	VV	10	160343	5675985	6.93%	0.235%
327	20.713	2826	2828	2829	VV	2	153599	1884745	2.30%	0.078%
328	20.736	2829	2832	2839	VV	9	154880	5235753	6.39%	0.217%
329	20.807	2839	2844	2846	VV	6	150208	3329851	4.06%	0.138%

5213

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	20.831	2846	2848	2854	VV	7	151156	4114775	5.02%	0.170%
331	20.889	2854	2858	2863	VV	8	158463	4881288	5.96%	0.202%
332	20.931	2863	2865	2867	VV	3	146836	1700564	2.07%	0.070%
333	20.954	2867	2869	2871	VV	3	144436	1990333	2.43%	0.082%
334	21.019	2871	2880	2893	VV	6	234436	12765375	15.57%	0.528%
335	21.131	2893	2899	2901	VV	7	133729	3879183	4.73%	0.161%
336	21.195	2901	2910	2920	VV	7	166295	9565107	11.67%	0.396%
337	21.278	2920	2924	2926	VV	5	128841	2677154	3.27%	0.111%
338	21.319	2926	2931	2937	VV	10	131518	4458365	5.44%	0.184%
339	21.366	2937	2939	2942	VV	4	131910	2512455	3.07%	0.104%
340	21.395	2942	2944	2948	VV	5	125575	2221174	2.71%	0.092%
341	21.460	2948	2955	2957	VV	8	141681	4282030	5.22%	0.177%
342	21.501	2957	2962	2965	VV	7	139539	3770885	4.60%	0.156%
343	21.531	2965	2967	2969	VV	3	130916	1781738	2.17%	0.074%
344	21.566	2969	2973	2979	VV	9	135050	4546553	5.55%	0.188%
345	21.636	2979	2985	2992	VV	6	183966	7123919	8.69%	0.295%
346	21.683	2992	2993	2996	VV	3	138120	1886243	2.30%	0.078%
347	21.713	2996	2998	3011	VV	3	130642	6416509	7.83%	0.266%
348	21.848	3011	3021	3024	VV	3	117001	5058888	6.17%	0.209%
349	21.931	3024	3035	3037	VV	3	123862	4739583	5.78%	0.196%
350	21.948	3037	3038	3040	VV	2	120895	1504372	1.84%	0.062%
351	22.001	3040	3047	3065	VV	2	181544	10972152	13.39%	0.454%
352	22.119	3065	3067	3072	VV	6	96898	2085191	2.54%	0.086%
353	22.160	3072	3074	3076	VV	3	91763	1262247	1.54%	0.052%
354	22.183	3076	3078	3079	VV	2	96212	1105729	1.35%	0.046%
355	22.260	3079	3091	3097	VV	2	104689	5530581	6.75%	0.229%
356	22.301	3097	3098	3100	VV	2	87878	1085854	1.32%	0.045%
357	22.325	3100	3102	3109	VV	8	93103	2891465	3.53%	0.120%
358	22.378	3109	3111	3114	VV	4	95596	1542043	1.88%	0.064%
359	22.413	3114	3117	3118	VV	3	103333	1520529	1.86%	0.063%
360	22.431	3118	3120	3125	VV	6	99871	1994063	2.43%	0.083%
361	22.478	3125	3128	3130	VV	4	87367	1621191	1.98%	0.067%
362	22.507	3130	3133	3135	VV	4	92671	1428805	1.74%	0.059%
363	22.531	3135	3137	3140	VV	4	92453	1512980	1.85%	0.063%
364	22.560	3140	3142	3146	VV	5	93746	1892934	2.31%	0.078%
365	22.589	3146	3147	3150	VV	3	86919	1179804	1.44%	0.049%
366	22.642	3150	3156	3164	VV	3	84655	3545023	4.33%	0.147%
367	22.695	3164	3165	3167	VV	2	73522	958545	1.17%	0.040%
368	22.719	3167	3169	3171	VV	3	73165	853492	1.04%	0.035%
369	22.748	3171	3174	3178	VV	6	70285	1558517	1.90%	0.064%
370	22.783	3178	3180	3189	VV	10	68497	2698286	3.29%	0.112%
371	22.866	3189	3194	3196	VV	6	72975	1632603	1.99%	0.068%
372	22.889	3196	3198	3218	VV	6	74944	5191259	6.33%	0.215%
373	23.019	3218	3220	3231	VV	6	75102	3125003	3.81%	0.129%
374	23.107	3231	3235	3238	VV	6	65803	1423249	1.74%	0.059%
375	23.136	3238	3240	3247	VV	7	63381	1665601	2.03%	0.069%
376	23.207	3247	3252	3257	VV	9	66460	2039134	2.49%	0.084%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.266	3257	3262	3265	VV	7	54508	1332292	1.63%	0.055%
378	23.301	3265	3268	3269	VV	3	59983	939809	1.15%	0.039%
379	23.319	3269	3271	3273	VV	3	59053	720194	0.88%	0.030%
380	23.395	3273	3284	3287	VV	3	65873	2812657	3.43%	0.116%
381	23.425	3287	3289	3296	VV	8	61258	1685933	2.06%	0.070%
382	23.495	3296	3301	3308	VV	8	54247	1868138	2.28%	0.077%
383	23.548	3308	3310	3336	VV	8	46266	3787973	4.62%	0.157%
384	23.736	3336	3342	3346	VV	9	45730	1354189	1.65%	0.056%
385	23.783	3346	3350	3353	VV	6	51007	1113549	1.36%	0.046%
386	23.807	3353	3354	3357	VV	3	49402	556088	0.68%	0.023%
387	23.836	3357	3359	3363	VV	5	40720	777654	0.95%	0.032%
388	24.001	3363	3387	3400	VV	5	55661	4780416	5.83%	0.198%
389	24.142	3400	3411	3414	VV	5	35454	1348437	1.65%	0.056%
390	24.172	3414	3416	3419	VV	4	29293	384729	0.47%	0.016%
391	24.219	3419	3424	3430	VV	10	26305	874164	1.07%	0.036%
392	24.277	3430	3434	3440	VV	9	24159	689578	0.84%	0.029%
393	24.342	3440	3445	3451	VV	10	28603	732365	0.89%	0.030%
394	24.383	3451	3452	3463	VV	10	23189	852133	1.04%	0.035%
395	24.519	3463	3475	3478	VV	10	23653	774166	0.94%	0.032%
396	24.583	3478	3486	3490	VV	10	15710	556622	0.68%	0.023%
397	24.624	3490	3493	3495	VV	4	20896	219351	0.27%	0.009%
398	24.742	3495	3513	3532	VV	4	113326	5689363	6.94%	0.235%
399	24.866	3532	3534	3542	VV	9	6515	148411	0.18%	0.006%
400	24.936	3542	3546	3548	PV	5	5296	42990	0.05%	0.002%

Sum of corrected areas: 2416547044

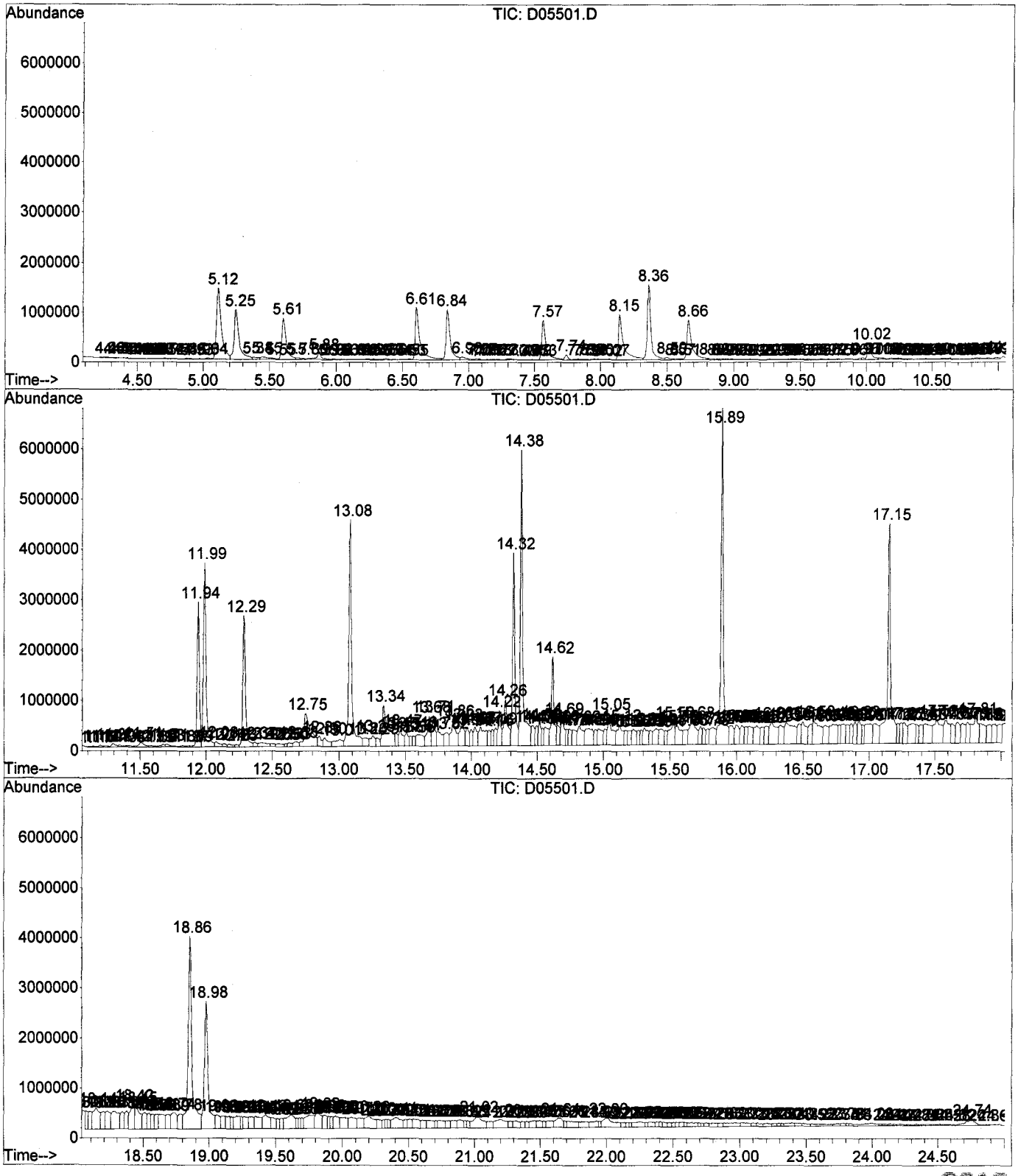
0215

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

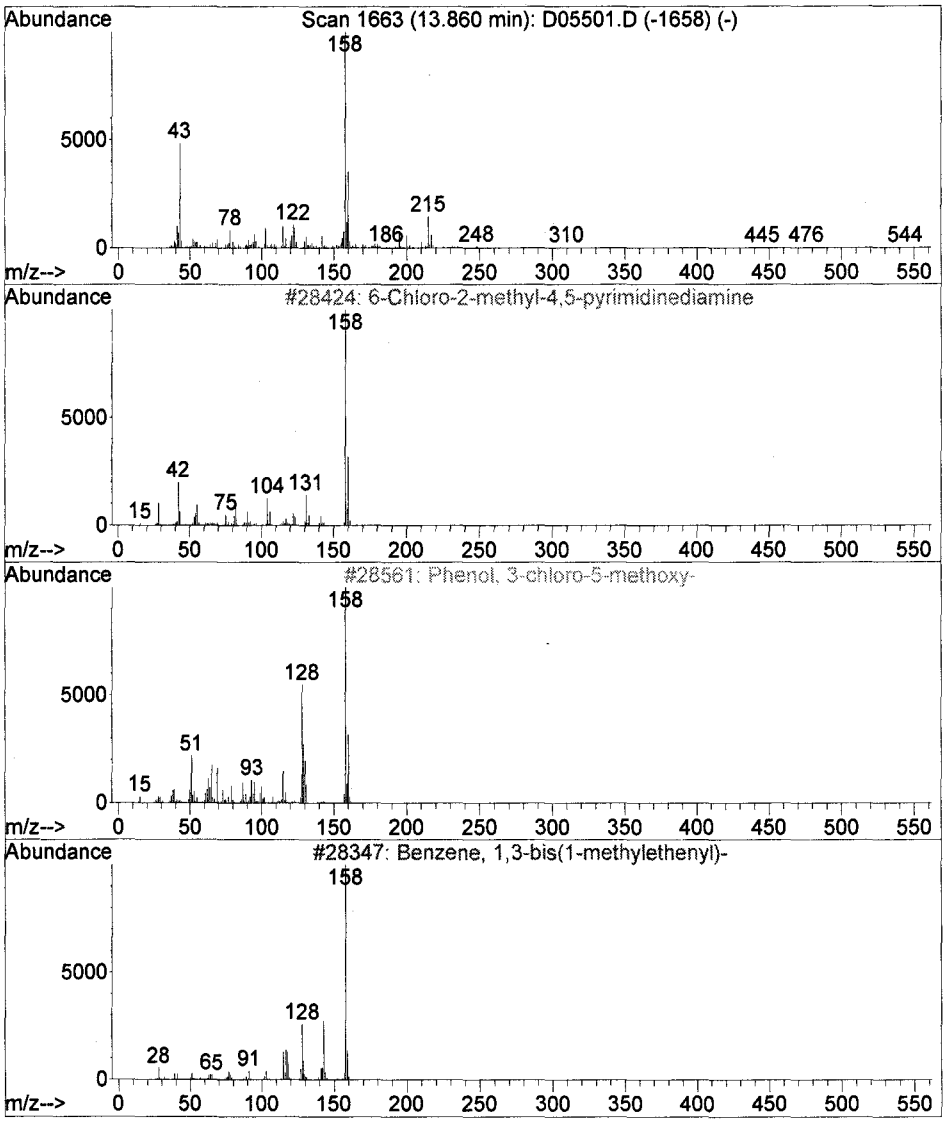
****

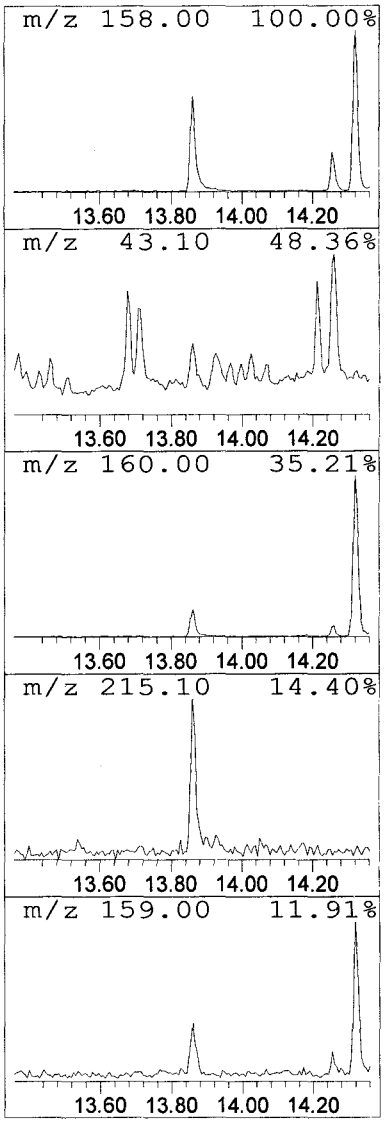
Peak Number 1 6-Chloro-2-methyl-4,5-pyrim... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.86	5.60 ug/L	12953900	Phenanthrene-d10	14.32

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Chloro-2-methyl-4,5-pyrimidine...	158	C5H7ClN4	000933-80-2	53
2	Phenol, 3-chloro-5-methoxy-	158	C7H7ClO2	065262-96-6	52
3	Benzene, 1,3-bis(1-methylethenyl)-	158	C12H14	003748-13-8	50
4	3-Chlorothioanisole	158	C7H7ClS	004867-37-2	50
5	6-Quinolinamine, 2-methyl-	158	C10H10N2	065079-19-8	47





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

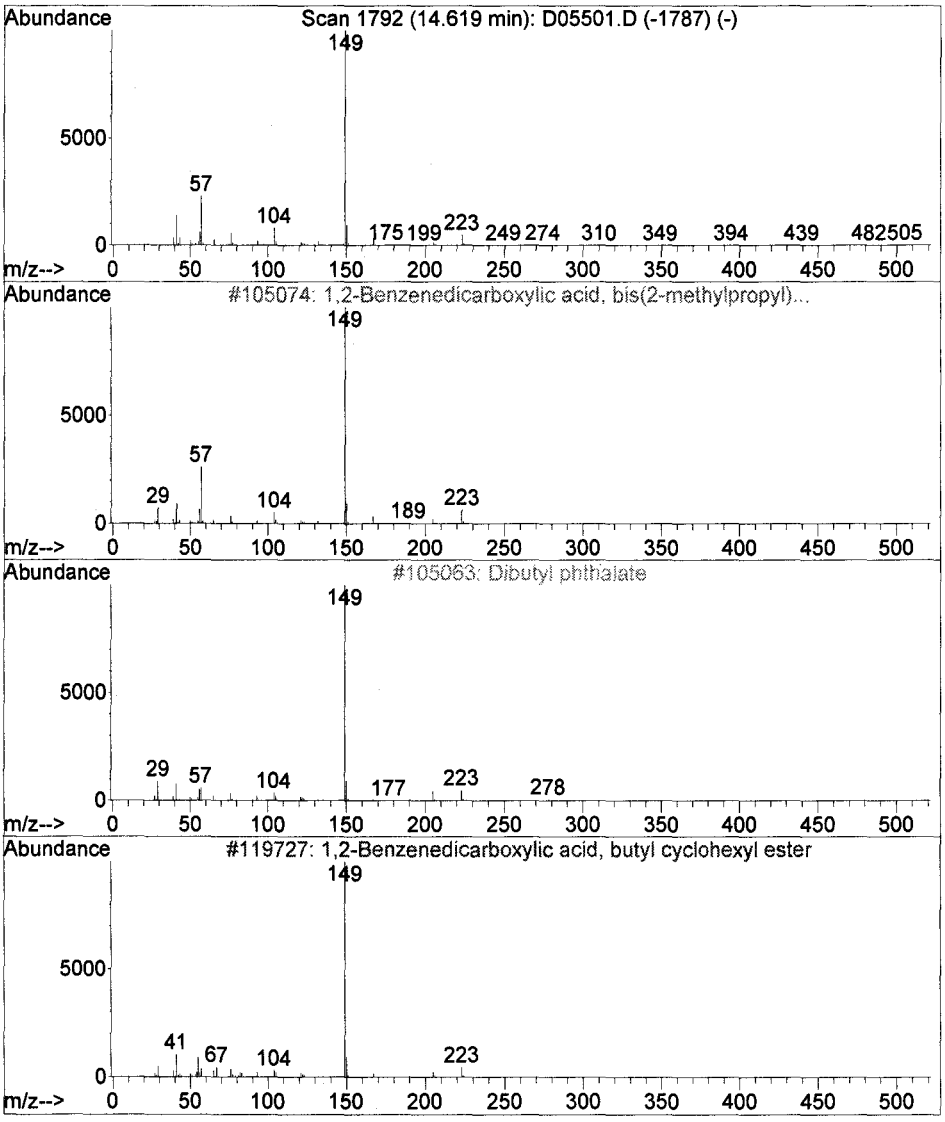
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

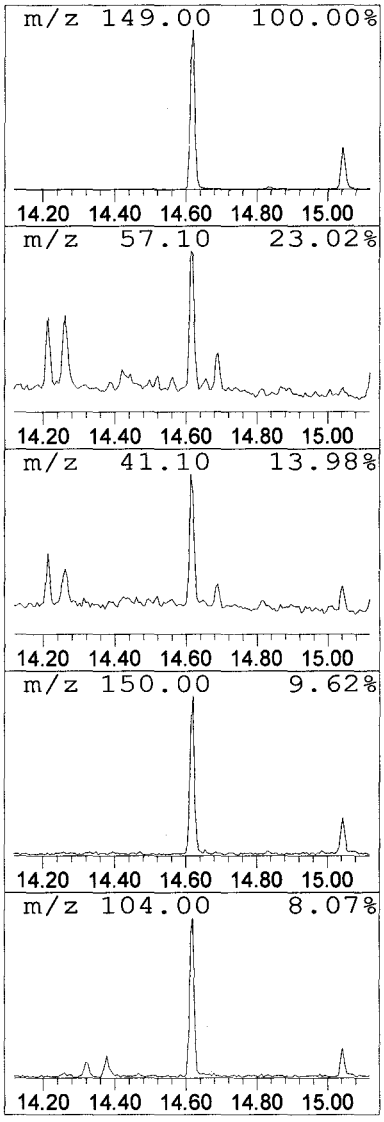
****

Peak Number 2 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	10.66 ug/L	24658200	Phenanthrene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	86
2	Dibutyl phthalate	278	C16H22O4	000084-74-2	78
3	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
5	1,2-Benzenedicarboxylic acid, di...	250	C14H18O4	000131-16-8	72





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

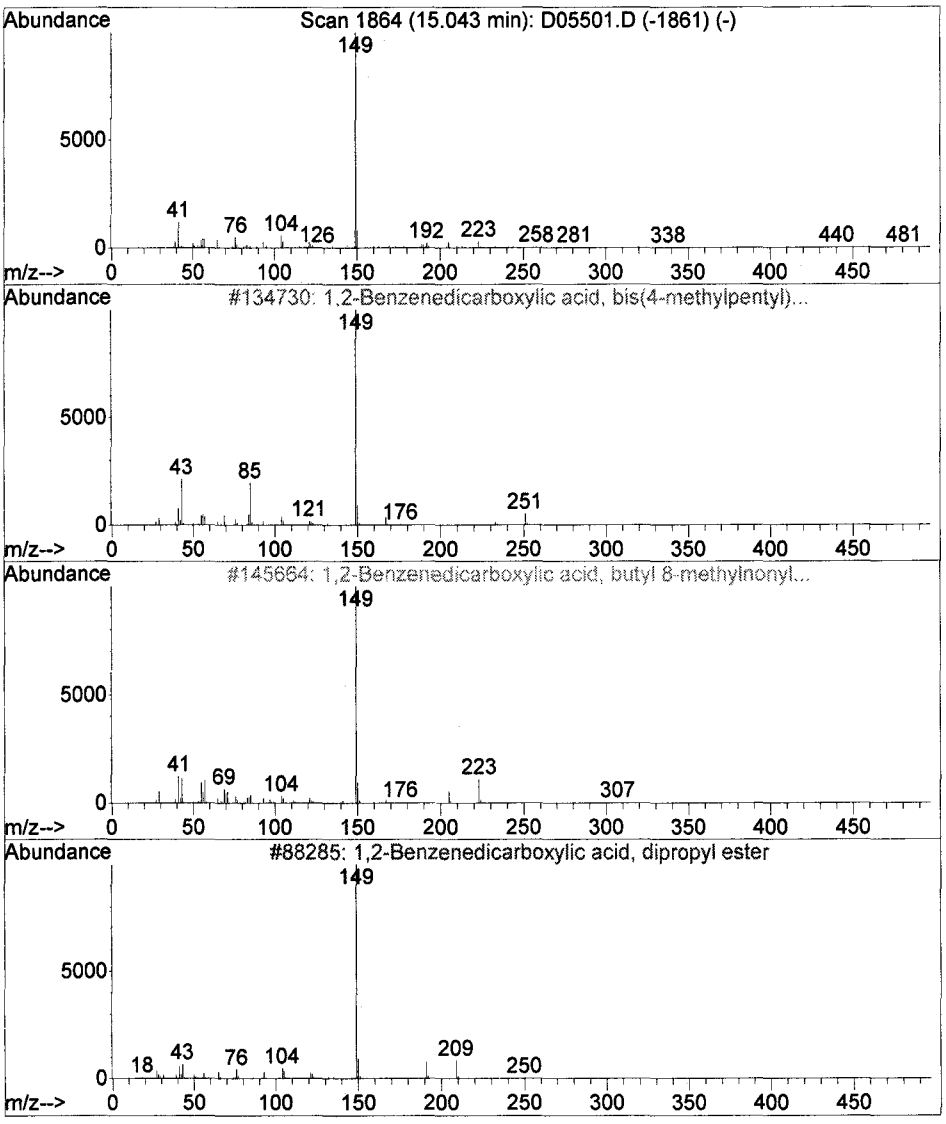
****

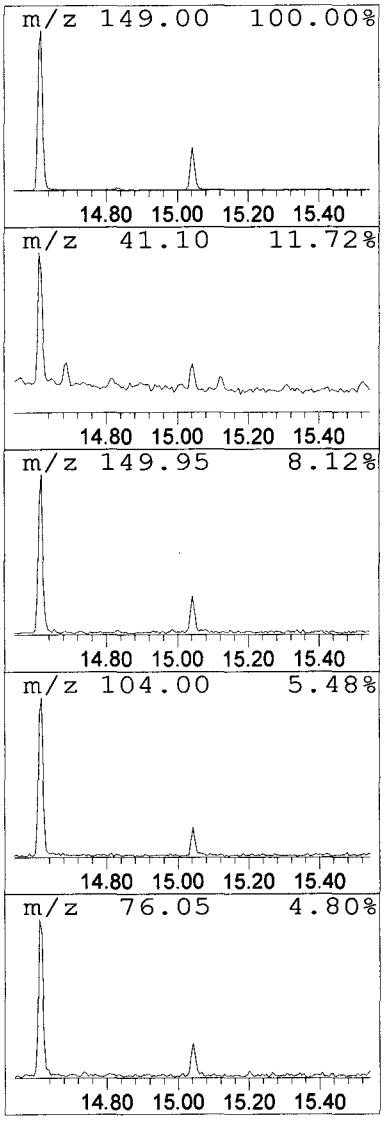
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	6.34 ug/L	14662000	Phenanthrene-d10	14.32

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	334	C20H30O4	000146-50-9	72
2	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-18-9	72
3	1,2-Benzenedicarboxylic acid, di...	250	C14H18O4	000131-16-8	72
4	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	72
5	1,2-Benzenedicarboxylic acid, di...	306	C18H26O4	000131-18-0	72





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05501.D
Acq On : 12/15/11 11:05 Operator: SV
Sample : F4XP9 Inst : D-5973
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
6-Chloro-2-methyl...	13.86	5.6	ug/L	12953900	4	14.32	46268800	20.0
1,2-Benzenedicarb...	14.62	10.7	ug/L	24658200	4	14.32	46268800	20.0
1,2-Benzenedicarb...	15.05	6.3	ug/L	14662000	4	14.32	46268800	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.01

Sample wt/vol: 80.60 (g/mL) G Lab File ID: D05503

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

% Moisture: 55 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	140	U
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	140	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	270	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	270	U
83-32-9	Acenaphthene	140	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.01

Sample wt/vol: 80.60 (g/mL) G Lab File ID: D05503

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

% Moisture: 55 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	270	U
100-02-7	4-Nitrophenol	270	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	270	U
534-52-1	4,6-Dinitro-2-methylphenol	270	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	270	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	140	U
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	U
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.01

Sample wt/vol: 80.60 (g/mL) G Lab File ID: D05503

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

% Moisture: 55 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.26	330	J
02	000084-69-5	1,2-Benzenedicarboxylic acid,	14.62	310	NJ
03		Unknown-02	19.22	290	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 10:44:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2962307	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13317458	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8596017	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	14818535	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	14853665	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	14403837	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	14552187	33.6251 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 84.06%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5523529	31.1739 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 77.93%		
7) 2-Chlorophenol-d4	5.25	132	6794863	33.1446 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 82.86%		
12) 4-Methylphenol-d8	6.61	113	6354210	34.0073 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 85.02%		
17) Nitrobenzene-d5	6.85	128	3526925	35.5057 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 88.76%		
20) 2-Nitrophenol-d4	7.57	143	3539629	37.4118 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 93.53%		
24) 2,4-Dichlorophenol-d3	8.15	165	5838919	34.0699 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 85.17%		
27) 4-Chloroaniline-d4	8.66	131	6676835	34.9689 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 87.42%		
41) Acenaphthylene-d8	11.99	160	26532777	33.2886 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 83.22%		
43) Dimethylphthalate-d6	11.95	166	18427925	34.2210 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 85.55%		
49) 4-Nitrophenol-d4	12.75	143	3258543	42.8117 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 107.03%		
56) Fluorene-d10	13.09	176	16311593	31.7133 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 79.28%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	2010488	42.5787 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 106.45%#		
68) Anthracene-d10	14.38	188	27142059	34.1455 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 85.36%		
79) Pyrene-d10	15.89	212	27986314	32.6777 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 81.69%		
85) Benzo(a)pyrene-d12	18.86	264	21993338	32.7293 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 81.82%		

Target Compounds Qvalue

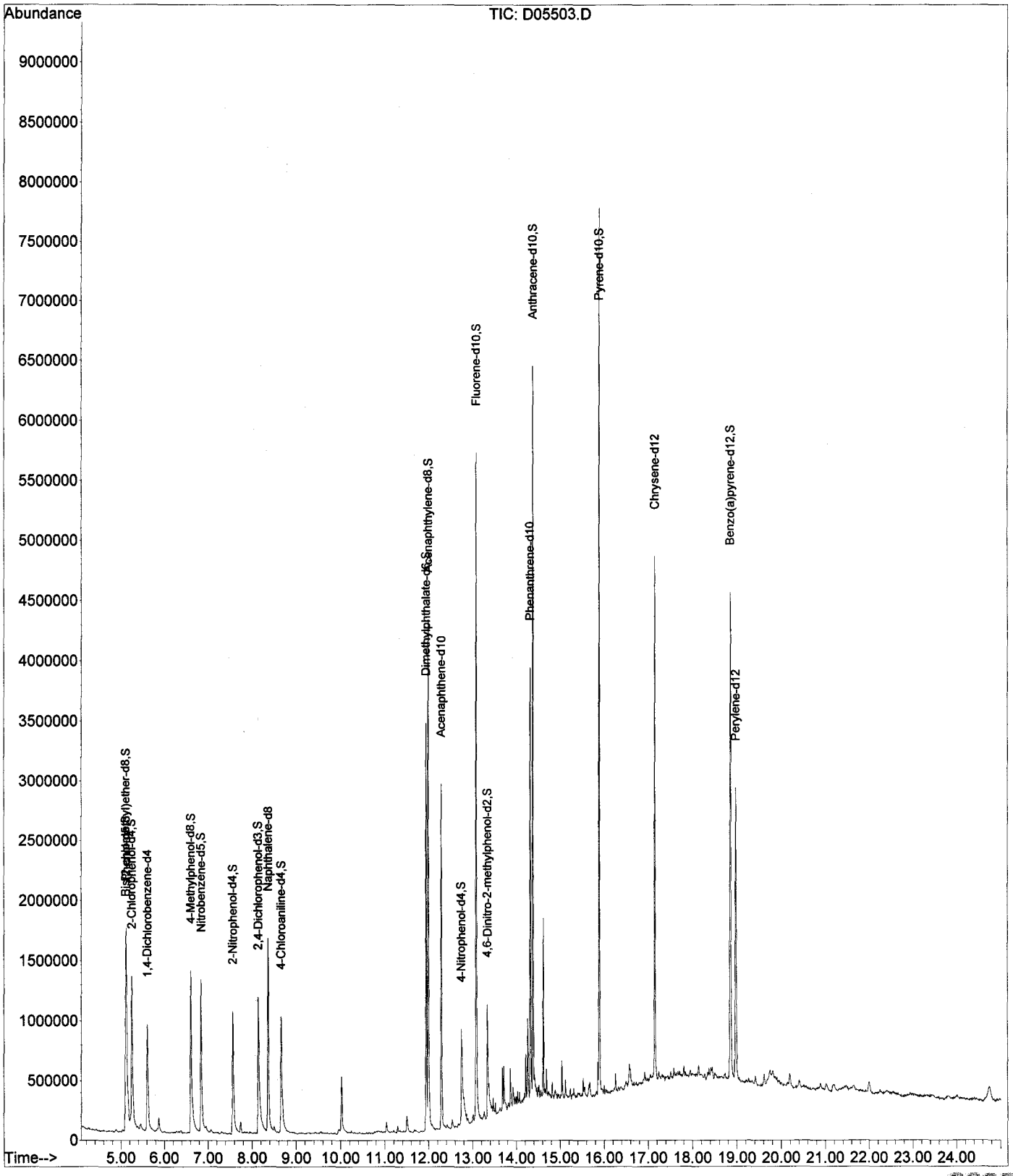
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8224

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 10:44:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.138	8	10	24	PV 10	6885	69199	0.05%	0.003%
2	4.249	24	29	42	PV 10	13811	433701	0.33%	0.018%
3	4.332	42	43	56	VV 10	7440	207512	0.16%	0.008%
4	4.426	56	59	64	VV 7	9820	166472	0.13%	0.007%
5	4.473	64	67	77	VV 7	3130	101267	0.08%	0.004%
6	4.549	77	80	88	PV 10	6696	170857	0.13%	0.007%
7	4.608	88	90	95	VV 6	10418	123187	0.09%	0.005%
8	4.649	95	97	105	VV 8	4914	123476	0.09%	0.005%
9	4.720	105	109	121	VV 8	9569	308740	0.23%	0.012%
10	4.808	121	124	126	VV 3	7526	97299	0.07%	0.004%
11	4.832	126	128	131	VV 3	6665	70901	0.05%	0.003%
12	4.890	131	138	150	PV 9	22793	591411	0.45%	0.024%
13	4.985	150	154	159	VV 8	9276	152093	0.11%	0.006%
14	5.038	159	163	168	VV 8	21425	443015	0.33%	0.018%
15	5.120	168	177	192	VV 3	1672925	44552653	33.59%	1.802%
16	5.255	192	200	219	VV	1277068	30937606	23.32%	1.251%
17	5.379	219	221	228	VV 6	50557	1293238	0.97%	0.052%
18	5.461	228	235	250	VV 6	70592	2966978	2.24%	0.120%
19	5.608	250	260	290	VV	897571	21820221	16.45%	0.883%
20	5.802	290	293	294	VV 3	19759	251002	0.19%	0.010%
21	5.879	294	306	320	VV 6	123015	3559240	2.68%	0.144%
22	6.002	320	327	342	VV 6	13118	643139	0.48%	0.026%
23	6.108	342	345	351	VV 8	6440	143943	0.11%	0.006%
24	6.184	351	358	363	VV 8	10449	241587	0.18%	0.010%
25	6.243	363	368	370	VV 6	10479	193582	0.15%	0.008%
26	6.284	370	375	379	VV 7	16879	366263	0.28%	0.015%
27	6.332	379	383	386	VV 6	15249	261721	0.20%	0.011%
28	6.379	386	391	400	VV 8	22259	568295	0.43%	0.023%
29	6.449	400	403	417	VV 8	8046	245858	0.19%	0.010%
30	6.555	417	421	424	VV 6	10446	202758	0.15%	0.008%
31	6.614	424	431	464	VV	1307882	31663648	23.87%	1.281%
32	6.843	464	470	487	VV	1266304	25767435	19.42%	1.042%
33	6.961	487	490	505	VV	61539	1989217	1.50%	0.080%
34	7.073	505	509	525	VV	34323	1145856	0.86%	0.046%
35	7.184	525	528	532	VV 6	12012	215745	0.16%	0.009%
36	7.226	532	535	542	VV 9	16620	360709	0.27%	0.015%
37	7.314	542	550	559	VV 9	21624	711383	0.54%	0.029%
38	7.390	559	563	578	VV 9	13056	451114	0.34%	0.018%
39	7.496	578	581	585	VV 6	8902	163993	0.12%	0.007%
40	7.573	585	594	618	PV	1006593	22036872	16.61%	0.891%
41	7.749	618	624	636	VV	103282	2298019	1.73%	0.093%
42	7.837	636	639	645	VV 8	17980	443924	0.33%	0.018%
43	7.884	645	647	654	VV 8	18476	429072	0.32%	0.017%
44	7.955	654	659	672	VV 8	22632	697366	0.53%	0.028%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	8.055	672	676	682	VV	8	14063	336376	0.25%	0.014%
46	8.149	682	692	722	VV		1104827	29655243	22.36%	1.200%
47	8.367	722	729	749	VV		1592151	30625140	23.09%	1.239%
48	8.508	749	753	761	VV	4	61801	1479951	1.12%	0.060%
49	8.578	761	765	770	VV	8	22818	564305	0.43%	0.023%
50	8.661	770	779	813	VV		962871	24739346	18.65%	1.001%
51	8.878	813	816	819	VV	5	19185	343752	0.26%	0.014%
52	8.908	819	821	825	VV	5	16418	316852	0.24%	0.013%
53	8.943	825	827	833	VV	7	16011	354134	0.27%	0.014%
54	8.990	833	835	844	VV	10	12577	265286	0.20%	0.011%
55	9.120	844	857	870	VV	10	13036	672988	0.51%	0.027%
56	9.278	870	884	898	VV	10	11139	634502	0.48%	0.026%
57	9.431	898	910	919	VV	10	13974	609373	0.46%	0.025%
58	9.561	919	932	945	VV	10	18551	806446	0.61%	0.033%
59	9.661	945	949	964	VV	10	6598	361929	0.27%	0.015%
60	9.790	964	971	975	VV	9	6982	154365	0.12%	0.006%
61	9.872	975	985	990	VV	9	8106	214229	0.16%	0.009%
62	10.025	990	1011	1046	VV		474514	12453432	9.39%	0.504%
63	10.243	1046	1048	1076	VV		27622	1120189	0.84%	0.045%
64	10.431	1076	1080	1099	VV		12504	496957	0.37%	0.020%
65	10.584	1099	1106	1112	PV		12220	232982	0.18%	0.009%
66	10.649	1112	1117	1132	VV		11957	405641	0.31%	0.016%
67	10.855	1132	1152	1170	VV		19565	1897659	1.43%	0.077%
68	11.043	1170	1184	1207	VV		89969	2646616	2.00%	0.107%
69	11.208	1207	1212	1221	VV		21350	518271	0.39%	0.021%
70	11.296	1221	1227	1245	VV	3	60407	1706394	1.29%	0.069%
71	11.508	1245	1263	1286	VV		138293	4015037	3.03%	0.162%
72	11.678	1286	1292	1309	VV		23074	880766	0.66%	0.036%
73	11.943	1309	1337	1341	PV		3240729	40419142	30.47%	1.635%
74	11.996	1341	1346	1374	VV		4142440	61192271	46.13%	2.475%
75	12.184	1374	1378	1390	VV		26390	1110539	0.84%	0.045%
76	12.290	1390	1396	1414	VV		2843830	38423730	28.97%	1.554%
77	12.425	1414	1419	1432	VV		51722	1887824	1.42%	0.076%
78	12.543	1432	1439	1447	VV		83966	2392909	1.80%	0.097%
79	12.613	1447	1451	1458	VV	10	34221	1265701	0.95%	0.051%
80	12.755	1458	1475	1509	VV		723743	32242360	24.31%	1.304%
81	13.084	1509	1531	1554	VV		5381888	80460315	60.66%	3.255%
82	13.261	1554	1561	1568	VV	6	143624	5333246	4.02%	0.216%
83	13.343	1568	1575	1593	VV	2	941147	28039944	21.14%	1.134%
84	13.466	1593	1596	1601	VV		258185	5246318	3.95%	0.212%
85	13.513	1601	1604	1610	VV		202205	4805076	3.62%	0.194%
86	13.684	1610	1633	1650	VV	2	498083	29204076	22.02%	1.181%
87	13.866	1650	1664	1670	VV		462503	16146395	12.17%	0.653%
88	13.925	1670	1674	1688	VV	4	327111	16172062	12.19%	0.654%
89	14.072	1688	1699	1705	VV	3	297096	13370814	10.08%	0.541%
90	14.260	1705	1731	1738	VV	2	871384	38782635	29.24%	1.569%
91	14.325	1738	1742	1748	VV		3685291	46826289	35.30%	1.894%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	14.384	1748	1752	1769	VV		6214557	86787983	65.43%	3.511%
93	14.513	1769	1774	1780	VV	4	308417	11794207	8.89%	0.477%
94	14.566	1780	1783	1787	VV	4	294362	6304072	4.75%	0.255%
95	14.619	1787	1792	1801	VV		1617559	26209142	19.76%	1.060%
96	14.690	1801	1804	1823	VV		458860	21560886	16.25%	0.872%
97	14.819	1823	1826	1832	VV	2	356045	8623780	6.50%	0.349%
98	14.890	1832	1838	1856	VV	2	290646	21468086	16.18%	0.868%
99	15.049	1856	1865	1871	VV		520749	15467613	11.66%	0.626%
100	15.125	1871	1878	1890	VV		366355	16366817	12.34%	0.662%
101	15.231	1890	1896	1900	VV	9	298570	9432086	7.11%	0.382%
102	15.313	1900	1910	1920	VV	9	299433	17025355	12.83%	0.689%
103	15.407	1920	1926	1939	VV	9	256431	16165463	12.19%	0.654%
104	15.525	1939	1946	1961	VV	3	363163	21158079	15.95%	0.856%
105	15.672	1961	1971	1981	VV	3	342586	18982786	14.31%	0.768%
106	15.896	1981	2009	2047	VV		7178481	132651084	100.00%	5.366%
107	16.260	2047	2071	2078	VV	3	394425	30280968	22.83%	1.225%
108	16.331	2078	2083	2087	VV	8	288061	8252164	6.22%	0.334%
109	16.384	2087	2092	2103	VV	8	289007	15698374	11.83%	0.635%
110	16.501	2103	2112	2119	VV	8	334666	16932889	12.76%	0.685%
111	16.590	2119	2127	2138	VV	8	450616	24666070	18.59%	0.998%
112	16.731	2138	2151	2156	VV	8	325348	19899032	15.00%	0.805%
113	16.925	2156	2184	2199	VV	8	400629	49300911	37.17%	1.994%
114	17.154	2199	2223	2234	VV		4532300	89479658	67.45%	3.620%
115	17.248	2234	2239	2246	VV	5	396866	15492672	11.68%	0.627%
116	17.319	2246	2251	2261	VV	5	372414	19615277	14.79%	0.793%
117	17.443	2261	2272	2279	VV	5	362114	21951458	16.55%	0.888%
118	17.513	2279	2284	2290	VV	10	393803	13738041	10.36%	0.556%
119	17.584	2290	2296	2307	VV	5	419294	21759188	16.40%	0.880%
120	17.672	2307	2311	2314	VV	6	388942	9908324	7.47%	0.401%
121	17.713	2314	2318	2328	VV	6	385763	17491121	13.19%	0.708%
122	17.813	2328	2335	2346	VV	2	432681	23245349	17.52%	0.940%
123	17.954	2346	2359	2363	VV	2	394546	22021827	16.60%	0.891%
124	18.001	2363	2367	2385	VV	2	365129	28365835	21.38%	1.147%
125	18.143	2385	2391	2411	VV	5	435293	33355685	25.15%	1.349%
126	18.278	2411	2414	2419	VV	7	365032	9686816	7.30%	0.392%
127	18.443	2419	2442	2449	VV	5	406367	38515142	29.03%	1.558%
128	18.513	2449	2454	2472	VV	5	361808	27312770	20.59%	1.105%
129	18.654	2472	2478	2485	VV	5	331654	14422829	10.87%	0.583%
130	18.731	2485	2491	2503	VV	5	353233	20381506	15.36%	0.824%
131	18.860	2503	2513	2526	VV	2	4375881	92280929	69.57%	3.733%
132	18.984	2526	2534	2554	VV		2700051	68630235	51.74%	2.776%
133	19.119	2554	2557	2567	VV		278521	12939351	9.75%	0.523%
134	19.213	2567	2573	2604	VV		288370	36469474	27.49%	1.475%
135	19.425	2604	2609	2627	VV	5	318051	20889160	15.75%	0.845%
136	19.619	2627	2642	2648	VV	10	322746	19728713	14.87%	0.798%
137	19.754	2648	2665	2671	VV	10	358639	24382171	18.38%	0.986%
138	19.813	2671	2675	2727	VV	10	354288	53192473	40.10%	2.152%
139	20.201	2727	2741	2754	VV	3	318965	23929685	18.04%	0.968%

8228

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	20.413	2754	2777	2785	VV	3	263006	23835434	17.97%	0.964%
141	20.513	2785	2794	2818	VV	3	210151	23142088	17.45%	0.936%
142	20.736	2818	2832	2839	VV	3	193819	14347946	10.82%	0.580%
143	20.889	2839	2858	2873	VV	3	221114	22897641	17.26%	0.926%
144	21.025	2873	2881	2899	VV	10	223877	16928330	12.76%	0.685%
145	21.189	2899	2909	2926	VV	10	212527	17266157	13.02%	0.698%
146	21.478	2926	2958	2973	VV	10	199740	29434197	22.19%	1.191%
147	21.648	2973	2987	3007	VV	10	195524	21020699	15.85%	0.850%
148	21.807	3007	3014	3027	VV	10	159763	10572699	7.97%	0.428%
149	21.925	3027	3034	3038	VV	10	149258	5325100	4.01%	0.215%
150	22.001	3038	3047	3067	VV	10	216559	15773974	11.89%	0.638%
151	22.248	3067	3089	3102	VV	10	148084	15437427	11.64%	0.624%
152	22.407	3102	3116	3134	VV	10	134458	14202733	10.71%	0.575%
153	22.548	3134	3140	3183	VV	10	123955	17593635	13.26%	0.712%
154	22.942	3183	3207	3243	VV	10	105557	18931655	14.27%	0.766%
155	23.166	3243	3245	3267	VV	10	87872	6245799	4.71%	0.253%
156	23.313	3267	3270	3286	VV	10	78539	5162788	3.89%	0.209%
157	23.448	3286	3293	3327	VV	10	79674	9037533	6.81%	0.366%
158	23.672	3327	3331	3339	VV	10	50994	2002812	1.51%	0.081%
159	23.813	3339	3355	3366	VV	10	64109	5061550	3.82%	0.205%
160	24.013	3366	3389	3399	VV	10	61635	5746283	4.33%	0.232%
161	24.095	3399	3403	3422	VV	10	45943	3162577	2.38%	0.128%
162	24.236	3422	3427	3437	VV	10	31690	1415742	1.07%	0.057%
163	24.407	3437	3456	3490	VV	10	33652	4029716	3.04%	0.163%
164	24.748	3490	3514	3540	PV	10	118964	7587932	5.72%	0.307%
165	24.919	3540	3543	3547	PV	6	5535	195678	0.15%	0.008%

Sum of corrected areas: 2472083030

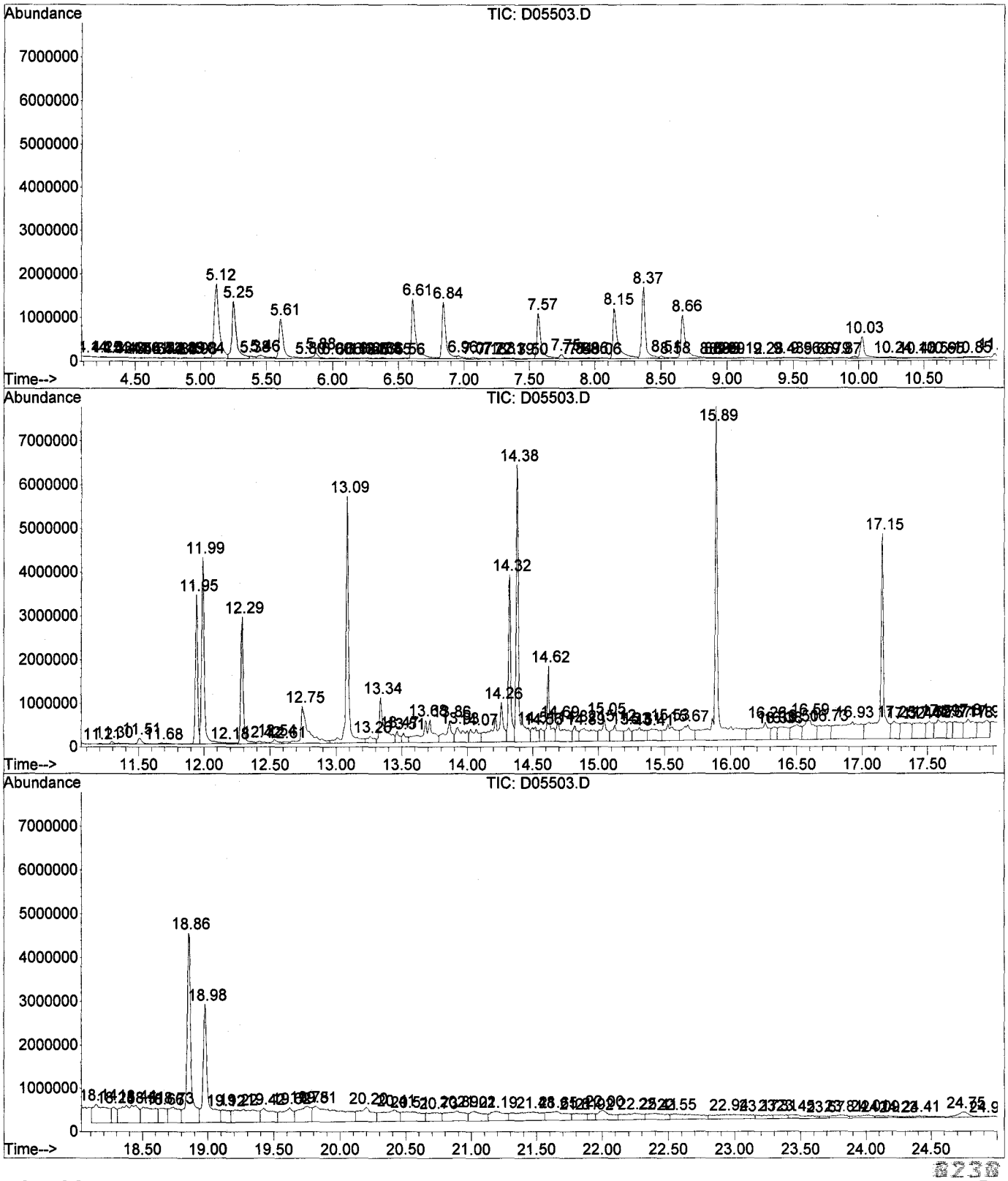
0229

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

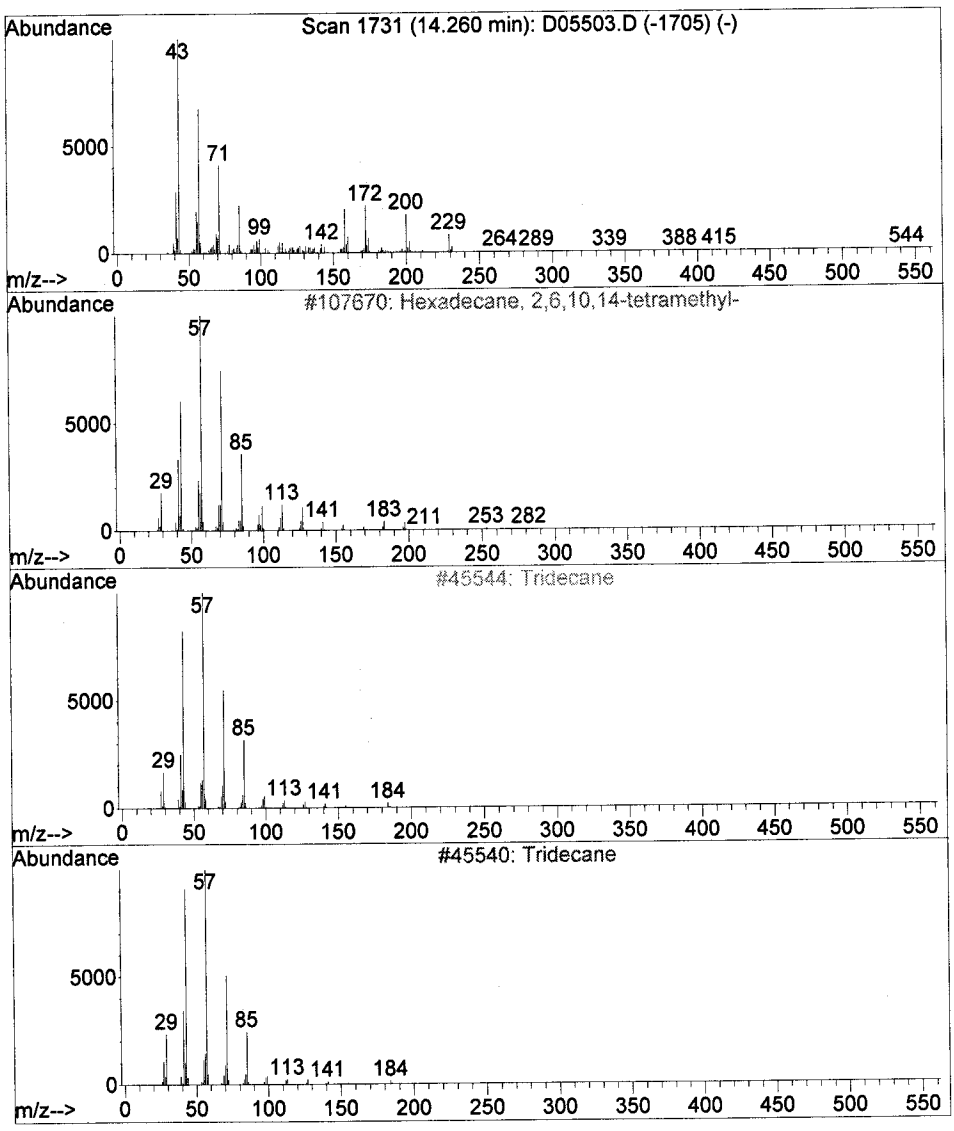
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

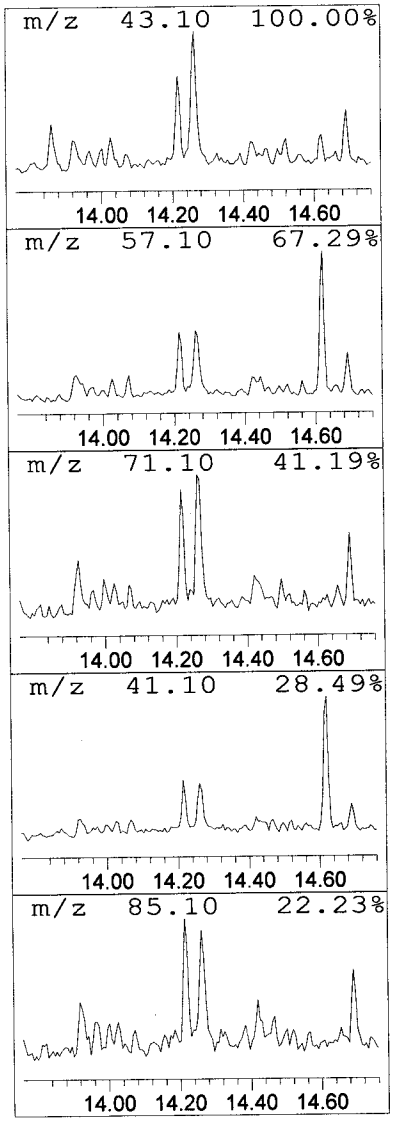
****

Peak Number 1 Hexadecane, 2,6,10,14-tetra... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	11.82 ug/L	27680500	Phenanthrene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	53
2	Tridecane	184	C13H28	000629-50-5	45
3	Tridecane	184	C13H28	000629-50-5	43
4	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	42
5	1-Bromodocosane	388	C22H45Br	006938-66-5	38





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

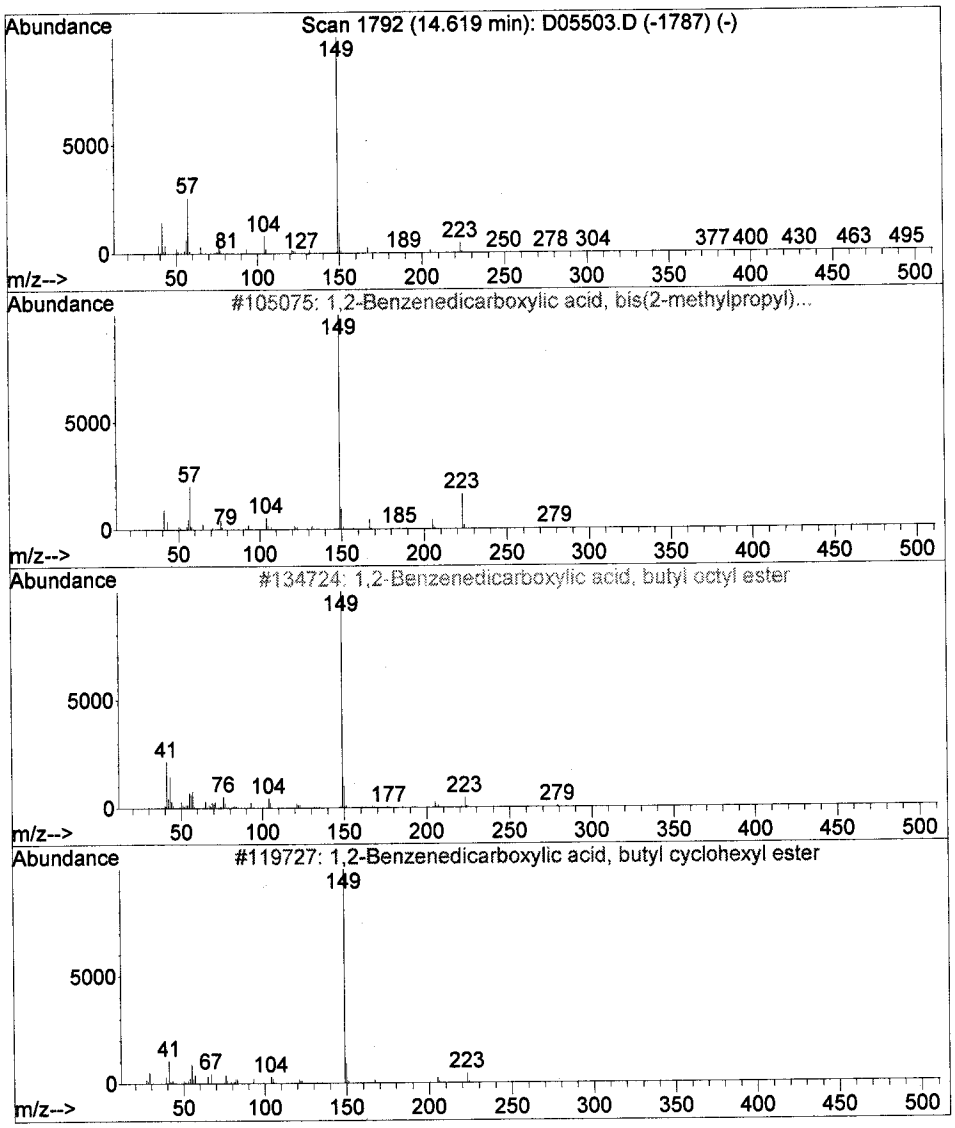
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

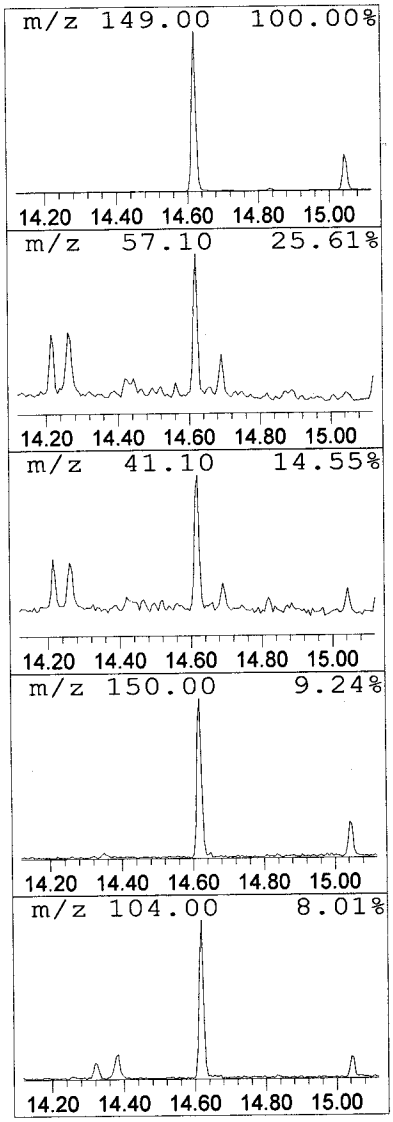
12/19/11

****
Peak Number 2 1,2-Benzenedicarboxylic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	11.19 ug/L	26209100	Phenanthrene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	90
2	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	83
3	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
4	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	72





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06
Operator: SV
Sample : F4XQ0
Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

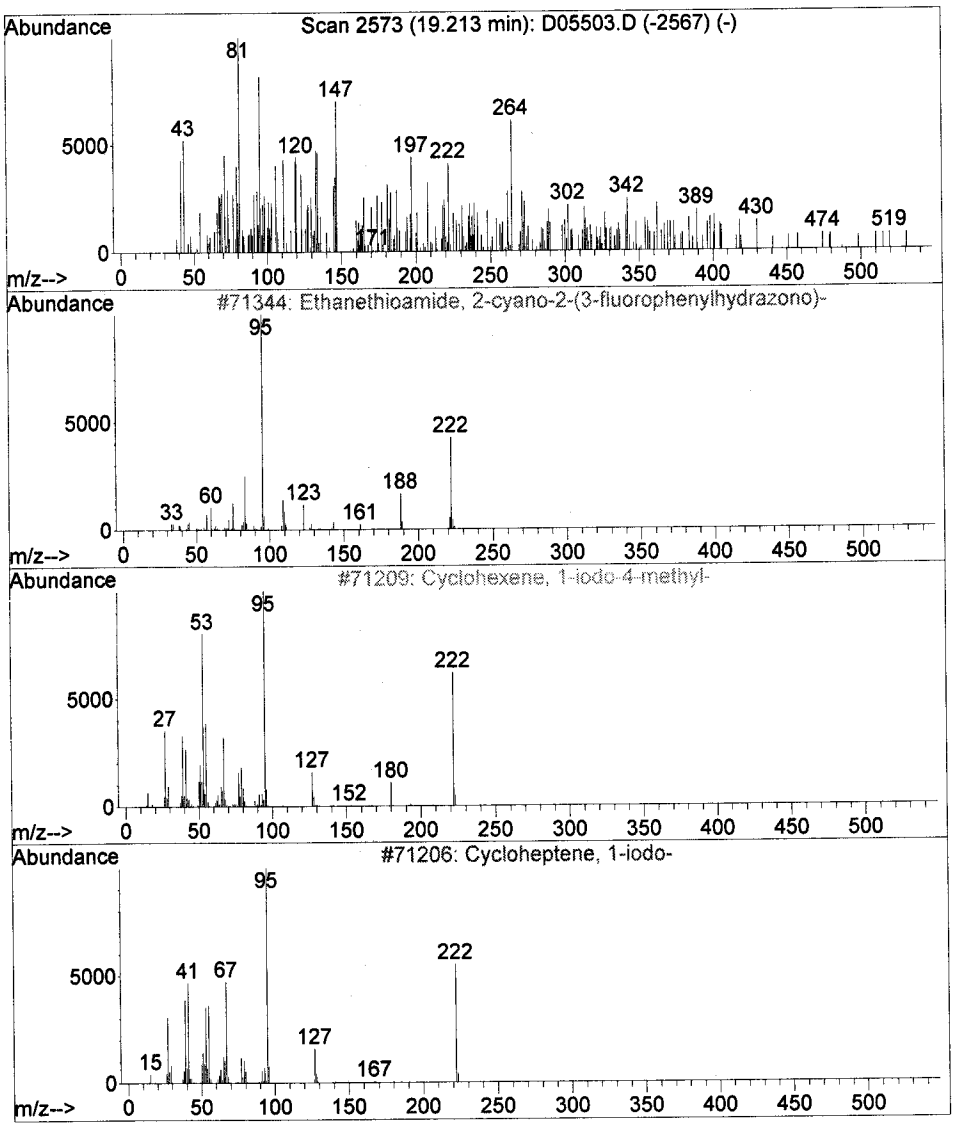
****

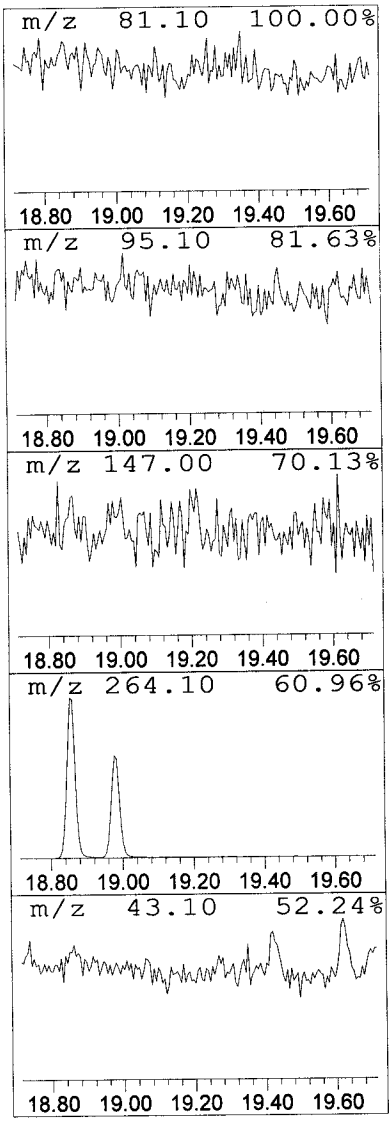
Peak Number 3 Ethanethioamide, 2-cyano-2-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.22	10.63 ug/L	36469500	Perylene-d12	18.98

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanethioamide, 2-cyano-2-(3-fl...	222	C9H7FN4S	1000277-32-2	43
2	Cyclohexene, 1-iodo-4-methyl-	222	C7H11I	031053-85-7	43
3	Cycloheptene, 1-iodo-	222	C7H11I	049565-03-9	43
4	1-Iodobicyclo[2.2.1]heptane	222	C7H11I	000930-80-3	43
5	Furan-2-carbohydrazide, N2-(3,5-...	328	C19H24N2O3	331945-00-7	12





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05503.D
Acq On : 12/15/11 12:06 Operator: SV
Sample : F4XQ0 Inst : D-5973
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexadecane, 2,6,1...	14.26	11.8	ug/L	27680500	4	14.32	46826300	20.0
1,2-Benzenedicarb...	14.62	11.2	ug/L	26209100	4	14.32	46826300	20.0
Ethanethioamide, ...	19.22	10.6	ug/L	36469500	6	18.98	68630200	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.02

Sample wt/vol: 80.30 (g/mL) G Lab File ID: D05504

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

% Moisture: 59 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	150	U
108-95-2	Phenol	150	U
111-44-4	Bis(2-chloroethyl)ether	150	U
95-57-8	2-Chlorophenol	150	U
95-48-7	2-Methylphenol	150	U
108-60-1	2,2'-Oxybis(1-chloropropane)	150	U
98-86-2	Acetophenone	150	U
106-44-5	4-Methylphenol	150	U
621-64-7	N-Nitroso-di-n-propylamine	150	U
67-72-1	Hexachloroethane	150	U
98-95-3	Nitrobenzene	150	U
78-59-1	Isophorone	150	U
88-75-5	2-Nitrophenol	150	U
105-67-9	2,4-Dimethylphenol	150	U
111-91-1	Bis(2-chloroethoxy)methane	150	U
120-83-2	2,4-Dichlorophenol	150	U
91-20-3	Naphthalene	150	U
106-47-8	4-Chloroaniline	150	U
87-68-3	Hexachlorobutadiene	150	U
105-60-2	Caprolactam	150	U
59-50-7	4-Chloro-3-methylphenol	150	U
91-57-6	2-Methylnaphthalene	150	U
77-47-4	Hexachlorocyclopentadiene	150	U
88-06-2	2,4,6-Trichlorophenol	150	U
95-95-4	2,4,5-Trichlorophenol	150	U
92-52-4	1,1'-Biphenyl	150	U
91-58-7	2-Chloronaphthalene	150	U
88-74-4	2-Nitroaniline	300	U
131-11-3	Dimethylphthalate	150	U
606-20-2	2,6-Dinitrotoluene	150	U
208-96-8	Acenaphthylene	150	U
99-09-2	3-Nitroaniline	300	U
83-32-9	Acenaphthene	150	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.02

Sample wt/vol: 80.30 (g/mL) G Lab File ID: D05504

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

% Moisture: 59 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	300	U
100-02-7	4-Nitrophenol	300	U
132-64-9	Dibenzofuran	150	U
121-14-2	2,4-Dinitrotoluene	150	U
84-66-2	Diethylphthalate	150	U
86-73-7	Fluorene	150	U
7005-72-3	4-Chlorophenyl-phenylether	150	U
100-01-6	4-Nitroaniline	300	U
534-52-1	4,6-Dinitro-2-methylphenol	300	U
86-30-6	N-Nitrosodiphenylamine 1	150	U
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U
101-55-3	4-Bromophenyl-phenylether	150	U
118-74-1	Hexachlorobenzene	150	U
1912-24-9	Atrazine	150	U
87-86-5	Pentachlorophenol	300	U
85-01-8	Phenanthrene	150	U
120-12-7	Anthracene	150	U
86-74-8	Carbazole	150	U
84-74-2	Di-n-butylphthalate	65	J
206-44-0	Fluoranthene	150	U
129-00-0	Pyrene	150	U
85-68-7	Butylbenzylphthalate	150	U
91-94-1	3,3'-Dichlorobenzidine	150	U
56-55-3	Benzo(a)anthracene	150	U
218-01-9	Chrysene	150	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	U
117-84-0	Di-n-octylphthalate	150	U
205-99-2	Benzo(b)fluoranthene	150	U
207-08-9	Benzo(k)fluoranthene	150	U
50-32-8	Benzo(a)pyrene	150	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	U
53-70-3	Dibenzo(a,h)anthracene	150	U
191-24-2	Benzo(g,h,i)perylene	150	U
58-90-2	2,3,4,6-Tetrachlorophenol	150	U

1 Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.02

Sample wt/vol: 80.30 (g/mL) G Lab File ID: D05504

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

% Moisture: 59 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.72	250	J
02		Unknown-02	14.26	220	J
03		Unknown-03	14.62	400	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 10:44:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2867811	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13240519	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8287578	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	13805413	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	13494021	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	12550529	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	13754639	32.8295 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 82.07%		
5) Bis(2-chloroethyl)ether-d8	5.12	67	5258904	30.6584 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 76.65%		
7) 2-Chlorophenol-d4	5.26	132	6556095	33.0337 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 82.58%		
12) 4-Methylphenol-d8	6.62	113	6167117	34.0936 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 85.23%		
17) Nitrobenzene-d5	6.85	128	3383031	34.2550 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 85.64%		
20) 2-Nitrophenol-d4	7.57	143	3643477	38.7332 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 96.83%		
24) 2,4-Dichlorophenol-d3	8.15	165	5529755	32.4534 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 81.13%		
27) 4-Chloroaniline-d4	8.66	131	7936182	41.8061 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 104.52%		
41) Acenaphthylene-d8	11.99	160	25932881	33.7469 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 84.37%		
43) Dimethylphthalate-d6	11.95	166	18316707	35.2804 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 88.20%		
49) 4-Nitrophenol-d4	12.75	143	3040203	41.4296 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 103.57%		
56) Fluorene-d10	13.09	176	15915235	32.0943 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 80.24%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1804712	41.0256 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 102.56%		
68) Anthracene-d10	14.38	188	25438660	34.3511 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 85.88%		
79) Pyrene-d10	15.89	212	26794607	34.4386 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 86.10%		
85) Benzo(a)pyrene-d12	18.86	264	19563494	33.4124 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 83.53%		
Target Compounds					Qvalue
71) Di-n-butylphthalate	15.05	149	1767205	2.1428 ug/L	99

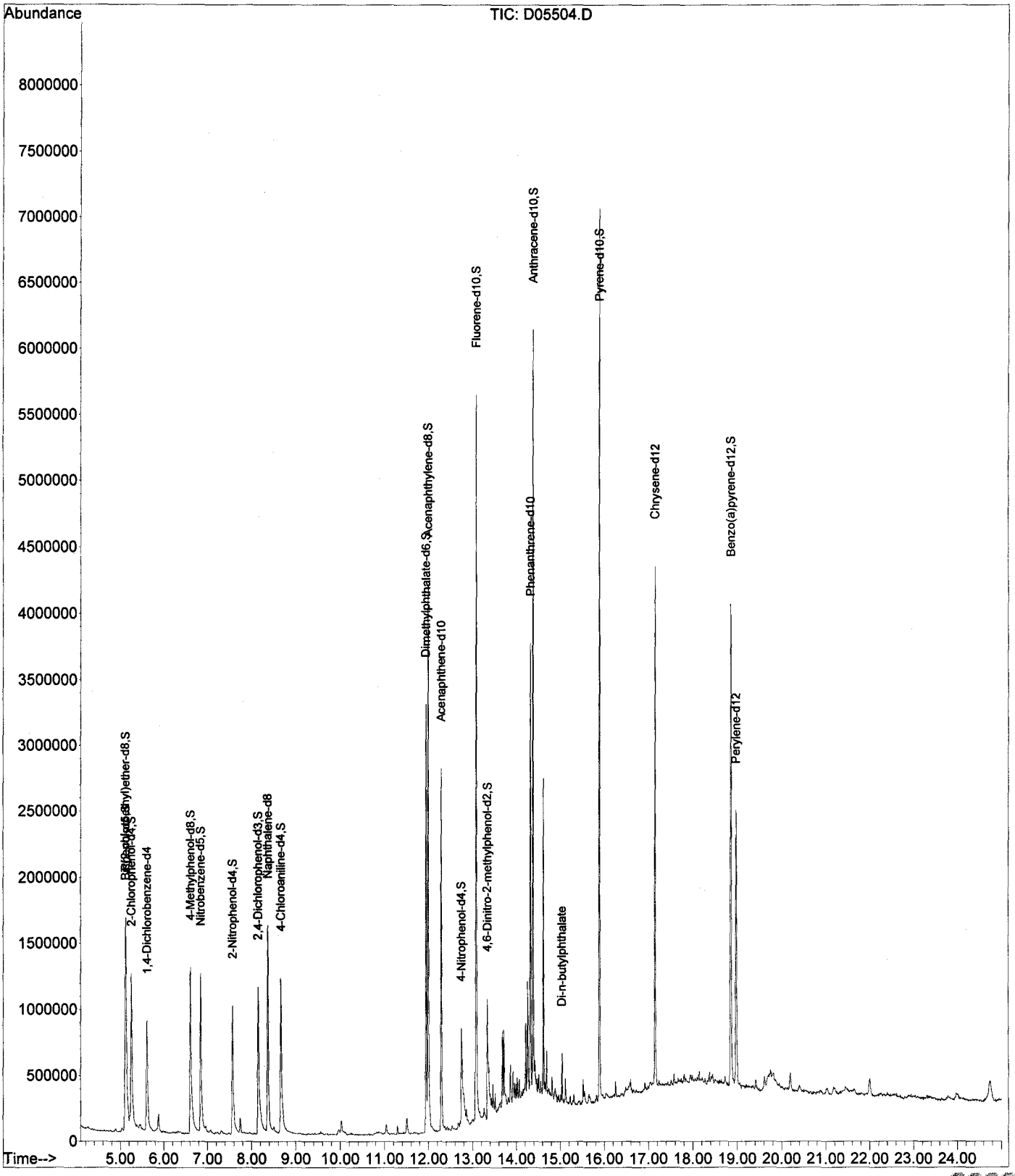
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0238

Quantitation Report (QT Reviewed)

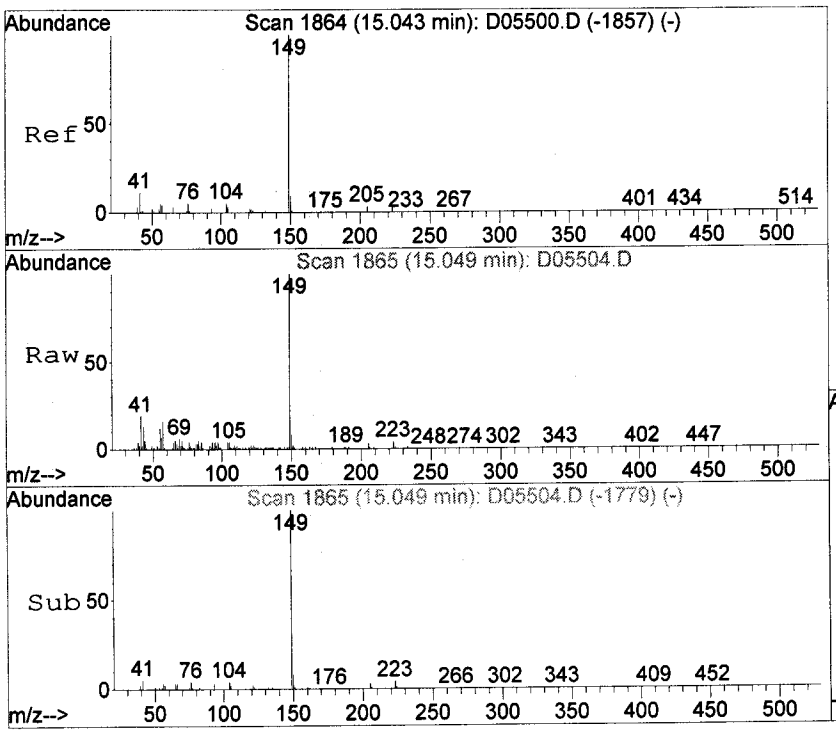
Data File: C:\MSDCHEM\1\DATA\D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 10:44:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



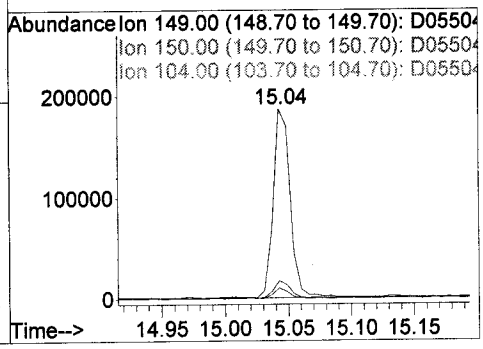
Data File : C:\MSDCHEM\1\DATA\D05504.D
Acq On : 12/15/11 12:37
Sample : F4XQ1
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 6
Operator: SV
Inst : D-5973
Multiplr: 1.00



#71
Di-n-butylphthalate
Concen: 2.14 ug/L
RT: 15.05 min Scan# 1865
Delta R.T. 0.00 min
Integration Range:
Scan=1854 to 1878
R.T.= 14.98 to 15.12 (min)
Tgt Ion:149 Resp: 1767205

Ion	Ratio	Lower	Upper
149	100		
150	10.2	8.6	12.8
104	5.6	4.6	7.0



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.149	3	12	21	BV	2326	42602	0.05%	0.002%
2	4.214	21	23	24	PV 2	7565	49130	0.06%	0.002%
3	4.261	24	31	44	VV 2	14664	495448	0.61%	0.018%
4	4.349	44	46	51	VV 5	6108	104334	0.13%	0.004%
5	4.408	51	56	60	PV 7	6686	102692	0.13%	0.004%
6	4.443	60	62	65	VV 4	3459	34955	0.04%	0.001%
7	4.467	65	66	68	VV 2	3988	28845	0.04%	0.001%
8	4.490	68	70	76	PV 7	4591	71493	0.09%	0.003%
9	4.549	76	80	82	VV 4	5220	57849	0.07%	0.002%
10	4.573	82	84	90	VV 7	5230	94345	0.12%	0.003%
11	4.632	90	94	99	VV 8	10757	165865	0.21%	0.006%
12	4.679	99	102	104	PV 3	6259	78686	0.10%	0.003%
13	4.702	104	106	108	VV 3	7710	66046	0.08%	0.002%
14	4.773	108	118	124	VV 3	12584	392588	0.49%	0.015%
15	4.837	124	129	133	VV 8	6352	154376	0.19%	0.006%
16	4.896	133	139	145	VV 8	23252	525476	0.65%	0.019%
17	4.943	145	147	148	VV 2	4018	39192	0.05%	0.001%
18	4.984	148	154	158	VV 9	8451	157933	0.20%	0.006%
19	5.043	158	164	169	VV 9	32170	758797	0.94%	0.028%
20	5.126	169	178	192	VV 3	1611649	42322745	52.42%	1.567%
21	5.261	192	201	221	VV	1169530	30435768	37.70%	1.127%
22	5.390	221	223	230	VV 8	60177	1511847	1.87%	0.056%
23	5.455	230	234	253	VV 10	63634	2985271	3.70%	0.111%
24	5.614	253	261	285	VV	843242	20969767	25.97%	0.776%
25	5.767	285	287	290	VV 4	19939	272987	0.34%	0.010%
26	5.808	290	294	295	VV 4	23084	328487	0.41%	0.012%
27	5.843	295	300	301	VV 3	37248	617381	0.76%	0.023%
28	5.884	301	307	319	VV 3	148319	3475042	4.30%	0.129%
29	5.961	319	320	322	VV 2	13375	120260	0.15%	0.004%
30	5.990	322	325	329	VV 6	18141	391663	0.49%	0.015%
31	6.026	329	331	345	VV 6	16020	510246	0.63%	0.019%
32	6.120	345	347	350	VV 4	5738	71586	0.09%	0.003%
33	6.149	350	352	355	VV 4	7536	100213	0.12%	0.004%
34	6.196	355	360	362	VV 6	9961	175207	0.22%	0.006%
35	6.220	362	364	372	VV 9	13725	336515	0.42%	0.012%
36	6.284	372	375	379	VV 5	12811	222846	0.28%	0.008%
37	6.331	379	383	386	VV 6	19155	349301	0.43%	0.013%
38	6.390	386	393	398	VV 6	17157	457358	0.57%	0.017%
39	6.431	398	400	402	VV 3	8869	72172	0.09%	0.003%
40	6.449	402	403	407	VV 4	7902	70682	0.09%	0.003%
41	6.496	407	411	415	PV 7	8876	141167	0.17%	0.005%
42	6.555	415	421	425	VV 7	8280	136260	0.17%	0.005%
43	6.614	425	431	459	VV	1256888	30756084	38.09%	1.139%
44	6.784	459	460	465	VV 5	31486	691702	0.86%	0.026%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.849	465	471	488	VV		1201774	25272000	31.30%	0.936%
46	6.967	488	491	503	VV	8	64472	1885758	2.34%	0.070%
47	7.078	503	510	520	VV	8	32737	1122831	1.39%	0.042%
48	7.149	520	522	524	VV	3	9607	105270	0.13%	0.004%
49	7.190	524	529	532	VV	7	14103	279459	0.35%	0.010%
50	7.225	532	535	543	VV	9	17804	415174	0.51%	0.015%
51	7.320	543	551	561	VV	9	29353	918155	1.14%	0.034%
52	7.390	561	563	576	VV	9	9561	252812	0.31%	0.009%
53	7.478	576	578	579	VV	2	8608	64880	0.08%	0.002%
54	7.490	579	580	587	VV	7	11942	151933	0.19%	0.006%
55	7.573	587	594	613	PV		972582	21149666	26.20%	0.783%
56	7.690	613	614	618	VV	4	29897	417912	0.52%	0.015%
57	7.749	618	624	633	VV	2	124500	2471809	3.06%	0.092%
58	7.814	633	635	646	VV	2	15912	607252	0.75%	0.022%
59	7.896	646	649	656	VV	9	11372	286623	0.36%	0.011%
60	7.961	656	660	665	VV	8	14341	322347	0.40%	0.012%
61	7.996	665	666	669	VV	3	9105	86070	0.11%	0.003%
62	8.020	669	670	672	VV	2	4321	39556	0.05%	0.001%
63	8.061	672	677	679	VV	6	13480	207440	0.26%	0.008%
64	8.090	679	682	685	VV	5	12912	190986	0.24%	0.007%
65	8.155	685	693	723	VV		1100784	29055345	35.99%	1.076%
66	8.372	723	730	749	VV		1545743	30293205	37.52%	1.122%
67	8.508	749	753	759	VV	5	62089	1570696	1.95%	0.058%
68	8.555	759	761	764	VV	4	27182	346000	0.43%	0.013%
69	8.578	764	765	768	VV	3	21213	301273	0.37%	0.011%
70	8.667	768	780	812	VV		1137218	28345267	35.11%	1.050%
71	8.861	812	813	828	VV		22873	1012240	1.25%	0.037%
72	8.961	828	830	832	VV	3	13021	191695	0.24%	0.007%
73	8.984	832	834	839	VV	6	12859	264233	0.33%	0.010%
74	9.025	839	841	845	VV	5	9755	171020	0.21%	0.006%
75	9.072	845	849	851	VV	5	11293	183102	0.23%	0.007%
76	9.102	851	854	856	VV	4	10839	167192	0.21%	0.006%
77	9.131	856	859	860	VV	3	9551	141383	0.18%	0.005%
78	9.149	860	862	867	VV	6	12677	202155	0.25%	0.007%
79	9.184	867	868	874	VV	6	8313	158739	0.20%	0.006%
80	9.237	874	877	880	VV	4	8021	98771	0.12%	0.004%
81	9.267	880	882	883	VV	2	11133	88174	0.11%	0.003%
82	9.290	883	886	893	VV	8	12308	276330	0.34%	0.010%
83	9.343	893	895	897	VV	3	7552	73484	0.09%	0.003%
84	9.367	897	899	904	VV	5	9623	204824	0.25%	0.008%
85	9.437	904	911	915	VV	9	15676	376424	0.47%	0.014%
86	9.472	915	917	919	VV	3	7287	85100	0.11%	0.003%
87	9.502	919	922	924	VV	4	11324	155310	0.19%	0.006%
88	9.537	924	928	929	VV	4	16004	203349	0.25%	0.008%
89	9.567	929	933	936	VV	6	26808	396140	0.49%	0.015%
90	9.590	936	937	939	VV	2	14481	133709	0.17%	0.005%
91	9.614	939	941	946	VV	6	13544	226179	0.28%	0.008%

0242

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.672	946	951	953	VV	6	9884	173569	0.21%	0.006%
93	9.714	953	958	962	VV	8	10661	216477	0.27%	0.008%
94	9.790	962	971	974	VV	10	8251	215732	0.27%	0.008%
95	9.825	974	977	979	VV	4	8595	103914	0.13%	0.004%
96	9.855	979	982	988	VV	8	9341	175651	0.22%	0.007%
97	9.902	988	990	993	VV	4	4725	66670	0.08%	0.002%
98	9.966	993	1001	1007	VV	7	41413	1243103	1.54%	0.046%
99	10.031	1007	1012	1023	VV	2	110711	2677299	3.32%	0.099%
100	10.108	1023	1025	1027	VV	3	24229	301586	0.37%	0.011%
101	10.131	1027	1029	1039	VV	3	19452	437199	0.54%	0.016%
102	10.214	1039	1043	1045	VV	5	13205	239327	0.30%	0.009%
103	10.249	1045	1049	1052	VV	6	19389	283185	0.35%	0.010%
104	10.272	1052	1053	1055	VV	2	14007	129590	0.16%	0.005%
105	10.296	1055	1057	1058	VV	2	11259	108982	0.13%	0.004%
106	10.308	1058	1059	1062	VV	3	8930	99090	0.12%	0.004%
107	10.337	1062	1064	1066	VV	3	8749	79684	0.10%	0.003%
108	10.355	1066	1067	1070	VV	3	10717	113654	0.14%	0.004%
109	10.402	1070	1075	1077	VV	6	11770	193557	0.24%	0.007%
110	10.425	1077	1079	1085	VV	7	7636	176950	0.22%	0.007%
111	10.472	1085	1087	1089	VV	3	8570	103049	0.13%	0.004%
112	10.514	1089	1094	1097	VV	7	7428	153228	0.19%	0.006%
113	10.543	1097	1099	1102	VV	4	7697	91097	0.11%	0.003%
114	10.572	1102	1104	1105	VV	2	7178	59920	0.07%	0.002%
115	10.596	1105	1108	1110	VV	4	10983	157317	0.19%	0.006%
116	10.614	1110	1111	1113	VV	2	7282	59055	0.07%	0.002%
117	10.649	1113	1117	1120	VV	6	13625	219091	0.27%	0.008%
118	10.678	1120	1122	1125	PV	4	9634	118411	0.15%	0.004%
119	10.708	1125	1127	1130	VV	4	8256	106506	0.13%	0.004%
120	10.749	1130	1134	1135	VV	4	8350	107207	0.13%	0.004%
121	10.772	1135	1138	1140	VV	4	16305	220167	0.27%	0.008%
122	10.802	1140	1143	1144	VV	3	15939	165471	0.20%	0.006%
123	10.831	1144	1148	1151	VV	5	24058	525747	0.65%	0.019%
124	10.866	1151	1154	1160	VV	8	24840	602383	0.75%	0.022%
125	10.919	1160	1163	1174	VV	8	19836	663645	0.82%	0.025%
126	11.002	1174	1177	1178	VV	3	17754	203751	0.25%	0.008%
127	11.043	1178	1184	1193	VV		79457	1655486	2.05%	0.061%
128	11.108	1193	1195	1198	VV	4	10749	143777	0.18%	0.005%
129	11.155	1198	1203	1208	VV	9	10486	221723	0.27%	0.008%
130	11.202	1208	1211	1215	VV	5	10756	196538	0.24%	0.007%
131	11.231	1215	1216	1221	VV	5	9671	152418	0.19%	0.006%
132	11.296	1221	1227	1232	VV		65428	972297	1.20%	0.036%
133	11.349	1232	1236	1241	VV	7	14557	333161	0.41%	0.012%
134	11.390	1241	1243	1249	VV	7	12580	268846	0.33%	0.010%
135	11.437	1249	1251	1258	VV	8	20398	403599	0.50%	0.015%
136	11.513	1258	1264	1277	VV	2	124418	2832517	3.51%	0.105%
137	11.608	1277	1280	1284	VV	6	11225	181095	0.22%	0.007%
138	11.678	1284	1292	1296	VV	10	15102	365914	0.45%	0.014%
139	11.719	1296	1299	1302	VV	5	11290	209199	0.26%	0.008%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.749	1302	1304	1306	VV	3	8647	84819	0.11%	0.003%
141	11.766	1306	1307	1310	VV	3	6770	53690	0.07%	0.002%
142	11.831	1310	1318	1322	VV	3	10606	234300	0.29%	0.009%
143	11.866	1322	1324	1329	VV	6	11016	234329	0.29%	0.009%
144	11.949	1329	1338	1342	VV		3166466	39722181	49.20%	1.471%
145	11.996	1342	1346	1359	VV		4095777	57838267	71.64%	2.142%
146	12.078	1359	1360	1368	VV	7	55387	1304941	1.62%	0.048%
147	12.137	1368	1370	1374	VV	4	29165	502146	0.62%	0.019%
148	12.172	1374	1376	1381	VV	6	24118	410171	0.51%	0.015%
149	12.231	1381	1386	1390	VV	8	22994	646928	0.80%	0.024%
150	12.290	1390	1396	1408	VV		2678369	36867036	45.66%	1.365%
151	12.372	1408	1410	1414	VV	5	56453	1006226	1.25%	0.037%
152	12.431	1414	1420	1423	VV	6	51944	1212595	1.50%	0.045%
153	12.460	1423	1425	1434	VV	9	40327	1195586	1.48%	0.044%
154	12.537	1434	1438	1444	VV	3	57578	1403626	1.74%	0.052%
155	12.584	1444	1446	1451	VV	6	37880	822678	1.02%	0.030%
156	12.637	1451	1455	1457	VV	4	35254	664453	0.82%	0.025%
157	12.678	1457	1462	1467	VV	4	79400	1972105	2.44%	0.073%
158	12.749	1467	1474	1482	VV	2	776222	19110063	23.67%	0.708%
159	12.802	1482	1483	1490	VV	3	303125	6332885	7.84%	0.234%
160	12.855	1490	1492	1498	VV	3	176261	3797552	4.70%	0.141%
161	12.902	1498	1500	1508	VV	7	100177	2777803	3.44%	0.103%
162	12.966	1508	1511	1512	VV	3	78812	1174300	1.45%	0.043%
163	13.002	1512	1517	1518	VV	5	99691	1614959	2.00%	0.060%
164	13.013	1518	1519	1523	VV	4	103237	1627327	2.02%	0.060%
165	13.084	1523	1531	1555	VV		5313510	79278490	98.19%	2.936%
166	13.260	1555	1561	1570	VV	8	184087	7315490	9.06%	0.271%
167	13.343	1570	1575	1579	VV		964261	16495423	20.43%	0.611%
168	13.372	1579	1580	1589	VV	2	481378	11054103	13.69%	0.409%
169	13.437	1589	1591	1593	VV		261599	3738128	4.63%	0.138%
170	13.466	1593	1596	1601	VV	2	355024	6499086	8.05%	0.241%
171	13.513	1601	1604	1610	VV		285103	6573894	8.14%	0.243%
172	13.572	1610	1614	1615	VV	4	177656	2953466	3.66%	0.109%
173	13.631	1615	1624	1627	VV	8	223894	8174958	10.13%	0.303%
174	13.684	1627	1633	1636	VV		739145	11554529	14.31%	0.428%
175	13.713	1636	1638	1650	VV		729648	18696646	23.16%	0.692%
176	13.819	1650	1656	1659	VV	7	263793	7252380	8.98%	0.269%
177	13.866	1659	1664	1670	VV	2	495274	12208420	15.12%	0.452%
178	13.931	1670	1675	1679	VV		448872	10421469	12.91%	0.386%
179	13.966	1679	1681	1685	VV	3	361220	5902247	7.31%	0.219%
180	14.002	1685	1687	1689	VV		357115	5086627	6.30%	0.188%
181	14.031	1689	1692	1696	VV		399878	7575227	9.38%	0.280%
182	14.072	1696	1699	1703	VV	2	389166	7409237	9.18%	0.274%
183	14.131	1703	1709	1712	VV	6	301280	8737375	10.82%	0.324%
184	14.160	1712	1714	1716	VV	2	317197	4399137	5.45%	0.163%
185	14.190	1716	1719	1720	VV	3	327252	4849101	6.01%	0.180%
186	14.219	1720	1724	1727	VV		817339	11409887	14.13%	0.422%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.266	1727	1732	1738	VV	2	1092993	21699497	26.88%	0.803%
188	14.325	1738	1742	1748	VV		3592533	45771762	56.69%	1.695%
189	14.384	1748	1752	1757	VV		5934895	70697315	87.56%	2.618%
190	14.425	1757	1759	1764	VV	3	524347	11805097	14.62%	0.437%
191	14.466	1764	1766	1769	VV		395591	5602531	6.94%	0.207%
192	14.496	1769	1771	1773	VV	2	387797	5466255	6.77%	0.202%
193	14.519	1773	1775	1780	VV	3	417274	7976939	9.88%	0.295%
194	14.566	1780	1783	1787	VV	3	369103	8006453	9.92%	0.296%
195	14.619	1787	1792	1797	VV		2434514	30095156	37.27%	1.114%
196	14.660	1797	1799	1801	VV	3	369564	5765154	7.14%	0.213%
197	14.690	1801	1804	1809	VV		584132	10228687	12.67%	0.379%
198	14.743	1809	1813	1817	VV	7	321030	8608985	10.66%	0.319%
199	14.778	1817	1819	1823	VV	5	293014	5846662	7.24%	0.216%
200	14.819	1823	1826	1832	VV	3	395150	10017544	12.41%	0.371%
201	14.890	1832	1838	1841	VV	5	312810	8766826	10.86%	0.325%
202	14.919	1841	1843	1845	VV	2	273039	3474536	4.30%	0.129%
203	14.949	1845	1848	1850	VV	4	253136	4203531	5.21%	0.156%
204	14.972	1850	1852	1856	VV	4	262374	4981285	6.17%	0.184%
205	15.013	1856	1859	1861	VV	2	268622	4468734	5.53%	0.165%
206	15.049	1861	1865	1871	VV		571970	11047697	13.68%	0.409%
207	15.125	1871	1878	1888	VV		384176	13986273	17.32%	0.518%
208	15.231	1888	1896	1900	VV	10	260034	9524837	11.80%	0.353%
209	15.290	1900	1906	1907	VV	6	220703	4616068	5.72%	0.171%
210	15.313	1907	1910	1915	VV	4	269326	6930596	8.58%	0.257%
211	15.354	1915	1917	1923	VV	7	198671	5312737	6.58%	0.197%
212	15.419	1923	1928	1931	VV	7	217818	5348807	6.62%	0.198%
213	15.443	1931	1932	1935	VV	3	216993	2923581	3.62%	0.108%
214	15.472	1935	1937	1939	VV	3	203368	2894868	3.59%	0.107%
215	15.496	1939	1941	1942	VV	2	213325	2640609	3.27%	0.098%
216	15.525	1942	1946	1949	VV		362123	5887150	7.29%	0.218%
217	15.554	1949	1951	1961	VV	10	294771	10713014	13.27%	0.397%
218	15.654	1961	1968	1971	VV	3	267696	7600840	9.41%	0.281%
219	15.678	1971	1972	1979	VV	7	249049	6203878	7.68%	0.230%
220	15.731	1979	1981	1983	VV	3	214652	3048734	3.78%	0.113%
221	15.748	1983	1984	1990	VV	6	213044	5465916	6.77%	0.202%
222	15.807	1990	1994	1995	VV	4	228403	3666889	4.54%	0.136%
223	15.831	1995	1998	2001	VV		260181	5322407	6.59%	0.197%
224	15.896	2001	2009	2018	VV		6693751	80738366	100.00%	2.990%
225	15.966	2018	2021	2026	VV	6	261296	7440743	9.22%	0.276%
226	16.013	2026	2029	2030	VV	3	242491	3401440	4.21%	0.126%
227	16.043	2030	2034	2048	VV	3	271644	15760829	19.52%	0.584%
228	16.166	2048	2055	2057	VV	8	248768	7721699	9.56%	0.286%
229	16.201	2057	2061	2062	VV	4	252920	4619633	5.72%	0.171%
230	16.225	2062	2065	2067	VV	4	263425	4027909	4.99%	0.149%
231	16.260	2067	2071	2075	VV	2	346419	7861956	9.74%	0.291%
232	16.307	2075	2079	2080	VV	4	249689	4672845	5.79%	0.173%
233	16.331	2080	2083	2086	VV	5	252825	5033168	6.23%	0.186%
234	16.384	2086	2092	2096	VV	9	266761	8843305	10.95%	0.327%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.425	2096	2099	2102	VV 5	264413	5857126	7.25%	0.217%
236	16.472	2102	2107	2109	VV 6	283273	5894973	7.30%	0.218%
237	16.495	2109	2111	2114	VV 3	309496	5374605	6.66%	0.199%
238	16.525	2114	2116	2118	VV 3	297083	4906031	6.08%	0.182%
239	16.560	2118	2122	2123	VV 4	314955	5370146	6.65%	0.199%
240	16.584	2123	2126	2128	VV 3	338188	4743107	5.87%	0.176%
241	16.601	2128	2129	2132	VV 3	365373	5092590	6.31%	0.189%
242	16.631	2132	2134	2136	VV 3	301660	4450846	5.51%	0.165%
243	16.672	2136	2141	2147	VV 9	293087	10274500	12.73%	0.380%
244	16.731	2147	2151	2153	VV 5	289934	6702515	8.30%	0.248%
245	16.754	2153	2155	2157	VV 3	277798	3211587	3.98%	0.119%
246	16.801	2157	2163	2168	VV 10	279071	10419919	12.91%	0.386%
247	16.837	2168	2169	2172	VV 3	278177	4606341	5.71%	0.171%
248	16.931	2172	2185	2187	VV 4	340500	15357382	19.02%	0.569%
249	16.954	2187	2189	2191	VV 3	307694	4556810	5.64%	0.169%
250	16.990	2191	2195	2199	VV 7	315050	7655161	9.48%	0.283%
251	17.043	2199	2204	2205	VV 5	344219	7136642	8.84%	0.264%
252	17.060	2205	2207	2211	VV 5	345079	6768458	8.38%	0.251%
253	17.095	2211	2213	2216	VV 4	341878	6245794	7.74%	0.231%
254	17.154	2216	2223	2235	VV	4054041	62162257	76.99%	2.302%
255	17.248	2235	2239	2242	VV 5	353753	7906192	9.79%	0.293%
256	17.278	2242	2244	2246	VV 3	331428	4025531	4.99%	0.149%
257	17.295	2246	2247	2248	VV	324388	3367785	4.17%	0.125%
258	17.319	2248	2251	2254	VV 5	333591	6330633	7.84%	0.234%
259	17.348	2254	2256	2260	VV 5	327768	6473256	8.02%	0.240%
260	17.401	2260	2265	2267	VV 6	331218	8656264	10.72%	0.321%
261	17.425	2267	2269	2271	VV 3	329403	4082512	5.06%	0.151%
262	17.519	2271	2285	2288	VV 3	354045	19970734	24.74%	0.739%
263	17.584	2288	2296	2301	VV 2	396530	15434840	19.12%	0.572%
264	17.637	2301	2305	2307	VV 5	339070	7241393	8.97%	0.268%
265	17.672	2307	2311	2314	VV 5	362833	8648129	10.71%	0.320%
266	17.701	2314	2316	2319	VV 4	353507	6473905	8.02%	0.240%
267	17.731	2319	2321	2323	VV 3	354676	3938206	4.88%	0.146%
268	17.748	2323	2324	2328	VV 4	363713	7055609	8.74%	0.261%
269	17.813	2328	2335	2338	VV 3	397327	12749632	15.79%	0.472%
270	17.848	2338	2341	2351	VV 3	363706	15963242	19.77%	0.591%
271	17.954	2351	2359	2363	VV 10	389204	14465084	17.92%	0.536%
272	17.995	2363	2366	2375	VV 10	384539	15833609	19.61%	0.586%
273	18.060	2375	2377	2382	VV 6	361621	8111092	10.05%	0.300%
274	18.101	2382	2384	2388	VV 5	372369	7712591	9.55%	0.286%
275	18.148	2388	2392	2394	VV 3	416286	8797352	10.90%	0.326%
276	18.172	2394	2396	2401	VV 6	357752	7688402	9.52%	0.285%
277	18.219	2401	2404	2409	VV 7	367989	9978452	12.36%	0.369%
278	18.284	2409	2415	2421	VV 9	360217	14603403	18.09%	0.541%
279	18.337	2421	2424	2427	VV 5	344669	6849279	8.48%	0.254%
280	18.372	2427	2430	2434	VV 4	402823	9238240	11.44%	0.342%
281	18.419	2434	2438	2441	VV 3	374179	8120830	10.06%	0.301%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	18.454	2441	2444	2449	VV	5	388247	10430591	12.92%	0.386%
283	18.507	2449	2453	2462	VV	10	350690	15178486	18.80%	0.562%
284	18.572	2462	2464	2466	VV	3	338350	5200365	6.44%	0.193%
285	18.595	2466	2468	2470	VV	3	342029	4645677	5.75%	0.172%
286	18.619	2470	2472	2475	VV	4	343922	5749545	7.12%	0.213%
287	18.731	2475	2491	2499	VV	4	369389	27304308	33.82%	1.011%
288	18.784	2499	2500	2506	VV	6	321395	7716653	9.56%	0.286%
289	18.860	2506	2513	2522	VV	2	3957101	76756076	95.07%	2.842%
290	18.919	2522	2523	2527	VV	4	355550	5879341	7.28%	0.218%
291	18.984	2527	2534	2544	VV		2387084	52439852	64.95%	1.942%
292	19.066	2544	2548	2553	VV	8	319008	10084321	12.49%	0.373%
293	19.107	2553	2555	2557	VV	3	301710	3942851	4.88%	0.146%
294	19.154	2557	2563	2568	VV	10	299557	10967813	13.58%	0.406%
295	19.207	2568	2572	2578	VV	9	303926	10384047	12.86%	0.384%
296	19.260	2578	2581	2585	VV	5	297395	7063994	8.75%	0.262%
297	19.289	2585	2586	2588	VV	2	289299	3883679	4.81%	0.144%
298	19.319	2588	2591	2595	VV	6	289288	6970795	8.63%	0.258%
299	19.360	2595	2598	2603	VV	7	297524	7853999	9.73%	0.291%
300	19.425	2603	2609	2620	VV	6	339621	17067634	21.14%	0.632%
301	19.501	2620	2622	2626	VV	5	272040	5509204	6.82%	0.204%
302	19.536	2626	2628	2632	VV	5	262025	5754868	7.13%	0.213%
303	19.619	2632	2642	2648	VV	4	356913	16469661	20.40%	0.610%
304	19.689	2648	2654	2656	VV	7	359480	9116736	11.29%	0.338%
305	19.748	2656	2664	2669	VV	7	408587	18424159	22.82%	0.682%
306	19.813	2669	2675	2683	VV	7	385800	16815782	20.83%	0.623%
307	19.866	2683	2684	2690	VV	6	333961	7948849	9.85%	0.294%
308	19.907	2690	2691	2696	VV	5	311788	6462964	8.00%	0.239%
309	19.948	2696	2698	2701	VV	4	307463	5881842	7.29%	0.218%
310	19.972	2701	2702	2706	VV	4	288872	5094475	6.31%	0.189%
311	20.007	2706	2708	2717	VV	10	284873	10670335	13.22%	0.395%
312	20.089	2717	2722	2735	VV	10	275724	16406554	20.32%	0.607%
313	20.201	2735	2741	2756	VV	2	377197	21350015	26.44%	0.791%
314	20.295	2756	2757	2769	VV	2	253671	11689127	14.48%	0.433%
315	20.407	2769	2776	2785	VV	2	289665	14698242	18.20%	0.544%
316	20.483	2785	2789	2791	VV	5	249597	5075965	6.29%	0.188%
317	20.507	2791	2793	2796	VV	4	254874	4109298	5.09%	0.152%
318	20.548	2796	2800	2807	VV	10	249034	9645915	11.95%	0.357%
319	20.595	2807	2808	2810	VV	2	237462	2750487	3.41%	0.102%
320	20.619	2810	2812	2814	VV	3	235237	2952646	3.66%	0.109%
321	20.660	2814	2819	2826	VV	3	240842	9794637	12.13%	0.363%
322	20.713	2826	2828	2839	VV	3	236069	10681189	13.23%	0.396%
323	20.795	2839	2842	2844	VV	4	235408	3930280	4.87%	0.146%
324	20.836	2844	2849	2852	VV	7	234392	6520253	8.08%	0.241%
325	20.883	2852	2857	2869	VV	7	243354	14060703	17.42%	0.521%
326	21.030	2869	2882	2892	VV	7	261883	18513556	22.93%	0.686%
327	21.095	2892	2893	2898	VV	5	221749	4718410	5.84%	0.175%
328	21.178	2898	2907	2909	VV	10	267734	9380249	11.62%	0.347%
329	21.201	2909	2911	2922	VV	10	262155	10814383	13.39%	0.400%

B247

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.278	2922	2924	2928	VV	5	223669	5003574	6.20%	0.185%
331	21.319	2928	2931	2937	VV	8	231366	6655345	8.24%	0.246%
332	21.378	2937	2941	2943	VV	5	239350	4951556	6.13%	0.183%
333	21.448	2943	2953	2960	VV	5	266779	15263711	18.91%	0.565%
334	21.501	2960	2962	2964	VV	3	251176	3511179	4.35%	0.130%
335	21.525	2964	2966	2969	VV	4	242282	3722225	4.61%	0.138%
336	21.554	2969	2971	2973	VV	3	239740	3154958	3.91%	0.117%
337	21.572	2973	2974	2976	VV	2	239392	2875414	3.56%	0.106%
338	21.601	2976	2979	2981	VV	4	236086	3865063	4.79%	0.143%
339	21.625	2981	2983	2984	VV	2	240399	2632745	3.26%	0.097%
340	21.648	2984	2987	2999	VV	2	249891	12449409	15.42%	0.461%
341	21.736	2999	3002	3009	VV	9	214055	7314209	9.06%	0.271%
342	21.813	3009	3015	3018	VV	8	218477	6635317	8.22%	0.246%
343	21.842	3018	3020	3028	VV	9	211532	7004592	8.68%	0.259%
344	21.901	3028	3030	3033	VV	4	208124	3903354	4.83%	0.145%
345	21.936	3033	3036	3038	VV	4	213986	3675405	4.55%	0.136%
346	22.007	3038	3048	3058	VV	4	322347	16937796	20.98%	0.627%
347	22.072	3058	3059	3061	VV	2	206866	2495501	3.09%	0.092%
348	22.095	3061	3063	3065	VV	3	199130	2858434	3.54%	0.106%
349	22.142	3065	3071	3073	VV	7	197499	5016251	6.21%	0.186%
350	22.195	3073	3080	3082	VV	8	203593	6378681	7.90%	0.236%
351	22.248	3082	3089	3091	VV	8	210859	6380657	7.90%	0.236%
352	22.266	3091	3092	3097	VV	5	211819	4814192	5.96%	0.178%
353	22.330	3097	3103	3108	VV	10	204104	7095140	8.79%	0.263%
354	22.366	3108	3109	3111	VV	2	195111	2093055	2.59%	0.078%
355	22.401	3111	3115	3124	VV	2	212611	9573166	11.86%	0.354%
356	22.483	3124	3129	3134	VV	9	199423	6403321	7.93%	0.237%
357	22.536	3134	3138	3140	VV	5	205256	4200027	5.20%	0.156%
358	22.560	3140	3142	3143	VV	2	198231	2417561	2.99%	0.090%
359	22.583	3143	3146	3150	VV	6	204761	4441670	5.50%	0.164%
360	22.619	3150	3152	3154	VV	3	202575	2955721	3.66%	0.109%
361	22.642	3154	3156	3158	VV	3	186236	2237692	2.77%	0.083%
362	22.660	3158	3159	3162	VV	3	183962	2494420	3.09%	0.092%
363	22.701	3162	3166	3178	VV	3	191901	10303236	12.76%	0.382%
364	22.783	3178	3180	3182	VV	3	169804	1862384	2.31%	0.069%
365	22.807	3182	3184	3189	VV	6	180612	4457766	5.52%	0.165%
366	22.877	3189	3196	3198	VV	8	188090	5664992	7.02%	0.210%
367	22.913	3198	3202	3205	VV	6	186418	4207315	5.21%	0.156%
368	22.942	3205	3207	3211	VV	5	192278	4406261	5.46%	0.163%
369	22.983	3211	3214	3221	VV	9	181300	6232239	7.72%	0.231%
370	23.036	3221	3223	3228	VV	6	185128	3846704	4.76%	0.142%
371	23.107	3228	3235	3238	VV	9	179884	6369953	7.89%	0.236%
372	23.136	3238	3240	3241	VV	2	170299	2010940	2.49%	0.074%
373	23.154	3241	3243	3245	VV	3	173930	2349448	2.91%	0.087%
374	23.177	3245	3247	3255	VV	9	173190	5691588	7.05%	0.211%
375	23.236	3255	3257	3261	VV	5	172054	3334127	4.13%	0.123%
376	23.272	3261	3263	3265	VV	3	171432	2342765	2.90%	0.087%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.307	3265	3269	3273	VV 7	184280	4807309	5.95%	0.178%
378	23.348	3273	3276	3278	VV 4	179147	3332094	4.13%	0.123%
379	23.383	3278	3282	3287	VV 8	176709	5552355	6.88%	0.206%
380	23.424	3287	3289	3295	VV 7	167936	4348070	5.39%	0.161%
381	23.471	3295	3297	3298	VV 2	166816	1901974	2.36%	0.070%
382	23.489	3298	3300	3304	VV 5	165714	3480084	4.31%	0.129%
383	23.530	3304	3307	3313	VV 8	156753	4775498	5.91%	0.177%
384	23.589	3313	3317	3322	VV 8	154843	4434743	5.49%	0.164%
385	23.648	3322	3327	3334	VV 8	162211	6659823	8.25%	0.247%
386	23.701	3334	3336	3337	VV 2	147826	1588018	1.97%	0.059%
387	23.730	3337	3341	3342	VV 4	151697	2484619	3.08%	0.092%
388	23.754	3342	3345	3347	VV 4	161215	2711402	3.36%	0.100%
389	23.795	3347	3352	3354	VV 6	175583	4238912	5.25%	0.157%
390	23.836	3354	3359	3363	VV 8	165519	4682014	5.80%	0.173%
391	23.883	3363	3367	3372	VV 8	154740	5139195	6.37%	0.190%
392	23.924	3372	3374	3376	VV 3	153487	1692335	2.10%	0.063%
393	23.983	3376	3384	3398	VV 3	193802	13736474	17.01%	0.509%
394	24.077	3398	3400	3407	VV 8	157849	4865204	6.03%	0.180%
395	24.130	3407	3409	3411	VV 3	155932	2022144	2.50%	0.075%
396	24.160	3411	3414	3421	VV 9	154792	4841189	6.00%	0.179%
397	24.213	3421	3423	3437	VV 9	150207	7915678	9.80%	0.293%
398	24.301	3437	3438	3440	VV 2	140561	1666478	2.06%	0.062%
399	24.324	3440	3442	3445	VV 4	143262	2506625	3.10%	0.093%
400	24.354	3445	3447	3451	VV 5	147799	2894303	3.58%	0.107%
401	24.401	3451	3455	3461	VV 9	143745	5125161	6.35%	0.190%
402	24.454	3461	3464	3470	VV 8	143542	4483396	5.55%	0.166%
403	24.501	3470	3472	3474	VV 3	139399	1603510	1.99%	0.059%
404	24.524	3474	3476	3481	VV 6	141330	3557904	4.41%	0.132%
405	24.589	3481	3487	3489	VV 7	135472	3360312	4.16%	0.124%
406	24.613	3489	3491	3493	VV 3	140089	1882883	2.33%	0.070%
407	24.754	3493	3515	3531	VV 3	277366	25212382	31.23%	0.934%
408	24.866	3531	3534	3537	VV 5	136383	2460951	3.05%	0.091%
409	24.924	3537	3544	3546	VV 8	137785	4020452	4.98%	0.149%
410	24.948	3546	3548	3552	VBA5	143698	3560113	4.41%	0.132%

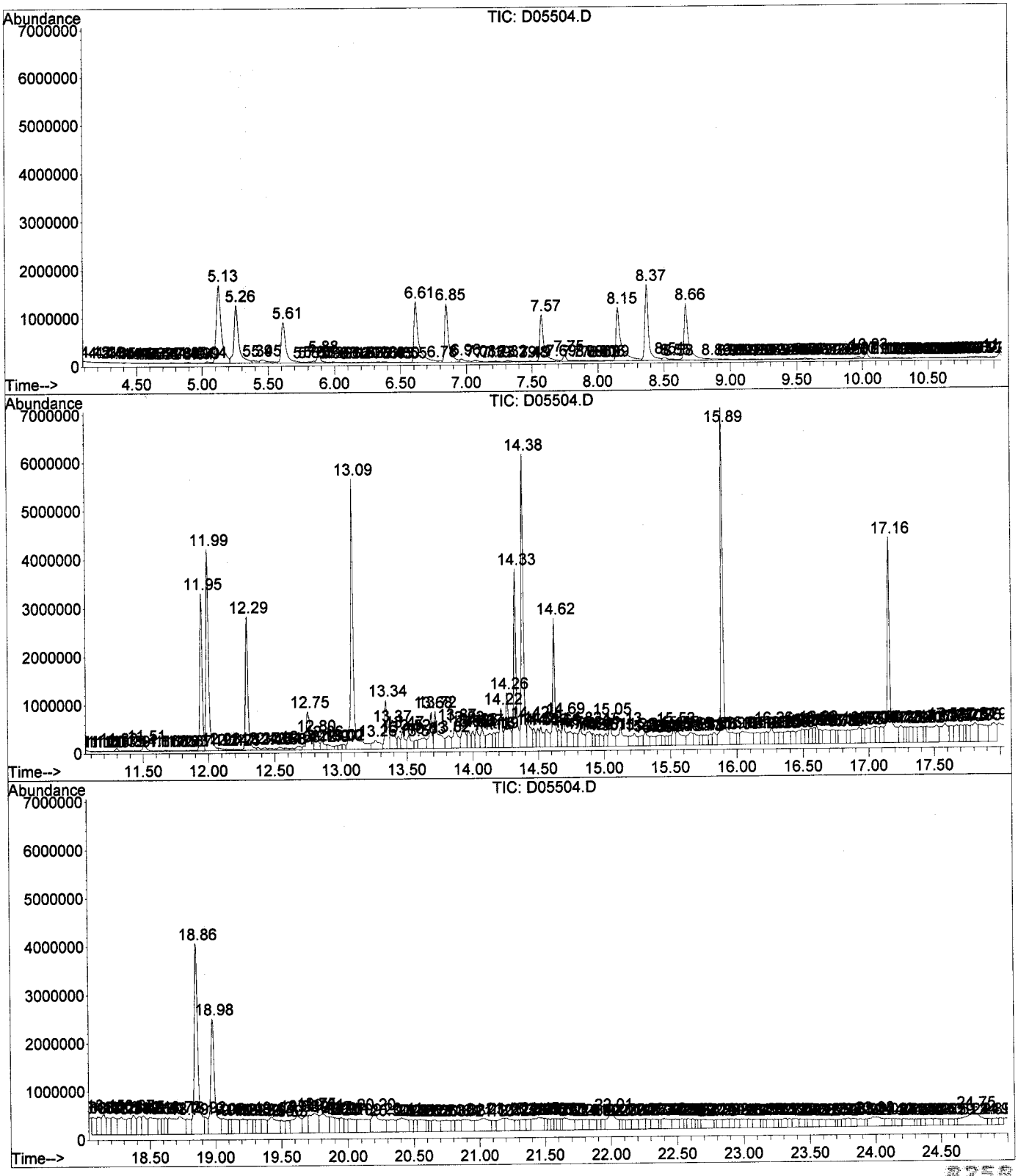
Sum of corrected areas: 2700674805

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37
Operator: SV
Sample : F4XQ1
Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

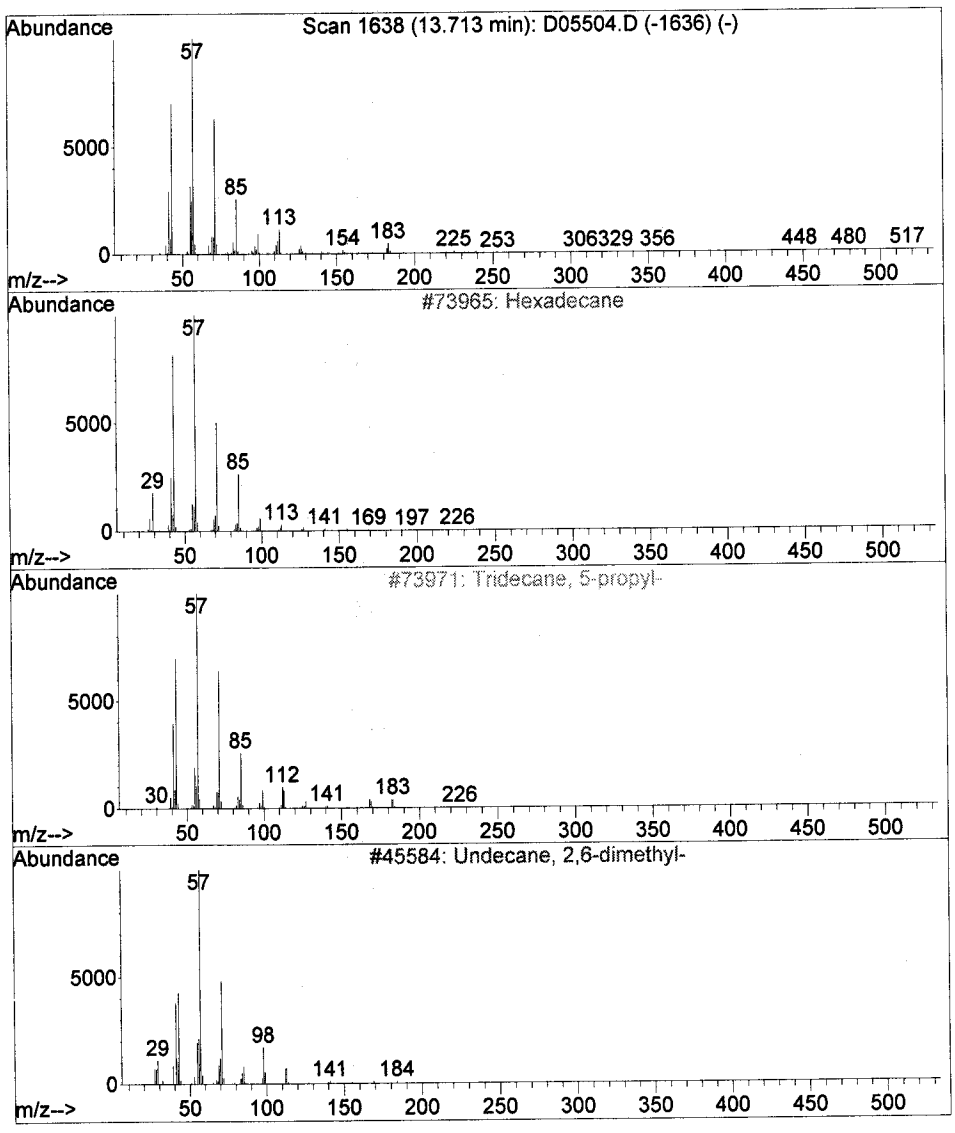
****

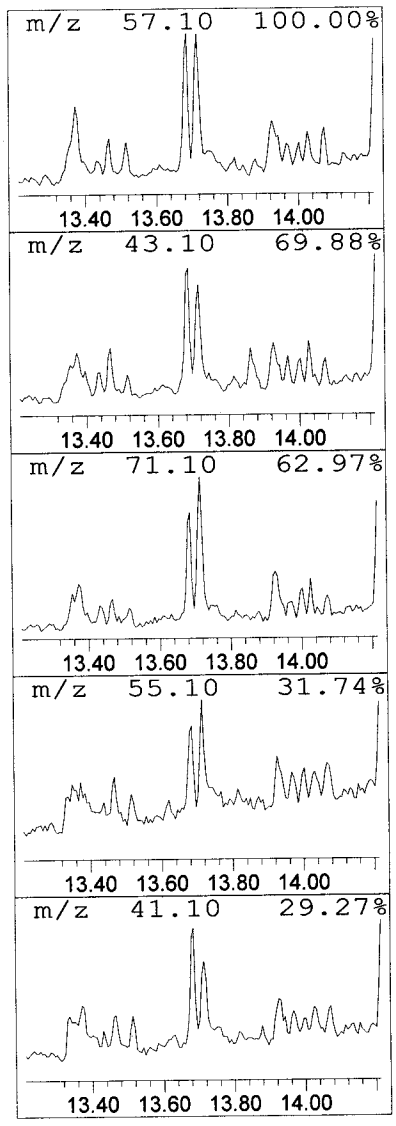
Peak Number 1 Hexadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	8.17 ug/L	18696600	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	76
2	Tridecane, 5-propyl-	226	C16H34	055045-11-9	72
3	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	72
4	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	68
5	Squalane	422	C30H62	000111-01-3	64





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

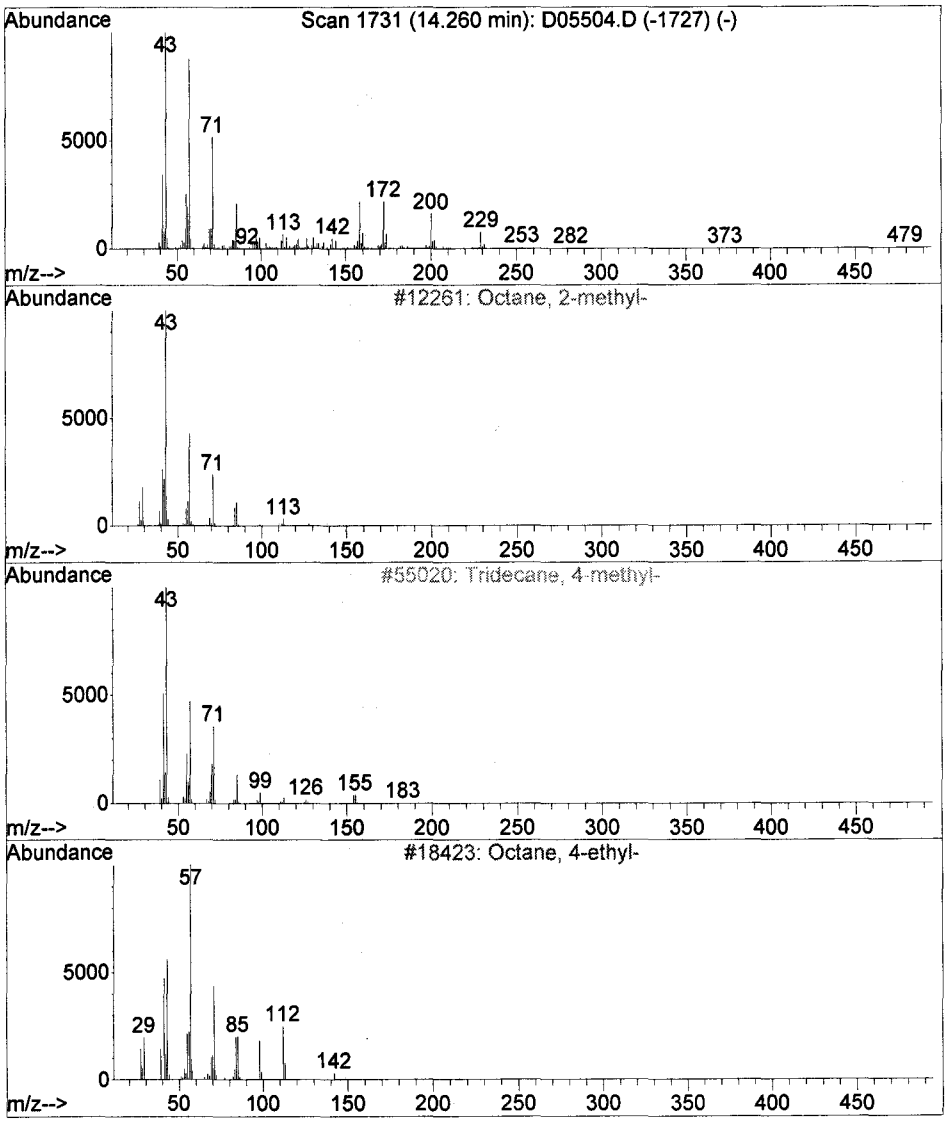
****

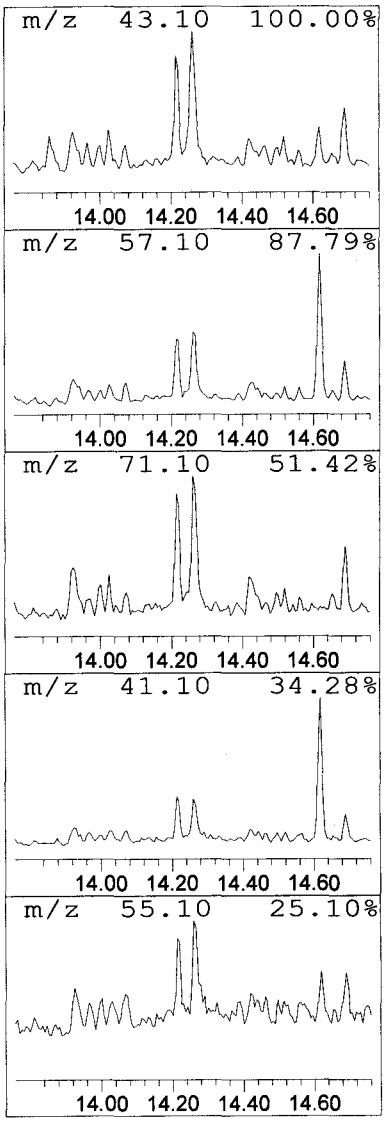
Peak Number 2 Octane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	7.40 ug/L	16942100	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2-methyl-	128	C9H20	003221-61-2	49
2	Tridecane, 4-methyl-	198	C14H30	026730-12-1	49
3	Octane, 4-ethyl-	142	C10H22	015869-86-0	49
4	Decane, 2-methyl-	156	C11H24	006975-98-0	49
5	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	46





8252

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

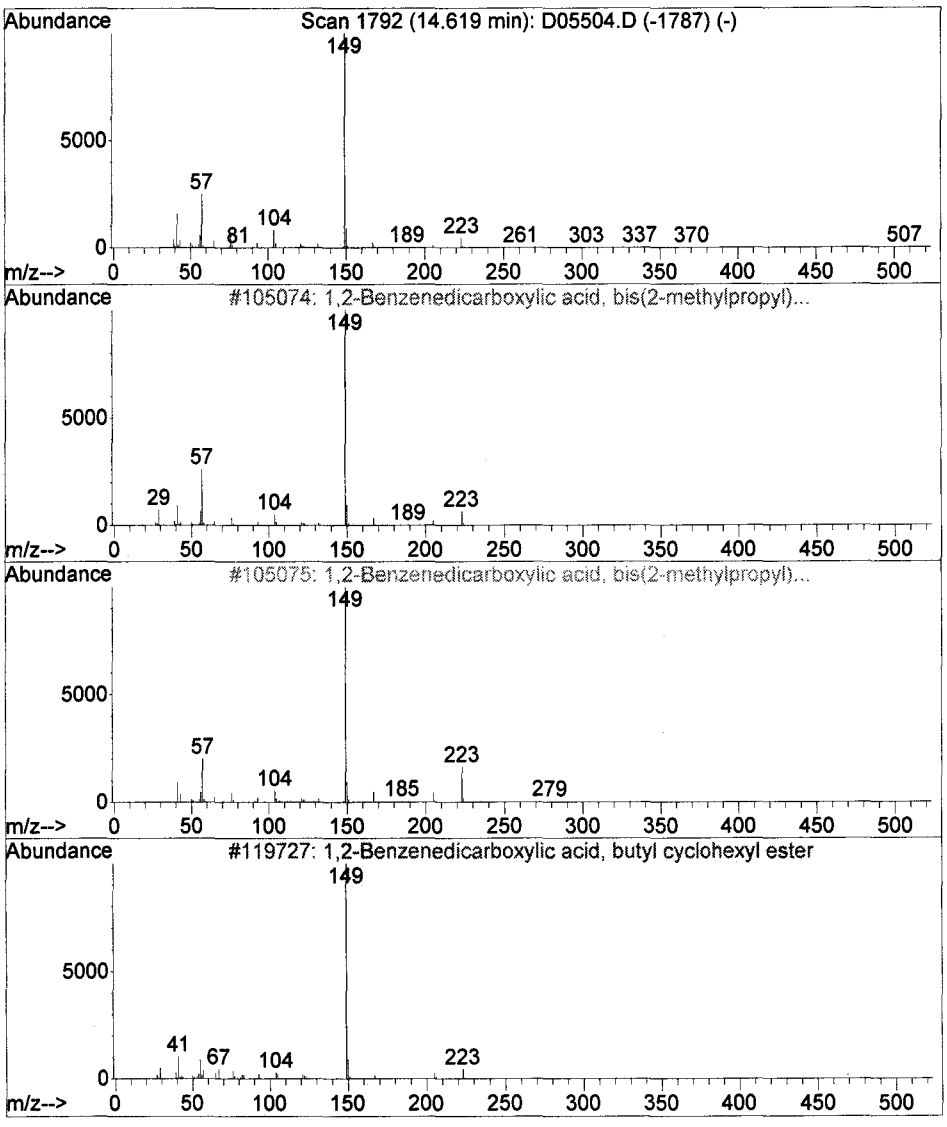
****

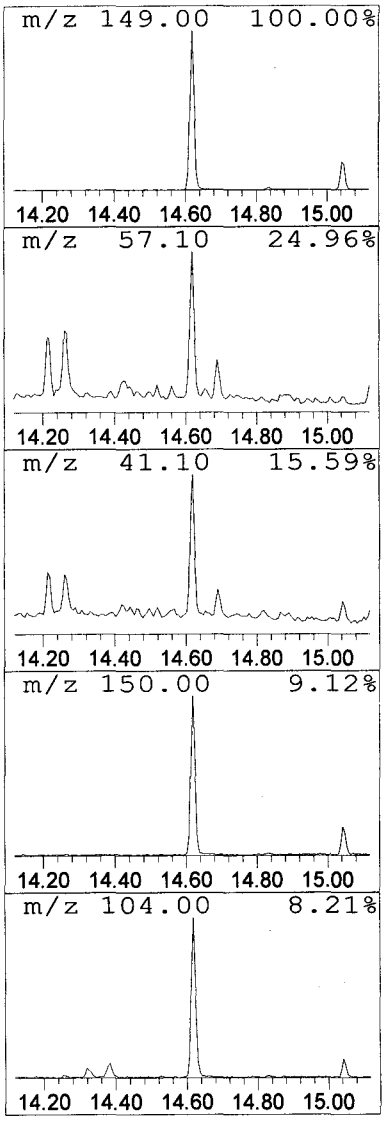
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	13.15 ug/L	30095200	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
2	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
3	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
4	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-18-9	78
5	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	72





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05504.D
Acq On : 12/15/11 12:37 Operator: SV
Sample : F4XQ1 Inst : D-5973
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexadecane	13.72	8.2	ug/L	18696600	4	14.33	45771800	20.0
Octane, 2-methyl-	14.26	7.4	ug/L	16942100	4	14.33	45771800	20.0
1,2-Benzenedicarb...	14.62	13.2	ug/L	30095200	4	14.33	45771800	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.03

Sample wt/vol: 60.70 (g/mL) G Lab File ID: D05505

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

% Moisture: 42 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	140	U
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	140	U
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	140	U
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	140	U
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	280	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	280	U
83-32-9	Acenaphthene	140	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.03

Sample wt/vol: 60.70 (g/mL) G Lab File ID: D05505

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

% Moisture: 42 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	280	U
100-02-7	4-Nitrophenol	280	U
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	140	U
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	280	U
534-52-1	4,6-Dinitro-2-methylphenol	280	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	280	U
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	140	U
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	66	J
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.03

Sample wt/vol: 60.70 (g/mL) G Lab File ID: D05505

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

% Moisture: 42 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.26	240	J
02		Unknown-02	14.62	310	J
03		Unknown-03	20.20	240	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05505.D
Acq On : 12/15/11 13:08
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 19 10:45:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

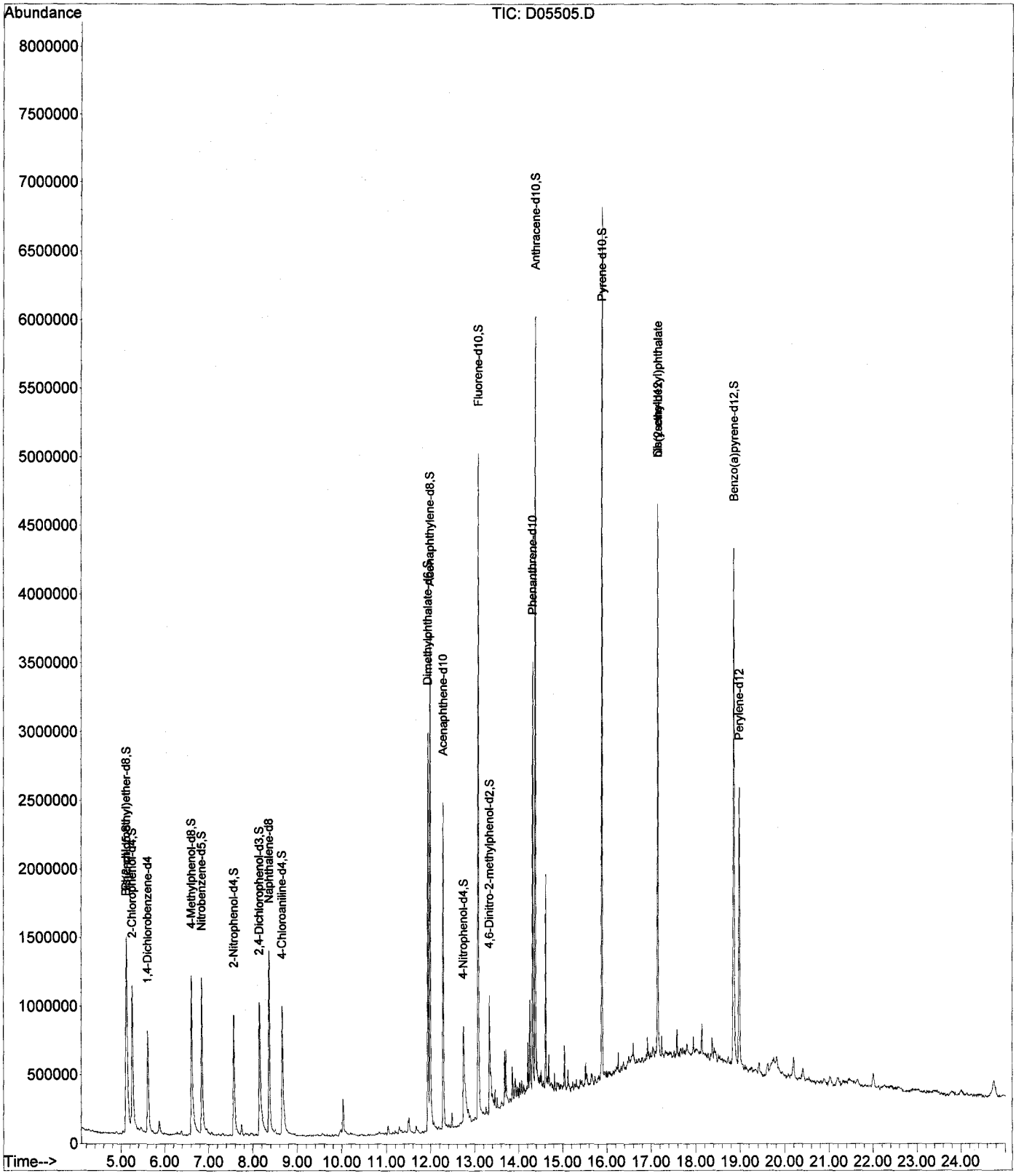
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2480422	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	11505366	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7165179	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	12730842	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	12569706	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	12078103	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	13000753	35.8763 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 89.69%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	4818880	32.4806 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 81.20%		
7) 2-Chlorophenol-d4	5.26	132	5953659	34.6833 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 86.71%		
12) 4-Methylphenol-d8	6.61	113	5611116	35.8645 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 89.66%		
17) Nitrobenzene-d5	6.85	128	3140181	36.5913 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 91.48%		
20) 2-Nitrophenol-d4	7.57	143	3301611	40.3922 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 100.98%		
24) 2,4-Dichlorophenol-d3	8.15	165	5160026m	34.8507 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 87.13%		
27) 4-Chloroaniline-d4	8.67	131	6734190	40.8242 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 102.06%		
41) Acenaphthylene-d8	12.00	160	23508190	35.3836 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 88.46%		
43) Dimethylphthalate-d6	11.95	166	16214651	36.1239 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 90.31%		
49) 4-Nitrophenol-d4	12.75	143	3005365	47.3703 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 118.43%#		
56) Fluorene-d10	13.09	176	14507823	33.8390 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 84.60%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1827273	45.0446 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 112.61%#		
68) Anthracene-d10	14.38	188	24373592	35.6909 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 89.23%		
79) Pyrene-d10	15.89	212	25606201	35.3313 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 88.33%		
85) Benzo(a)pyrene-d12	18.86	264	19673094	34.9138 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 87.28%		
Target Compounds					Qvalue
75) bis(2-ethylhexyl)phthalate	17.16	149	1207403	2.3193 ug/L #	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

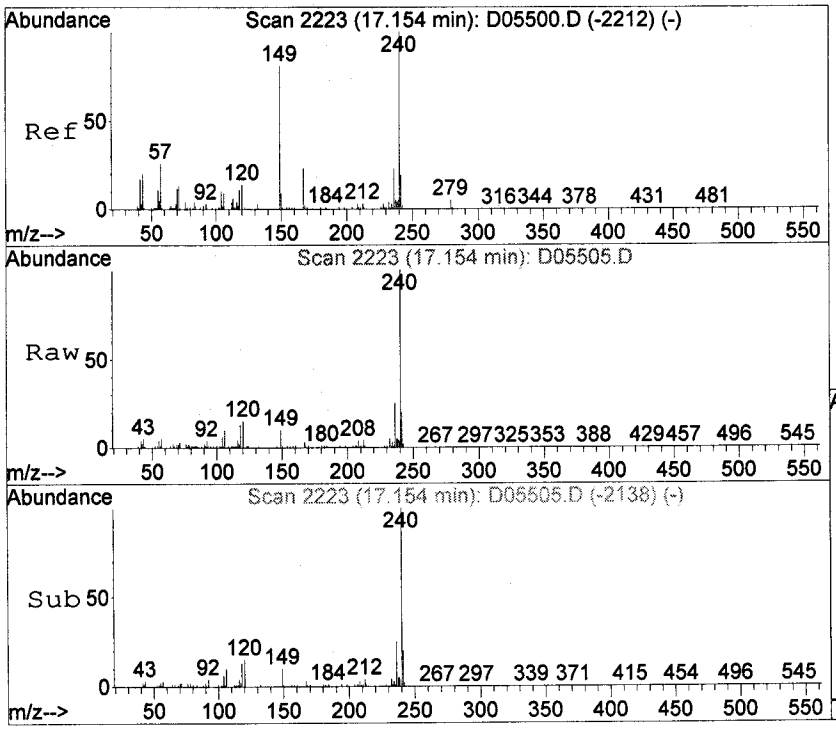
Data File: C:\MSDCHEM\1\DATA\D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 10:45:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



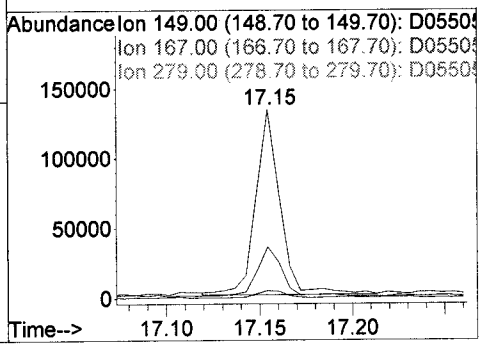
Data File : C:\MSDCHEM\1\DATA\D05505.D
Acq On : 12/15/11 13:08
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 7
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 2.32 ug/L
RT: 17.16 min Scan# 2223
Delta R.T. 0.00 min
Integration Range:
Scan=2217 to 2233
R.T.= 17.12 to 17.21 (min)
Tgt Ion:149 Resp: 1207403

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.5	32.3
279	8.2	3.8	5.6#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.114	3	6	9	BV 5	8981	99670	0.11%	0.004%
2	4.138	9	10	18	VV 7	8523	124721	0.14%	0.005%
3	4.196	18	20	22	PV 3	8613	61441	0.07%	0.002%
4	4.243	22	28	40	VV 3	16145	550718	0.60%	0.021%
5	4.338	40	44	49	VV 8	14696	241330	0.26%	0.009%
6	4.390	49	53	56	VV 6	6594	127309	0.14%	0.005%
7	4.420	56	58	60	VV 3	10350	98463	0.11%	0.004%
8	4.438	60	61	67	VV 5	5828	130725	0.14%	0.005%
9	4.479	67	68	71	VV 3	6639	54523	0.06%	0.002%
10	4.514	71	74	76	VV 4	7977	91398	0.10%	0.003%
11	4.538	76	78	83	VV 6	8132	86987	0.09%	0.003%
12	4.590	83	87	91	PV 7	9126	158108	0.17%	0.006%
13	4.638	91	95	99	VV 7	10951	178368	0.19%	0.007%
14	4.673	99	101	104	VV 4	5424	76017	0.08%	0.003%
15	4.702	104	106	114	VV 9	5966	143620	0.16%	0.005%
16	4.767	114	117	122	VV 6	7922	152738	0.17%	0.006%
17	4.820	122	126	129	VV 5	6971	106455	0.12%	0.004%
18	4.843	129	130	133	VV 3	4628	37072	0.04%	0.001%
19	4.885	133	137	146	VV 3	13273	362277	0.39%	0.014%
20	4.990	146	155	157	VV 10	7426	162247	0.18%	0.006%
21	5.043	157	164	169	VV 10	24469	550700	0.60%	0.021%
22	5.126	169	178	193	VV 3	1427430	39210234	42.49%	1.487%
23	5.255	193	200	220	VV	1063665	27066576	29.33%	1.027%
24	5.390	220	223	228	VV 6	44380	1035298	1.12%	0.039%
25	5.455	228	234	244	VV 8	52675	2057646	2.23%	0.078%
26	5.526	244	246	250	VV 5	25780	434692	0.47%	0.016%
27	5.614	250	261	277	VV	759445	17780951	19.27%	0.674%
28	5.720	277	279	285	VV 7	31778	710188	0.77%	0.027%
29	5.761	285	286	290	VV 4	14563	219049	0.24%	0.008%
30	5.802	290	293	296	VV 4	18844	293253	0.32%	0.011%
31	5.843	296	300	301	VV 3	29618	414819	0.45%	0.016%
32	5.879	301	306	321	VV 4	101090	2698072	2.92%	0.102%
33	5.990	321	325	331	VV 9	18574	390803	0.42%	0.015%
34	6.032	331	332	343	VV 9	13378	300388	0.33%	0.011%
35	6.120	343	347	348	PV 3	7516	63467	0.07%	0.002%
36	6.137	348	350	353	VV 4	6419	74075	0.08%	0.003%
37	6.184	353	358	362	VV 7	9557	185763	0.20%	0.007%
38	6.255	362	370	372	VV 9	14459	340446	0.37%	0.013%
39	6.284	372	375	381	VV 7	27434	499501	0.54%	0.019%
40	6.332	381	383	385	VV 2	17376	227295	0.25%	0.009%
41	6.384	385	392	399	VV 4	35240	822473	0.89%	0.031%
42	6.449	399	403	406	VV 6	7335	93656	0.10%	0.004%
43	6.484	406	409	410	VV 3	5235	56973	0.06%	0.002%
44	6.496	410	411	417	VV 6	8137	107908	0.12%	0.004%

0261

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.567	417	423	426	VV	8	16520	362789	0.39%	0.014%
46	6.614	426	431	455	VV		1162754	27811454	30.14%	1.055%
47	6.767	455	457	462	VV	6	34624	675497	0.73%	0.026%
48	6.849	462	471	486	VV		1107780	23178669	25.12%	0.879%
49	6.961	486	490	504	VV		53429	2028514	2.20%	0.077%
50	7.073	504	509	522	VV		27511	899396	0.97%	0.034%
51	7.167	522	525	527	VV	4	9574	142901	0.15%	0.005%
52	7.190	527	529	532	VV	4	9380	133723	0.14%	0.005%
53	7.226	532	535	541	VV	6	15189	306466	0.33%	0.012%
54	7.267	541	542	544	VV	2	7874	64352	0.07%	0.002%
55	7.320	544	551	559	PV	2	18411	540993	0.59%	0.021%
56	7.390	559	563	564	VV	4	7774	108114	0.12%	0.004%
57	7.408	564	566	569	VV	4	6874	69594	0.08%	0.003%
58	7.455	572	574	576	PV	3	4035	46537	0.05%	0.002%
59	7.490	576	580	586	VV	8	10242	166441	0.18%	0.006%
60	7.573	586	594	618	VV		885467	19269766	20.88%	0.731%
61	7.749	618	624	632	VV	2	84289	1801249	1.95%	0.068%
62	7.837	632	639	642	VV	7	21181	511481	0.55%	0.019%
63	7.878	642	646	652	VV	8	18306	448527	0.49%	0.017%
64	7.949	652	658	664	VV	10	21831	609517	0.66%	0.023%
65	7.990	664	665	671	VV	5	20928	293617	0.32%	0.011%
66	8.037	671	673	674	VV	2	5314	42359	0.05%	0.002%
67	8.078	674	680	684	VV	9	15079	314817	0.34%	0.012%
68	8.155	684	693	721	VV		971610	26532717	28.75%	1.006%
69	8.373	721	730	748	VV		1328821	26382320	28.59%	1.001%
70	8.508	748	753	761	VV	5	51153	1376684	1.49%	0.052%
71	8.567	761	763	770	VV	7	18061	512347	0.56%	0.019%
72	8.667	770	780	820	VV		936575	24471179	26.52%	0.928%
73	8.914	820	822	835	VV		19007	601955	0.65%	0.023%
74	8.996	835	836	847	VV	10	9247	279501	0.30%	0.011%
75	9.067	847	848	849	VV		7601	65964	0.07%	0.003%
76	9.114	849	856	860	VV	10	9607	244468	0.26%	0.009%
77	9.149	860	862	869	VV	8	8770	155451	0.17%	0.006%
78	9.202	869	871	873	VV	3	4246	27701	0.03%	0.001%
79	9.225	873	875	878	PV	3	5334	64798	0.07%	0.002%
80	9.290	878	886	890	VV	3	8375	231310	0.25%	0.009%
81	9.337	890	894	897	VV	6	7688	98130	0.11%	0.004%
82	9.373	897	900	904	VV	6	8229	129533	0.14%	0.005%
83	9.408	904	906	907	VV	2	6465	66595	0.07%	0.003%
84	9.425	907	909	911	VV	3	8693	85937	0.09%	0.003%
85	9.461	911	915	919	VV	6	11373	239674	0.26%	0.009%
86	9.496	919	921	923	VV	3	6276	54679	0.06%	0.002%
87	9.561	923	932	942	VV	3	20753	602438	0.65%	0.023%
88	9.625	942	943	945	VV	2	6349	46918	0.05%	0.002%
89	9.667	945	950	953	VV	6	14095	183515	0.20%	0.007%
90	9.714	953	958	963	VV	8	8816	167068	0.18%	0.006%
91	9.755	963	965	967	VV	3	3534	29947	0.03%	0.001%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.790	967	971	977	VV	9	14460	179361	0.19%	0.007%
93	9.837	977	979	981	VV	3	9215	92333	0.10%	0.004%
94	9.861	981	983	988	VV	6	13128	215778	0.23%	0.008%
95	9.896	988	989	993	VV	4	5942	79424	0.09%	0.003%
96	9.978	993	1003	1006	PV	9	44385	1173671	1.27%	0.045%
97	10.031	1006	1012	1020	VV		262689	5039018	5.46%	0.191%
98	10.084	1020	1021	1029	VV	8	35827	852010	0.92%	0.032%
99	10.137	1029	1030	1033	VV	3	17681	211409	0.23%	0.008%
100	10.208	1033	1042	1045	VV	3	20021	601268	0.65%	0.023%
101	10.237	1045	1047	1052	VV	6	16284	279977	0.30%	0.011%
102	10.290	1052	1056	1062	VV	9	12136	361153	0.39%	0.014%
103	10.337	1062	1064	1070	VV	7	7355	154160	0.17%	0.006%
104	10.443	1070	1082	1089	VV	7	13626	512660	0.56%	0.019%
105	10.496	1089	1091	1095	VV	5	9780	131829	0.14%	0.005%
106	10.525	1095	1096	1098	VV	2	4684	28850	0.03%	0.001%
107	10.596	1101	1108	1113	VV	10	12804	273878	0.30%	0.010%
108	10.649	1113	1117	1120	VV	6	11426	197255	0.21%	0.007%
109	10.690	1120	1124	1126	VV	5	5461	78493	0.09%	0.003%
110	10.714	1126	1128	1133	VV	6	5417	84869	0.09%	0.003%
111	10.767	1133	1137	1140	VV	6	12859	156441	0.17%	0.006%
112	10.796	1140	1142	1143	VV	2	12151	95604	0.10%	0.004%
113	10.837	1143	1149	1157	VV	2	21166	721162	0.78%	0.027%
114	10.908	1157	1161	1163	VV	5	14625	275783	0.30%	0.010%
115	10.931	1163	1165	1171	VV	6	12369	275251	0.30%	0.010%
116	10.996	1171	1176	1179	VV	6	18984	287387	0.31%	0.011%
117	11.043	1179	1184	1191	VV	3	66197	1239912	1.34%	0.047%
118	11.096	1191	1193	1195	VV	3	11887	146573	0.16%	0.006%
119	11.114	1195	1196	1199	VV	3	11306	117005	0.13%	0.004%
120	11.143	1199	1201	1207	VV	7	20301	378518	0.41%	0.014%
121	11.202	1207	1211	1215	VV	6	29301	477719	0.52%	0.018%
122	11.243	1215	1218	1223	VV	5	16558	331513	0.36%	0.013%
123	11.302	1223	1228	1233	VV	5	54856	1070825	1.16%	0.041%
124	11.349	1233	1236	1239	VV	4	29041	529511	0.57%	0.020%
125	11.378	1239	1241	1244	VV	4	17094	256276	0.28%	0.010%
126	11.425	1244	1249	1253	VV	8	24558	568532	0.62%	0.022%
127	11.514	1253	1264	1277	VV	3	116827	3211439	3.48%	0.122%
128	11.596	1277	1278	1282	VV	4	14380	198686	0.22%	0.008%
129	11.684	1282	1293	1305	VV	4	57955	1647012	1.78%	0.062%
130	11.766	1305	1307	1310	VV	4	9262	102315	0.11%	0.004%
131	11.825	1310	1317	1321	PV	9	16766	340265	0.37%	0.013%
132	11.890	1321	1328	1331	VV	9	17107	439298	0.48%	0.017%
133	11.949	1331	1338	1342	VV		2853383	36014095	39.03%	1.366%
134	11.996	1342	1346	1358	VV		3660284	52924947	57.36%	2.007%
135	12.084	1358	1361	1368	VV	8	76992	1844479	2.00%	0.070%
136	12.137	1368	1370	1375	VV	6	42797	729811	0.79%	0.028%
137	12.190	1375	1379	1386	VV	9	40305	1201433	1.30%	0.046%
138	12.237	1386	1387	1390	VV	3	26625	422054	0.46%	0.016%
139	12.290	1390	1396	1408	VV		2313494	31797312	34.46%	1.206%

0253

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.372	1408	1410	1415	VV	6	53435	1156530	1.25%	0.044%
141	12.425	1415	1419	1424	VV	8	55940	1347090	1.46%	0.051%
142	12.490	1424	1430	1437	VV		132091	2635809	2.86%	0.100%
143	12.566	1437	1443	1446	VV	7	41046	1063452	1.15%	0.040%
144	12.602	1446	1449	1451	VV	4	36026	556208	0.60%	0.021%
145	12.625	1451	1453	1457	VV	5	44838	826042	0.90%	0.031%
146	12.678	1457	1462	1463	VV	4	58962	982311	1.06%	0.037%
147	12.696	1463	1465	1467	VV	3	60417	689969	0.75%	0.026%
148	12.755	1467	1475	1490	VV	2	750332	24302313	26.34%	0.922%
149	12.861	1490	1493	1496	VV	3	153904	2625625	2.85%	0.100%
150	12.896	1496	1499	1504	VV	7	108261	2483957	2.69%	0.094%
151	12.961	1504	1510	1514	VV	9	77633	2352516	2.55%	0.089%
152	13.013	1514	1519	1522	VV	7	94730	2552729	2.77%	0.097%
153	13.084	1522	1531	1549	VV		4709854	69397026	75.21%	2.632%
154	13.202	1549	1551	1558	VV	8	129393	3446269	3.73%	0.131%
155	13.261	1558	1561	1564	VV	3	165104	3239162	3.51%	0.123%
156	13.290	1564	1566	1569	VV	4	127330	2082287	2.26%	0.079%
157	13.343	1569	1575	1579	VV		931448	15973256	17.31%	0.606%
158	13.372	1579	1580	1589	VV	2	409430	10041104	10.88%	0.381%
159	13.437	1589	1591	1593	VV		217600	2985933	3.24%	0.113%
160	13.466	1593	1596	1601	VV	2	277136	5243430	5.68%	0.199%
161	13.519	1601	1605	1607	VV		221421	4150930	4.50%	0.157%
162	13.543	1607	1609	1612	VV	4	153291	2305979	2.50%	0.087%
163	13.566	1612	1613	1615	VV	2	151147	1701539	1.84%	0.065%
164	13.613	1615	1621	1628	VV	2	195535	7611807	8.25%	0.289%
165	13.684	1628	1633	1636	VV		537384	8333860	9.03%	0.316%
166	13.713	1636	1638	1652	VV		534318	15443194	16.74%	0.586%
167	13.813	1652	1655	1659	VV	5	216857	5520045	5.98%	0.209%
168	13.866	1659	1664	1670	VV		442139	10224981	11.08%	0.388%
169	13.931	1670	1675	1679	VV	3	356943	9533465	10.33%	0.362%
170	13.972	1679	1682	1685	VV	3	295975	5336036	5.78%	0.202%
171	14.002	1685	1687	1689	VV		286848	3997641	4.33%	0.152%
172	14.031	1689	1692	1696	VV	2	324104	6337586	6.87%	0.240%
173	14.072	1696	1699	1703	VV	3	331143	7029050	7.62%	0.267%
174	14.113	1703	1706	1712	VV	6	305435	8195293	8.88%	0.311%
175	14.160	1712	1714	1716	VV	3	269467	3826141	4.15%	0.145%
176	14.190	1716	1719	1721	VV	3	294716	4679306	5.07%	0.177%
177	14.219	1721	1724	1727	VV		619753	9187211	9.96%	0.348%
178	14.260	1727	1731	1738	VV		885478	17415492	18.87%	0.661%
179	14.325	1738	1742	1748	VV		3242905	41893738	45.40%	1.589%
180	14.384	1748	1752	1757	VV		5740184	68231178	73.95%	2.588%
181	14.425	1757	1759	1764	VV	4	458469	9765474	10.58%	0.370%
182	14.466	1764	1766	1769	VV	4	351991	5164507	5.60%	0.196%
183	14.502	1769	1772	1773	VV	3	364403	5571640	6.04%	0.211%
184	14.519	1773	1775	1778	VV	3	396360	5484963	5.94%	0.208%
185	14.566	1778	1783	1787	VV	6	325802	9782277	10.60%	0.371%
186	14.619	1787	1792	1797	VV		1677557	22852212	24.77%	0.867%

0264

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.660	1797	1799	1801	VV 3	357192	5714965	6.19%	0.217%
188	14.696	1801	1805	1809	VV	499463	9336754	10.12%	0.354%
189	14.749	1809	1814	1817	VV 7	310397	8446078	9.15%	0.320%
190	14.778	1817	1819	1823	VV 5	293371	6098496	6.61%	0.231%
191	14.819	1823	1826	1833	VV 3	370372	9570167	10.37%	0.363%
192	14.878	1833	1836	1841	VV 5	306393	8187694	8.87%	0.311%
193	14.913	1841	1842	1845	VV 3	298772	4200880	4.55%	0.159%
194	14.943	1845	1847	1849	VV 2	287683	4338280	4.70%	0.165%
195	14.972	1849	1852	1856	VV 6	290087	6665209	7.22%	0.253%
196	15.013	1856	1859	1860	VV 3	281445	3991907	4.33%	0.151%
197	15.049	1860	1865	1871	VV	564507	13188318	14.29%	0.500%
198	15.125	1871	1878	1887	VV 2	376672	16305003	17.67%	0.618%
199	15.202	1887	1891	1893	VV 5	272662	5587036	6.05%	0.212%
200	15.231	1893	1896	1899	VV 4	303959	5396610	5.85%	0.205%
201	15.272	1899	1903	1907	VV 7	288362	8078538	8.76%	0.306%
202	15.313	1907	1910	1916	VV 7	320898	8791039	9.53%	0.333%
203	15.360	1916	1918	1922	VV 5	268871	5767280	6.25%	0.219%
204	15.402	1922	1925	1928	VV 4	318398	5688267	6.16%	0.216%
205	15.443	1928	1932	1936	VV 6	306798	8647699	9.37%	0.328%
206	15.472	1936	1937	1939	VV 2	275292	2791589	3.03%	0.106%
207	15.525	1939	1946	1949	VV 2	426168	10799291	11.70%	0.410%
208	15.554	1949	1951	1958	VV 8	359372	10660405	11.55%	0.404%
209	15.607	1958	1960	1963	VV 4	286284	4467840	4.84%	0.169%
210	15.660	1963	1969	1970	VV 4	357725	8594943	9.31%	0.326%
211	15.678	1970	1972	1978	VV 2	348382	7696409	8.34%	0.292%
212	15.737	1978	1982	1987	VV 7	335993	10581714	11.47%	0.401%
213	15.831	1987	1998	2001	VV 3	338204	14451957	15.66%	0.548%
214	15.896	2001	2009	2018	VV	6476321	84314894	91.38%	3.198%
215	15.966	2018	2021	2025	VV 6	365533	9176696	9.95%	0.348%
216	16.007	2025	2028	2031	VV 5	368961	7524467	8.15%	0.285%
217	16.043	2031	2034	2037	VV 5	364289	7263561	7.87%	0.275%
218	16.072	2037	2039	2041	VV 3	363294	5438098	5.89%	0.206%
219	16.090	2041	2042	2047	VV 5	347384	6389947	6.93%	0.242%
220	16.154	2047	2053	2056	VV 8	365804	11377372	12.33%	0.431%
221	16.196	2056	2060	2063	VV 6	373898	9179903	9.95%	0.348%
222	16.231	2063	2066	2069	VV 5	394862	7094217	7.69%	0.269%
223	16.260	2069	2071	2075	VV 3	485885	9567578	10.37%	0.363%
224	16.296	2075	2077	2080	VV 4	369185	6337056	6.87%	0.240%
225	16.331	2080	2083	2088	VV 7	394018	9784682	10.60%	0.371%
226	16.378	2088	2091	2093	VV 4	423382	7815783	8.47%	0.296%
227	16.396	2093	2094	2099	VV 5	409100	7680980	8.32%	0.291%
228	16.437	2099	2101	2103	VV 3	392542	5673776	6.15%	0.215%
229	16.501	2103	2112	2116	VV 3	468819	19640713	21.29%	0.745%
230	16.566	2116	2123	2124	VV 7	466474	12930573	14.01%	0.490%
231	16.601	2124	2129	2132	VV 3	553072	13748594	14.90%	0.521%
232	16.625	2132	2133	2137	VV 4	453310	7352638	7.97%	0.279%
233	16.672	2137	2141	2144	VV 6	434423	9897213	10.73%	0.375%
234	16.731	2144	2151	2154	VV 9	443810	16085014	17.43%	0.610%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.760	2154	2156	2158	VV	3	423864	5584957	6.05%	0.212%
236	16.796	2158	2162	2168	VV	9	447248	15131704	16.40%	0.574%
237	16.866	2168	2174	2176	VV	7	440606	11165254	12.10%	0.423%
238	16.925	2176	2184	2187	VV	3	586045	19473709	21.10%	0.739%
239	16.954	2187	2189	2191	VV	3	489767	7055289	7.65%	0.268%
240	16.990	2191	2195	2200	VV	8	475641	13319673	14.44%	0.505%
241	17.043	2200	2204	2211	VV	10	520105	19395738	21.02%	0.736%
242	17.101	2211	2214	2216	VV	4	493892	8204771	8.89%	0.311%
243	17.154	2216	2223	2234	VV		4208508	69471730	75.29%	2.635%
244	17.248	2234	2239	2242	VV	3	593054	15145675	16.41%	0.574%
245	17.272	2242	2243	2247	VV	4	467660	7525579	8.16%	0.285%
246	17.325	2247	2252	2255	VV	7	490423	13486043	14.62%	0.511%
247	17.354	2255	2257	2261	VV	5	479703	10386481	11.26%	0.394%
248	17.396	2261	2264	2266	VV	4	472151	7314879	7.93%	0.277%
249	17.419	2266	2268	2271	VV	4	482833	8279517	8.97%	0.314%
250	17.448	2271	2273	2281	VV	9	479083	17092661	18.52%	0.648%
251	17.519	2281	2285	2290	VV	8	482873	14501345	15.72%	0.550%
252	17.590	2290	2297	2303	VV	3	627828	21383395	23.17%	0.811%
253	17.637	2303	2305	2307	VV	3	472386	7550475	8.18%	0.286%
254	17.672	2307	2311	2315	VV	7	498333	13653178	14.80%	0.518%
255	17.719	2315	2319	2322	VV	6	499750	11000943	11.92%	0.417%
256	17.748	2322	2324	2328	VV	5	485985	10419565	11.29%	0.395%
257	17.813	2328	2335	2345	VV	4	530106	28365689	30.74%	1.076%
258	17.878	2345	2346	2350	VV	4	457490	9144161	9.91%	0.347%
259	17.960	2350	2360	2363	VV	2	575577	21849321	23.68%	0.829%
260	17.995	2363	2366	2368	VV	3	483393	7587679	8.22%	0.288%
261	18.019	2368	2370	2372	VV	3	489993	7024455	7.61%	0.266%
262	18.043	2372	2374	2381	VV	7	486597	15174641	16.45%	0.576%
263	18.107	2381	2385	2388	VV	6	469736	10627215	11.52%	0.403%
264	18.148	2388	2392	2395	VV		658869	15182771	16.45%	0.576%
265	18.178	2395	2397	2399	VV	3	458663	5557918	6.02%	0.211%
266	18.201	2399	2401	2411	VV	10	453033	18935212	20.52%	0.718%
267	18.284	2411	2415	2421	VV	8	455912	14483425	15.70%	0.549%
268	18.343	2421	2425	2426	VV	4	443205	7460534	8.09%	0.283%
269	18.378	2426	2431	2435	VV		562490	15720241	17.04%	0.596%
270	18.425	2435	2439	2442	VV	6	491534	10237022	11.09%	0.388%
271	18.448	2442	2443	2451	VV	7	468092	13702900	14.85%	0.520%
272	18.513	2451	2454	2457	VV	5	439343	8862194	9.60%	0.336%
273	18.543	2457	2459	2463	VV	5	426175	9106891	9.87%	0.345%
274	18.572	2463	2464	2466	VV	2	403255	4012646	4.35%	0.152%
275	18.601	2466	2469	2473	VV	6	405924	10690712	11.59%	0.405%
276	18.637	2473	2475	2480	VV	6	397345	8453954	9.16%	0.321%
277	18.672	2480	2481	2486	VV	5	386076	8008583	8.68%	0.304%
278	18.737	2486	2492	2499	VV	5	416074	18040100	19.55%	0.684%
279	18.790	2499	2501	2503	VV	3	385501	6044088	6.55%	0.229%
280	18.860	2503	2513	2528	VV	2	4027254	92272856	100.00%	3.500%
281	18.984	2528	2534	2545	VV		2341530	53224371	57.68%	2.019%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.060	2545	2547	2553	VV	7	355077	9807274	10.63%	0.372%
283	19.113	2553	2556	2558	VV	4	346727	6463320	7.00%	0.245%
284	19.142	2558	2561	2569	VV	9	337197	11748770	12.73%	0.446%
285	19.231	2569	2576	2582	VV	9	323568	14606875	15.83%	0.554%
286	19.272	2582	2583	2586	VV	3	329019	4039741	4.38%	0.153%
287	19.295	2586	2587	2591	VV	4	304360	5499759	5.96%	0.209%
288	19.354	2591	2597	2604	VV	4	314587	14584357	15.81%	0.553%
289	19.431	2604	2610	2615	VV	5	358128	12070495	13.08%	0.458%
290	19.466	2615	2616	2627	VV	5	292265	11864253	12.86%	0.450%
291	19.548	2627	2630	2632	VV	4	269450	4445723	4.82%	0.169%
292	19.572	2632	2634	2635	VV	2	268808	2689900	2.92%	0.102%
293	19.625	2635	2643	2648	VV	9	351660	14151903	15.34%	0.537%
294	19.701	2648	2656	2658	VV	9	352638	12216828	13.24%	0.463%
295	19.731	2658	2661	2663	VV	4	371964	6338602	6.87%	0.240%
296	19.754	2663	2665	2670	VV	6	391715	8987929	9.74%	0.341%
297	19.825	2670	2677	2697	VV	6	394625	31157396	33.77%	1.182%
298	19.954	2697	2699	2707	VV	9	283901	8712212	9.44%	0.330%
299	20.007	2707	2708	2710	VV	2	260994	2923941	3.17%	0.111%
300	20.031	2710	2712	2716	VV	5	257597	5539984	6.00%	0.210%
301	20.084	2716	2721	2727	VV	9	265336	9835684	10.66%	0.373%
302	20.142	2727	2731	2733	VV	5	255578	5392442	5.84%	0.205%
303	20.201	2733	2741	2757	VV		382489	22150553	24.01%	0.840%
304	20.319	2757	2761	2764	VV	6	228735	6189019	6.71%	0.235%
305	20.348	2764	2766	2768	VV	3	229367	2457666	2.66%	0.093%
306	20.419	2768	2778	2786	VV	3	298533	16148781	17.50%	0.612%
307	20.489	2786	2790	2791	VV	4	217696	4119602	4.46%	0.156%
308	20.513	2791	2794	2798	VV	6	223783	5343414	5.79%	0.203%
309	20.548	2798	2800	2810	VV	6	229629	8965344	9.72%	0.340%
310	20.631	2810	2814	2817	VV	6	206331	4607828	4.99%	0.175%
311	20.660	2817	2819	2821	VV	3	203567	2836591	3.07%	0.108%
312	20.678	2821	2822	2826	VV	4	203779	3113864	3.37%	0.118%
313	20.713	2826	2828	2829	VV	2	193993	2120383	2.30%	0.080%
314	20.731	2829	2831	2837	VV	7	203428	5755810	6.24%	0.218%
315	20.784	2837	2840	2842	VV	4	194449	3106963	3.37%	0.118%
316	20.819	2842	2846	2850	VV	7	198959	5776398	6.26%	0.219%
317	20.889	2850	2858	2868	VV	7	213411	11751743	12.74%	0.446%
318	20.960	2868	2870	2872	VV	3	185852	2856883	3.10%	0.108%
319	20.989	2872	2875	2876	VV	3	189472	2535820	2.75%	0.096%
320	21.019	2876	2880	2889	VV	10	225265	8898403	9.64%	0.337%
321	21.078	2889	2890	2894	VV	4	178221	3214042	3.48%	0.122%
322	21.119	2894	2897	2899	VV	4	171388	2873409	3.11%	0.109%
323	21.142	2899	2901	2903	VV	3	166879	2183368	2.37%	0.083%
324	21.195	2903	2910	2925	VV	3	215927	14606246	15.83%	0.554%
325	21.319	2925	2931	2939	VV	3	190217	9146132	9.91%	0.347%
326	21.384	2939	2942	2945	VV	5	188705	3762753	4.08%	0.143%
327	21.413	2945	2947	2949	VV	3	186306	2673265	2.90%	0.101%
328	21.442	2949	2952	2955	VV	4	201279	3589892	3.89%	0.136%
329	21.472	2955	2957	2959	VV	3	206988	3262334	3.54%	0.124%

0257

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.495	2959	2961	2970	VV	10	194654	7063570	7.66%	0.268%
331	21.578	2970	2975	2980	VV	9	184360	5982079	6.48%	0.227%
332	21.654	2980	2988	2999	VV	7	192599	11545384	12.51%	0.438%
333	21.731	2999	3001	3003	VV	3	151297	1916496	2.08%	0.073%
334	21.754	3003	3005	3008	VV	4	148359	2699958	2.93%	0.102%
335	21.801	3008	3013	3015	VV	6	148283	3224164	3.49%	0.122%
336	21.831	3015	3018	3023	VV	7	152403	4235735	4.59%	0.161%
337	21.866	3023	3024	3026	VV	2	143672	1567183	1.70%	0.059%
338	21.889	3026	3028	3032	VV	5	148167	2972199	3.22%	0.113%
339	21.936	3032	3036	3040	VV	7	146034	4029691	4.37%	0.153%
340	22.007	3040	3048	3058	VV	7	226406	10394311	11.26%	0.394%
341	22.072	3058	3059	3061	VV	2	131307	1619030	1.75%	0.061%
342	22.113	3061	3066	3068	VV	6	130388	2905111	3.15%	0.110%
343	22.131	3068	3069	3074	VV	5	136314	2574682	2.79%	0.098%
344	22.201	3074	3081	3086	VV	5	128961	5504148	5.97%	0.209%
345	22.248	3086	3089	3091	VV	4	136156	2038438	2.21%	0.077%
346	22.266	3091	3092	3095	VV	3	139732	1978399	2.14%	0.075%
347	22.295	3095	3097	3100	VV	4	131701	2270150	2.46%	0.086%
348	22.325	3100	3102	3105	VV	4	126473	2000124	2.17%	0.076%
349	22.348	3105	3106	3111	VV	5	129040	2919634	3.16%	0.111%
350	22.389	3111	3113	3115	VV	3	130744	1519345	1.65%	0.058%
351	22.413	3115	3117	3126	VV	10	131829	4769140	5.17%	0.181%
352	22.472	3126	3127	3129	VV	2	116480	1274455	1.38%	0.048%
353	22.513	3129	3134	3139	VV	8	120468	4032937	4.37%	0.153%
354	22.566	3139	3143	3146	VV	6	123313	2864945	3.10%	0.109%
355	22.595	3146	3148	3155	VV	8	119810	3379080	3.66%	0.128%
356	22.642	3155	3156	3166	VV	10	110236	3831170	4.15%	0.145%
357	22.713	3166	3168	3172	VV	5	88167	1765652	1.91%	0.067%
358	22.748	3172	3174	3176	VV	3	88813	1126680	1.22%	0.043%
359	22.766	3176	3177	3185	VV	8	91824	2906864	3.15%	0.110%
360	22.819	3185	3186	3191	VV	5	88776	1641194	1.78%	0.062%
361	22.866	3191	3194	3197	VV	5	94821	2073273	2.25%	0.079%
362	22.901	3197	3200	3209	VV	5	101350	3796403	4.11%	0.144%
363	22.966	3209	3211	3214	VV	4	94318	1569089	1.70%	0.060%
364	22.995	3214	3216	3221	VV	6	93100	2096386	2.27%	0.080%
365	23.036	3221	3223	3224	VV	2	96150	1179224	1.28%	0.045%
366	23.054	3224	3226	3235	VV	10	90359	3040700	3.30%	0.115%
367	23.130	3235	3239	3242	VV	6	79844	1903008	2.06%	0.072%
368	23.172	3242	3246	3251	VV	8	82944	2192152	2.38%	0.083%
369	23.230	3251	3256	3257	VV	5	78595	1543109	1.67%	0.059%
370	23.254	3257	3260	3263	VV	5	77938	1599249	1.73%	0.061%
371	23.283	3263	3265	3270	VV	6	76565	1555987	1.69%	0.059%
372	23.325	3270	3272	3273	VV	2	71696	850592	0.92%	0.032%
373	23.377	3273	3281	3287	VV	2	80420	3629552	3.93%	0.138%
374	23.425	3287	3289	3292	VV	4	78369	1291288	1.40%	0.049%
375	23.460	3292	3295	3298	VV	5	79574	1350998	1.46%	0.051%
376	23.483	3298	3299	3300	VV		63999	591590	0.64%	0.022%

8268

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.501	3300	3302	3307	VV	6	67322	1367234	1.48%	0.052%
378	23.554	3307	3311	3320	VV	6	61111	2195981	2.38%	0.083%
379	23.613	3320	3321	3323	VV	2	51887	533840	0.58%	0.020%
380	23.642	3323	3326	3329	VV	4	51434	972788	1.05%	0.037%
381	23.689	3329	3334	3336	VV	6	45694	918989	1.00%	0.035%
382	23.707	3336	3337	3340	VV	3	46050	623158	0.68%	0.024%
383	23.772	3340	3348	3351	VV	10	56278	1639559	1.78%	0.062%
384	23.807	3351	3354	3357	VV	5	65169	1428734	1.55%	0.054%
385	23.836	3357	3359	3362	VV	4	61246	951094	1.03%	0.036%
386	23.872	3362	3365	3368	VV	5	57189	872377	0.95%	0.033%
387	23.895	3368	3369	3374	VV	5	38596	772359	0.84%	0.029%
388	23.942	3374	3377	3381	VV	6	46304	987628	1.07%	0.037%
389	24.007	3381	3388	3394	VV	10	70512	2627705	2.85%	0.100%
390	24.048	3394	3395	3401	VV	6	51990	990899	1.07%	0.038%
391	24.095	3401	3403	3405	VV	3	38934	530162	0.57%	0.020%
392	24.142	3405	3411	3419	VV	3	44994	1655466	1.79%	0.063%
393	24.201	3419	3421	3423	VV	3	30598	355573	0.39%	0.013%
394	24.224	3423	3425	3435	VV	3	32793	1085800	1.18%	0.041%
395	24.295	3435	3437	3440	VV	4	33281	510399	0.55%	0.019%
396	24.330	3440	3443	3448	VV	7	26893	556585	0.60%	0.021%
397	24.401	3448	3455	3462	VV	7	30552	1197636	1.30%	0.045%
398	24.466	3462	3466	3469	VV	5	29585	501882	0.54%	0.019%
399	24.501	3469	3472	3477	VV	7	22690	397597	0.43%	0.015%
400	24.554	3477	3481	3488	VV	10	21839	492354	0.53%	0.019%
401	24.642	3488	3496	3497	VV	8	20716	418654	0.45%	0.016%
402	24.754	3497	3515	3529	VV	8	120382	6237889	6.76%	0.237%
403	24.872	3529	3535	3538	VV	8	12150	166769	0.18%	0.006%
404	24.942	3538	3547	3549	PV	10	5138	86339	0.09%	0.003%

Sum of corrected areas: 2636707289

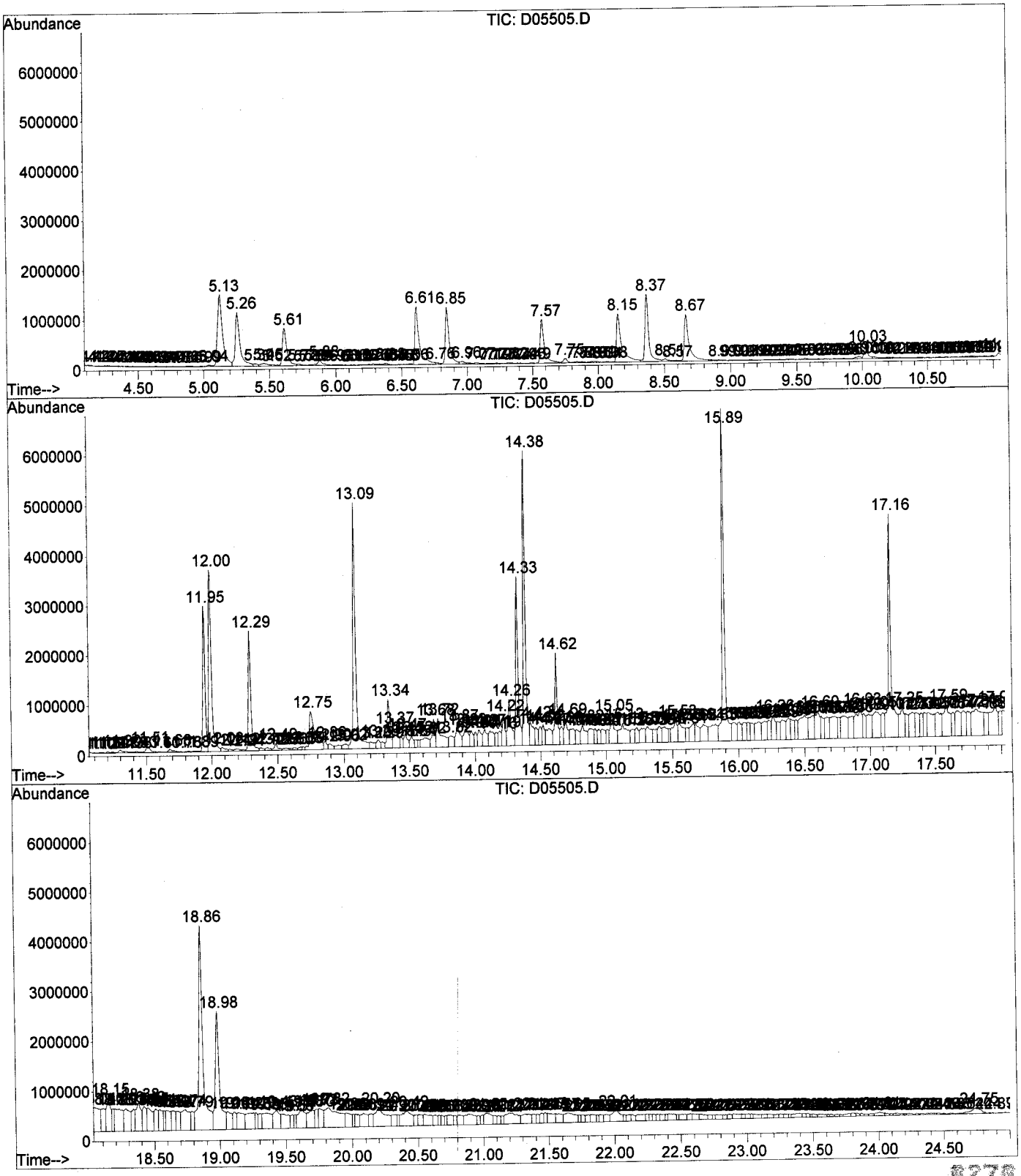
LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

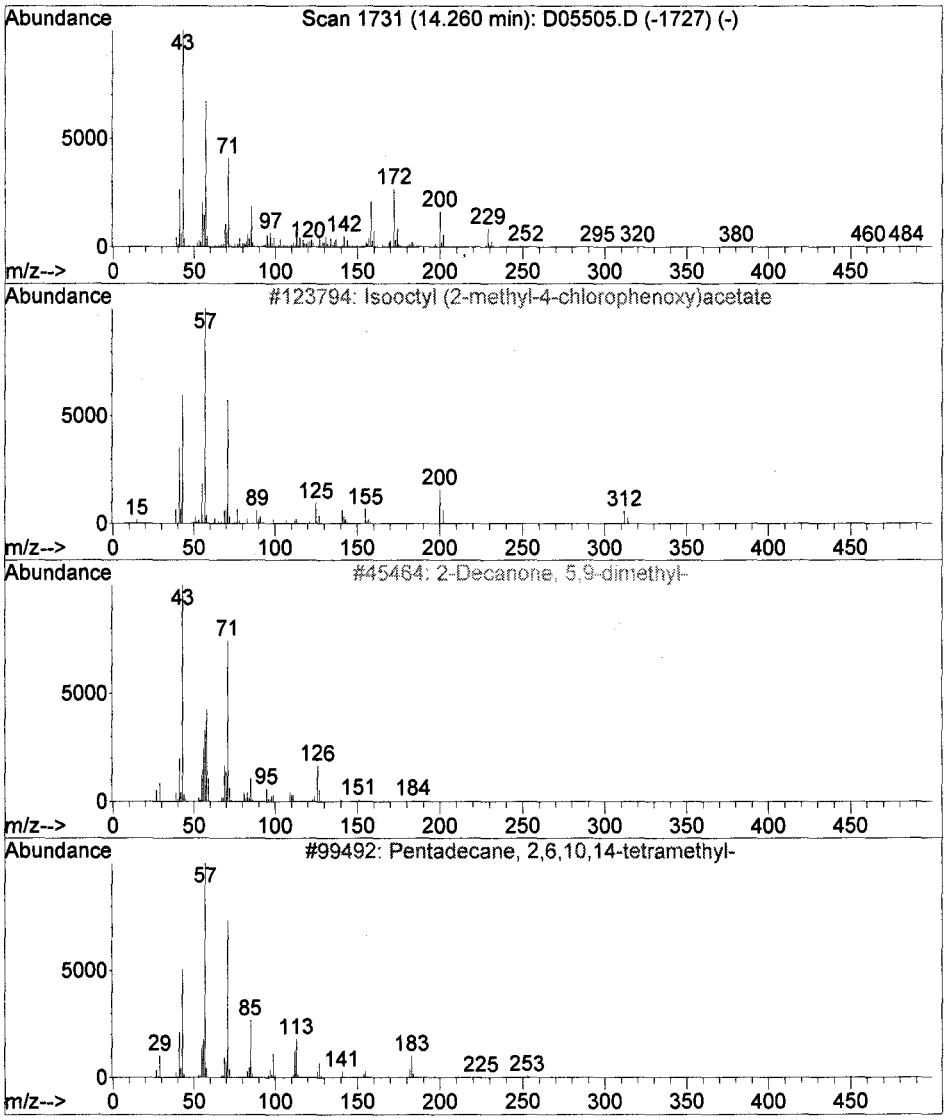
****

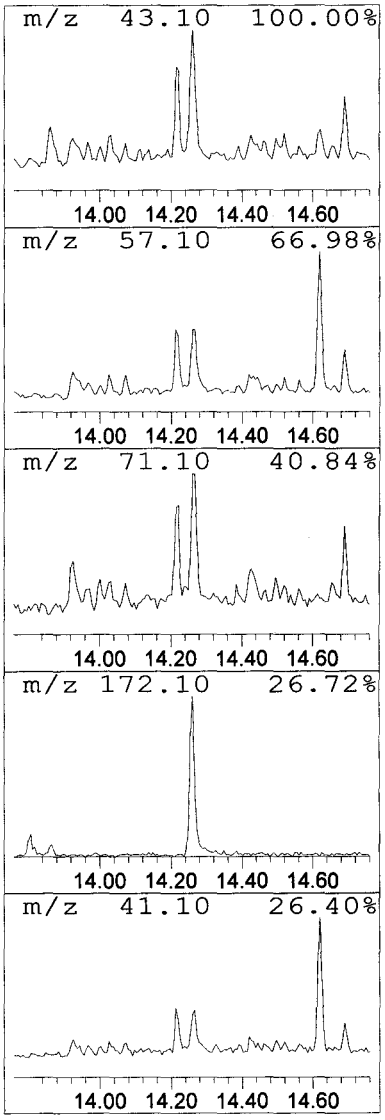
Peak Number 1 Isooctyl (2-methyl-4-chloro... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	8.31 ug/L	17415500	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isooctyl (2-methyl-4-chloropheno...	312	C17H25ClO3	026544-20-7	25
2	2-Decanone, 5,9-dimethyl-	184	C12H24O	033933-82-3	22
3	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	16
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	16
5	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	16





0271

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

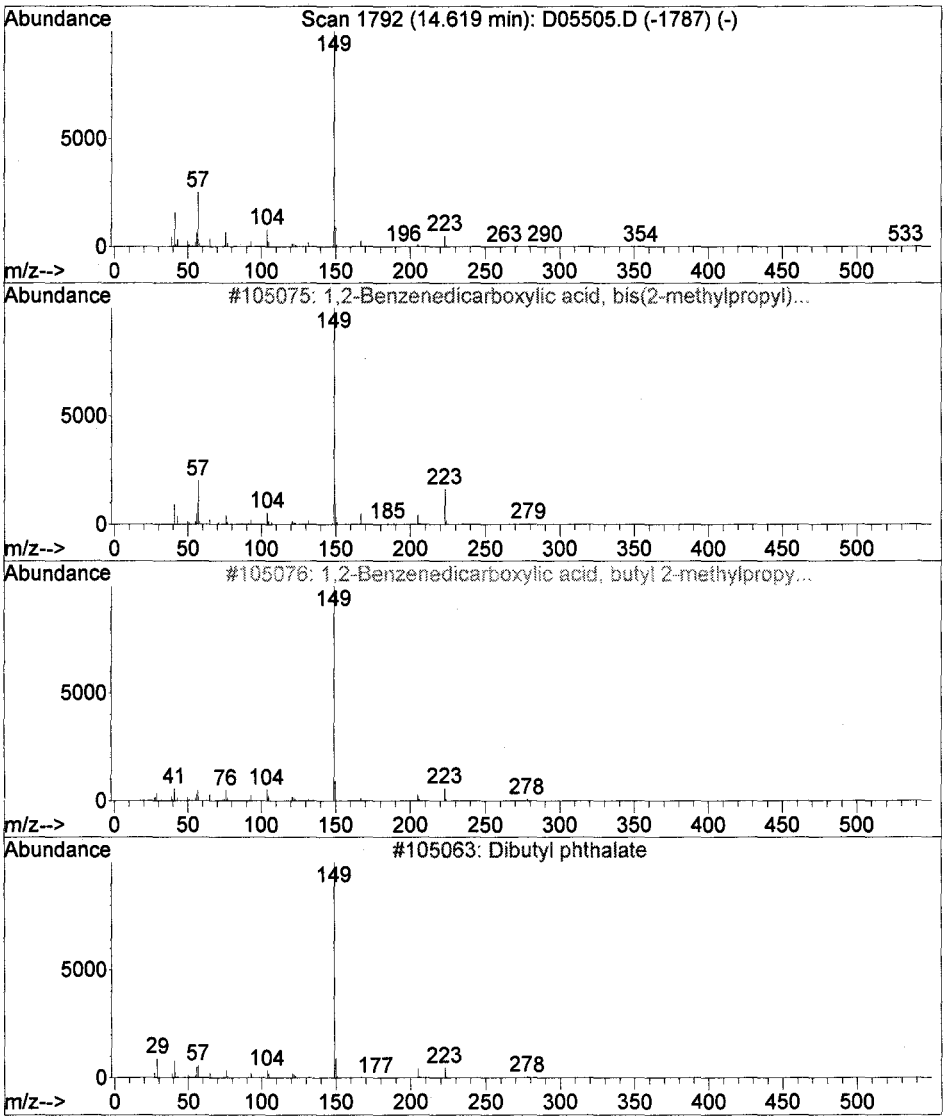
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

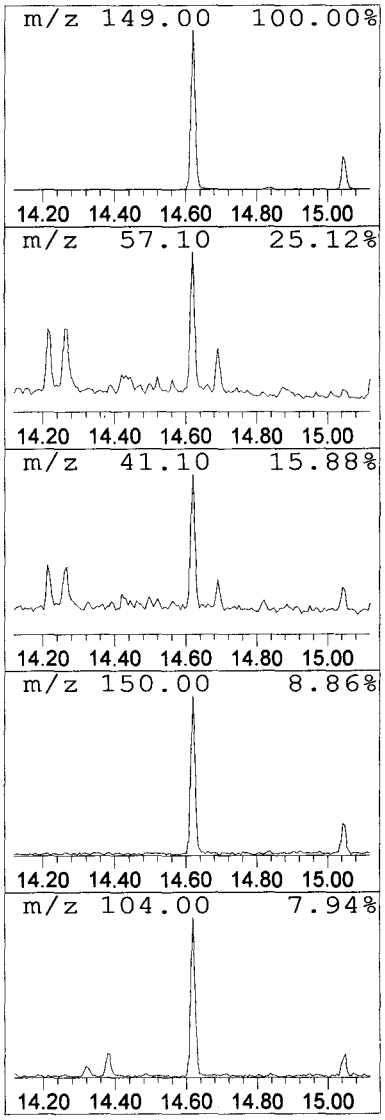
****

Peak Number 2 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	10.91 ug/L	22852200	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
2	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
3	Dibutyl phthalate	278	C16H22O4	000084-74-2	72
4	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	64
5	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	56





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

K 12/15/11

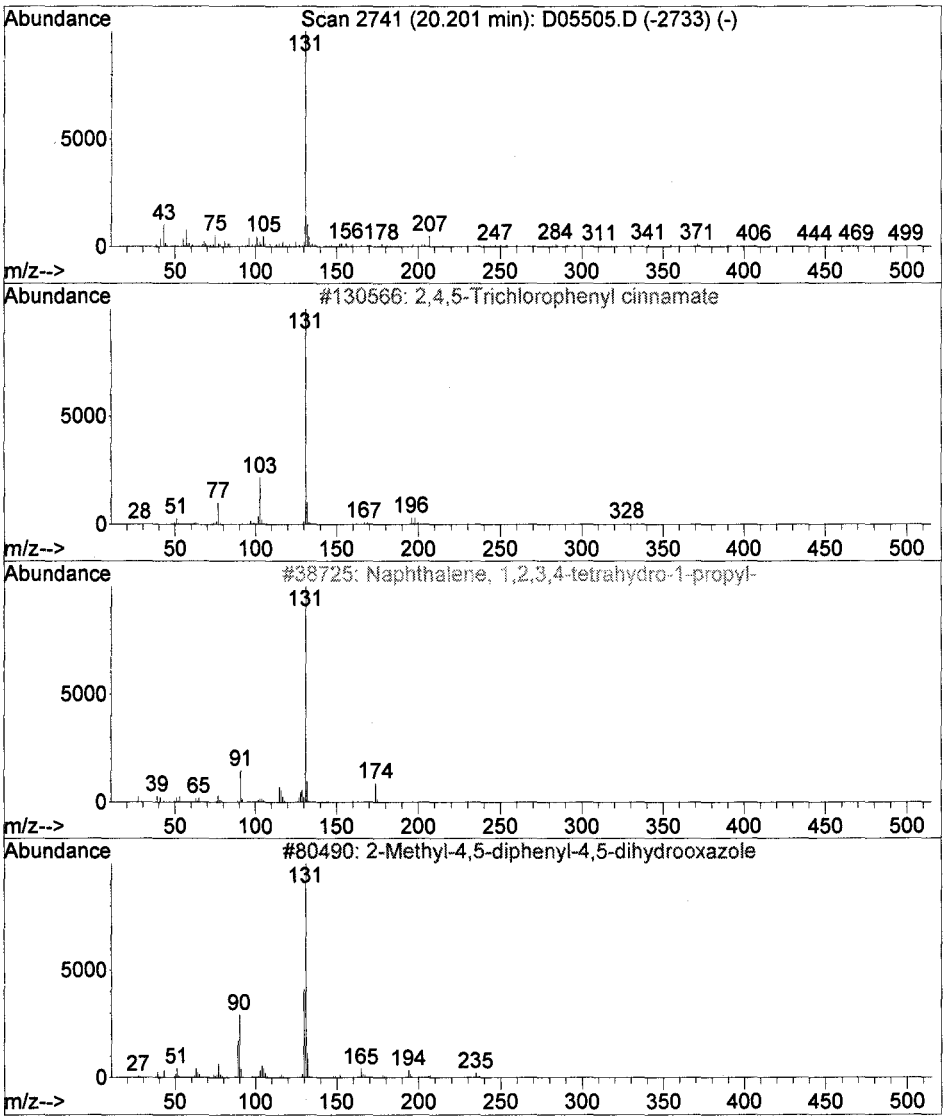
****

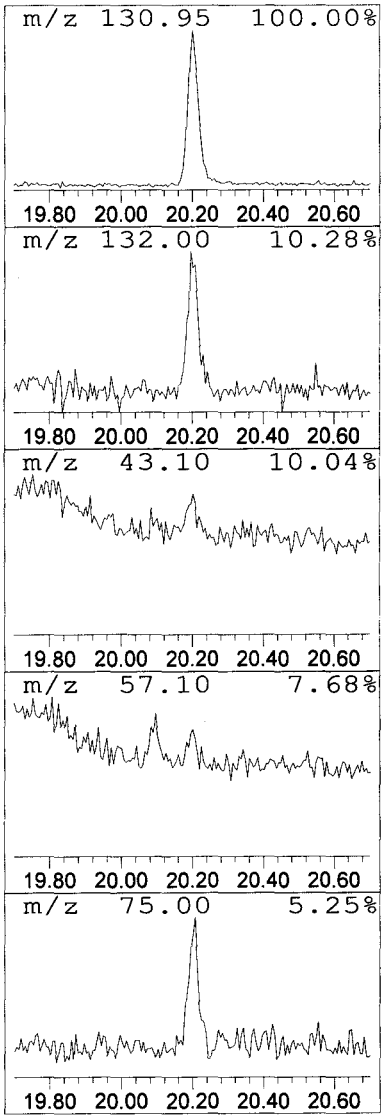
Peak Number 3 2,4,5-Trichlorophenyl cinna... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	8.32 ug/L	22150600	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,5-Trichlorophenyl cinnamate	326	C15H9Cl3O2	1000242-39-6	64
2	Naphthalene, 1,2,3,4-tetrahydro-...	174	C13H18	066324-83-2	50
3	2-Methyl-4,5-diphenyl-4,5-dihydr...	237	C16H15NO	133649-09-9	39
4	3-Trimethylsilyloxy-5-nonyne	212	C12H24OSi	1000245-72-4	39
5	D-Galactose, 2-amino-2-deoxy-3,4...	467	C18H45NO5Si4	056248-47-6	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

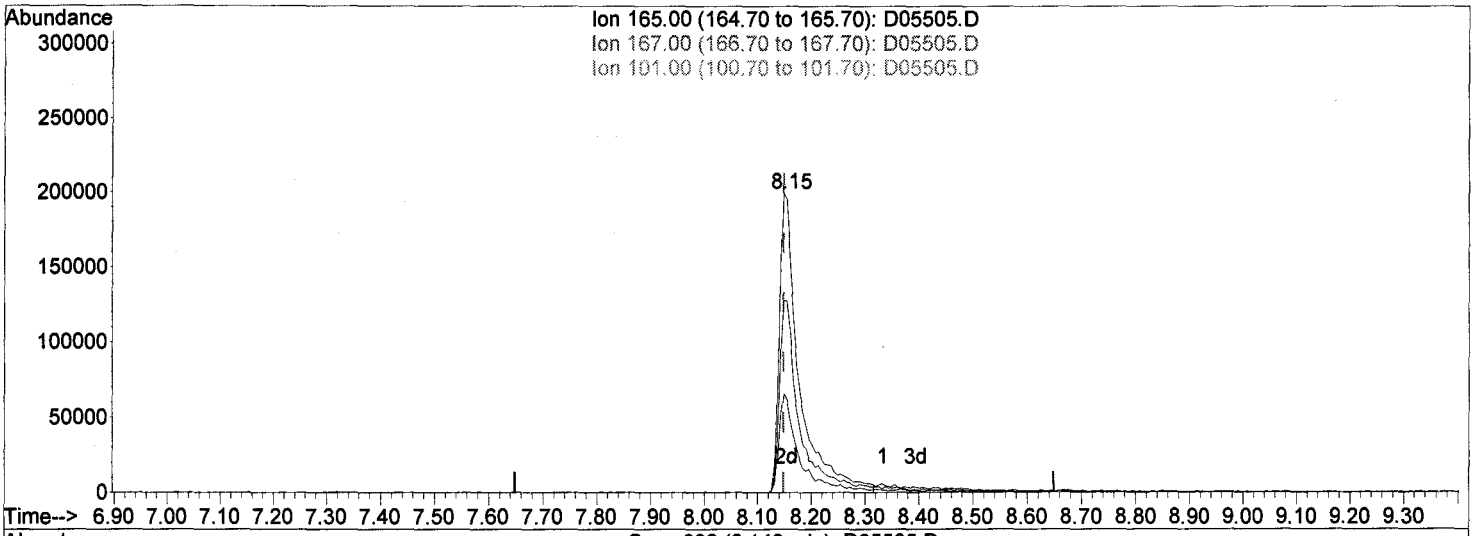
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isooctyl (2-methy...	14.26	8.3	ug/L	17415500	4	14.33	41893700	20.0
1,2-Benzenedicarb...	14.62	10.9	ug/L	22852200	4	14.33	41893700	20.0
2,4,5-Trichloroph...	20.20	8.3	ug/L	22150600	6	18.99	53224400	20.0

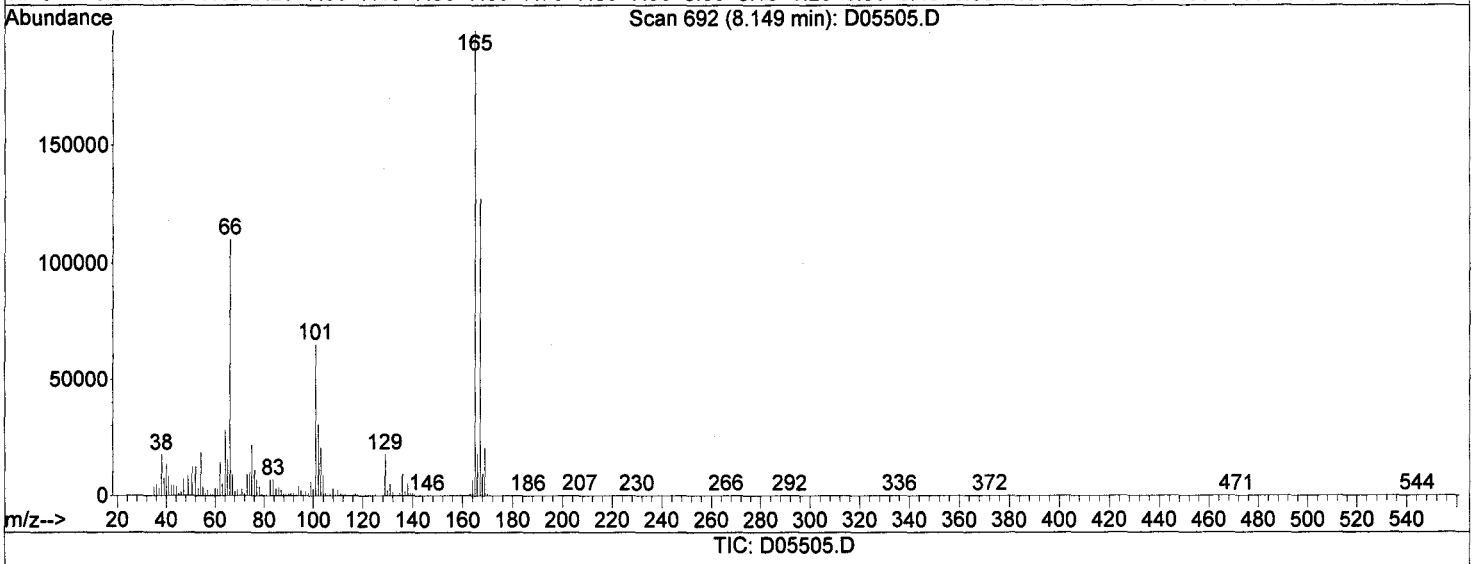
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05505.D
Acq On : 12/15/11 13:08 Operator: SV
Sample : F4XQ2 Inst : D-5973
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 10:45:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11





TIC: D05505.D

(24) 2,4-Dichlorophenol-d3 (S)

8.149min (-0.000) 34.8507ug/L m

response 5160026

Ion	Exp%	Act%
165.00	100	100
167.00	61.40	1.14#
101.00	36.10	0.68#
0.00	0.00	0.00

0275

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04

Sample wt/vol: 60.40 (g/mL) G Lab File ID: D05506

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

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	160	U
108-95-2	Phenol	160	U
111-44-4	Bis(2-chloroethyl)ether	160	U
95-57-8	2-Chlorophenol	160	U
95-48-7	2-Methylphenol	160	U
108-60-1	2,2'-Oxybis(1-chloropropane)	160	U
98-86-2	Acetophenone	160	U
106-44-5	4-Methylphenol	160	U
621-64-7	N-Nitroso-di-n-propylamine	160	U
67-72-1	Hexachloroethane	160	U
98-95-3	Nitrobenzene	160	U
78-59-1	Isophorone	160	U
88-75-5	2-Nitrophenol	160	U
105-67-9	2,4-Dimethylphenol	160	U
111-91-1	Bis(2-chloroethoxy)methane	160	U
120-83-2	2,4-Dichlorophenol	160	U
91-20-3	Naphthalene	160	U
106-47-8	4-Chloroaniline	160	U
87-68-3	Hexachlorobutadiene	160	U
105-60-2	Caprolactam	160	U
59-50-7	4-Chloro-3-methylphenol	160	U
91-57-6	2-Methylnaphthalene	160	U
77-47-4	Hexachlorocyclopentadiene	160	U
88-06-2	2,4,6-Trichlorophenol	160	U
95-95-4	2,4,5-Trichlorophenol	160	U
92-52-4	1,1'-Biphenyl	160	U
91-58-7	2-Chloronaphthalene	160	U
88-74-4	2-Nitroaniline	310	U
131-11-3	Dimethylphthalate	160	U
606-20-2	2,6-Dinitrotoluene	160	U
208-96-8	Acenaphthylene	160	U
99-09-2	3-Nitroaniline	310	U
83-32-9	Acenaphthene	160	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04

Sample wt/vol: 60.40 (g/mL) G Lab File ID: D05506

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

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	310	U
100-02-7	4-Nitrophenol	310	U
132-64-9	Dibenzofuran	160	U
121-14-2	2,4-Dinitrotoluene	160	U
84-66-2	Diethylphthalate	160	U
86-73-7	Fluorene	160	U
7005-72-3	4-Chlorophenyl-phenylether	160	U
100-01-6	4-Nitroaniline	310	U
534-52-1	4,6-Dinitro-2-methylphenol	310	U
86-30-6	N-Nitrosodiphenylamine 1	160	U
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U
101-55-3	4-Bromophenyl-phenylether	160	U
118-74-1	Hexachlorobenzene	160	U
1912-24-9	Atrazine	160	U
87-86-5	Pentachlorophenol	310	U
85-01-8	Phenanthrene	160	U
120-12-7	Anthracene	160	U
86-74-8	Carbazole	160	U
84-74-2	Di-n-butylphthalate	160	U
206-44-0	Fluoranthene	160	U
129-00-0	Pyrene	160	U
85-68-7	Butylbenzylphthalate	160	U
91-94-1	3,3'-Dichlorobenzidine	160	U
56-55-3	Benzo(a)anthracene	160	U
218-01-9	Chrysene	160	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	160	U
205-99-2	Benzo(b)fluoranthene	160	U
207-08-9	Benzo(k)fluoranthene	160	U
50-32-8	Benzo(a)pyrene	160	U
193-39-5	Indeno(1,2,3-cd)pyrene	160	U
53-70-3	Dibenzo(a,h)anthracene	160	U
191-24-2	Benzo(g,h,i)perylene	160	U
58-90-2	2,3,4,6-Tetrachlorophenol	160	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04

Sample wt/vol: 60.40 (g/mL) G Lab File ID: D05506

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

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.26	310	J
02	000084-64-0	1,2-Benzenedicarboxylic acid,	14.62	390	NJ
03		Unknown-02	20.21	350	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05506.D
Acq On : 12/15/11 13:38
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 19 10:45:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

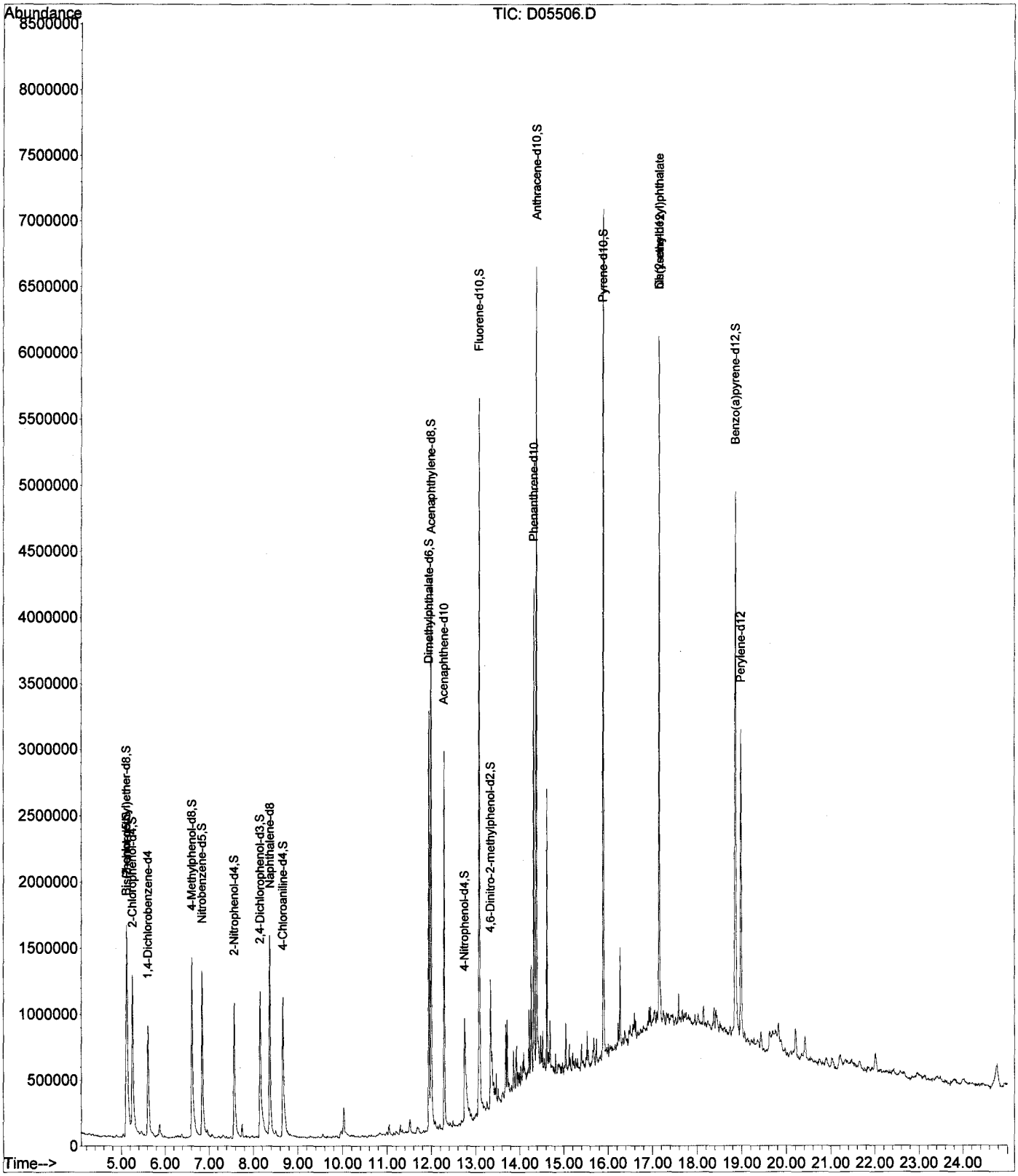
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2818722	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	13277901	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	8419645	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.33	188	14028832	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	14079738	20.0000	ug/L	0.00
81) Perylene-d12	18.99	264	14012202	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.13	99	14401347	34.9716	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 87.43%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	5394093	31.9941	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 79.99%			
7) 2-Chlorophenol-d4	5.26	132	6939530	35.5746	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 88.94%			
12) 4-Methylphenol-d8	6.62	113	6502148	36.5717	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 91.43%			
17) Nitrobenzene-d5	6.85	128	3462713	34.9631	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 87.41%			
20) 2-Nitrophenol-d4	7.57	143	3971035	42.0966	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 105.24%			
24) 2,4-Dichlorophenol-d3	8.16	165	5969487	34.9355	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 87.34%			
27) 4-Chloroaniline-d4	8.67	131	7708836	40.4941	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 101.24%			
41) Acenaphthylene-d8	12.00	160	26600522	34.0727	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 85.18%			
43) Dimethylphthalate-d6	11.95	166	18649189	35.3573	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 88.39%			
49) 4-Nitrophenol-d4	12.75	143	3398097	45.5804	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 113.95%			
56) Fluorene-d10	13.09	176	16151716	32.0603	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 80.15%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	2017524	45.1329	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 112.83%#			
68) Anthracene-d10	14.38	188	26587988	35.3313	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 88.33%			
79) Pyrene-d10	15.90	212	27513533	33.8915	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 84.73%			
85) Benzo(a)pyrene-d12	18.86	264	22169695	33.9138	ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 84.78%			
Target Compounds						Qvalue
75) bis(2-ethylhexyl)phthalate	17.16	149	2842047	4.8737	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

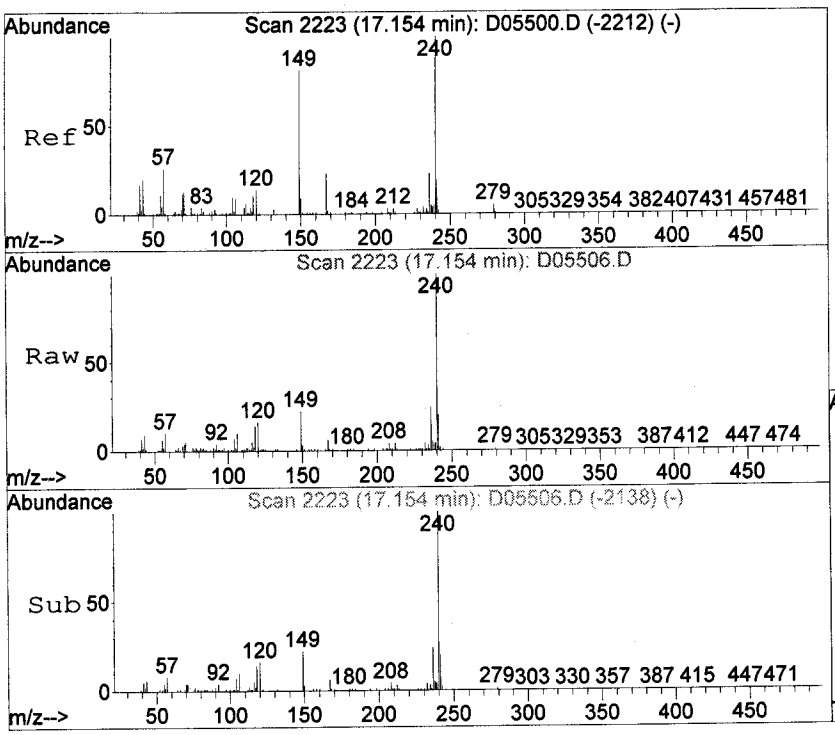
Data File: C:\MSDCHEM\1\DATA\D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 10:45:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



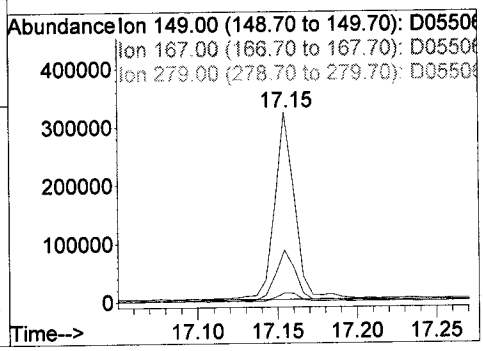
Data File : C:\MSDCHEM\1\DATA\D05506.D
Acq On : 12/15/11 13:38
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 8
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 4.87 ug/L
RT: 17.16 min Scan# 2223
Delta R.T. 0.00 min
Integration Range:
Scan=2215 to 2233
R.T.= 17.11 to 17.21 (min)
Tgt Ion:149 Resp: 2842047

Ion	Ratio	Lower	Upper
149	100		
167	28.2	21.5	32.3
279	5.0	3.8	5.6



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38
Operator: SV
Sample : F4XQ3
Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.149	11	12	19	PV 7	5822	32297	0.02%	0.001%
2	4.202	19	21	25	VV 5	3493	59425	0.04%	0.001%
3	4.249	25	29	31	PV 5	10627	123877	0.09%	0.003%
4	4.273	31	33	40	VV 8	14245	232379	0.16%	0.005%
5	4.355	40	47	54	VV 8	11856	328613	0.23%	0.008%
6	4.408	54	56	61	VV 6	7724	129939	0.09%	0.003%
7	4.449	61	63	67	VV 5	7173	105584	0.07%	0.002%
8	4.496	67	71	75	PV 6	5680	69824	0.05%	0.002%
9	4.532	75	77	79	PV 3	2811	20446	0.01%	0.000%
10	4.555	79	81	82	VV 2	4954	40885	0.03%	0.001%
11	4.602	82	89	91	VV 8	9063	158384	0.11%	0.004%
12	4.626	91	93	100	VV 8	10301	179186	0.13%	0.004%
13	4.708	100	107	111	VV 10	11274	267716	0.19%	0.006%
14	4.743	111	113	120	VV 8	11126	220162	0.16%	0.005%
15	4.796	120	122	124	VV 3	10850	93909	0.07%	0.002%
16	4.826	124	127	132	PV 7	6964	134680	0.10%	0.003%
17	4.890	132	138	146	VV 7	20051	535737	0.38%	0.013%
18	4.973	146	152	155	VV 7	9142	193634	0.14%	0.005%
19	5.002	155	157	160	VV 4	7953	126264	0.09%	0.003%
20	5.049	160	165	170	VV 9	29318	577804	0.41%	0.014%
21	5.126	170	178	193	VV 3	1587455	44308831	31.43%	1.036%
22	5.261	193	201	222	VV	1205710	31284114	22.19%	0.732%
23	5.396	222	224	228	VV 5	50310	837780	0.59%	0.020%
24	5.467	228	236	245	VV 7	49629	2122414	1.51%	0.050%
25	5.532	245	247	251	VV 5	27295	468057	0.33%	0.011%
26	5.614	251	261	275	VV	850396	19789810	14.04%	0.463%
27	5.708	275	277	284	VV 8	40690	1055697	0.75%	0.025%
28	5.755	284	285	290	VV 5	21783	350960	0.25%	0.008%
29	5.843	290	300	301	VV 9	29936	833336	0.59%	0.019%
30	5.885	301	307	321	VV 5	103792	2917402	2.07%	0.068%
31	5.990	321	325	327	VV 5	17855	257308	0.18%	0.006%
32	6.020	327	330	340	VV 5	11610	258445	0.18%	0.006%
33	6.090	340	342	347	PV 6	5887	60515	0.04%	0.001%
34	6.132	347	349	354	VV 6	6383	93403	0.07%	0.002%
35	6.255	354	370	372	VV 6	15342	510640	0.36%	0.012%
36	6.290	372	376	380	VV 6	19266	355826	0.25%	0.008%
37	6.326	380	382	387	VV 6	16400	311677	0.22%	0.007%
38	6.384	387	392	399	VV 6	30120	714006	0.51%	0.017%
39	6.437	399	401	409	VV 9	6615	117542	0.08%	0.003%
40	6.496	409	411	416	VV 4	8379	115652	0.08%	0.003%
41	6.561	416	422	425	VV 8	14402	264949	0.19%	0.006%
42	6.614	425	431	461	VV	1324016	32087793	22.76%	0.751%
43	6.796	461	462	465	VV 3	28928	329875	0.23%	0.008%
44	6.849	465	471	488	VV	1266924	26261406	18.63%	0.614%

#262

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.967	488	491	496	VV	4	67032	1314132	0.93%	0.031%
46	7.008	496	498	503	VV	6	26533	440634	0.31%	0.010%
47	7.079	503	510	520	VV	6	30536	993715	0.70%	0.023%
48	7.149	520	522	526	VV	5	8654	117343	0.08%	0.003%
49	7.226	526	535	545	VV	5	16115	562295	0.40%	0.013%
50	7.320	545	551	553	VV	6	23633	397549	0.28%	0.009%
51	7.337	553	554	559	VV	5	19675	288289	0.20%	0.007%
52	7.396	559	564	568	VV	8	13528	223078	0.16%	0.005%
53	7.449	568	573	576	VV	7	6729	80469	0.06%	0.002%
54	7.490	576	580	586	PV	9	13299	224244	0.16%	0.005%
55	7.573	586	594	619	VV		1013810	22298825	15.82%	0.522%
56	7.749	619	624	633	VV		105887	2017305	1.43%	0.047%
57	7.814	633	635	637	VV	3	16610	205446	0.15%	0.005%
58	7.843	637	640	643	VV	5	23974	361574	0.26%	0.008%
59	7.884	643	647	654	VV	10	16905	436604	0.31%	0.010%
60	7.967	654	661	662	VV	7	19199	382673	0.27%	0.009%
61	7.984	662	664	669	VV	6	20909	328043	0.23%	0.008%
62	8.061	669	677	679	VV	8	14358	366615	0.26%	0.009%
63	8.084	679	681	687	VV	7	17027	297165	0.21%	0.007%
64	8.155	687	693	723	VV		1117536	30486180	21.62%	0.713%
65	8.373	723	730	748	VV		1542591	30180545	21.41%	0.706%
66	8.508	748	753	761	VV	4	62210	1791803	1.27%	0.042%
67	8.561	761	762	770	VV	8	22259	549496	0.39%	0.013%
68	8.667	770	780	801	VV		1069660	26558238	18.84%	0.621%
69	8.796	801	802	806	VV	4	37639	521111	0.37%	0.012%
70	8.831	806	808	819	VV	4	33411	1145549	0.81%	0.027%
71	8.914	819	822	833	VV	4	24720	884967	0.63%	0.021%
72	8.990	833	835	842	VV	8	14756	335722	0.24%	0.008%
73	9.043	842	844	846	VV	3	13262	129646	0.09%	0.003%
74	9.067	846	848	850	VV	3	10864	107537	0.08%	0.003%
75	9.084	850	851	857	VV	5	12476	285210	0.20%	0.007%
76	9.131	857	859	861	VV	3	11739	129438	0.09%	0.003%
77	9.161	861	864	868	VV	6	10807	201335	0.14%	0.005%
78	9.190	868	869	872	VV	3	5495	66344	0.05%	0.002%
79	9.231	872	876	877	PV	4	7786	94711	0.07%	0.002%
80	9.249	877	879	881	VV	3	8825	91768	0.07%	0.002%
81	9.278	881	884	890	VV	8	16875	391853	0.28%	0.009%
82	9.349	890	896	898	VV	7	11287	206867	0.15%	0.005%
83	9.367	898	899	905	VV	6	9138	206794	0.15%	0.005%
84	9.420	905	908	911	VV	5	10488	171200	0.12%	0.004%
85	9.455	911	914	922	VV	9	17173	447762	0.32%	0.010%
86	9.567	922	933	945	VV	9	34330	1076996	0.76%	0.025%
87	9.672	945	951	955	VV	9	17387	392134	0.28%	0.009%
88	9.720	955	959	965	VV	8	12211	260939	0.19%	0.006%
89	9.796	965	972	978	VV	8	16890	415092	0.29%	0.010%
90	9.849	978	981	982	VV	3	17218	196205	0.14%	0.005%
91	9.884	982	987	994	VV	3	15677	379154	0.27%	0.009%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.978	994	1003	1007	PV	3	52467	1452803	1.03%	0.034%
93	10.031	1007	1012	1025	VV		231274	5498405	3.90%	0.129%
94	10.114	1025	1026	1036	VV	10	28805	749642	0.53%	0.018%
95	10.208	1036	1042	1046	VV	9	25129	635221	0.45%	0.015%
96	10.243	1046	1048	1053	VV	6	22661	442685	0.31%	0.010%
97	10.296	1053	1057	1059	VV	5	12775	215553	0.15%	0.005%
98	10.314	1059	1060	1062	VV	2	12153	145809	0.10%	0.003%
99	10.343	1062	1065	1069	VV	6	14484	287195	0.20%	0.007%
100	10.378	1069	1071	1075	VV	5	9495	165134	0.12%	0.004%
101	10.443	1075	1082	1084	VV	8	18414	409589	0.29%	0.010%
102	10.467	1084	1086	1089	VV	4	16158	186397	0.13%	0.004%
103	10.508	1089	1093	1097	VV	6	14755	332565	0.24%	0.008%
104	10.537	1097	1098	1101	VV	3	8610	85969	0.06%	0.002%
105	10.596	1101	1108	1114	PV	3	18343	517230	0.37%	0.012%
106	10.649	1114	1117	1120	VV	5	21791	330412	0.23%	0.008%
107	10.684	1120	1123	1125	VV	3	11535	173533	0.12%	0.004%
108	10.714	1125	1128	1133	VV	7	11758	212404	0.15%	0.005%
109	10.772	1133	1138	1140	VV	6	17135	255803	0.18%	0.006%
110	10.843	1140	1150	1155	VV	6	33313	1222911	0.87%	0.029%
111	10.878	1155	1156	1159	VV	3	19531	211156	0.15%	0.005%
112	10.931	1159	1165	1170	VV	10	23329	734661	0.52%	0.017%
113	10.996	1170	1176	1180	VV	7	37057	810721	0.58%	0.019%
114	11.049	1180	1185	1193	VV	2	88675	1901683	1.35%	0.044%
115	11.108	1193	1195	1199	VV	5	17984	298229	0.21%	0.007%
116	11.155	1199	1203	1207	VV	6	32414	599158	0.42%	0.014%
117	11.208	1207	1212	1221	VV	8	39766	1234845	0.88%	0.029%
118	11.296	1221	1227	1232	VV	2	83580	1473616	1.05%	0.034%
119	11.349	1232	1236	1240	VV	7	47830	990334	0.70%	0.023%
120	11.378	1240	1241	1244	VV	3	27312	432400	0.31%	0.010%
121	11.425	1244	1249	1253	VV	8	34544	886194	0.63%	0.021%
122	11.461	1253	1255	1257	VV	3	31948	380962	0.27%	0.009%
123	11.514	1257	1264	1275	VV	2	120342	3425523	2.43%	0.080%
124	11.596	1275	1278	1281	VV	5	23221	379928	0.27%	0.009%
125	11.625	1281	1283	1286	VV	4	18955	353535	0.25%	0.008%
126	11.684	1286	1293	1295	VV	8	60274	1082403	0.77%	0.025%
127	11.708	1295	1297	1309	VV	10	58630	1583872	1.12%	0.037%
128	11.831	1309	1318	1322	VV	10	33254	901589	0.64%	0.021%
129	11.866	1322	1324	1328	VV	5	30563	547133	0.39%	0.013%
130	11.949	1328	1338	1342	VV		3255006	41916407	29.73%	0.980%
131	11.996	1342	1346	1358	VV		4114107	60575645	42.96%	1.417%
132	12.084	1358	1361	1369	VV	9	103914	2818594	2.00%	0.066%
133	12.143	1369	1371	1375	VV	5	63938	987478	0.70%	0.023%
134	12.190	1375	1379	1383	VV	6	73539	1530294	1.09%	0.036%
135	12.225	1383	1385	1387	VV	3	45995	688652	0.49%	0.016%
136	12.249	1387	1389	1390	VV	2	44981	471670	0.33%	0.011%
137	12.290	1390	1396	1408	VV		2779185	38588968	27.37%	0.903%
138	12.372	1408	1410	1415	VV	6	84273	1856249	1.32%	0.043%
139	12.419	1415	1418	1423	VV	6	80502	1867062	1.32%	0.044%

0284

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.455	1423	1424	1426	VV	2	61618	638378	0.45%	0.015%
141	12.484	1426	1429	1433	VV	4	94161	1734413	1.23%	0.041%
142	12.519	1433	1435	1437	VV	2	67214	838163	0.59%	0.020%
143	12.549	1437	1440	1448	VV	9	61811	2194853	1.56%	0.051%
144	12.631	1448	1454	1457	VV	8	74314	2180447	1.55%	0.051%
145	12.678	1457	1462	1463	VV	5	96785	1662831	1.18%	0.039%
146	12.690	1463	1464	1467	VV	3	87075	956162	0.68%	0.022%
147	12.755	1467	1475	1490	VV	2	862807	29435228	20.88%	0.688%
148	12.861	1490	1493	1496	VV	3	187479	3421354	2.43%	0.080%
149	12.902	1496	1500	1507	VV	8	146263	4452332	3.16%	0.104%
150	12.961	1507	1510	1512	VV	4	118299	1831542	1.30%	0.043%
151	13.019	1512	1520	1523	VV	9	146817	4904255	3.48%	0.115%
152	13.090	1523	1532	1542	VV		5325048	77841802	55.21%	1.821%
153	13.161	1542	1544	1547	VV	4	230514	3874972	2.75%	0.091%
154	13.202	1547	1551	1555	VV	7	195370	5258564	3.73%	0.123%
155	13.261	1555	1561	1568	VV	7	228037	8686212	6.16%	0.203%
156	13.343	1568	1575	1579	VV		1120964	20922386	14.84%	0.489%
157	13.372	1579	1580	1584	VV		596363	8728434	6.19%	0.204%
158	13.408	1584	1586	1589	VV	2	372198	6517858	4.62%	0.152%
159	13.437	1589	1591	1593	VV	2	327780	4062494	2.88%	0.095%
160	13.466	1593	1596	1601	VV	2	428079	8660274	6.14%	0.203%
161	13.519	1601	1605	1607	VV	4	317530	5545046	3.93%	0.130%
162	13.543	1607	1609	1612	VV	4	252053	3836740	2.72%	0.090%
163	13.566	1612	1613	1616	VV	3	238439	3389167	2.40%	0.079%
164	13.625	1616	1623	1627	VV	9	291600	10502695	7.45%	0.246%
165	13.684	1627	1633	1636	VV		764378	13083166	9.28%	0.306%
166	13.713	1636	1638	1642	VV		792774	12336217	8.75%	0.289%
167	13.749	1642	1644	1650	VV	8	364326	9417720	6.68%	0.220%
168	13.813	1650	1655	1659	VV	7	345163	9956849	7.06%	0.233%
169	13.866	1659	1664	1670	VV	2	612557	15676207	11.12%	0.367%
170	13.931	1670	1675	1679	VV	2	637204	14821514	10.51%	0.347%
171	13.972	1679	1682	1685	VV	2	441141	7994683	5.67%	0.187%
172	14.002	1685	1687	1689	VV		433646	6013192	4.26%	0.141%
173	14.031	1689	1692	1696	VV	2	485288	9851155	6.99%	0.230%
174	14.072	1696	1699	1701	VV	2	504164	7415259	5.26%	0.173%
175	14.096	1701	1703	1713	VV	3	572730	18968407	13.45%	0.444%
176	14.166	1713	1715	1716	VV	2	429701	4914157	3.49%	0.115%
177	14.190	1716	1719	1721	VV	4	451974	7391129	5.24%	0.173%
178	14.219	1721	1724	1727	VV		920387	13770778	9.77%	0.322%
179	14.266	1727	1732	1738	VV		1205671	26318268	18.67%	0.616%
180	14.325	1738	1742	1748	VV		3874315	52533919	37.26%	1.229%
181	14.384	1748	1752	1764	VV		6301042	94247666	66.85%	2.204%
182	14.472	1764	1767	1770	VV	2	694151	11629747	8.25%	0.272%
183	14.496	1770	1771	1773	VV	2	570447	5927999	4.20%	0.139%
184	14.519	1773	1775	1780	VV	2	723077	13263181	9.41%	0.310%
185	14.566	1780	1783	1787	VV	2	523268	12967847	9.20%	0.303%
186	14.619	1787	1792	1797	VV		2342391	33008912	23.41%	0.772%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.660	1797	1799	1802	VV 4	576963	9568706	6.79%	0.224%
188	14.696	1802	1805	1809	VV	794161	14575048	10.34%	0.341%
189	14.725	1809	1810	1812	VV 2	474936	5165167	3.66%	0.121%
190	14.749	1812	1814	1817	VV 4	477067	8493498	6.02%	0.199%
191	14.778	1817	1819	1823	VV 5	466272	9546409	6.77%	0.223%
192	14.819	1823	1826	1832	VV 4	560788	13824170	9.80%	0.323%
193	14.896	1832	1839	1845	VV 9	488501	21585672	15.31%	0.505%
194	14.949	1845	1848	1850	VV 4	464116	7360659	5.22%	0.172%
195	14.972	1850	1852	1856	VV 5	492251	10598679	7.52%	0.248%
196	15.013	1856	1859	1861	VV 4	471532	7436473	5.27%	0.174%
197	15.049	1861	1865	1869	VV	795225	15979914	11.33%	0.374%
198	15.078	1869	1870	1872	VV 2	457185	5243234	3.72%	0.123%
199	15.125	1872	1878	1881	VV	616435	14705482	10.43%	0.344%
200	15.149	1881	1882	1888	VV 6	520984	11464486	8.13%	0.268%
201	15.207	1888	1892	1895	VV 2	568508	12279852	8.71%	0.287%
202	15.231	1895	1896	1899	VV 3	502246	8287102	5.88%	0.194%
203	15.272	1899	1903	1908	VV 8	513486	13889292	9.85%	0.325%
204	15.313	1908	1910	1913	VV 2	516341	8966911	6.36%	0.210%
205	15.337	1913	1914	1920	VV 6	454307	11344494	8.05%	0.265%
206	15.402	1920	1925	1928	VV 4	619454	14343576	10.17%	0.336%
207	15.443	1928	1932	1935	VV 6	504724	12085271	8.57%	0.283%
208	15.472	1935	1937	1939	VV 3	475123	5804197	4.12%	0.136%
209	15.502	1939	1942	1943	VV 2	519523	8126667	5.76%	0.190%
210	15.525	1943	1946	1949	VV	699708	10812039	7.67%	0.253%
211	15.554	1949	1951	1958	VV 8	579658	16367323	11.61%	0.383%
212	15.607	1958	1960	1962	VV 3	482899	6919816	4.91%	0.162%
213	15.678	1962	1972	1978	VV 2	669487	31069768	22.04%	0.727%
214	15.737	1978	1982	1989	VV 7	654790	20797377	14.75%	0.486%
215	15.831	1989	1998	2002	VV 7	534309	22278184	15.80%	0.521%
216	15.896	2002	2009	2017	VV	7068178	100053096	70.96%	2.340%
217	15.954	2017	2019	2024	VV 6	578143	15385390	10.91%	0.360%
218	16.007	2024	2028	2030	VV 3	611426	12118913	8.60%	0.283%
219	16.043	2030	2034	2037	VV 6	605618	12984993	9.21%	0.304%
220	16.160	2037	2054	2057	VV 6	609506	40778468	28.92%	0.954%
221	16.231	2057	2066	2069	VV 2	764750	27286155	19.35%	0.638%
222	16.272	2069	2073	2079	VV	1266335	30343900	21.52%	0.710%
223	16.337	2079	2084	2087	VV 7	657007	17735015	12.58%	0.415%
224	16.378	2087	2091	2103	VV 9	712828	36377271	25.80%	0.851%
225	16.501	2103	2112	2119	VV 10	743754	37655391	26.71%	0.881%
226	16.601	2119	2129	2137	VV 8	839066	47497173	33.69%	1.111%
227	16.672	2137	2141	2144	VV 6	705832	18030972	12.79%	0.422%
228	16.737	2144	2152	2156	VV 6	721736	28110035	19.94%	0.658%
229	16.778	2156	2159	2160	VV 3	715316	10629095	7.54%	0.249%
230	16.801	2160	2163	2171	VV 8	739486	26425122	18.74%	0.618%
231	16.866	2171	2174	2176	VV 4	726732	14101165	10.00%	0.330%
232	16.931	2176	2185	2187	VV 4	874111	29409605	20.86%	0.688%
233	16.954	2187	2189	2193	VV 3	881133	17688817	12.55%	0.414%
234	17.054	2193	2206	2211	VV 3	857670	49833414	35.35%	1.166%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	17.101	2211	2214	2217	VV	5	841851	17747566	12.59%	0.415%
236	17.154	2217	2223	2233	VV		5616685	97038416	68.83%	2.270%
237	17.254	2233	2240	2248	VV	9	846341	39952359	28.34%	0.934%
238	17.325	2248	2252	2262	VV	9	830546	39777094	28.21%	0.930%
239	17.437	2262	2271	2273	VV	10	811451	31450970	22.31%	0.736%
240	17.460	2273	2275	2280	VV	6	820481	18307157	12.98%	0.428%
241	17.525	2280	2286	2289	VV	8	797744	25829996	18.32%	0.604%
242	17.584	2289	2296	2301	VV		948096	33709845	23.91%	0.788%
243	17.625	2301	2303	2306	VV	4	794925	14823574	10.51%	0.347%
244	17.672	2306	2311	2315	VV	7	847600	24893356	17.66%	0.582%
245	17.719	2315	2319	2321	VV	4	823367	17076335	12.11%	0.399%
246	17.754	2321	2325	2329	VV	7	819857	20487708	14.53%	0.479%
247	17.813	2329	2335	2339	VV	4	809085	27719948	19.66%	0.648%
248	17.848	2339	2341	2351	VV	4	788331	33368400	23.67%	0.780%
249	17.960	2351	2360	2364	VV	8	806983	33881642	24.03%	0.793%
250	18.025	2364	2371	2379	VV	8	808712	42027199	29.81%	0.983%
251	18.095	2379	2383	2387	VV	7	744260	19445926	13.79%	0.455%
252	18.143	2387	2391	2396	VV	4	867649	25569325	18.14%	0.598%
253	18.195	2396	2400	2403	VV	6	735996	17788769	12.62%	0.416%
254	18.243	2403	2408	2421	VV	6	755057	46820660	33.21%	1.095%
255	18.378	2421	2431	2435	VV	3	852483	36708755	26.04%	0.859%
256	18.425	2435	2439	2450	VV	4	835691	39467619	27.99%	0.923%
257	18.513	2450	2454	2466	VV	4	747743	40175016	28.49%	0.940%
258	18.619	2466	2472	2475	VV	8	699086	20474923	14.52%	0.479%
259	18.654	2475	2478	2481	VV	5	684100	13809433	9.79%	0.323%
260	18.678	2481	2482	2487	VV	5	666670	14844961	10.53%	0.347%
261	18.743	2487	2493	2497	VV	9	708308	23877556	16.94%	0.559%
262	18.860	2497	2513	2528	VV	2	4672698	140991180	100.00%	3.298%
263	18.990	2528	2535	2545	VV		2895028	74199982	52.63%	1.736%
264	19.066	2545	2548	2554	VV	7	656941	19256323	13.66%	0.450%
265	19.131	2554	2559	2568	VV	7	598607	28667858	20.33%	0.671%
266	19.213	2568	2573	2580	VV	7	598134	25613773	18.17%	0.599%
267	19.272	2580	2583	2587	VV	6	608316	13717529	9.73%	0.321%
268	19.307	2587	2589	2591	VV	3	562424	8386840	5.95%	0.196%
269	19.354	2591	2597	2604	VV	3	590740	26717078	18.95%	0.625%
270	19.431	2604	2610	2617	VV	4	657435	25163189	17.85%	0.589%
271	19.484	2617	2619	2626	VV	8	525663	16709664	11.85%	0.391%
272	19.542	2626	2629	2632	VV	5	513403	10315066	7.32%	0.241%
273	19.625	2632	2643	2648	VV	9	646128	32069864	22.75%	0.750%
274	19.695	2648	2655	2660	VV	9	650915	26990497	19.14%	0.631%
275	19.754	2660	2665	2671	VV	10	646883	24789725	17.58%	0.580%
276	19.825	2671	2677	2683	VV	10	705272	26252610	18.62%	0.614%
277	19.872	2683	2685	2694	VV	10	581851	21625238	15.34%	0.506%
278	19.966	2694	2701	2710	VV	10	513724	27924786	19.81%	0.653%
279	20.031	2710	2712	2716	VV	5	474725	9984571	7.08%	0.234%
280	20.095	2716	2723	2728	VV	7	491602	20446145	14.50%	0.478%
281	20.148	2728	2732	2735	VV	6	494322	10932006	7.75%	0.256%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	20.207	2735	2742	2758	VV		657692	41863210	29.69%	0.979%
283	20.348	2758	2766	2769	VV	10	464516	17211471	12.21%	0.403%
284	20.372	2769	2770	2771	VV		452996	3396944	2.41%	0.079%
285	20.413	2771	2777	2793	VV		594412	36899864	26.17%	0.863%
286	20.519	2793	2795	2797	VV	3	424708	5745556	4.08%	0.134%
287	20.542	2797	2799	2803	VV	5	439624	7904547	5.61%	0.185%
288	20.572	2803	2804	2818	VV	5	426786	21548802	15.28%	0.504%
289	20.660	2818	2819	2828	VV	9	408112	13850360	9.82%	0.324%
290	20.742	2828	2833	2842	VV	9	418380	20386113	14.46%	0.477%
291	20.819	2842	2846	2853	VV	10	395320	14364164	10.19%	0.336%
292	20.895	2853	2859	2873	VV	10	420848	28569800	20.26%	0.668%
293	21.036	2873	2883	2901	VV	10	418157	36199659	25.68%	0.847%
294	21.219	2901	2914	2924	VV	10	443774	32444673	23.01%	0.759%
295	21.289	2924	2926	2927	VV	2	384095	4288171	3.04%	0.100%
296	21.331	2927	2933	2937	VV	9	407672	12958164	9.19%	0.303%
297	21.372	2937	2940	2945	VV	7	395948	11402120	8.09%	0.267%
298	21.425	2945	2949	2951	VV	5	378274	7722816	5.48%	0.181%
299	21.478	2951	2958	2975	VV	5	405223	31750305	22.52%	0.743%
300	21.589	2975	2977	2980	VV	4	357376	6833394	4.85%	0.160%
301	21.654	2980	2988	3003	VV	10	387643	28272396	20.05%	0.661%
302	21.754	3003	3005	3009	VV	5	332273	6539883	4.64%	0.153%
303	21.789	3009	3011	3014	VV	4	318242	5526368	3.92%	0.129%
304	21.825	3014	3017	3032	VV	4	342458	20027377	14.20%	0.468%
305	21.936	3032	3036	3041	VV	8	339429	10464996	7.42%	0.245%
306	22.013	3041	3049	3058	VV	8	441185	22682721	16.09%	0.531%
307	22.125	3058	3068	3077	VV	8	317503	20262652	14.37%	0.474%
308	22.195	3077	3080	3082	VV	4	304006	5625247	3.99%	0.132%
309	22.266	3082	3092	3110	VV	4	307268	28671254	20.34%	0.671%
310	22.430	3110	3120	3125	VV	4	314772	15460157	10.97%	0.362%
311	22.466	3125	3126	3138	VV	4	285138	12137303	8.61%	0.284%
312	22.572	3138	3144	3152	VV	4	294342	14842299	10.53%	0.347%
313	22.636	3152	3155	3157	VV	4	283268	4194146	2.97%	0.098%
314	22.660	3157	3159	3177	VV	4	284177	18519154	13.13%	0.433%
315	22.783	3177	3180	3182	VV	4	242159	3863070	2.74%	0.090%
316	22.836	3182	3189	3197	VV	4	254286	12396377	8.79%	0.290%
317	22.913	3197	3202	3204	VV	6	254336	6608211	4.69%	0.155%
318	22.960	3204	3210	3228	VV	6	277236	22124740	15.69%	0.518%
319	23.083	3228	3231	3233	VV	4	244699	3776673	2.68%	0.088%
320	23.125	3233	3238	3246	VV	4	257388	11160237	7.92%	0.261%
321	23.207	3246	3252	3260	VV	4	230600	10952266	7.77%	0.256%
322	23.278	3260	3264	3267	VV	6	226101	5134619	3.64%	0.120%
323	23.319	3267	3271	3276	VV	8	228091	6991761	4.96%	0.164%
324	23.425	3276	3289	3296	VV	8	242657	16149950	11.45%	0.378%
325	23.477	3296	3298	3309	VV	8	240253	10157782	7.20%	0.238%
326	23.548	3309	3310	3313	VV	3	199868	2957406	2.10%	0.069%
327	23.589	3313	3317	3337	VV	3	208208	16113245	11.43%	0.377%
328	23.719	3337	3339	3342	VV	4	198279	3288672	2.33%	0.077%
329	23.748	3342	3344	3346	VV	3	197208	2202877	1.56%	0.052%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	23.801	3346	3353	3369	VV 3	213748	16158752	11.46%	0.378%
331	23.907	3369	3371	3375	VV 5	180437	3916300	2.78%	0.092%
332	23.989	3375	3385	3387	VV 5	209240	8438954	5.99%	0.197%
333	24.025	3387	3391	3404	VV 5	210387	11491947	8.15%	0.269%
334	24.136	3404	3410	3417	VV 5	179041	7930489	5.62%	0.185%
335	24.207	3417	3422	3426	VV 8	178877	5052008	3.58%	0.118%
336	24.242	3426	3428	3437	VV 10	169307	6709673	4.76%	0.157%
337	24.354	3437	3447	3451	VV 10	170290	7442568	5.28%	0.174%
338	24.448	3451	3463	3479	VV 10	171030	15645263	11.10%	0.366%
339	24.554	3479	3481	3493	VV 10	152861	7424583	5.27%	0.174%
340	24.772	3493	3518	3535	VV 10	312011	28767424	20.40%	0.673%
341	24.883	3535	3537	3540	VV 4	143788	2407999	1.71%	0.056%
342	24.942	3540	3547	3549	VV 7	162406	5202567	3.69%	0.122%
343	24.966	3549	3551	3552	VBA2	164226	2241547	1.59%	0.052%

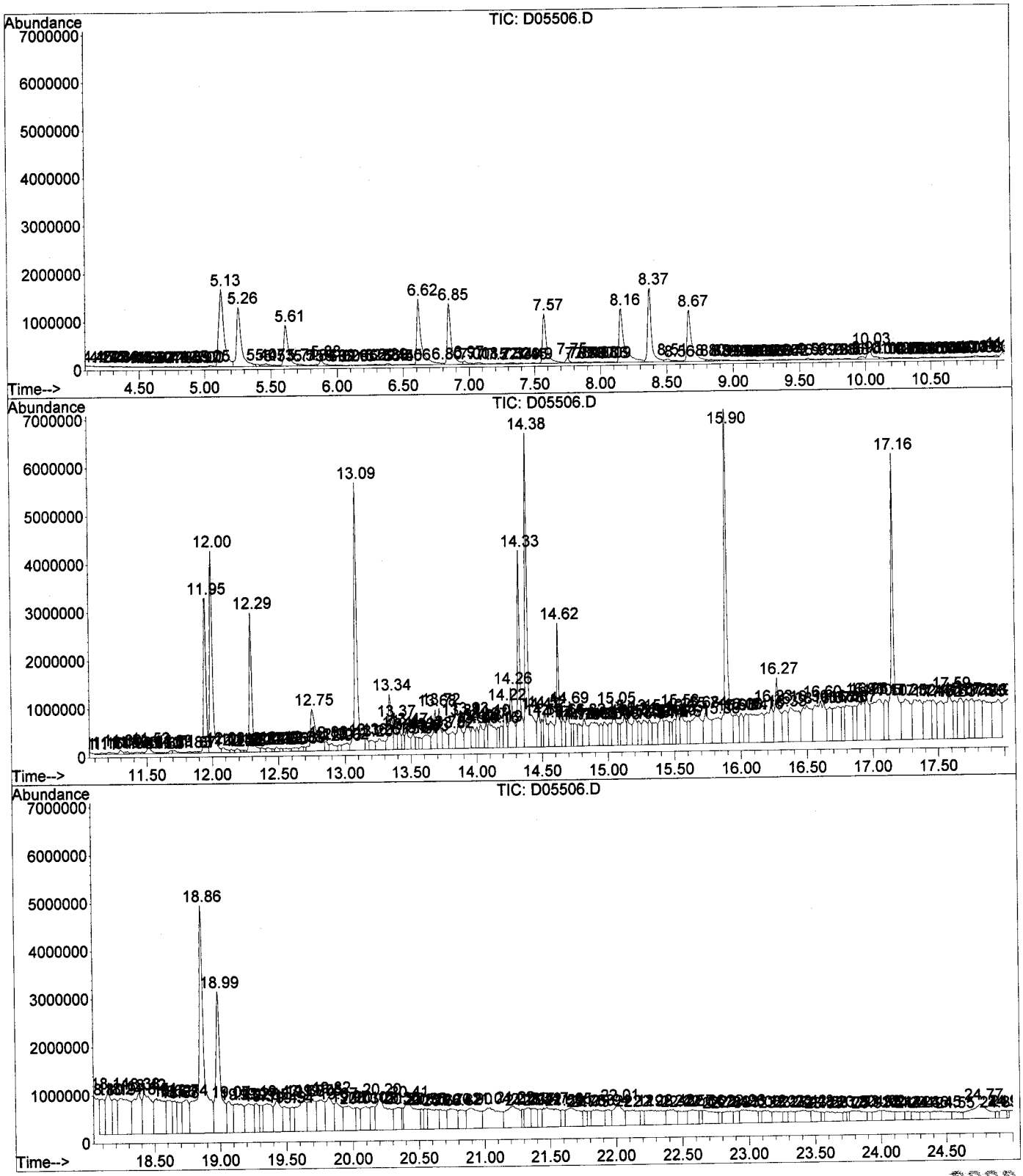
Sum of corrected areas: 4275277512

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38
Operator: SV
Sample : F4XQ3
Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

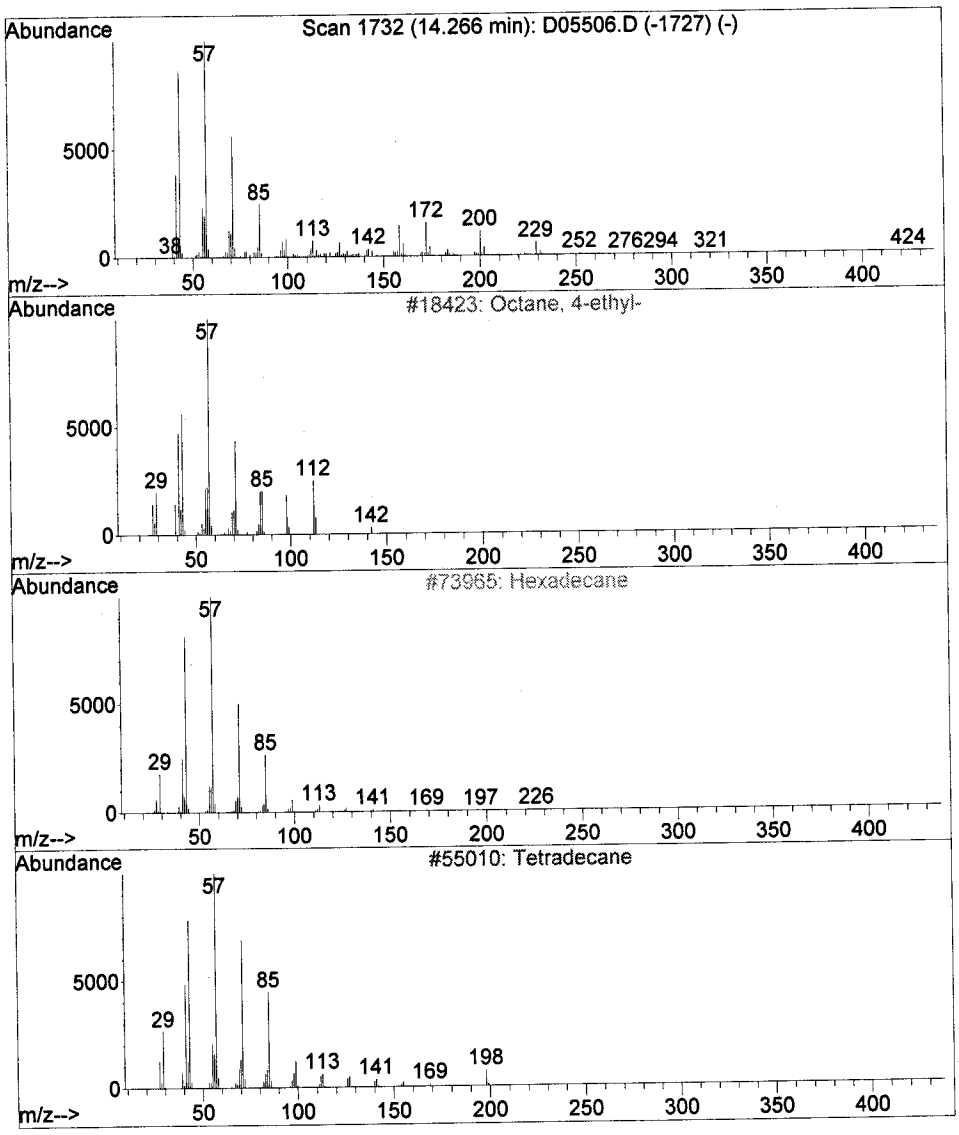
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

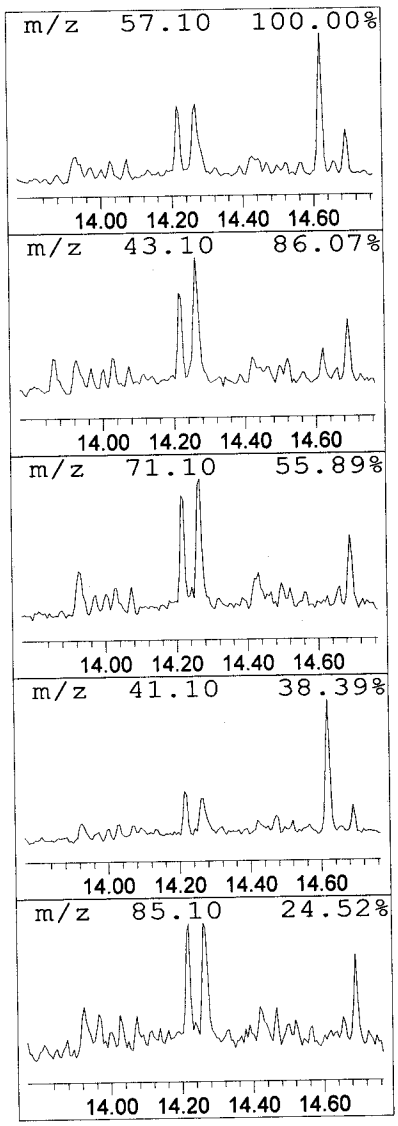
****

Peak Number 1 Octane, 4-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	10.02 ug/L	26318300	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-ethyl-	142	C10H22	015869-86-0	62
2	Hexadecane	226	C16H34	000544-76-3	60
3	Tetradecane	198	C14H30	000629-59-4	58
4	Decane, 2-methyl-	156	C11H24	006975-98-0	58
5	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	58





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38
Operator: SV
Sample : F4XQ3
Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

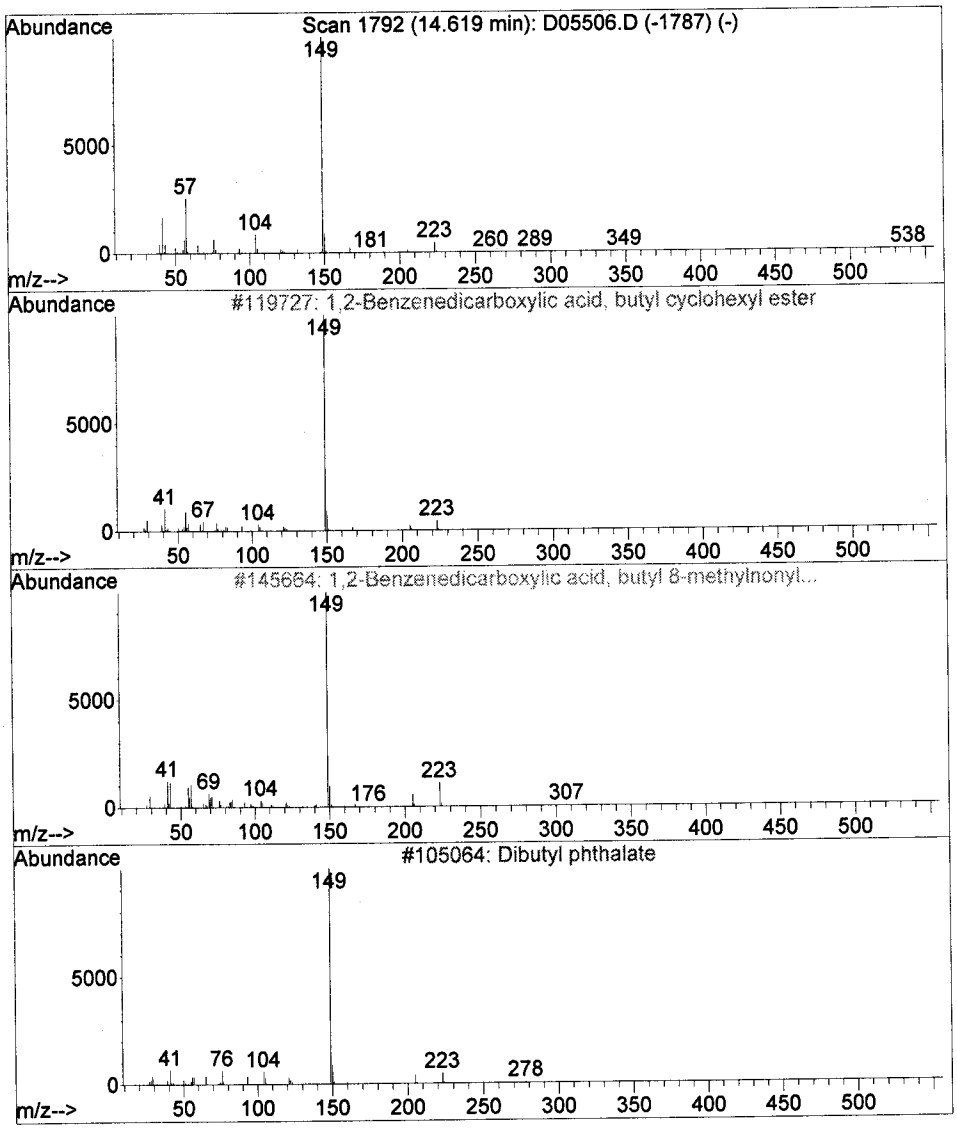
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

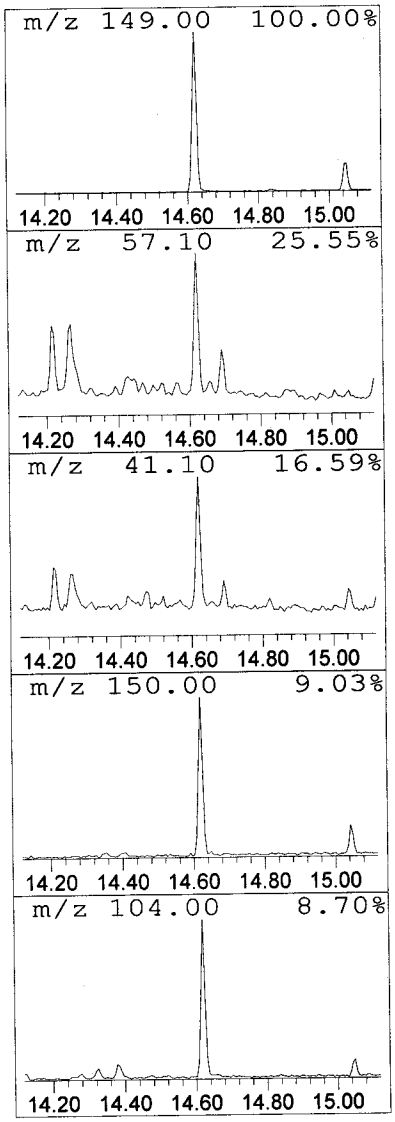
****

Peak Number 2 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	12.57 ug/L	33008900	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	86
2	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-18-9	78
3	Dibutyl phthalate	278	C16H22O4	000084-74-2	78
4	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	78
5	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38
Operator: SV
Inst : D-5973
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

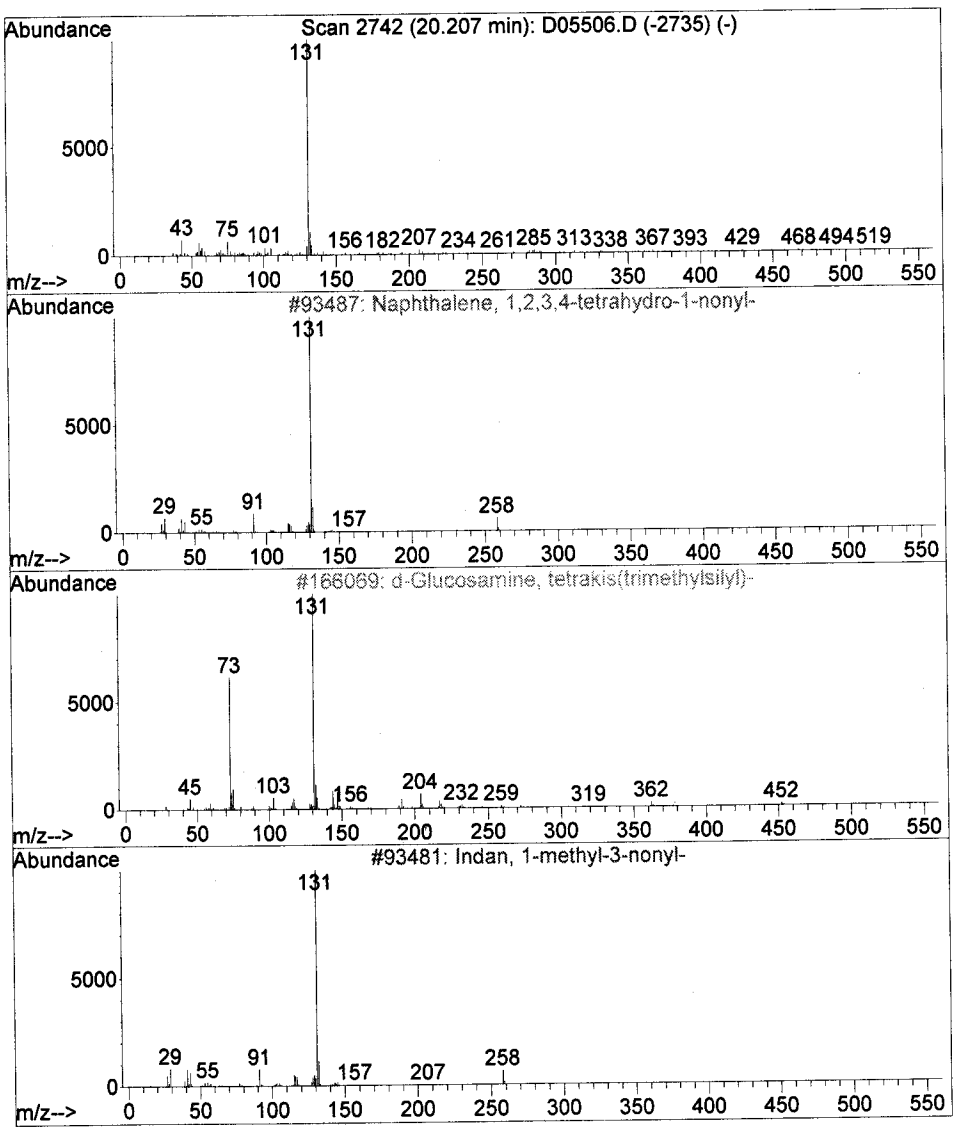
****

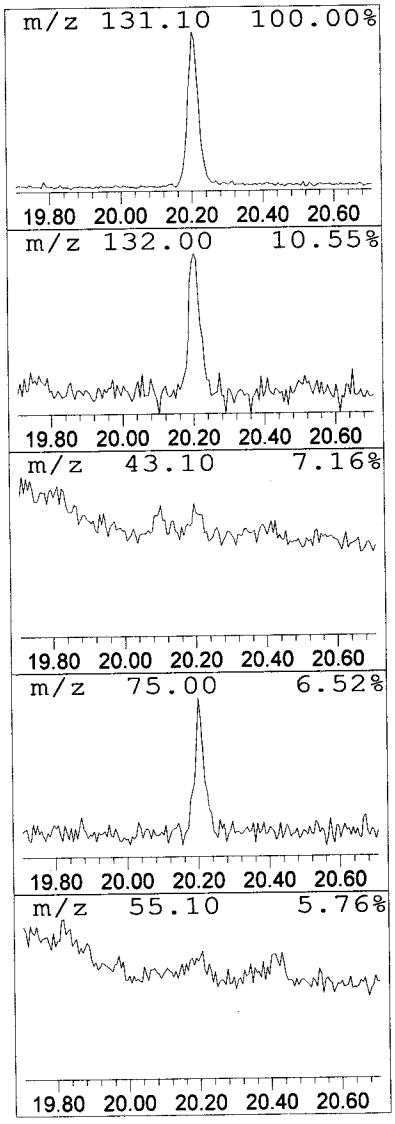
Peak Number 3 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	11.28 ug/L	41863200	Perylene-d12	18.99

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	258	C19H30	033425-49-9	50
2	d-Glucosamine, tetrakis(trimethy...	467	C18H45NO5Si4	1000079-26-2	39
3	Indan, 1-methyl-3-nonyl-	258	C19H30	029138-85-0	39
4	3,6-Dioxa-2,7-disilaoctane, 2,2,...	262	C12H30O2Si2	006730-96-7	39
5	Naphthalene, 1-decyl-1,2,3,4-tet...	272	C20H32	055255-57-7	39





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05506.D
Acq On : 12/15/11 13:38 Operator: SV
Sample : F4XQ3 Inst : D-5973
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Octane, 4-ethyl-	14.26	10.0	ug/L	26318300	4	14.33	52533900	20.0
1,2-Benzenedicarb...	14.62	12.6	ug/L	33008900	4	14.33	52533900	20.0
Naphthalene, 1,2,...	20.20	11.3	ug/L	41863200	6	18.99	74200000	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.05

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05507

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

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	160	U
108-95-2	Phenol	160	U
111-44-4	Bis(2-chloroethyl)ether	160	U
95-57-8	2-Chlorophenol	160	U
95-48-7	2-Methylphenol	160	U
108-60-1	2,2'-Oxybis(1-chloropropane)	160	U
98-86-2	Acetophenone	160	U
106-44-5	4-Methylphenol	160	U
621-64-7	N-Nitroso-di-n-propylamine	160	U
67-72-1	Hexachloroethane	160	U
98-95-3	Nitrobenzene	160	U
78-59-1	Isophorone	160	U
88-75-5	2-Nitrophenol	160	U
105-67-9	2,4-Dimethylphenol	160	U
111-91-1	Bis(2-chloroethoxy)methane	160	U
120-83-2	2,4-Dichlorophenol	160	U
91-20-3	Naphthalene	160	U
106-47-8	4-Chloroaniline	160	U
87-68-3	Hexachlorobutadiene	160	U
105-60-2	Caprolactam	160	U
59-50-7	4-Chloro-3-methylphenol	160	U
91-57-6	2-Methylnaphthalene	160	U
77-47-4	Hexachlorocyclopentadiene	160	U
88-06-2	2,4,6-Trichlorophenol	160	U
95-95-4	2,4,5-Trichlorophenol	160	U
92-52-4	1,1'-Biphenyl	160	U
91-58-7	2-Chloronaphthalene	160	U
88-74-4	2-Nitroaniline	320	U
131-11-3	Dimethylphthalate	160	U
606-20-2	2,6-Dinitrotoluene	160	U
208-96-8	Acenaphthylene	160	U
99-09-2	3-Nitroaniline	320	U
83-32-9	Acenaphthene	160	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.05

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05507

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

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	320	U
100-02-7	4-Nitrophenol	320	U
132-64-9	Dibenzofuran	160	U
121-14-2	2,4-Dinitrotoluene	160	U
84-66-2	Diethylphthalate	160	U
86-73-7	Fluorene	160	U
7005-72-3	4-Chlorophenyl-phenylether	160	U
100-01-6	4-Nitroaniline	320	U
534-52-1	4,6-Dinitro-2-methylphenol	320	U
86-30-6	N-Nitrosodiphenylamine 1	160	U
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U
101-55-3	4-Bromophenyl-phenylether	160	U
118-74-1	Hexachlorobenzene	160	U
1912-24-9	Atrazine	160	U
87-86-5	Pentachlorophenol	320	U
85-01-8	Phenanthrene	160	U
120-12-7	Anthracene	160	U
86-74-8	Carbazole	160	U
84-74-2	Di-n-butylphthalate	77	J
206-44-0	Fluoranthene	160	U
129-00-0	Pyrene	160	U
85-68-7	Butylbenzylphthalate	160	U
91-94-1	3,3'-Dichlorobenzidine	160	U
56-55-3	Benzo(a)anthracene	160	U
218-01-9	Chrysene	160	U
117-81-7	Bis(2-ethylhexyl)phthalate	110	J
117-84-0	Di-n-octylphthalate	160	U
205-99-2	Benzo(b)fluoranthene	160	U
207-08-9	Benzo(k)fluoranthene	160	U
50-32-8	Benzo(a)pyrene	160	U
193-39-5	Indeno(1,2,3-cd)pyrene	160	U
53-70-3	Dibenzo(a,h)anthracene	160	U
191-24-2	Benzo(g,h,i)perylene	160	U
58-90-2	2,3,4,6-Tetrachlorophenol	160	U

1 Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.05

Sample wt/vol: 60.80 (g/mL) G Lab File ID: D05507

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

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.26	280	J
02		Unknown-02	14.62	380	J
03	025116-58-9	20.Xi.-Lanosta-7,9(11)-diene-	18.38	330	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 10:46:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

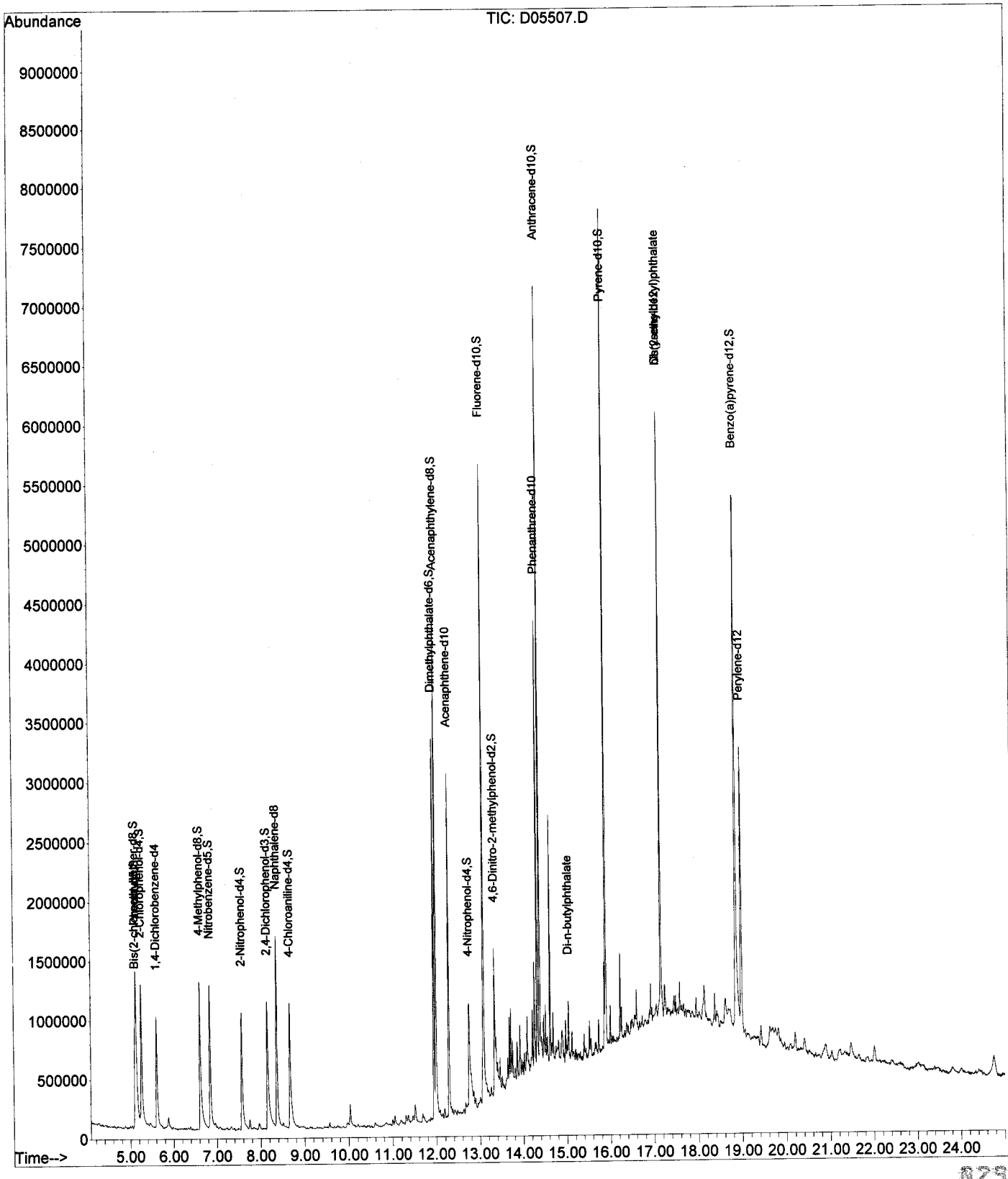
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2890509	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13157164	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8138721	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	14282427	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	14405663	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	14466114	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	13722883	32.4965 ug/L	0.01
Spiked Amount 40.000	Range 39 - 106		Recovery = 81.24%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5048562	29.2010 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 73.00%		
7) 2-Chlorophenol-d4	5.26	132	6340649	31.6973 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 79.24%		
12) 4-Methylphenol-d8	6.62	113	6039953	33.1284 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 82.82%		
17) Nitrobenzene-d5	6.85	128	3250559	33.1222 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 82.81%		
20) 2-Nitrophenol-d4	7.57	143	3511859	37.5705 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 93.93%		
24) 2,4-Dichlorophenol-d3	8.16	165	5637191	33.2936 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 83.23%		
27) 4-Chloroaniline-d4	8.67	131	7489347	39.7022 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 99.26%		
41) Acenaphthylene-d8	12.00	160	25662726	34.0061 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 85.02%		
43) Dimethylphthalate-d6	11.95	166	17906569	35.1212 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 87.80%		
49) 4-Nitrophenol-d4	12.75	143	3529690	48.9798 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 122.45%#		
56) Fluorene-d10	13.09	176	15869757	32.5879 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 81.47%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	2311575	50.7928 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 126.98%#		
68) Anthracene-d10	14.39	188	27063994	35.3253 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 88.31%		
79) Pyrene-d10	15.90	212	28879280	34.7690 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 86.92%		
85) Benzo(a)pyrene-d12	18.87	264	22662382	33.5797 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 83.95%		
Target Compounds					Qvalue
71) Di-n-butylphthalate	15.05	149	2030670	2.3801 ug/L	99
75) bis(2-ethylhexyl)phthalate	17.16	149	1971842	3.3050 ug/L #	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

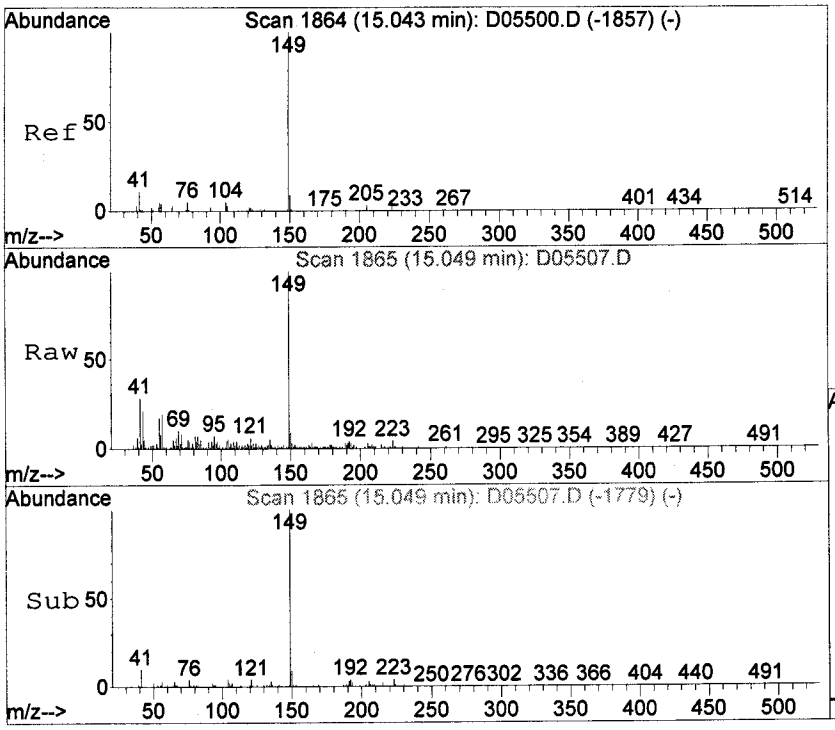
Data File: C:\MSDCHEM\1\DATA\D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 10:46:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



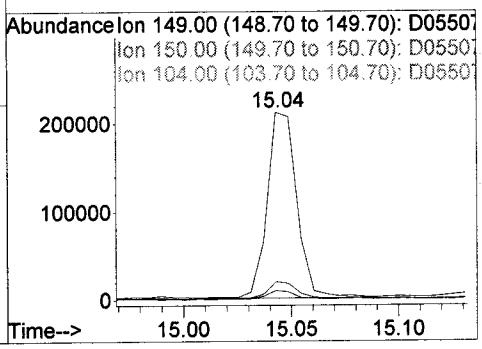
Data File : C:\MSDCHEM\1\DATA\D05507.D
Acq On : 12/15/11 14:09
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

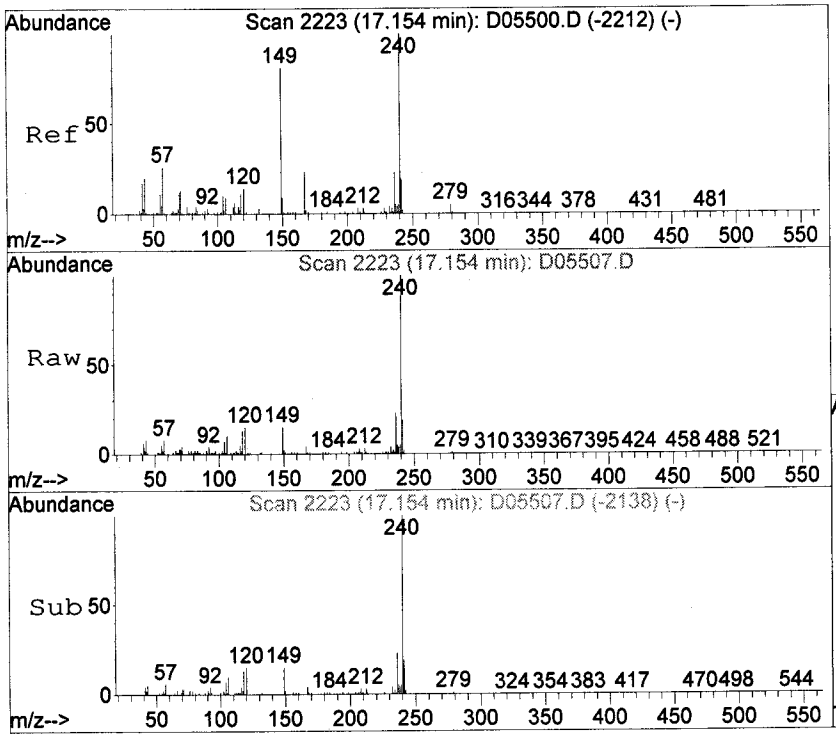
Vial: 9
Operator: SV
Inst : D-5973
Multiplr: 1.00



#71
Di-n-butylphthalate
Concen: 2.38 ug/L
RT: 15.05 min Scan# 1865
Delta R.T. 0.00 min
Integration Range:
Scan=1858 to 1872
R.T.= 15.01 to 15.09 (min)
Tgt Ion:149 Resp: 2030670

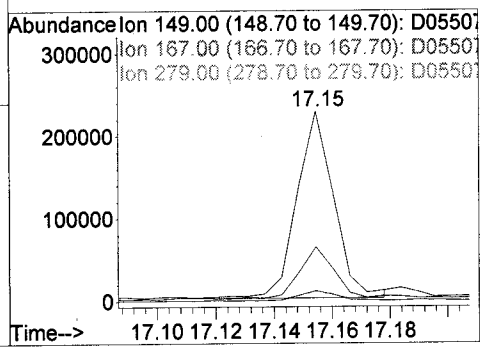
Ion	Ratio	Lower	Upper
149	100		
150	10.9	8.6	12.8
104	4.8	4.6	7.0





#75
bis(2-ethylhexyl)phthalate
Concen: 3.30 ug/L
RT: 17.16 min Scan# 2223
Delta R.T. 0.00 min
Integration Range:
Scan=2217 to 2227
R.T.= 17.12 to 17.18 (min)
Tgt Ion:149 Resp: 1971842

Ion	Ratio	Lower	Upper
149	100		
167	30.4	21.5	32.3
279	6.0	3.8	5.6#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.126	3	8	11	BV 7	4385	25056	0.02%	0.001%
2	4.179	14	17	21	PV 6	3575	55011	0.04%	0.001%
3	4.267	21	32	41	VV 6	16916	465987	0.33%	0.012%
4	4.332	41	43	45	VV 3	9834	79501	0.06%	0.002%
5	4.355	45	47	52	VV 6	8899	65434	0.05%	0.002%
6	4.414	52	57	64	VV 6	11265	308679	0.22%	0.008%
7	4.461	64	65	67	VV 2	10111	54237	0.04%	0.001%
8	4.496	67	71	73	PV 4	9791	102311	0.07%	0.003%
9	4.514	73	74	76	VV 2	6882	51079	0.04%	0.001%
10	4.549	76	80	87	VV 10	6953	197007	0.14%	0.005%
11	4.602	87	89	97	VV 9	11313	277059	0.20%	0.007%
12	4.661	97	99	101	PV 3	8014	58209	0.04%	0.001%
13	4.702	101	106	107	VV 5	11115	136027	0.10%	0.003%
14	4.720	107	109	113	VV 5	14001	185939	0.13%	0.005%
15	4.767	113	117	121	VV 7	11926	213194	0.15%	0.005%
16	4.802	121	123	125	VV 3	6636	47099	0.03%	0.001%
17	4.832	125	128	131	PV 5	6564	73697	0.05%	0.002%
18	4.879	131	136	145	VV 5	19220	411978	0.30%	0.010%
19	4.955	145	149	151	VV 5	9029	113278	0.08%	0.003%
20	4.996	151	156	159	VV 7	19204	326549	0.23%	0.008%
21	5.038	159	163	168	VV 7	25778	451583	0.32%	0.011%
22	5.132	168	179	193	VV 2	1316136	41103415	29.52%	1.021%
23	5.261	193	201	221	VV	1222812	28943624	20.78%	0.719%
24	5.396	221	224	230	VV 8	48487	1338889	0.96%	0.033%
25	5.461	230	235	253	VV 9	52789	2403605	1.73%	0.060%
26	5.614	253	261	276	VV	924082	20017861	14.37%	0.497%
27	5.714	276	278	286	VV 8	40643	924771	0.66%	0.023%
28	5.773	286	288	289	VV 2	15412	113705	0.08%	0.003%
29	5.808	289	294	297	VV 6	21745	490064	0.35%	0.012%
30	5.879	297	306	320	VV 8	98607	2997170	2.15%	0.074%
31	5.985	320	324	328	VV 6	20869	363464	0.26%	0.009%
32	6.032	328	332	335	VV 7	13223	248134	0.18%	0.006%
33	6.073	335	339	341	VV 5	9022	123036	0.09%	0.003%
34	6.126	341	348	349	PV 7	9310	156295	0.11%	0.004%
35	6.143	349	351	353	VV 3	8921	95847	0.07%	0.002%
36	6.173	353	356	364	VV 10	13372	318252	0.23%	0.008%
37	6.237	364	367	373	VV 8	16517	323266	0.23%	0.008%
38	6.285	373	375	379	VV 5	16113	208357	0.15%	0.005%
39	6.337	379	384	386	VV 6	18443	333748	0.24%	0.008%
40	6.361	386	388	389	VV 2	12749	122199	0.09%	0.003%
41	6.390	389	393	398	VV 4	27793	500124	0.36%	0.012%
42	6.437	398	401	404	VV 5	11253	130561	0.09%	0.003%
43	6.467	404	406	408	VV 3	4242	36666	0.03%	0.001%
44	6.490	408	410	412	PV 2	6612	63548	0.05%	0.002%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.555	412	421	426	VV	2	9163	284987	0.20%	0.007%
46	6.620	426	432	463	VV		1257720	30348547	21.79%	0.754%
47	6.849	463	471	487	VV		1208095	24883896	17.87%	0.618%
48	6.961	487	490	502	VV	10	61195	1925518	1.38%	0.048%
49	7.067	502	508	514	VV	10	29182	823675	0.59%	0.020%
50	7.114	514	516	526	VV	10	13822	389119	0.28%	0.010%
51	7.232	526	536	540	VV	10	25030	686467	0.49%	0.017%
52	7.332	540	553	560	VV	10	30067	1073820	0.77%	0.027%
53	7.390	560	563	568	VV	7	20442	347931	0.25%	0.009%
54	7.449	568	573	575	PV	6	9451	165580	0.12%	0.004%
55	7.490	575	580	588	VV	6	18712	448447	0.32%	0.011%
56	7.573	588	594	619	VV		981133	21400590	15.37%	0.532%
57	7.749	619	624	632	VV		86541	1746960	1.25%	0.043%
58	7.837	632	639	645	VV		24775	775064	0.56%	0.019%
59	7.884	645	647	653	VV	7	15831	310558	0.22%	0.008%
60	7.967	653	661	668	VV	7	55858	1438336	1.03%	0.036%
61	8.020	668	670	673	VV	4	11644	159735	0.11%	0.004%
62	8.061	673	677	680	VV	6	14382	243725	0.18%	0.006%
63	8.096	680	683	687	VV	6	14300	227723	0.16%	0.006%
64	8.161	687	694	722	VV		1061371	28638477	20.56%	0.711%
65	8.373	722	730	749	VV		1582197	30511054	21.91%	0.758%
66	8.508	749	753	758	VV	7	58233	1306299	0.94%	0.032%
67	8.549	758	760	764	VV	5	29506	551154	0.40%	0.014%
68	8.584	764	766	770	VV	5	26259	402089	0.29%	0.010%
69	8.620	770	772	773	VV	2	16144	179427	0.13%	0.004%
70	8.673	773	781	815	VV		1043058	26482842	19.02%	0.658%
71	8.914	815	822	824	VV	7	26701	606819	0.44%	0.015%
72	8.967	824	831	841	VV	7	22793	955832	0.69%	0.024%
73	9.031	841	842	845	VV	3	6341	66764	0.05%	0.002%
74	9.061	845	847	850	VV	4	12770	115869	0.08%	0.003%
75	9.126	850	858	862	VV	9	18472	412822	0.30%	0.010%
76	9.155	862	863	868	VV	5	14090	191281	0.14%	0.005%
77	9.190	868	869	871	VV	2	2964	25711	0.02%	0.001%
78	9.214	871	873	875	VV	3	5693	43705	0.03%	0.001%
79	9.243	875	878	880	VV	3	5191	70957	0.05%	0.002%
80	9.278	880	884	898	VV	3	15688	564022	0.41%	0.014%
81	9.373	898	900	905	VV	6	9326	154737	0.11%	0.004%
82	9.449	905	913	917	VV	10	17752	402206	0.29%	0.010%
83	9.484	917	919	920	VV	2	12474	115084	0.08%	0.003%
84	9.502	920	922	926	VV	5	16382	257105	0.18%	0.006%
85	9.567	926	933	939	VV	6	49692	983734	0.71%	0.024%
86	9.608	939	940	947	VV	7	13632	234173	0.17%	0.006%
87	9.667	947	950	955	VV	5	17751	308583	0.22%	0.008%
88	9.743	955	963	967	VV	10	24692	573041	0.41%	0.014%
89	9.796	967	972	976	VV	8	16465	284353	0.20%	0.007%
90	9.867	976	984	992	VV	8	15618	533535	0.38%	0.013%
91	9.955	992	999	1001	VV	6	39574	520601	0.37%	0.013%

B382

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.978	1001	1003	1007	VV 5	47699	897111	0.64%	0.022%
93	10.031	1007	1012	1024	VV	195986	4370561	3.14%	0.109%
94	10.120	1024	1027	1034	VV 9	25928	657502	0.47%	0.016%
95	10.208	1034	1042	1046	VV 8	31303	785621	0.56%	0.020%
96	10.261	1046	1051	1053	VV 6	16513	340721	0.24%	0.008%
97	10.290	1053	1056	1058	VV 4	16568	221317	0.16%	0.005%
98	10.337	1058	1064	1074	VV 4	20179	657486	0.47%	0.016%
99	10.425	1074	1079	1081	VV 6	20287	322244	0.23%	0.008%
100	10.461	1081	1085	1088	VV 6	19938	349521	0.25%	0.009%
101	10.514	1088	1094	1099	VV 10	14004	344314	0.25%	0.009%
102	10.596	1099	1108	1113	PV 10	41888	991211	0.71%	0.025%
103	10.649	1113	1117	1121	VV 7	21475	466175	0.33%	0.012%
104	10.708	1121	1127	1128	VV 6	10200	204509	0.15%	0.005%
105	10.725	1128	1130	1132	VV 3	7358	67058	0.05%	0.002%
106	10.778	1132	1139	1141	VV 8	15583	337412	0.24%	0.008%
107	10.849	1141	1151	1156	VV 8	34229	1222727	0.88%	0.030%
108	10.884	1156	1157	1159	VV 2	20063	186558	0.13%	0.005%
109	10.914	1159	1162	1164	VV 4	21248	286608	0.21%	0.007%
110	10.949	1164	1168	1172	VV 7	19643	376139	0.27%	0.009%
111	10.996	1172	1176	1180	VV 2	54502	879257	0.63%	0.022%
112	11.049	1180	1185	1199	VV 3	85189	2072180	1.49%	0.051%
113	11.184	1199	1208	1217	VV 3	45592	1618356	1.16%	0.040%
114	11.249	1217	1219	1223	VV 5	24347	359471	0.26%	0.009%
115	11.302	1223	1228	1233	VV	81966	1599929	1.15%	0.040%
116	11.355	1233	1237	1242	VV 4	82401	1715027	1.23%	0.043%
117	11.390	1242	1243	1245	VV 2	32253	337205	0.24%	0.008%
118	11.461	1245	1255	1259	VV 5	74528	1950615	1.40%	0.048%
119	11.514	1259	1264	1276	VV	163961	4184856	3.01%	0.104%
120	11.596	1276	1278	1289	VV	22168	726494	0.52%	0.018%
121	11.684	1289	1293	1307	VV	82655	2682251	1.93%	0.067%
122	11.778	1307	1309	1310	VV 2	13260	122633	0.09%	0.003%
123	11.831	1310	1318	1321	VV 10	34279	893147	0.64%	0.022%
124	11.867	1321	1324	1327	VV 5	47272	701728	0.50%	0.017%
125	11.949	1327	1338	1342	VV	3264727	41468970	29.78%	1.030%
126	11.996	1342	1346	1359	VV	4163679	59361851	42.63%	1.475%
127	12.084	1359	1361	1367	VV 7	107153	2317818	1.66%	0.058%
128	12.143	1367	1371	1375	VV 7	71746	1396727	1.00%	0.035%
129	12.190	1375	1379	1384	VV 6	113346	2303343	1.65%	0.057%
130	12.243	1384	1388	1390	VV 5	49897	1008499	0.72%	0.025%
131	12.290	1390	1396	1403	VV	2806909	37032598	26.59%	0.920%
132	12.343	1403	1405	1408	VV 4	126358	1943539	1.40%	0.048%
133	12.378	1408	1411	1414	VV 4	103820	1684790	1.21%	0.042%
134	12.419	1414	1418	1426	VV 10	94537	3355946	2.41%	0.083%
135	12.484	1426	1429	1433	VV 5	92177	1729091	1.24%	0.043%
136	12.514	1433	1434	1436	VV 2	69904	825222	0.59%	0.021%
137	12.537	1436	1438	1444	VV 7	76574	1932316	1.39%	0.048%
138	12.584	1444	1446	1448	VV 3	70456	901315	0.65%	0.022%
139	12.631	1448	1454	1457	VV 8	95113	2488772	1.79%	0.062%

0303

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.672	1457	1461	1464	VV	6	149716	2928801	2.10%	0.073%
141	12.755	1464	1475	1491	VV		1007001	34670404	24.90%	0.861%
142	12.861	1491	1493	1497	VV		241205	4247006	3.05%	0.106%
143	12.902	1497	1500	1506	VV	6	178273	4450275	3.20%	0.111%
144	13.014	1506	1519	1523	VV	6	182220	8321943	5.98%	0.207%
145	13.090	1523	1532	1542	VV		5365293	80405369	57.74%	1.997%
146	13.155	1542	1543	1547	VV	4	301108	4556801	3.27%	0.113%
147	13.190	1547	1549	1555	VV	6	240792	6293783	4.52%	0.156%
148	13.261	1555	1561	1568	VV	8	265408	9762488	7.01%	0.243%
149	13.343	1568	1575	1579	VV		1391291	25318971	18.18%	0.629%
150	13.378	1579	1581	1584	VV	3	676583	10350869	7.43%	0.257%
151	13.413	1584	1587	1593	VV		472844	11294330	8.11%	0.281%
152	13.466	1593	1596	1601	VV	3	489252	10515445	7.55%	0.261%
153	13.519	1601	1605	1607	VV	2	343393	6069745	4.36%	0.151%
154	13.537	1607	1608	1611	VV	3	280669	3273747	2.35%	0.081%
155	13.566	1611	1613	1615	VV	3	269913	4223315	3.03%	0.105%
156	13.619	1615	1622	1623	VV	6	328778	7735194	5.55%	0.192%
157	13.643	1623	1626	1629	VV	2	487865	8551342	6.14%	0.212%
158	13.684	1629	1633	1636	VV		794712	12265831	8.81%	0.305%
159	13.719	1636	1639	1642	VV		875704	13365353	9.60%	0.332%
160	13.755	1642	1645	1652	VV	4	625928	14696393	10.55%	0.365%
161	13.819	1652	1656	1659	VV	5	409854	9445216	6.78%	0.235%
162	13.866	1659	1664	1669	VV	2	632609	14981677	10.76%	0.372%
163	13.931	1669	1675	1679	VV	2	757849	17245797	12.38%	0.428%
164	13.972	1679	1682	1685	VV	4	466527	8599613	6.18%	0.214%
165	14.002	1685	1687	1689	VV	3	450908	6295866	4.52%	0.156%
166	14.031	1689	1692	1696	VV	2	530515	9584481	6.88%	0.238%
167	14.096	1696	1703	1708	VV	3	814422	23916309	17.17%	0.594%
168	14.137	1708	1710	1712	VV	3	464473	5998334	4.31%	0.149%
169	14.166	1712	1715	1717	VV	4	431862	6295895	4.52%	0.156%
170	14.219	1717	1724	1727	VV	2	898494	20280862	14.56%	0.504%
171	14.266	1727	1732	1738	VV	2	1254256	27666640	19.87%	0.687%
172	14.325	1738	1742	1748	VV		3976974	53849990	38.67%	1.338%
173	14.384	1748	1752	1757	VV		6569115	79850062	57.34%	1.984%
174	14.425	1757	1759	1764	VV	4	656004	14604441	10.49%	0.363%
175	14.478	1764	1768	1773	VV		822625	18916757	13.58%	0.470%
176	14.519	1773	1775	1779	VV	2	895550	13599820	9.77%	0.338%
177	14.560	1779	1782	1788	VV	4	647303	17100459	12.28%	0.425%
178	14.619	1788	1792	1796	VV		2291371	31685975	22.75%	0.787%
179	14.660	1796	1799	1801	VV	4	595267	9980081	7.17%	0.248%
180	14.690	1801	1804	1809	VV		828184	15783335	11.33%	0.392%
181	14.725	1809	1810	1812	VV	2	478799	4779548	3.43%	0.119%
182	14.755	1812	1815	1818	VV	4	562560	11053917	7.94%	0.275%
183	14.790	1818	1821	1823	VV	3	552233	9686126	6.96%	0.241%
184	14.819	1823	1826	1830	VV	3	623937	12796938	9.19%	0.318%
185	14.896	1830	1839	1846	VV	8	692142	31466802	22.60%	0.782%
186	14.943	1846	1847	1850	VV	3	495817	6781743	4.87%	0.168%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.984	1850	1854	1857	VV	2	770059	15395366	11.05%	0.382%
188	15.013	1857	1859	1861	VV	3	570701	8605020	6.18%	0.214%
189	15.049	1861	1865	1871	VV		941522	21158624	15.19%	0.526%
190	15.125	1871	1878	1881	VV	3	662226	17674709	12.69%	0.439%
191	15.160	1881	1884	1888	VV	7	507690	13317317	9.56%	0.331%
192	15.207	1888	1892	1895	VV		522275	10425260	7.49%	0.259%
193	15.237	1895	1897	1900	VV	4	494091	8095170	5.81%	0.201%
194	15.272	1900	1903	1908	VV	7	484357	13681609	9.82%	0.340%
195	15.313	1908	1910	1916	VV	5	500394	13108562	9.41%	0.326%
196	15.360	1916	1918	1920	VV	3	462253	6265808	4.50%	0.156%
197	15.402	1920	1925	1929	VV	3	637987	16436025	11.80%	0.408%
198	15.443	1929	1932	1935	VV	4	523369	9889924	7.10%	0.246%
199	15.466	1935	1936	1939	VV	3	479792	6343945	4.56%	0.158%
200	15.525	1939	1946	1949	VV	2	737739	19722309	14.16%	0.490%
201	15.560	1949	1952	1958	VV	6	607586	16495138	11.84%	0.410%
202	15.607	1958	1960	1962	VV	3	487622	7700902	5.53%	0.191%
203	15.660	1962	1969	1970	VV	5	565155	14600900	10.48%	0.363%
204	15.678	1970	1972	1978	VV	2	571282	14793856	10.62%	0.368%
205	15.737	1978	1982	1988	VV	2	742246	19593174	14.07%	0.487%
206	15.784	1988	1990	1992	VV	3	512511	6461158	4.64%	0.161%
207	15.831	1992	1998	2000	VV	5	535634	14957537	10.74%	0.372%
208	15.866	2000	2004	2006	VV		1239369	16262574	11.68%	0.404%
209	15.896	2006	2009	2017	VV		7498697	96838555	69.54%	2.406%
210	15.966	2017	2021	2024	VV	5	586165	13622330	9.78%	0.338%
211	16.007	2024	2028	2031	VV		866334	16290973	11.70%	0.405%
212	16.049	2031	2035	2037	VV	5	612896	12060540	8.66%	0.300%
213	16.072	2037	2039	2041	VV	3	612220	9436867	6.78%	0.234%
214	16.096	2041	2043	2046	VV	4	586402	8632416	6.20%	0.214%
215	16.131	2046	2049	2050	VV	3	573816	9124920	6.55%	0.227%
216	16.154	2050	2053	2056	VV	5	599735	12904271	9.27%	0.321%
217	16.231	2056	2066	2069	VV		1324595	33140146	23.80%	0.823%
218	16.260	2069	2071	2079	VV	2	830827	23181278	16.65%	0.576%
219	16.331	2079	2083	2087	VV	7	651969	18713285	13.44%	0.465%
220	16.378	2087	2091	2095	VV	5	710701	18895438	13.57%	0.469%
221	16.419	2095	2098	2103	VV	7	691058	17871955	12.83%	0.444%
222	16.472	2103	2107	2109	VV	2	712824	13276278	9.53%	0.330%
223	16.502	2109	2112	2118	VV	8	741003	22396198	16.08%	0.556%
224	16.560	2118	2122	2127	VV	8	767962	22783337	16.36%	0.566%
225	16.602	2127	2129	2132	VV		967157	15963145	11.46%	0.397%
226	16.625	2132	2133	2138	VV	5	709490	13159745	9.45%	0.327%
227	16.672	2138	2141	2146	VV	6	713848	19997512	14.36%	0.497%
228	16.737	2146	2152	2157	VV	9	753296	25717681	18.47%	0.639%
229	16.807	2157	2164	2170	VV	9	732299	33093832	23.76%	0.822%
230	16.866	2170	2174	2176	VV	4	722758	15283325	10.97%	0.380%
231	16.901	2176	2180	2181	VV	4	803474	14060878	10.10%	0.349%
232	16.931	2181	2185	2187	VV		1010713	18022843	12.94%	0.448%
233	16.954	2187	2189	2192	VV	4	823798	12218532	8.77%	0.304%
234	16.990	2192	2195	2198	VV	5	763357	15936811	11.44%	0.396%

#385

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	17.060	2198	2207	2211	VV 5	847277	37226756	26.73%	0.925%
236	17.154	2211	2223	2234	VV	5484938	113351935	81.39%	2.816%
237	17.249	2234	2239	2247	VV 4	1016171	40934299	29.39%	1.017%
238	17.319	2247	2251	2256	VV 8	816976	24493321	17.59%	0.608%
239	17.360	2256	2258	2261	VV 4	800339	14591130	10.48%	0.362%
240	17.396	2261	2264	2266	VV 4	777204	12428831	8.92%	0.309%
241	17.419	2266	2268	2270	VV 3	788379	11581086	8.32%	0.288%
242	17.460	2270	2275	2279	VV 6	903073	25144991	18.06%	0.625%
243	17.496	2279	2281	2284	VV 3	901055	16841624	12.09%	0.418%
244	17.543	2284	2289	2292	VV 7	804671	22124441	15.89%	0.550%
245	17.584	2292	2296	2302	VV 2	1003787	27327136	19.62%	0.679%
246	17.631	2302	2304	2307	VV 4	822257	16628516	11.94%	0.413%
247	17.672	2307	2311	2315	VV 7	833399	21506678	15.44%	0.534%
248	17.719	2315	2319	2322	VV 6	788041	19131726	13.74%	0.475%
249	17.754	2322	2325	2328	VV 5	780296	16173347	11.61%	0.402%
250	17.784	2328	2330	2334	VV 5	781559	14465466	10.39%	0.359%
251	17.813	2334	2335	2339	VV 3	775159	14694425	10.55%	0.365%
252	17.866	2339	2344	2351	VV 3	769695	31465831	22.59%	0.782%
253	17.919	2351	2353	2355	VV 3	726712	9384705	6.74%	0.233%
254	17.960	2355	2360	2364	VV	881781	24441908	17.55%	0.607%
255	17.996	2364	2366	2368	VV 3	735774	9756370	7.01%	0.242%
256	18.031	2368	2372	2380	VV 3	762853	32208867	23.13%	0.800%
257	18.143	2380	2391	2397	VV 5	974112	47951339	34.43%	1.191%
258	18.184	2397	2398	2404	VV 6	741349	18550887	13.32%	0.461%
259	18.231	2404	2406	2409	VV 4	694930	12827141	9.21%	0.319%
260	18.260	2409	2411	2421	VV 10	693919	27226676	19.55%	0.676%
261	18.378	2421	2431	2435	VV	888954	36501293	26.21%	0.907%
262	18.425	2435	2439	2441	VV 5	755858	14910267	10.71%	0.370%
263	18.448	2441	2443	2451	VV 5	727638	23010481	16.52%	0.572%
264	18.513	2451	2454	2457	VV 5	670600	15151796	10.88%	0.376%
265	18.548	2457	2460	2463	VV 5	659422	11673973	8.38%	0.290%
266	18.619	2463	2472	2480	VV 3	854223	44669515	32.08%	1.110%
267	18.690	2480	2484	2489	VV 3	762900	25820922	18.54%	0.641%
268	18.731	2489	2491	2500	VV 10	757448	25131676	18.05%	0.624%
269	18.795	2500	2502	2504	VV 3	640183	9029284	6.48%	0.224%
270	18.866	2504	2514	2529	VV 2	5128007	139262614	100.00%	3.460%
271	18.990	2529	2535	2544	VV	2926763	71994385	51.70%	1.789%
272	19.072	2544	2549	2553	VV 8	582672	16373344	11.76%	0.407%
273	19.119	2553	2557	2570	VV 8	546251	32895690	23.62%	0.817%
274	19.266	2570	2582	2585	VV 8	517787	26489692	19.02%	0.658%
275	19.301	2585	2588	2593	VV 7	509923	13297222	9.55%	0.330%
276	19.337	2593	2594	2596	VV 2	509203	5509116	3.96%	0.137%
277	19.366	2596	2599	2604	VV 7	511669	13075429	9.39%	0.325%
278	19.431	2604	2610	2619	VV 3	604841	26281570	18.87%	0.653%
279	19.490	2619	2620	2628	VV 8	433930	14343589	10.30%	0.356%
280	19.572	2628	2634	2636	VV 7	440128	11420465	8.20%	0.284%
281	19.631	2636	2644	2648	VV 6	588886	21471621	15.42%	0.533%

0306

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.695	2648	2655	2660	VV	6	577354	24456503	17.56%	0.608%
283	19.754	2660	2665	2672	VV	6	573840	23083083	16.58%	0.573%
284	19.825	2672	2677	2683	VV	9	567116	20451010	14.69%	0.508%
285	19.872	2683	2685	2694	VV	10	478937	17273562	12.40%	0.429%
286	19.937	2694	2696	2697	VV	2	418464	4363535	3.13%	0.108%
287	19.960	2697	2700	2705	VV	6	442756	11665052	8.38%	0.290%
288	20.001	2705	2707	2709	VV	3	394965	4606594	3.31%	0.114%
289	20.031	2709	2712	2716	VV	6	402711	10205385	7.33%	0.254%
290	20.101	2716	2724	2729	VV	7	426606	18215307	13.08%	0.453%
291	20.142	2729	2731	2733	VV	3	397261	6192599	4.45%	0.154%
292	20.207	2733	2742	2750	VV		516837	24321129	17.46%	0.604%
293	20.325	2750	2762	2771	VV		387119	27372414	19.66%	0.680%
294	20.413	2771	2777	2790	VV		462775	26908751	19.32%	0.668%
295	20.513	2790	2794	2796	VV	5	358406	7295994	5.24%	0.181%
296	20.531	2796	2797	2803	VV	6	355315	8675469	6.23%	0.216%
297	20.578	2803	2805	2807	VV	3	333823	4050848	2.91%	0.101%
298	20.595	2807	2808	2815	VV	7	325476	8700544	6.25%	0.216%
299	20.666	2815	2820	2823	VV	7	328926	9487676	6.81%	0.236%
300	20.695	2823	2825	2830	VV	6	307865	7483273	5.37%	0.186%
301	20.748	2830	2834	2841	VV	10	318926	11309997	8.12%	0.281%
302	20.813	2841	2845	2846	VV	4	319795	6144707	4.41%	0.153%
303	20.895	2846	2859	2871	VV	9	398456	29699763	21.33%	0.738%
304	21.037	2871	2883	2889	VV	10	340127	19536482	14.03%	0.485%
305	21.084	2889	2891	2894	VV	4	269246	3733269	2.68%	0.093%
306	21.119	2894	2897	2902	VV	7	266065	7784929	5.59%	0.193%
307	21.236	2902	2917	2921	VV	7	344210	20947154	15.04%	0.520%
308	21.266	2921	2922	2925	VV	3	300622	3907968	2.81%	0.097%
309	21.331	2925	2933	2939	VV	3	326114	15947664	11.45%	0.396%
310	21.384	2939	2942	2944	VV	4	311493	5172267	3.71%	0.128%
311	21.401	2944	2945	2947	VV	2	302846	3519409	2.53%	0.087%
312	21.425	2947	2949	2951	VV	3	302339	3780918	2.71%	0.094%
313	21.478	2951	2958	2975	VV	3	391378	26581952	19.09%	0.660%
314	21.584	2975	2976	2981	VV	5	273173	5811464	4.17%	0.144%
315	21.660	2981	2989	2993	VV	8	291450	11408946	8.19%	0.283%
316	21.689	2993	2994	2998	VV	4	258935	4681276	3.36%	0.116%
317	21.731	2998	3001	3003	VV	4	242858	4345097	3.12%	0.108%
318	21.760	3003	3006	3008	VV	4	240623	3524890	2.53%	0.088%
319	21.778	3008	3009	3013	VV	4	233721	3902346	2.80%	0.097%
320	21.854	3013	3022	3029	VV	4	264329	14259205	10.24%	0.354%
321	21.907	3029	3031	3035	VV	5	225461	4445550	3.19%	0.110%
322	21.948	3035	3038	3041	VV	5	236740	4997853	3.59%	0.124%
323	22.013	3041	3049	3059	VV	5	347052	17604867	12.64%	0.437%
324	22.078	3059	3060	3063	VV	3	227518	2761084	1.98%	0.069%
325	22.101	3063	3064	3074	VV	10	223106	8913339	6.40%	0.221%
326	22.189	3074	3079	3087	VV	10	218968	9199172	6.61%	0.229%
327	22.248	3087	3089	3094	VV	6	219950	5223875	3.75%	0.130%
328	22.295	3094	3097	3099	VV	4	204583	3877555	2.78%	0.096%
329	22.342	3099	3105	3107	VV	7	198971	5566653	4.00%	0.138%

8387

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	22.366	3107	3109	3111	VV	3	195223	2264216	1.63%	0.056%
331	22.413	3111	3117	3120	VV	8	220487	7019038	5.04%	0.174%
332	22.436	3120	3121	3132	VV	8	210572	8040772	5.77%	0.200%
333	22.519	3132	3135	3139	VV	6	184207	3870151	2.78%	0.096%
334	22.572	3139	3144	3147	VV	6	187643	4993515	3.59%	0.124%
335	22.613	3147	3151	3156	VV	8	194739	5831237	4.19%	0.145%
336	22.648	3156	3157	3165	VV	8	183725	5589346	4.01%	0.139%
337	22.719	3165	3169	3173	VV	7	149085	4108612	2.95%	0.102%
338	22.754	3173	3175	3184	VV	10	136400	5003180	3.59%	0.124%
339	22.819	3184	3186	3189	VV	4	142957	2282133	1.64%	0.057%
340	22.889	3189	3198	3199	VV	9	148688	5251804	3.77%	0.130%
341	22.948	3199	3208	3209	VV	9	155233	4914374	3.53%	0.122%
342	22.966	3209	3211	3213	VV	3	167725	2084150	1.50%	0.052%
343	23.025	3213	3221	3226	VV	3	181325	7565242	5.43%	0.188%
344	23.060	3226	3227	3229	VV	2	163695	1758646	1.26%	0.044%
345	23.095	3229	3233	3236	VV	6	158237	3681270	2.64%	0.091%
346	23.119	3236	3237	3248	VV	10	157252	6048324	4.34%	0.150%
347	23.189	3248	3249	3256	VV	7	122133	3416967	2.45%	0.085%
348	23.248	3256	3259	3261	VV	4	120281	1790923	1.29%	0.044%
349	23.289	3261	3266	3275	VV	4	119955	5695143	4.09%	0.141%
350	23.366	3275	3279	3279	VV	3	114702	1801385	1.29%	0.045%
351	23.395	3279	3284	3286	VV	6	136477	2769547	1.99%	0.069%
352	23.419	3286	3288	3290	VV	3	122724	1899066	1.36%	0.047%
353	23.442	3290	3292	3294	VV	3	124258	1721865	1.24%	0.043%
354	23.478	3294	3298	3303	VV	8	127409	3674318	2.64%	0.091%
355	23.519	3303	3305	3308	VV	4	113267	1832927	1.32%	0.046%
356	23.548	3308	3310	3312	VV	3	96214	1060278	0.76%	0.026%
357	23.589	3312	3317	3318	VV	5	101792	2156544	1.55%	0.054%
358	23.607	3318	3320	3324	VV	5	95113	1760382	1.26%	0.044%
359	23.636	3324	3325	3328	VV	3	88554	1157028	0.83%	0.029%
360	23.666	3328	3330	3338	VV	9	84846	2508021	1.80%	0.062%
361	23.719	3338	3339	3341	VV	2	68983	675983	0.49%	0.017%
362	23.760	3341	3346	3349	VV	7	83502	2304688	1.65%	0.057%
363	23.795	3349	3352	3362	VV	7	115868	4895881	3.52%	0.122%
364	23.866	3362	3364	3368	VV	5	89749	1717665	1.23%	0.043%
365	23.901	3368	3370	3373	VV	4	78144	1290905	0.93%	0.032%
366	23.930	3373	3375	3377	VV	2	74461	832866	0.60%	0.021%
367	24.007	3377	3388	3396	VV	2	102434	5500594	3.95%	0.137%
368	24.060	3396	3397	3407	VV	10	79730	2803399	2.01%	0.070%
369	24.130	3407	3409	3414	VV	6	62975	1403839	1.01%	0.035%
370	24.172	3414	3416	3419	VV	4	68112	1113382	0.80%	0.028%
371	24.201	3419	3421	3426	VV	6	63626	1373880	0.99%	0.034%
372	24.248	3426	3429	3434	VV	7	59954	1444043	1.04%	0.036%
373	24.307	3434	3439	3441	VV	6	58934	1190712	0.86%	0.030%
374	24.342	3441	3445	3448	VV	6	66493	1379207	0.99%	0.034%
375	24.372	3448	3450	3451	VV	2	54721	540789	0.39%	0.013%
376	24.413	3451	3457	3462	VV	10	82446	2461278	1.77%	0.061%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	24.454	3462	3464	3472	VV	9	70375	2107682	1.51%	0.052%
378	24.525	3472	3476	3479	VV	6	50551	1000469	0.72%	0.025%
379	24.548	3479	3480	3484	VV	4	38649	526197	0.38%	0.013%
380	24.583	3484	3486	3488	VV	3	31849	383986	0.28%	0.010%
381	24.636	3488	3495	3497	VV	8	41729	1009166	0.72%	0.025%
382	24.760	3497	3516	3529	VV	8	182246	10559878	7.58%	0.262%
383	24.848	3529	3531	3533	VV	3	30561	318587	0.23%	0.008%
384	24.877	3533	3536	3541	VV	7	25827	420866	0.30%	0.010%
385	24.936	3541	3546	3548	PV	6	17980	236366	0.17%	0.006%
386	24.960	3548	3550	3551	VV	2	15881	98494	0.07%	0.002%

Sum of corrected areas: 4025372253

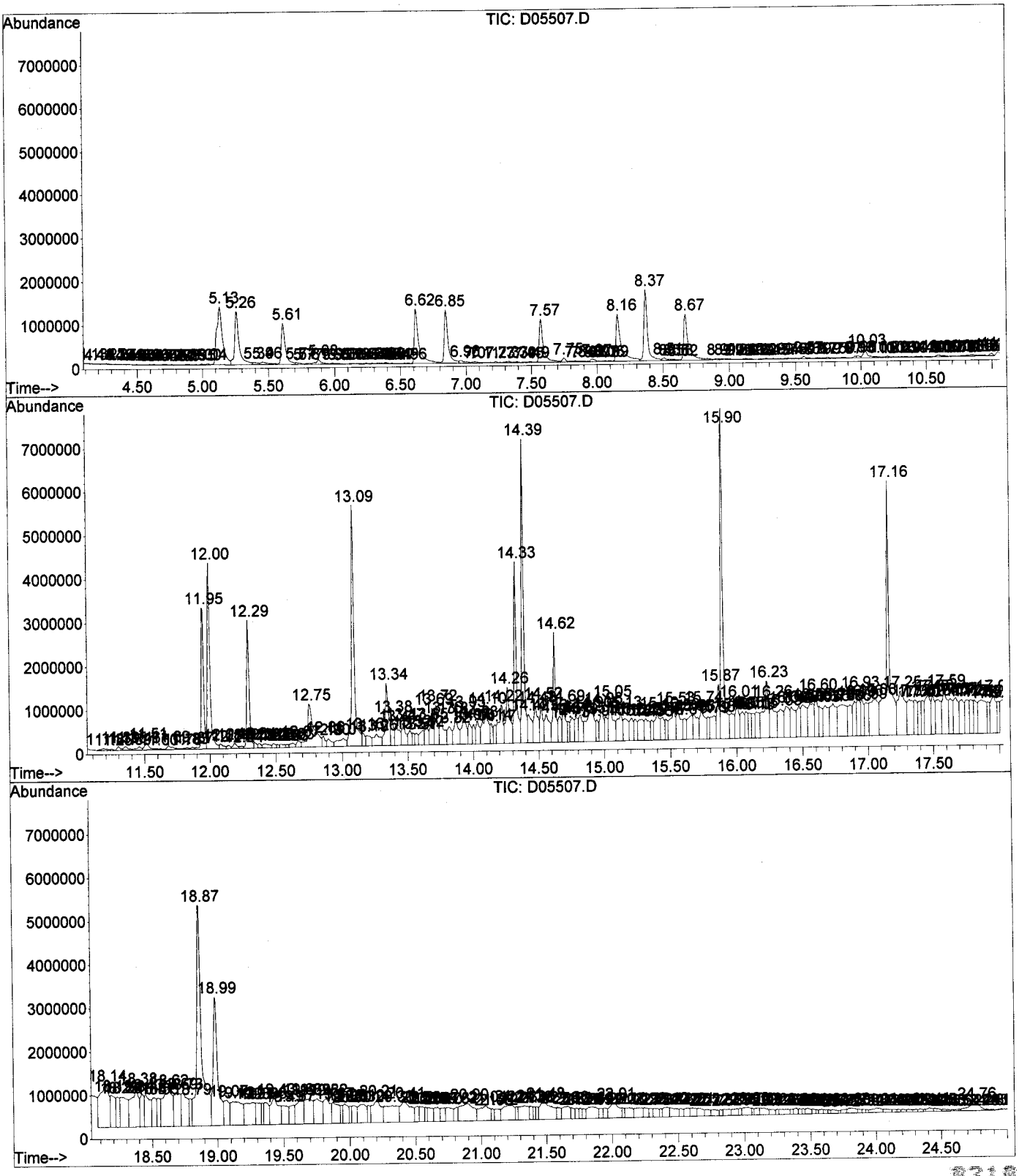
0369

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

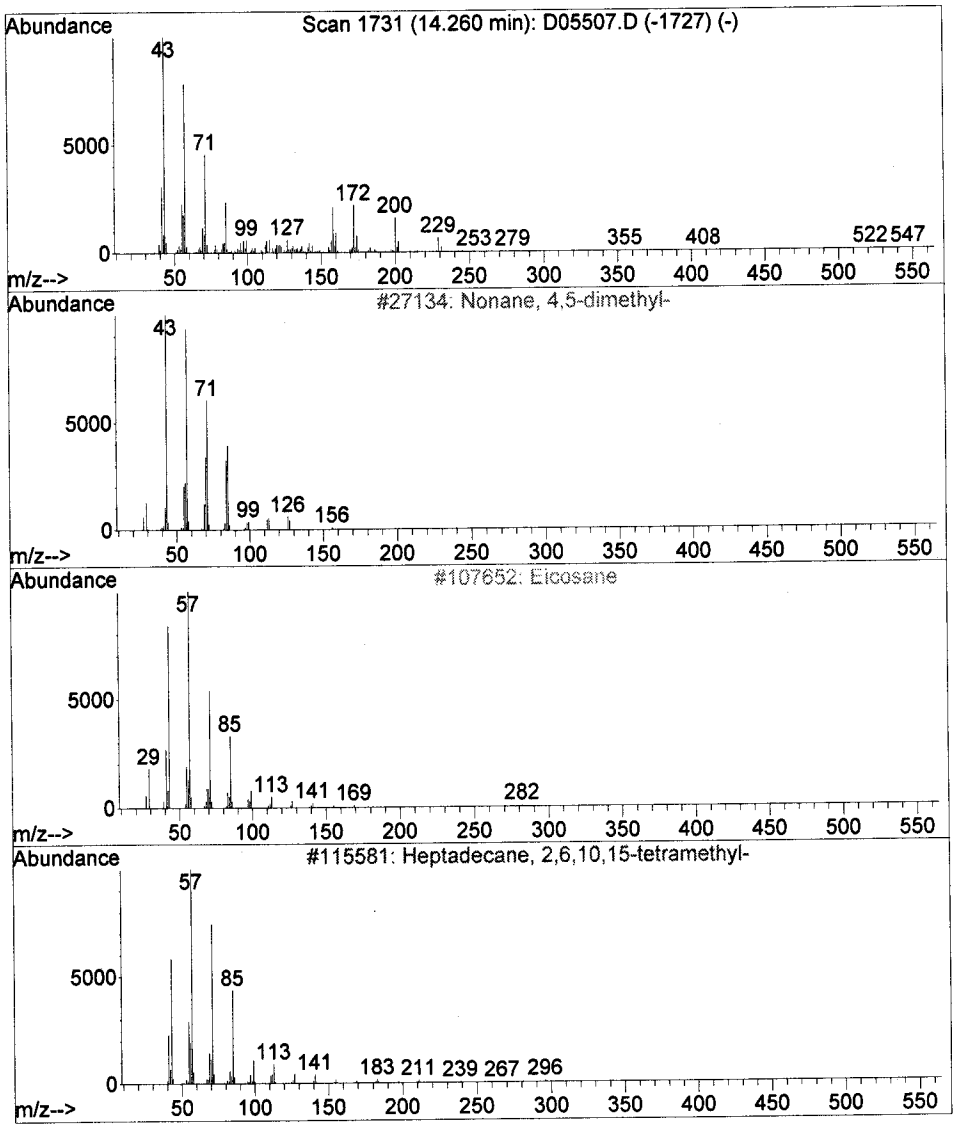
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

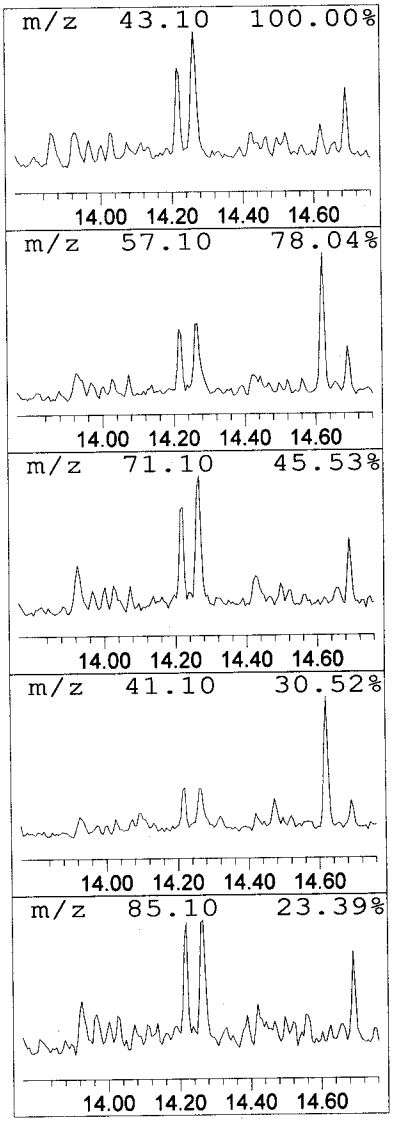
****

Peak Number 1 Nonane, 4,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	8.81 ug/L	23730400	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4,5-dimethyl-	156	C11H24	017302-23-7	49
2	Eicosane	282	C20H42	000112-95-8	46
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	46
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	43
5	Octadecane	254	C18H38	000593-45-3	43





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

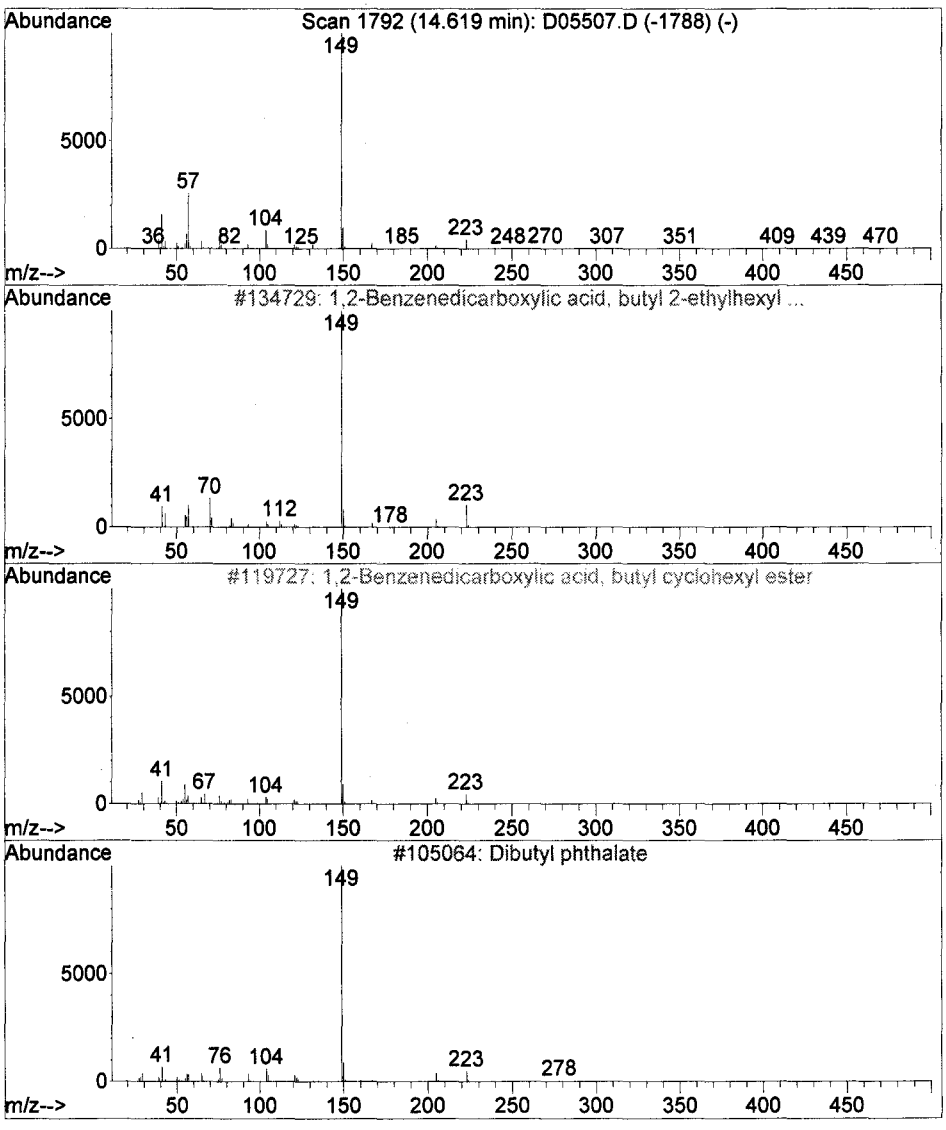
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

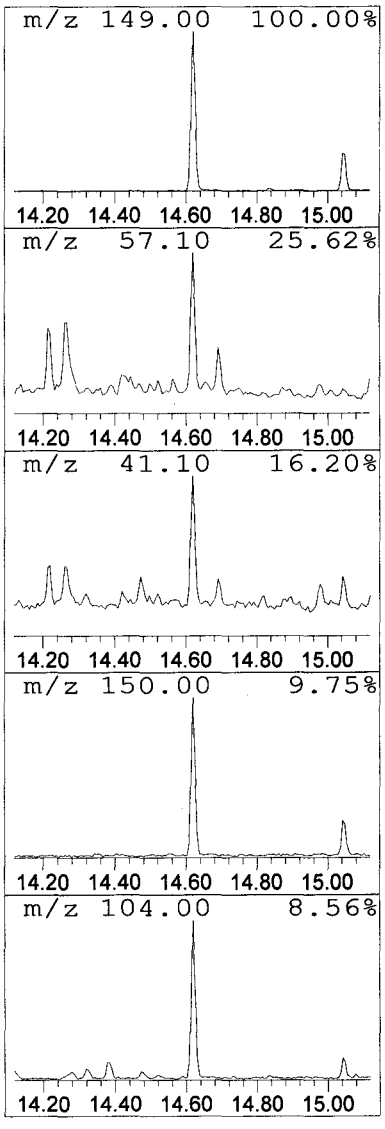
****
Peak Number 2 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	11.77 ug/L	31686000	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	78
2	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
3	Dibutyl phthalate	278	C16H22O4	000084-74-2	64
4	Dibutyl phthalate	278	C16H22O4	000084-74-2	56
5	1,2-Benzenedicarboxylic acid, di...	250	C14H18O4	000131-16-8	56





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

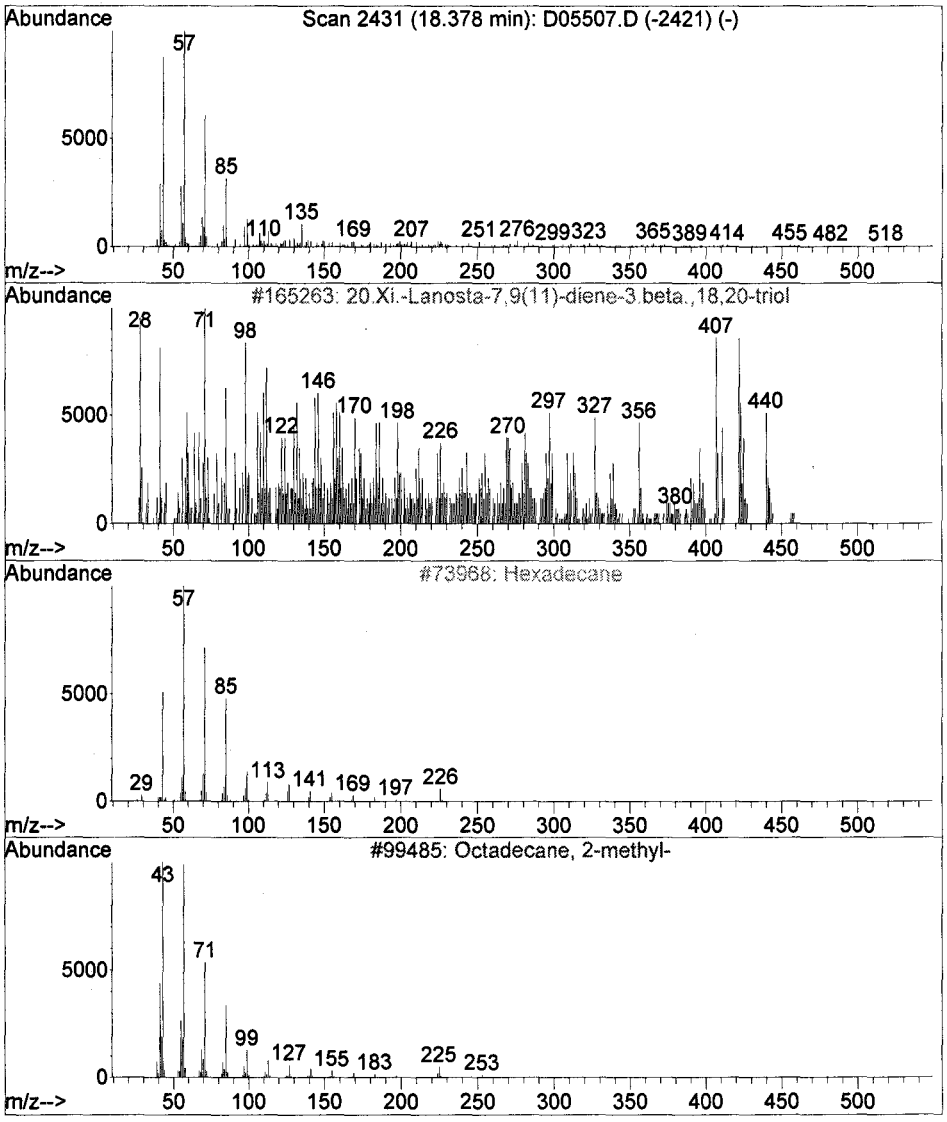
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

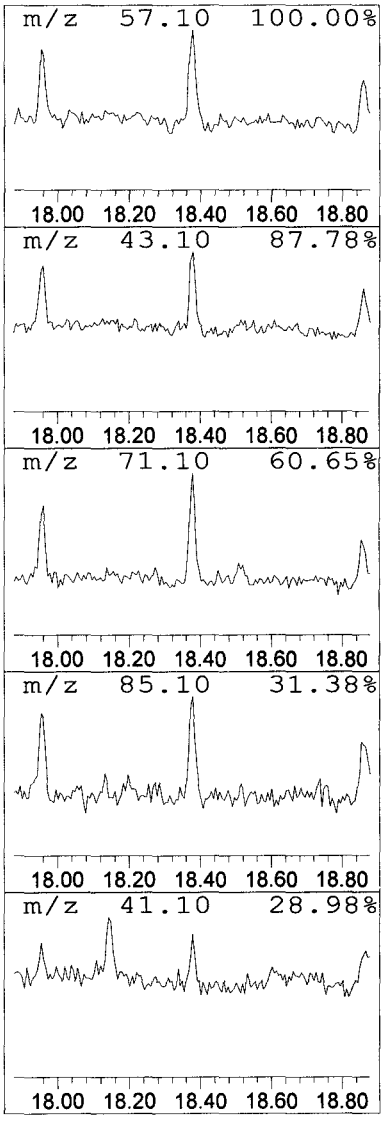
****

Peak Number 3 20.Xi.-Lanosta-7,9(11)-dien... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	10.14 ug/L	36501300	Perylene-d12	18.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	20.Xi.-Lanosta-7,9(11)-diene-3.b...	458	C30H50O3	025116-58-9	93
2	Hexadecane	226	C16H34	000544-76-3	76
3	Octadecane, 2-methyl-	268	C19H40	001560-88-9	74
4	Tridecane, 2-methyl-	198	C14H30	001560-96-9	74
5	Tricosane	324	C23H48	000638-67-5	74





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05507.D
Acq On : 12/15/11 14:09 Operator: SV
Sample : F4XQ4 Inst : D-5973
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Nonane, 4,5-dimet...	14.26	8.8	ug/L	23730400	4	14.33	53850000	20.0
1,2-Benzenedicarb...	14.62	11.8	ug/L	31686000	4	14.33	53850000	20.0
20.Xi.-Lanosta-7,...	18.38	10.1	ug/L	36501300	6	18.99	71994400	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.08

Sample wt/vol: 60.90 (g/mL) G Lab File ID: D05494

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

% Moisture: 36 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	250	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	250	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.08

Sample wt/vol: 60.90 (g/mL) G Lab File ID: D05494

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

% Moisture: 36 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250	U
100-02-7	4-Nitrophenol	250	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	250	U
534-52-1	4,6-Dinitro-2-methylphenol	250	U
86-30-6	N-Nitrosodiphenylamine 1	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	59	J
206-44-0	Fluoranthene	130	U
129-00-0	Pyrene	130	U
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	U
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.08

Sample wt/vol: 60.90 (g/mL) G Lab File ID: D05494

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

% Moisture: 36 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.15	430	J
02		Unknown-02	14.27	280	J
03		Unknown-03	14.62	370	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		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 15 10:14:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/15/11

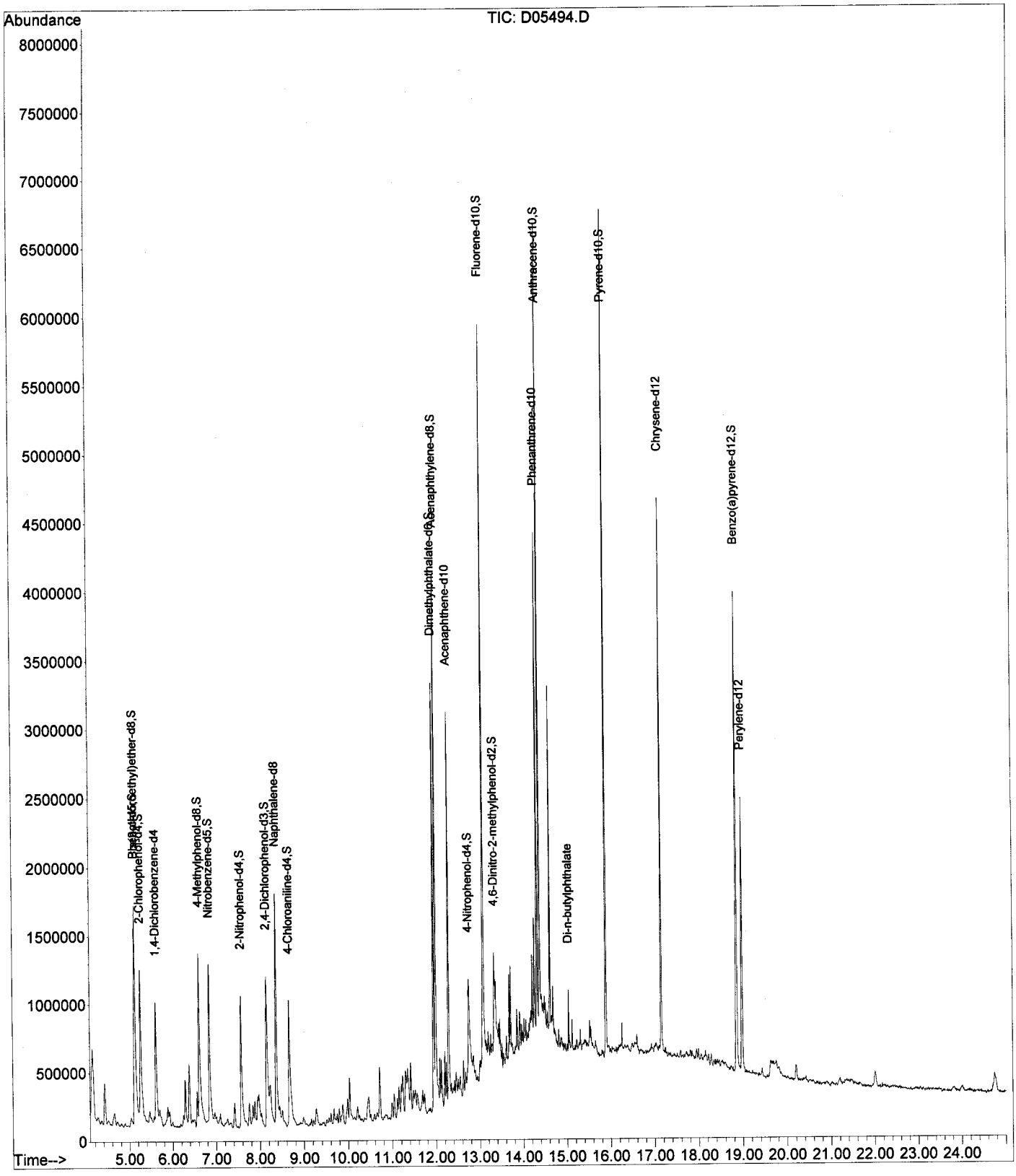
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	3163292	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	14206073	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8729380	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	14689095	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	13290020	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	11965312	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	14939736	32.3273 ug/L	0.01
Spiked Amount 40.000	Range 39 - 106		Recovery = 80.82%		
5) Bis(2-chloroethyl)ether-d8	5.12	67	5545433	29.3089 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 73.27%		
7) 2-Chlorophenol-d4	5.26	132	6809907	31.1074 ug/L	0.01
Spiked Amount 40.000	Range 41 - 106		Recovery = 77.77%		
12) 4-Methylphenol-d8	6.62	113	6209350	31.1206 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 77.80%		
17) Nitrobenzene-d5	6.85	128	3400492	32.0916 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 80.23%		
20) 2-Nitrophenol-d4	7.57	143	3734702	37.0045 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 92.51%		
24) 2,4-Dichlorophenol-d3	8.15	165	5777951	31.6053 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 79.01%		
27) 4-Chloroaniline-d4	8.67	131	7290888	35.7964 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 89.49%		
41) Acenaphthylene-d8	12.00	160	25761604	31.8273 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 79.57%		
43) Dimethylphthalate-d6	11.95	166	18109146	33.1152 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 82.79%		
49) 4-Nitrophenol-d4	12.75	143	2843255	36.7848 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 91.96%		
56) Fluorene-d10	13.09	176	15861997	30.3681 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 75.92%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1530263	32.6940 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 81.73%		
68) Anthracene-d10	14.38	188	25952345	32.9365 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 82.34%		
79) Pyrene-d10	15.89	212	25387465	33.1309 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 82.83%		
85) Benzo(a)pyrene-d12	18.86	264	17798037	31.8839 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 79.71%		
Target Compounds					Qvalue
71) Di-n-butylphthalate	15.05	149	2030823	2.3144 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

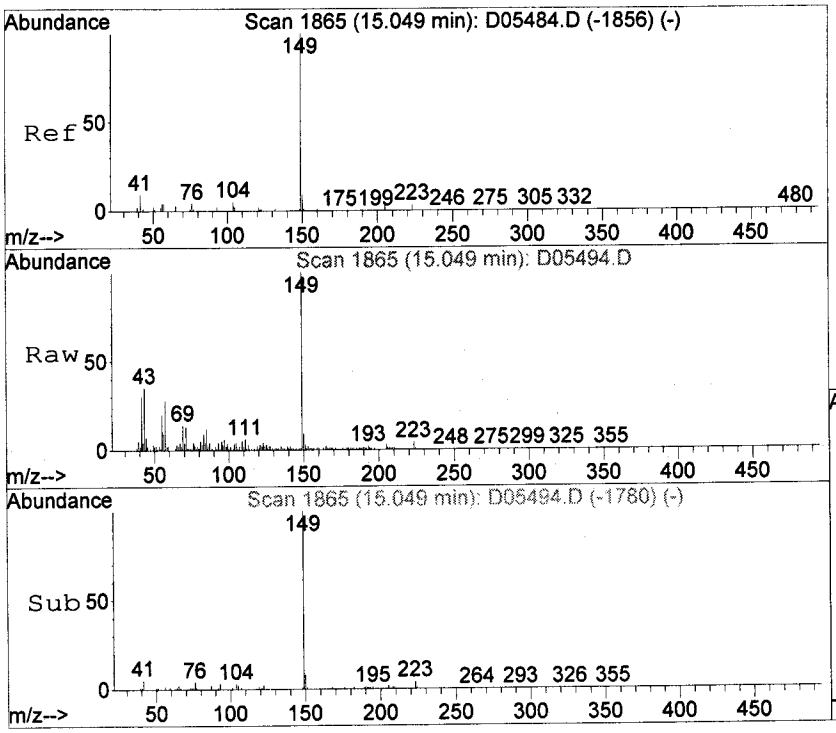
Data File: C:\MSDCHEM\1\DATA\D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 15 10:14:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



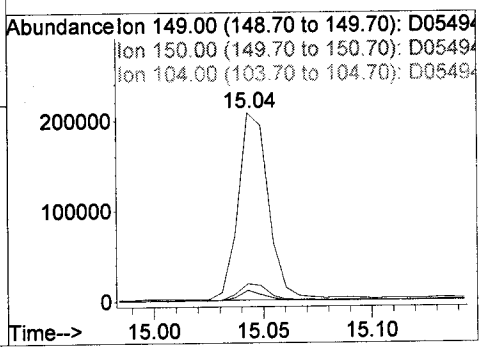
Data File : C:\MSDCHEM\1\DATA\D05494.D
Acq On : 12/14/11 18:20
Sample : F4XQ5
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 12
Operator: SV
Inst : D-5973
Multiplr: 1.00



#71
Di-n-butylphthalate
Concen: 2.31 ug/L
RT: 15.05 min Scan# 1865
Delta R.T. -0.00 min
Integration Range:
Scan=1861 to 1874
R.T.= 15.03 to 15.10 (min)
Tgt Ion:149 Resp: 2030823

Ion	Ratio	Lower	Upper
149	100		
150	9.3	8.6	12.8
104	5.6	4.6	7.0



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.144	3	11	26	PH	514495	17784756	19.73%	0.525%
2	4.267	26	32	41	PV 10	33262	884203	0.98%	0.026%
3	4.344	41	45	52	PV 7	23572	504867	0.56%	0.015%
4	4.426	52	59	70	VV 2	297401	6850525	7.60%	0.202%
5	4.508	70	73	81	VV 9	36835	819354	0.91%	0.024%
6	4.561	81	82	87	VV 5	8781	111867	0.12%	0.003%
7	4.649	87	97	104	VV 6	90871	2766087	3.07%	0.082%
8	4.720	104	109	117	VV 5	33652	884154	0.98%	0.026%
9	4.808	117	124	133	VV 7	24736	633170	0.70%	0.019%
10	4.896	133	139	144	PV 7	26450	518256	0.57%	0.015%
11	4.938	144	146	149	VV 4	7994	121589	0.13%	0.004%
12	4.979	149	153	156	VV 5	11491	197234	0.22%	0.006%
13	5.038	156	163	171	VV 8	64680	1979066	2.20%	0.058%
14	5.126	171	178	193	VV 3	1605284	43899049	48.70%	1.297%
15	5.261	193	201	221	VV	1145069	32923732	36.52%	0.973%
16	5.391	221	223	230	VV 8	52001	1386454	1.54%	0.041%
17	5.467	230	236	248	VV 5	117359	4414309	4.90%	0.130%
18	5.567	248	253	255	VV 3	78587	1498228	1.66%	0.044%
19	5.614	255	261	272	VV	903149	21115433	23.42%	0.624%
20	5.696	272	275	291	VV 4	126774	4403851	4.89%	0.130%
21	5.885	291	307	310	VV 7	147725	4231199	4.69%	0.125%
22	5.926	310	314	322	VV 2	117695	2531734	2.81%	0.075%
23	5.996	322	326	333	VV 6	37146	863913	0.96%	0.026%
24	6.049	333	335	339	VV 5	12063	222287	0.25%	0.007%
25	6.096	339	343	353	VV 5	12282	349718	0.39%	0.010%
26	6.179	353	357	362	VV 6	28484	499493	0.55%	0.015%
27	6.249	362	369	371	VV 3	89996	1717167	1.90%	0.051%
28	6.290	371	376	385	VV	349159	7277721	8.07%	0.215%
29	6.385	385	392	400	VV 3	457992	10954756	12.15%	0.324%
30	6.455	400	404	407	VV 5	59070	1231642	1.37%	0.036%
31	6.502	407	412	417	VV 6	59699	1674104	1.86%	0.049%
32	6.567	417	423	427	VV	269525	4592827	5.09%	0.136%
33	6.614	427	431	458	VV	1241804	33380329	37.03%	0.986%
34	6.849	458	471	487	VV	1203384	28185832	31.27%	0.833%
35	6.967	487	491	495	VV 4	111075	2566743	2.85%	0.076%
36	7.002	495	497	505	VV 8	81494	1913074	2.12%	0.057%
37	7.090	505	512	517	VV 3	101628	2675099	2.97%	0.079%
38	7.126	517	518	523	VV 4	35635	625035	0.69%	0.018%
39	7.167	523	525	527	VV 3	22446	228388	0.25%	0.007%
40	7.196	527	530	532	VV 4	33662	452776	0.50%	0.013%
41	7.255	532	540	546	VV 5	67232	2118396	2.35%	0.063%
42	7.308	546	549	552	VV 5	37061	754904	0.84%	0.022%
43	7.343	552	555	559	VV 4	38099	576665	0.64%	0.017%
44	7.420	559	568	577	VV	181311	3821719	4.24%	0.113%

0521

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	7.490	577	580	584	VV	6	15208	208488	0.23%	0.006%
46	7.573	584	594	619	PV		947996	22169844	24.59%	0.655%
47	7.755	619	625	632	VV	3	177089	3923257	4.35%	0.116%
48	7.837	632	639	643	VV	2	162618	3394073	3.76%	0.100%
49	7.879	643	646	652	VV	2	191436	3856808	4.28%	0.114%
50	7.949	652	658	660	VV	3	226209	4411140	4.89%	0.130%
51	7.973	660	662	669	VV		239277	5191458	5.76%	0.153%
52	8.032	669	672	684	VV	2	106121	2595645	2.88%	0.077%
53	8.155	684	693	702	VV	2	1092214	26269816	29.14%	0.776%
54	8.237	702	707	722	VV	3	309980	11176069	12.40%	0.330%
55	8.373	722	730	739	VV		1656109	32416225	35.96%	0.958%
56	8.443	739	742	747	VV	2	155499	3306957	3.67%	0.098%
57	8.508	747	753	757	VV	3	123510	2819861	3.13%	0.083%
58	8.543	757	759	769	VV	9	45610	1212611	1.35%	0.036%
59	8.667	769	780	796	VV		928894	24771931	27.48%	0.732%
60	8.767	796	797	807	VV	9	60129	1462946	1.62%	0.043%
61	8.831	807	808	812	VV	4	18045	267672	0.30%	0.008%
62	8.867	812	814	819	VV	6	17571	360124	0.40%	0.011%
63	8.920	819	823	826	VV	6	28695	585868	0.65%	0.017%
64	8.984	826	834	843	VV	5	64107	1948320	2.16%	0.058%
65	9.049	843	845	853	VV	8	18567	385395	0.43%	0.011%
66	9.131	853	859	861	VV	7	19673	270874	0.30%	0.008%
67	9.161	861	864	869	VV	3	49692	695933	0.77%	0.021%
68	9.214	869	873	877	PV	7	43372	696876	0.77%	0.021%
69	9.273	877	883	891	VV	2	126984	3278101	3.64%	0.097%
70	9.326	891	892	897	VV	5	25124	283437	0.31%	0.008%
71	9.373	897	900	903	VV	4	16168	193266	0.21%	0.006%
72	9.443	903	912	916	VV	9	23590	692515	0.77%	0.020%
73	9.514	916	924	928	VV	5	41562	857936	0.95%	0.025%
74	9.561	928	932	935	VV	5	56432	946229	1.05%	0.028%
75	9.608	935	940	945	VV		81176	1334321	1.48%	0.039%
76	9.673	945	951	956	VV	3	118263	2134131	2.37%	0.063%
77	9.708	956	957	960	VV	3	44475	562489	0.62%	0.017%
78	9.743	960	963	967	VV		82196	1270596	1.41%	0.038%
79	9.790	967	971	976	VV	2	114930	1883781	2.09%	0.056%
80	9.873	976	985	994	VV	4	146978	3956530	4.39%	0.117%
81	9.984	994	1004	1008	VV	3	184966	4350738	4.83%	0.129%
82	10.031	1008	1012	1018	VV		335306	6258595	6.94%	0.185%
83	10.078	1018	1020	1027	VV	7	65079	1431003	1.59%	0.042%
84	10.137	1027	1030	1036	VV	8	50870	1264788	1.40%	0.037%
85	10.208	1036	1042	1046	VV	2	127591	2911030	3.23%	0.086%
86	10.249	1046	1049	1052	VV	4	63471	1059960	1.18%	0.031%
87	10.278	1052	1054	1057	VV	3	37363	517460	0.57%	0.015%
88	10.314	1057	1060	1064	VV	6	36055	636588	0.71%	0.019%
89	10.361	1064	1068	1075	VV	9	41467	1178293	1.31%	0.035%
90	10.461	1075	1085	1090	VV	4	191980	6226106	6.91%	0.184%
91	10.502	1090	1092	1102	VV	7	67554	1410200	1.56%	0.042%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	10.590	1102	1107	1110	VV	3	62838	1303035	1.45%	0.038%
93	10.649	1110	1117	1121	VV	5	75463	1953625	2.17%	0.058%
94	10.714	1121	1128	1139	VV		407913	8998101	9.98%	0.266%
95	10.802	1139	1143	1145	VV	5	41504	723781	0.80%	0.021%
96	10.843	1145	1150	1153	VV	7	57298	1265539	1.40%	0.037%
97	10.873	1153	1155	1161	VV	5	53433	1202033	1.33%	0.036%
98	10.920	1161	1163	1165	VV	3	33577	363591	0.40%	0.011%
99	10.937	1165	1166	1168	VV	3	34443	378359	0.42%	0.011%
100	10.990	1168	1175	1179	VV	2	142496	3043597	3.38%	0.090%
101	11.037	1179	1183	1191	VV	2	201360	4068602	4.51%	0.120%
102	11.114	1191	1196	1199	VV	2	169009	2702728	3.00%	0.080%
103	11.149	1199	1202	1207	VV	2	257364	4815405	5.34%	0.142%
104	11.202	1207	1211	1214	VV		272330	4247282	4.71%	0.125%
105	11.237	1214	1217	1223	VV	3	336498	7314682	8.11%	0.216%
106	11.302	1223	1228	1234	VV	3	359363	9968812	11.06%	0.295%
107	11.355	1234	1237	1244	VV	5	384866	10547157	11.70%	0.312%
108	11.425	1244	1249	1253	VV		420920	8604726	9.54%	0.254%
109	11.484	1253	1259	1262	VV	4	222928	4986125	5.53%	0.147%
110	11.525	1262	1266	1270	VV	4	226133	5430231	6.02%	0.160%
111	11.572	1270	1274	1282	VV	3	201557	5920855	6.57%	0.175%
112	11.690	1282	1294	1298	VV		225242	7115102	7.89%	0.210%
113	11.731	1298	1301	1311	VV	3	194719	5169792	5.73%	0.153%
114	11.837	1311	1319	1322	VV	10	89316	2706986	3.00%	0.080%
115	11.872	1322	1325	1328	VV	4	92066	1787082	1.98%	0.053%
116	11.949	1328	1338	1342	VV		3157600	44014275	48.82%	1.300%
117	11.996	1342	1346	1358	VV		3972194	63250995	70.16%	1.869%
118	12.090	1358	1362	1365	VV		456287	7000081	7.76%	0.207%
119	12.125	1365	1368	1375	VV		426801	8302544	9.21%	0.245%
120	12.202	1375	1381	1385	VV		487640	9111500	10.11%	0.269%
121	12.243	1385	1388	1391	VV		418715	6108572	6.78%	0.180%
122	12.290	1391	1396	1404	VV		2875935	44362544	49.21%	1.311%
123	12.349	1404	1406	1411	VV	4	263254	5586460	6.20%	0.165%
124	12.396	1411	1414	1416	VV	4	228122	3863190	4.29%	0.114%
125	12.419	1416	1418	1421	VV	4	275754	4153696	4.61%	0.123%
126	12.461	1421	1425	1430	VV	2	339402	7981958	8.85%	0.236%
127	12.502	1430	1432	1436	VV	4	286473	5693890	6.32%	0.168%
128	12.555	1436	1441	1448	VV	4	315164	9367663	10.39%	0.277%
129	12.631	1448	1454	1458	VV		422687	9546917	10.59%	0.282%
130	12.678	1458	1462	1466	VV	2	336979	8410347	9.33%	0.248%
131	12.755	1466	1475	1486	VV	4	1020726	41302290	45.81%	1.220%
132	12.825	1486	1487	1489	VV	2	432140	5407732	6.00%	0.160%
133	12.861	1489	1493	1498	VV	4	459327	11463637	12.72%	0.339%
134	12.902	1498	1500	1503	VV	4	351499	6621576	7.35%	0.196%
135	12.955	1503	1509	1513	VV	7	302096	9644047	10.70%	0.285%
136	13.008	1513	1518	1521	VV	4	421266	10232186	11.35%	0.302%
137	13.037	1521	1523	1524	VV	2	422827	4915442	5.45%	0.145%
138	13.090	1524	1532	1540	VV		5532283	90150254	100.00%	2.663%
139	13.149	1540	1542	1544	VV	3	569028	7050762	7.82%	0.208%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	13.166	1544	1545	1548	VV	3	537941	6791688	7.53%	0.201%
141	13.202	1548	1551	1556	VV		630508	16493984	18.30%	0.487%
142	13.261	1556	1561	1563	VV	2	608778	12497293	13.86%	0.369%
143	13.296	1563	1567	1570	VV	3	542145	11588551	12.85%	0.342%
144	13.343	1570	1575	1579	VV	2	1183151	29024117	32.20%	0.857%
145	13.378	1579	1581	1589	VV	3	976949	26410129	29.30%	0.780%
146	13.437	1589	1591	1594	VV	2	681222	11387696	12.63%	0.336%
147	13.466	1594	1596	1602	VV	2	699824	15183693	16.84%	0.449%
148	13.519	1602	1605	1607	VV		531863	8379838	9.30%	0.248%
149	13.549	1607	1610	1612	VV	2	467844	6696368	7.43%	0.198%
150	13.566	1612	1613	1615	VV	2	436311	5026316	5.58%	0.148%
151	13.619	1615	1622	1627	VV	3	588084	19040840	21.12%	0.563%
152	13.684	1627	1633	1636	VV		990526	19358895	21.47%	0.572%
153	13.714	1636	1638	1642	VV		1045960	16969302	18.82%	0.501%
154	13.749	1642	1644	1648	VV	5	535569	11154696	12.37%	0.330%
155	13.802	1648	1653	1655	VV	7	479078	10331457	11.46%	0.305%
156	13.825	1655	1657	1658	VV	2	506424	6156534	6.83%	0.182%
157	13.866	1658	1664	1671	VV	3	781788	25974266	28.81%	0.767%
158	13.931	1671	1675	1679	VV	2	760986	18291192	20.29%	0.540%
159	13.972	1679	1682	1685	VV	3	666918	12105404	13.43%	0.358%
160	14.002	1685	1687	1689	VV	2	611467	8408073	9.33%	0.248%
161	14.031	1689	1692	1695	VV		709853	12636315	14.02%	0.373%
162	14.072	1695	1699	1702	VV	2	689492	14848285	16.47%	0.439%
163	14.113	1702	1706	1708	VV	4	607828	13102857	14.53%	0.387%
164	14.137	1708	1710	1712	VV	2	668279	9005162	9.99%	0.266%
165	14.184	1712	1718	1721	VV	7	756465	21621316	23.98%	0.639%
166	14.219	1721	1724	1727	VV		1162903	19435966	21.56%	0.574%
167	14.266	1727	1732	1738	VV		1437071	33282086	36.92%	0.983%
168	14.325	1738	1742	1748	VV		4092283	61011121	67.68%	1.803%
169	14.384	1748	1752	1757	VV		6372825	85688981	95.05%	2.532%
170	14.425	1757	1759	1764	VV	4	885732	18628915	20.66%	0.550%
171	14.466	1764	1766	1769	VV	3	818094	15909760	17.65%	0.470%
172	14.496	1769	1771	1774	VV	3	855254	11467964	12.72%	0.339%
173	14.519	1774	1775	1780	VV	3	818919	17894815	19.85%	0.529%
174	14.566	1780	1783	1787	VV	4	753016	15738860	17.46%	0.465%
175	14.619	1787	1792	1797	VV		2873053	44230589	49.06%	1.307%
176	14.660	1797	1799	1801	VV	2	721163	11044566	12.25%	0.326%
177	14.690	1801	1804	1809	VV		917132	18833234	20.89%	0.556%
178	14.725	1809	1810	1812	VV	2	622276	7982551	8.85%	0.236%
179	14.749	1812	1814	1823	VV	10	597516	20417868	22.65%	0.603%
180	14.819	1823	1826	1830	VV	3	616577	13808274	15.32%	0.408%
181	14.872	1830	1835	1845	VV	9	558965	26486948	29.38%	0.783%
182	14.943	1845	1847	1850	VV	4	513510	9604147	10.65%	0.284%
183	14.972	1850	1852	1855	VV	4	510518	8674516	9.62%	0.256%
184	15.013	1855	1859	1861	VV	3	507794	10341334	11.47%	0.306%
185	15.049	1861	1865	1872	VV		898231	22958780	25.47%	0.678%
186	15.125	1872	1878	1882	VV	2	661469	18425897	20.44%	0.544%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	15.166	1882	1885	1887	VV	4	473123	7679892	8.52%	0.227%
188	15.196	1887	1890	1892	VV	4	498415	8070247	8.95%	0.238%
189	15.231	1892	1896	1900	VV	6	538473	15252868	16.92%	0.451%
190	15.290	1900	1906	1908	VV	6	513864	12611352	13.99%	0.373%
191	15.313	1908	1910	1915	VV	5	614466	14264382	15.82%	0.421%
192	15.366	1915	1919	1920	VV	3	505952	8291165	9.20%	0.245%
193	15.384	1920	1922	1923	VV	2	510880	6033161	6.69%	0.178%
194	15.408	1923	1926	1929	VV	5	535077	9679190	10.74%	0.286%
195	15.437	1929	1931	1934	VV	4	531269	10080708	11.18%	0.298%
196	15.466	1934	1936	1941	VV	6	511121	12014719	13.33%	0.355%
197	15.525	1941	1946	1948	VV	2	660169	14666455	16.27%	0.433%
198	15.549	1948	1950	1956	VV	6	623916	14777849	16.39%	0.437%
199	15.596	1956	1958	1965	VV	8	506587	14531793	16.12%	0.429%
200	15.660	1965	1969	1978	VV	5	517331	22411074	24.86%	0.662%
201	15.731	1978	1981	1988	VV	9	436315	15031087	16.67%	0.444%
202	15.807	1988	1994	1996	VV	6	450613	11887420	13.19%	0.351%
203	15.831	1996	1998	2002	VV	5	443906	8756485	9.71%	0.259%
204	15.896	2002	2009	2016	VV		6542508	85954756	95.35%	2.539%
205	15.960	2016	2020	2025	VV	8	484888	14775271	16.39%	0.437%
206	16.002	2025	2027	2030	VV	4	458447	8961292	9.94%	0.265%
207	16.037	2030	2033	2036	VV	4	473707	8957402	9.94%	0.265%
208	16.078	2036	2040	2042	VV	5	461887	10172239	11.28%	0.301%
209	16.102	2042	2044	2046	VV	3	447848	4928033	5.47%	0.146%
210	16.131	2046	2049	2051	VV	4	468629	9207645	10.21%	0.272%
211	16.202	2051	2061	2063	VV	10	484170	18972284	21.05%	0.561%
212	16.231	2063	2066	2068	VV	4	486665	8300912	9.21%	0.245%
213	16.266	2068	2072	2075	VV	2	626902	13950046	15.47%	0.412%
214	16.296	2075	2077	2078	VV	2	464101	4774046	5.30%	0.141%
215	16.331	2078	2083	2087	VV	8	481563	13601279	15.09%	0.402%
216	16.390	2087	2093	2104	VV	8	478629	27628095	30.65%	0.816%
217	16.496	2104	2111	2115	VV	9	492349	19402167	21.52%	0.573%
218	16.531	2115	2117	2118	VV	2	472123	4709591	5.22%	0.139%
219	16.554	2118	2121	2124	VV	5	498997	9727051	10.79%	0.287%
220	16.602	2124	2129	2132	VV	4	549502	14568925	16.16%	0.430%
221	16.625	2132	2133	2139	VV	6	467844	10034407	11.13%	0.296%
222	16.690	2139	2144	2149	VV	9	444428	15702485	17.42%	0.464%
223	16.725	2149	2150	2157	VV	7	435820	11740278	13.02%	0.347%
224	16.778	2157	2159	2160	VV	2	423771	5037400	5.59%	0.149%
225	16.802	2160	2163	2166	VV	5	434097	8254214	9.16%	0.244%
226	16.843	2166	2170	2174	VV	7	432207	12056653	13.37%	0.356%
227	16.878	2174	2176	2178	VV	3	430888	6070095	6.73%	0.179%
228	16.902	2178	2180	2182	VV	3	445791	6035768	6.70%	0.178%
229	16.931	2182	2185	2188	VV	4	479229	9676783	10.73%	0.286%
230	16.960	2188	2190	2193	VV	3	452369	9159882	10.16%	0.271%
231	17.019	2193	2200	2202	VV	8	481186	13413199	14.88%	0.396%
232	17.043	2202	2204	2211	VV	8	485010	15219626	16.88%	0.450%
233	17.107	2211	2215	2218	VV	6	464645	10163469	11.27%	0.300%
234	17.154	2218	2223	2232	VV		4179211	60985583	67.65%	1.802%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	17.219	2232	2234	2237	VV	4	428141	7321412	8.12%	0.216%
236	17.249	2237	2239	2242	VV	4	446938	7911649	8.78%	0.234%
237	17.278	2242	2244	2248	VV	5	415736	8106599	8.99%	0.240%
238	17.319	2248	2251	2256	VV	7	408378	11692487	12.97%	0.345%
239	17.366	2256	2259	2264	VV	6	408636	11286304	12.52%	0.333%
240	17.407	2264	2266	2270	VV	5	391542	7711384	8.55%	0.228%
241	17.443	2270	2272	2274	VV	3	399668	5780493	6.41%	0.171%
242	17.466	2274	2276	2280	VV	5	396764	8525089	9.46%	0.252%
243	17.519	2280	2285	2293	VV	5	400400	16510563	18.31%	0.488%
244	17.590	2293	2297	2301	VV	4	417608	11220006	12.45%	0.331%
245	17.637	2301	2305	2309	VV	7	387519	10683124	11.85%	0.316%
246	17.672	2309	2311	2314	VV	4	389239	6953202	7.71%	0.205%
247	17.731	2314	2321	2327	VV	4	409010	18087037	20.06%	0.534%
248	17.784	2327	2330	2332	VV	4	386563	6385718	7.08%	0.189%
249	17.813	2332	2335	2339	VV	3	417564	9785633	10.85%	0.289%
250	17.849	2339	2341	2344	VV	4	414630	7474969	8.29%	0.221%
251	17.872	2344	2345	2349	VV	4	384957	7321783	8.12%	0.216%
252	17.907	2349	2351	2353	VV	3	368392	4789478	5.31%	0.141%
253	17.954	2353	2359	2363	VV	8	426406	13889391	15.41%	0.410%
254	17.996	2363	2366	2371	VV	3	421846	9683169	10.74%	0.286%
255	18.054	2371	2376	2384	VV	9	388081	17400352	19.30%	0.514%
256	18.125	2384	2388	2390	VV	5	376724	7332556	8.13%	0.217%
257	18.154	2390	2393	2400	VV	8	410912	13257554	14.71%	0.392%
258	18.225	2400	2405	2409	VV	4	385316	11850885	13.15%	0.350%
259	18.284	2409	2415	2421	VV	2	381141	13793194	15.30%	0.408%
260	18.348	2421	2426	2429	VV	7	340586	8761268	9.72%	0.259%
261	18.384	2429	2432	2434	VV	4	344255	5581506	6.19%	0.165%
262	18.419	2434	2438	2442	VV	6	340340	9180934	10.18%	0.271%
263	18.460	2442	2445	2449	VV	5	335110	8033762	8.91%	0.237%
264	18.531	2449	2457	2460	VV	10	331542	12446004	13.81%	0.368%
265	18.560	2460	2462	2464	VV	3	320536	4608023	5.11%	0.136%
266	18.596	2464	2468	2473	VV	8	319964	9643193	10.70%	0.285%
267	18.631	2473	2474	2486	VV	8	298242	13011651	14.43%	0.384%
268	18.737	2486	2492	2501	VV	8	291918	14533723	16.12%	0.429%
269	18.801	2501	2503	2505	VV	3	261512	3309358	3.67%	0.098%
270	18.860	2505	2513	2524	VV		3642809	70412761	78.11%	2.080%
271	18.931	2524	2525	2528	VV	3	287681	4064882	4.51%	0.120%
272	18.984	2528	2534	2546	VV		2196233	48824905	54.16%	1.442%
273	19.072	2546	2549	2551	VV	4	259811	3718692	4.12%	0.110%
274	19.096	2551	2553	2555	VV	3	251663	3290081	3.65%	0.097%
275	19.113	2555	2556	2563	VV	7	243245	6945382	7.70%	0.205%
276	19.160	2563	2564	2569	VV	5	237648	4917579	5.45%	0.145%
277	19.201	2569	2571	2572	VV	2	231993	2344138	2.60%	0.069%
278	19.213	2572	2573	2575	VV	2	248286	2969281	3.29%	0.088%
279	19.237	2575	2577	2580	VV	4	236504	4150124	4.60%	0.123%
280	19.284	2580	2585	2589	VV	8	232066	6663937	7.39%	0.197%
281	19.313	2589	2590	2596	VV	6	229030	6137870	6.81%	0.181%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.366	2596	2599	2605	VV	8	231404	6805196	7.55%	0.201%
283	19.431	2605	2610	2618	VV	5	257563	9793861	10.86%	0.289%
284	19.548	2618	2630	2632	VV	5	210654	10507455	11.66%	0.310%
285	19.631	2632	2644	2648	VV	7	314787	13800756	15.31%	0.408%
286	19.666	2648	2650	2652	VV	3	306986	4702027	5.22%	0.139%
287	19.690	2652	2654	2658	VV	5	312809	5816725	6.45%	0.172%
288	19.754	2658	2665	2670	VV	10	313676	12429271	13.79%	0.367%
289	19.813	2670	2675	2682	VV	10	266590	10620806	11.78%	0.314%
290	19.860	2682	2683	2689	VV	6	225443	5435192	6.03%	0.161%
291	19.907	2689	2691	2704	VV	6	201567	10273471	11.40%	0.304%
292	20.013	2704	2709	2716	VV	6	198376	7455472	8.27%	0.220%
293	20.084	2716	2721	2735	VV	6	181498	11863151	13.16%	0.350%
294	20.201	2735	2741	2750	VV		274643	11101512	12.31%	0.328%
295	20.266	2750	2752	2755	VV	4	176722	3267627	3.62%	0.097%
296	20.295	2755	2757	2766	VV	10	170751	6292460	6.98%	0.186%
297	20.360	2766	2768	2770	VV	3	177786	2263321	2.51%	0.067%
298	20.413	2770	2777	2789	VV	3	178592	10971462	12.17%	0.324%
299	20.507	2789	2793	2795	VV	5	163251	3472371	3.85%	0.103%
300	20.531	2795	2797	2800	VV	4	161594	2624613	2.91%	0.078%
301	20.560	2800	2802	2805	VV	4	158692	2752654	3.05%	0.081%
302	20.590	2805	2807	2818	VV	4	159675	6473401	7.18%	0.191%
303	20.672	2818	2821	2823	VV	4	148396	2521231	2.80%	0.074%
304	20.695	2823	2825	2827	VV	3	145188	2293481	2.54%	0.068%
305	20.719	2827	2829	2831	VV	3	136718	1523021	1.69%	0.045%
306	20.742	2831	2833	2838	VV	6	145803	3447089	3.82%	0.102%
307	20.831	2838	2848	2850	VV	6	136536	5741286	6.37%	0.170%
308	20.901	2850	2860	2864	VV	6	145843	6726834	7.46%	0.199%
309	20.937	2864	2866	2869	VV	4	133573	2150076	2.38%	0.064%
310	20.966	2869	2871	2873	VV	3	122411	1654584	1.84%	0.049%
311	21.019	2873	2880	2885	VV	3	138384	5313273	5.89%	0.157%
312	21.060	2885	2887	2889	VV	3	128691	1605094	1.78%	0.047%
313	21.084	2889	2891	2893	VV	3	122699	2010333	2.23%	0.059%
314	21.119	2893	2897	2900	VV	6	129027	3021776	3.35%	0.089%
315	21.201	2900	2911	2919	VV	6	165272	9373121	10.40%	0.277%
316	21.272	2919	2923	2926	VV	6	136987	3076748	3.41%	0.091%
317	21.307	2926	2929	2933	VV	5	144354	3390051	3.76%	0.100%
318	21.348	2933	2936	2940	VV	6	146370	3578681	3.97%	0.106%
319	21.389	2940	2943	2944	VV	3	146706	2036930	2.26%	0.060%
320	21.466	2944	2956	2962	VV	3	148641	8896715	9.87%	0.263%
321	21.507	2962	2963	2967	VV	4	135501	2056080	2.28%	0.061%
322	21.542	2967	2969	2973	VV	5	135731	2865207	3.18%	0.085%
323	21.578	2973	2975	2977	VV	3	125025	1588103	1.76%	0.047%
324	21.595	2977	2978	2980	VV	2	118930	1147182	1.27%	0.034%
325	21.619	2980	2982	2983	VV	2	119680	1438504	1.60%	0.042%
326	21.637	2983	2985	2995	VV	2	123849	4979876	5.52%	0.147%
327	21.701	2995	2996	3004	VV	8	108431	2961538	3.29%	0.087%
328	21.766	3004	3007	3014	VV	9	110102	3719857	4.13%	0.110%
329	21.819	3014	3016	3017	VV	2	100833	1050252	1.17%	0.031%

0327

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.837	3017	3019	3025	VV	6	103970	2684554	2.98%	0.079%
331	21.895	3025	3029	3032	VV	6	99551	2164843	2.40%	0.064%
332	21.954	3032	3039	3041	VV	8	106265	3116335	3.46%	0.092%
333	22.007	3041	3048	3059	VV	8	198607	8884093	9.85%	0.262%
334	22.084	3059	3061	3064	VV	4	95716	1674721	1.86%	0.049%
335	22.119	3064	3067	3070	VV	5	104352	1797726	1.99%	0.053%
336	22.166	3070	3075	3077	VV	6	104965	2414739	2.68%	0.071%
337	22.195	3077	3080	3081	VV	3	97344	1362450	1.51%	0.040%
338	22.213	3081	3083	3086	VV	4	102206	1562263	1.73%	0.046%
339	22.242	3086	3088	3091	VV	4	99666	1582298	1.76%	0.047%
340	22.272	3091	3093	3095	VV	3	91657	1234398	1.37%	0.036%
341	22.295	3095	3097	3099	VV	3	95863	1413657	1.57%	0.042%
342	22.319	3099	3101	3103	VV	3	84612	1169138	1.30%	0.035%
343	22.354	3103	3107	3109	VV	5	86549	1688153	1.87%	0.050%
344	22.384	3109	3112	3113	VV	3	89308	1105487	1.23%	0.033%
345	22.413	3113	3117	3119	VV	5	94694	1919727	2.13%	0.057%
346	22.460	3119	3125	3129	VV	9	90394	2895716	3.21%	0.086%
347	22.501	3129	3132	3138	VV	8	84941	2579488	2.86%	0.076%
348	22.554	3138	3141	3142	VV	3	81778	1148062	1.27%	0.034%
349	22.572	3142	3144	3148	VV	5	86108	1471714	1.63%	0.043%
350	22.607	3148	3150	3152	VV	3	82559	1096050	1.22%	0.032%
351	22.631	3152	3154	3157	VV	4	75342	1303188	1.45%	0.039%
352	22.660	3157	3159	3163	VV	5	75351	1460857	1.62%	0.043%
353	22.695	3163	3165	3172	VV	8	71202	2091002	2.32%	0.062%
354	22.742	3172	3173	3175	VV	2	61682	654609	0.73%	0.019%
355	22.778	3175	3179	3183	VV	7	64051	1616224	1.79%	0.048%
356	22.825	3183	3187	3189	VV	5	70656	1440996	1.60%	0.043%
357	22.848	3189	3191	3193	VV	3	58922	688380	0.76%	0.020%
358	22.866	3193	3194	3198	VV	4	59863	1039049	1.15%	0.031%
359	22.895	3198	3199	3203	VV	4	63346	1117594	1.24%	0.033%
360	22.936	3203	3206	3213	VV	9	71979	2291951	2.54%	0.068%
361	22.989	3213	3215	3218	VV	4	67226	1188030	1.32%	0.035%
362	23.036	3218	3223	3229	VV	10	72251	2351878	2.61%	0.069%
363	23.101	3229	3234	3235	VV	5	62221	1125994	1.25%	0.033%
364	23.113	3235	3236	3242	VV	6	65703	1479947	1.64%	0.044%
365	23.172	3242	3246	3249	VV	6	59783	1174083	1.30%	0.035%
366	23.195	3249	3250	3251	VV		51332	471249	0.52%	0.014%
367	23.219	3251	3254	3259	VV	7	62473	1517481	1.68%	0.045%
368	23.260	3259	3261	3263	VV	2	59858	666486	0.74%	0.020%
369	23.278	3263	3264	3271	VV	7	58046	1539111	1.71%	0.045%
370	23.331	3271	3273	3278	VV	6	60318	1468877	1.63%	0.043%
371	23.383	3278	3282	3290	VV	6	56815	2026037	2.25%	0.060%
372	23.436	3290	3291	3296	VV	5	52500	998163	1.11%	0.029%
373	23.472	3296	3297	3303	VV	6	58966	1347330	1.49%	0.040%
374	23.519	3303	3305	3309	VV	5	50328	853609	0.95%	0.025%
375	23.572	3309	3314	3324	VV	5	45863	2024273	2.25%	0.060%
376	23.648	3324	3327	3329	VV	4	39076	594205	0.66%	0.018%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.672	3329	3331	3335	VV	4	47239	750413	0.83%	0.022%
378	23.713	3335	3338	3339	VV	3	39238	560656	0.62%	0.017%
379	23.730	3339	3341	3344	VV	4	37493	532074	0.59%	0.016%
380	23.795	3344	3352	3353	VV	8	54924	1350421	1.50%	0.040%
381	23.819	3353	3356	3368	VV	8	61952	2455218	2.72%	0.073%
382	23.901	3368	3370	3375	VV	6	39223	864017	0.96%	0.026%
383	24.001	3375	3387	3397	VV	6	63984	3390107	3.76%	0.100%
384	24.083	3397	3401	3403	VV	5	33453	650110	0.72%	0.019%
385	24.113	3403	3406	3408	VV	4	32084	489578	0.54%	0.014%
386	24.136	3408	3410	3414	VV	5	34942	710646	0.79%	0.021%
387	24.183	3414	3418	3420	VV	5	40848	662528	0.73%	0.020%
388	24.207	3420	3422	3424	VV	3	36278	407066	0.45%	0.012%
389	24.230	3424	3426	3430	VV	5	34848	564962	0.63%	0.017%
390	24.266	3430	3432	3433	VV	2	30661	258030	0.29%	0.008%
391	24.289	3433	3436	3440	VV	6	29982	538316	0.60%	0.016%
392	24.354	3440	3447	3451	VV	10	31716	946051	1.05%	0.028%
393	24.383	3451	3452	3454	VV	2	30890	271159	0.30%	0.008%
394	24.419	3454	3458	3464	VV	9	27586	822711	0.91%	0.024%
395	24.472	3464	3467	3471	VV	6	22286	375018	0.42%	0.011%
396	24.507	3471	3473	3477	VV	5	19054	310985	0.34%	0.009%
397	24.542	3477	3479	3482	VV	4	19079	202345	0.22%	0.006%
398	24.589	3482	3487	3495	VV	4	24947	630613	0.70%	0.019%
399	24.672	3495	3501	3504	VV	8	26812	564586	0.63%	0.017%
400	24.754	3504	3515	3533	VV	8	142765	6537613	7.25%	0.193%
401	24.866	3533	3534	3542	VV	8	14016	259776	0.29%	0.008%
402	24.925	3542	3544	3547	VV	4	9477	77461	0.09%	0.002%
403	24.948	3547	3548	3551	PV	3	8619	56785	0.06%	0.002%

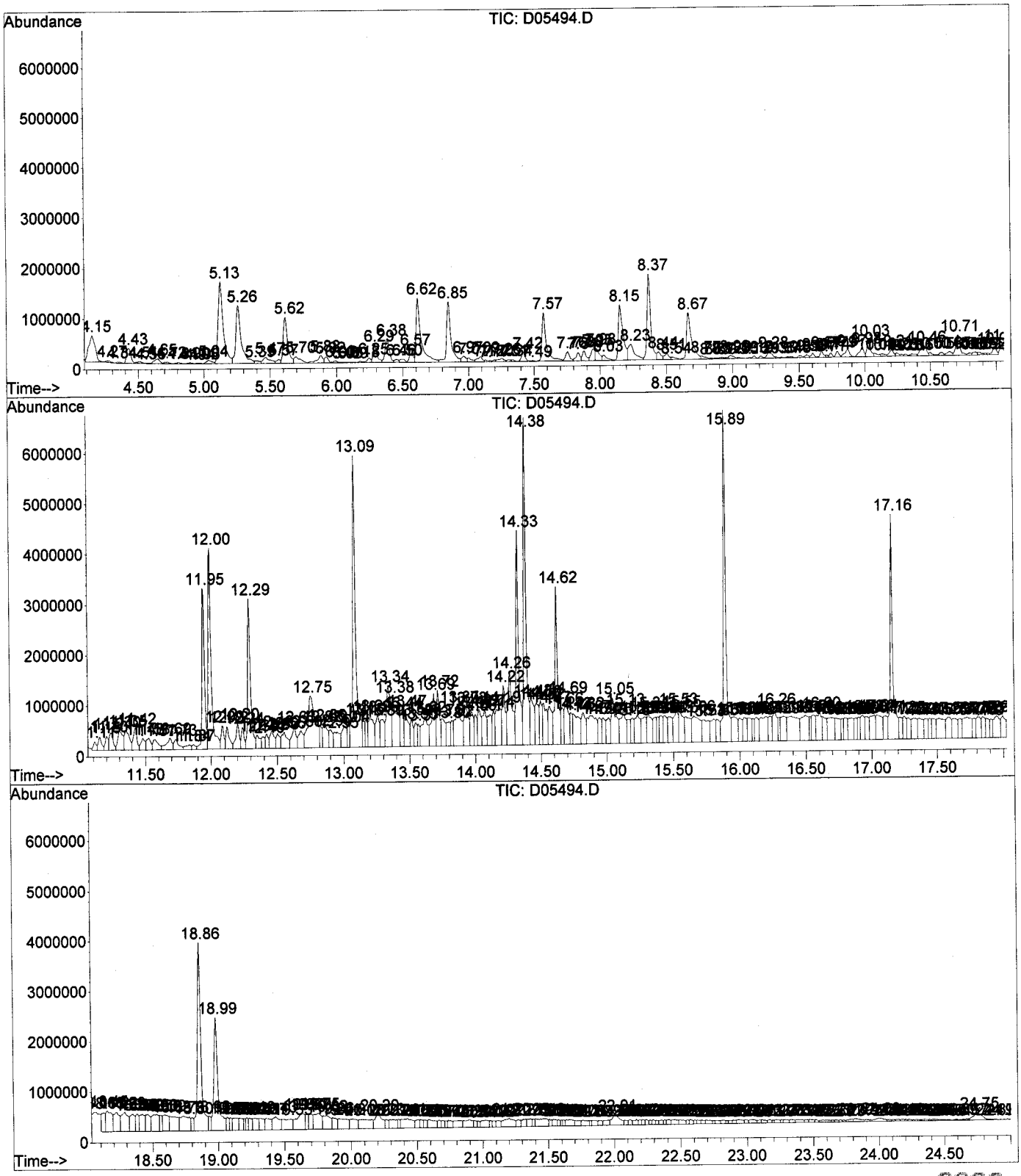
Sum of corrected areas: 3384798195

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

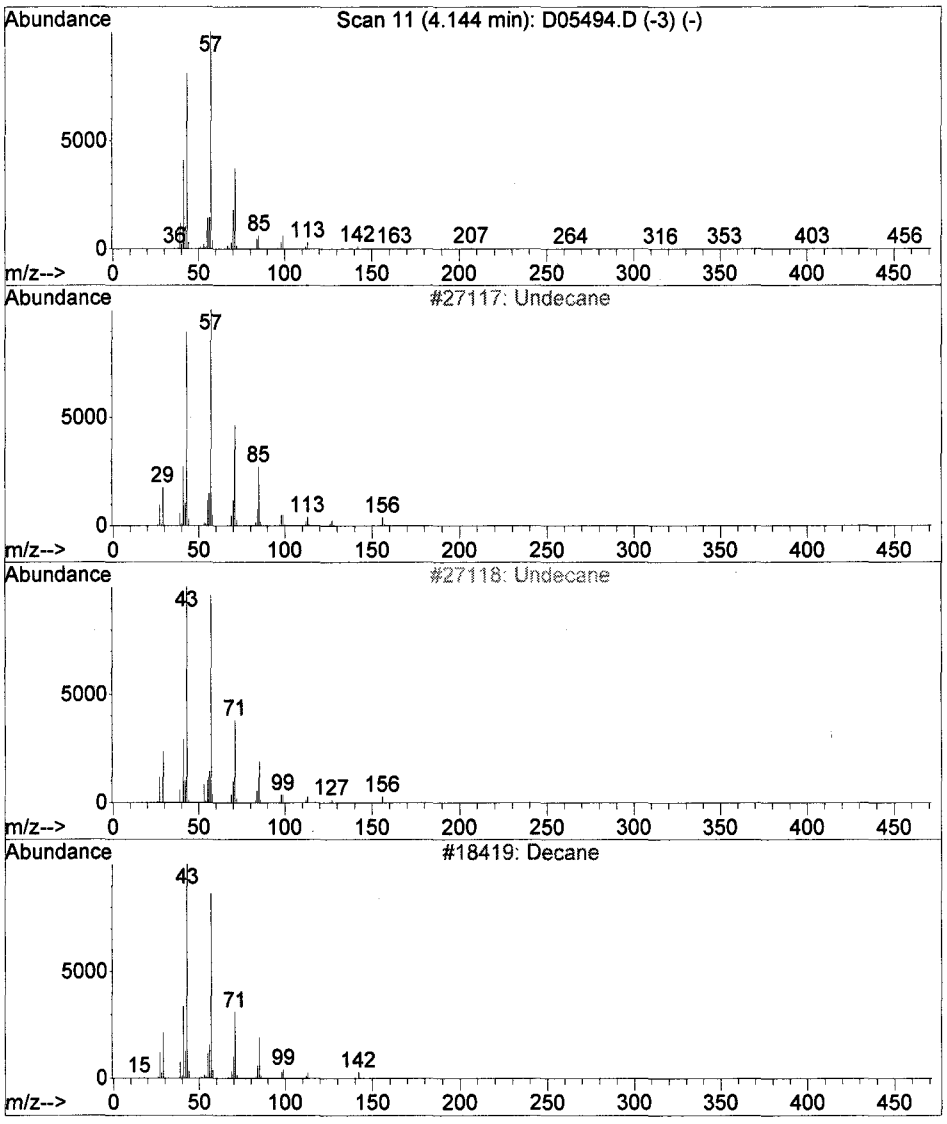
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

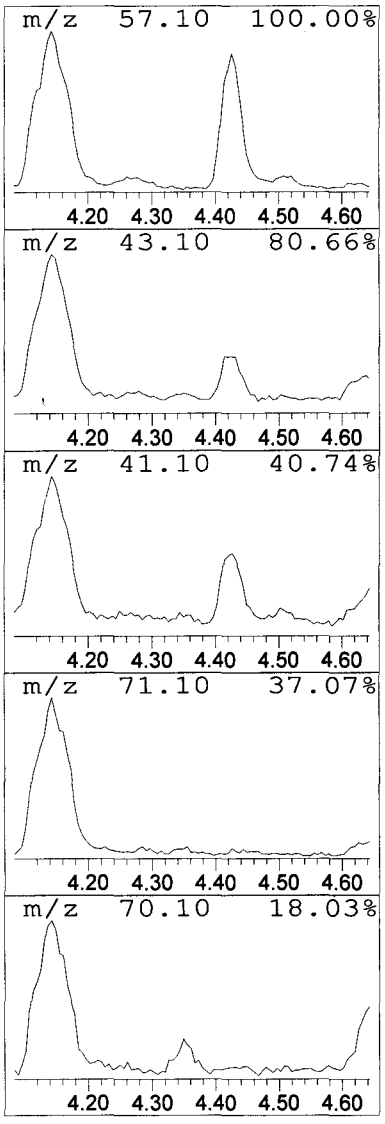
****

Peak Number 1 Undecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.15	16.85 ug/L	17784800	1,4-Dichlorobenzene-d4	5.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	78
2	Undecane	156	C11H24	001120-21-4	78
3	Decane	142	C10H22	000124-18-5	78
4	Decane	142	C10H22	000124-18-5	78
5	Nonane, 4-methyl-	142	C10H22	017301-94-9	74





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

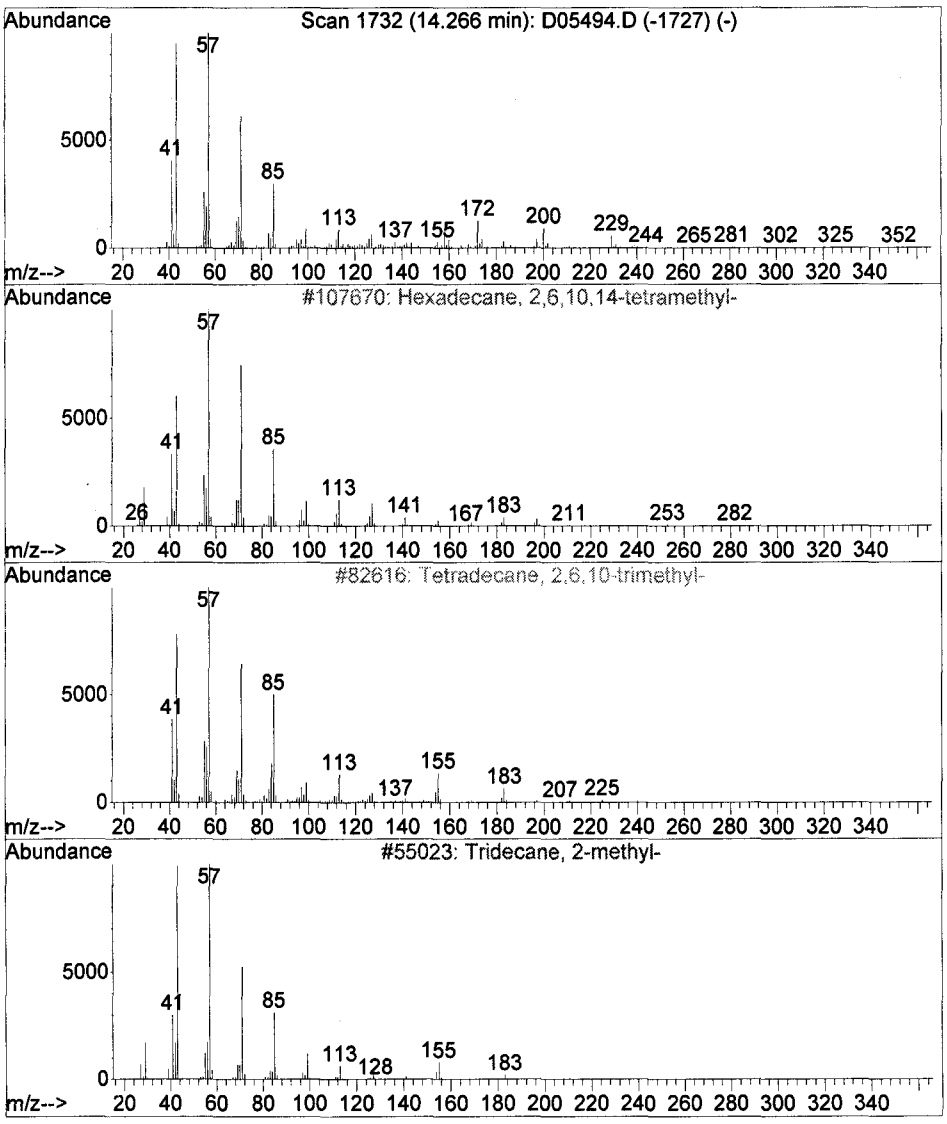
****

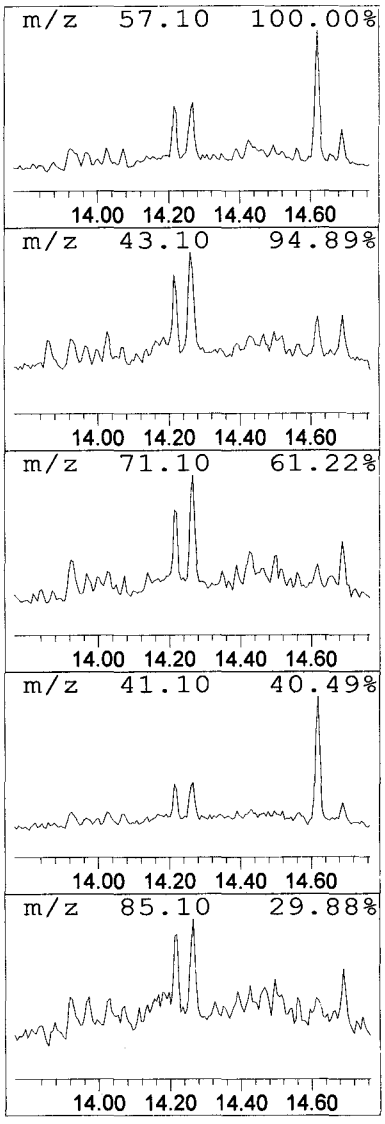
Peak Number 2 Hexadecane, 2,6,10,14-tetra... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	10.91 ug/L	33282100	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	78
2	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	62
3	Tridecane, 2-methyl-	198	C14H30	001560-96-9	62
4	Decane, 2-methyl-	156	C11H24	006975-98-0	62
5	Heptadecane, 2-methyl-	254	C18H38	001560-89-0	55





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

12/15/11

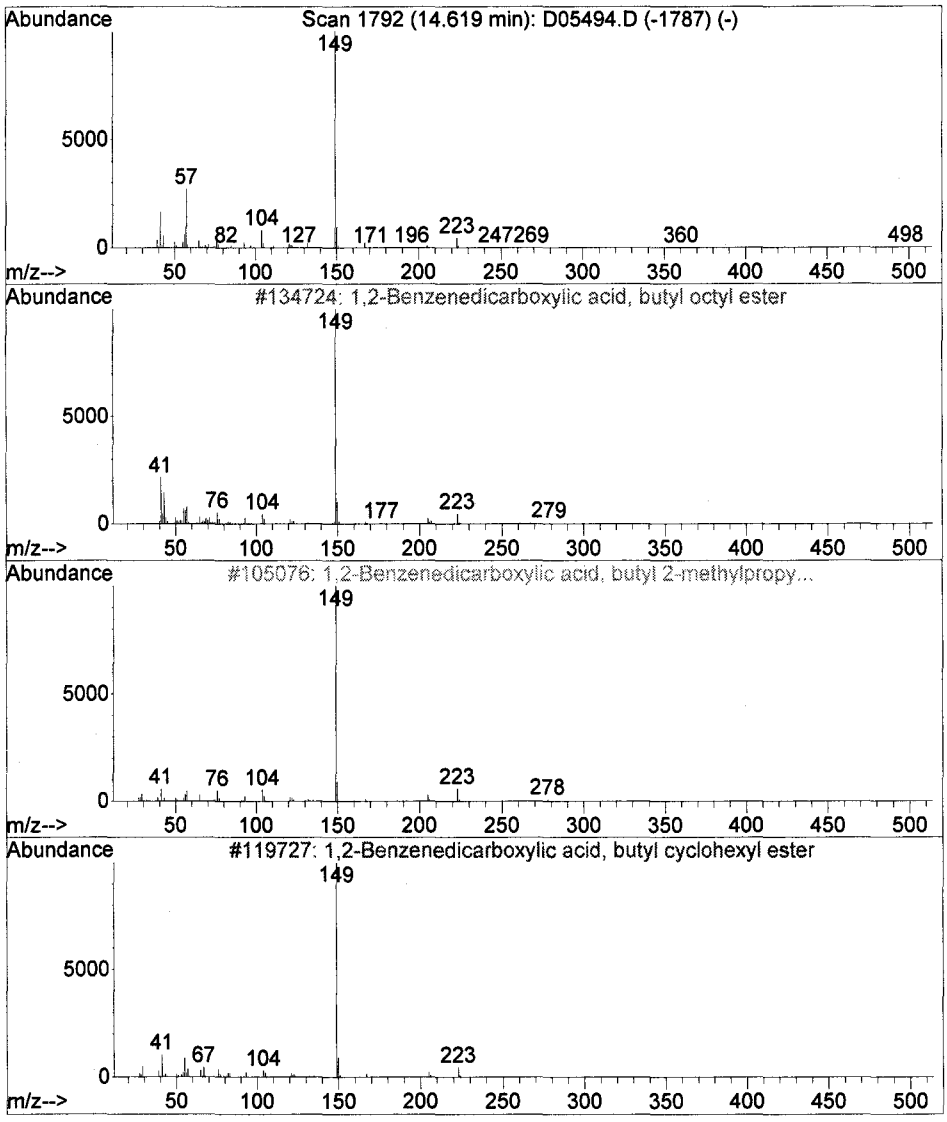
****

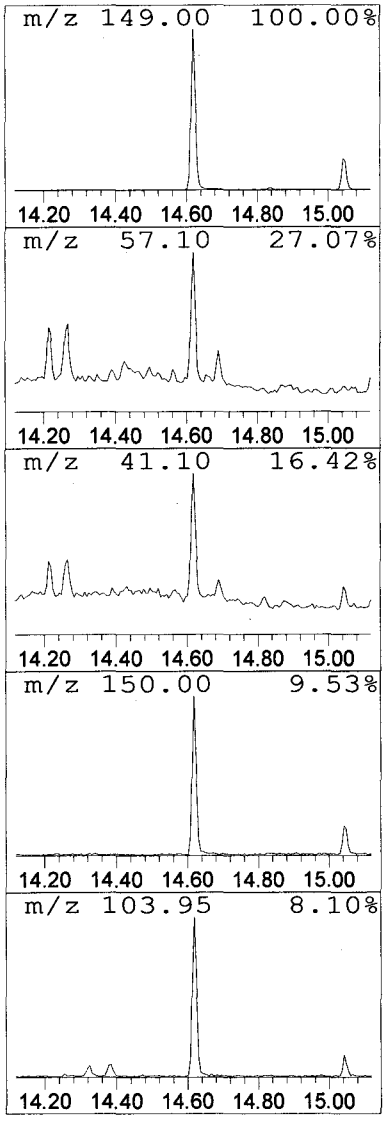
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	14.50 ug/L	44230600	Phenanthrene-d10	14.38

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	78
2	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
3	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	72
5	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	64





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05494.D
Acq On : 12/14/11 18:20 Operator: SV
Sample : F4XQ5 Inst : D-5973
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Undecane	4.15	16.8	ug/L	17784800	1	5.62	21115400	20.0
Hexadecane, 2,6,1...	14.26	10.9	ug/L	33282100	4	14.33	61011100	20.0
1,2-Benzenedicarb...	14.62	14.5	ug/L	44230600	4	14.33	61011100	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05502

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	260	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	260	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05502

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	260	U
100-02-7	4-Nitrophenol	260	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	260	U
534-52-1	4,6-Dinitro-2-methylphenol	260	U
86-30-6	N-Nitrosodiphenylamine 1	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	260	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	130	U
206-44-0	Fluoranthene	130	U
129-00-0	Pyrene	64	J
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
117-81-7	Bis(2-ethylhexyl)phthalate	53	J
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05502

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.26	260	J
02		Unknown-02	15.04	270	J
03		Unknown-03	15.67	290	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					
	E9667962	Total Alkanes	N/A		

2 EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 10:43:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/15/11

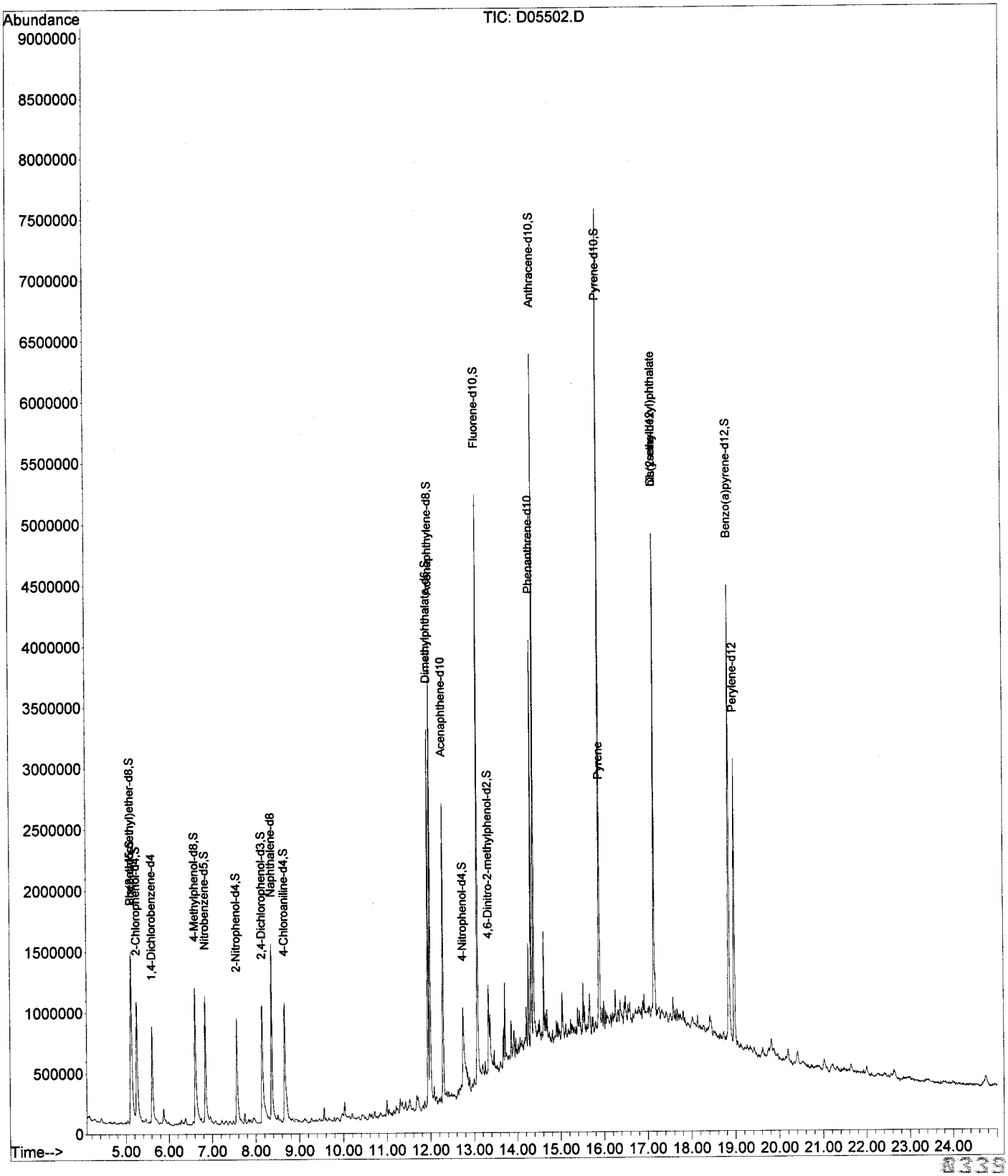
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2662822	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	12133294	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	7688794	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.32	188	13722005	20.0000	ug/L	0.00
73) Chrysene-d12	17.15	240	13696891	20.0000	ug/L	0.00
81) Perylene-d12	18.98	264	13627968	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.12	99	12224861	31.4244	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 78.56%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	4609204	28.9393	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 72.35%			
7) 2-Chlorophenol-d4	5.25	132	5667206	30.7531	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 76.88%			
12) 4-Methylphenol-d8	6.61	113	5327229	31.7176	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 79.29%			
17) Nitrobenzene-d5	6.85	128	2874977	31.7672	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 79.42%			
20) 2-Nitrophenol-d4	7.57	143	3183652	36.9334	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 92.33%			
24) 2,4-Dichlorophenol-d3	8.15	165	5019982	32.1502	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 80.38%			
27) 4-Chloroaniline-d4	8.66	131	6891232	39.6142	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 99.04%			
41) Acenaphthylene-d8	11.99	160	22857125	32.0608	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 80.15%			
43) Dimethylphthalate-d6	11.95	166	15902769	33.0163	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 82.54%			
49) 4-Nitrophenol-d4	12.75	143	2821927	41.4499	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 103.62%			
56) Fluorene-d10	13.08	176	14510036	31.5394	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 78.85%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	1588049	36.3197	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 90.80%			
68) Anthracene-d10	14.38	188	24120240	32.7687	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 81.92%			
79) Pyrene-d10	15.89	212	25147295	31.8426	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 79.61%			
85) Benzo(a)pyrene-d12	18.86	264	19477291	30.6352	ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 76.59%			
Target Compounds						Qvalue
75) bis(2-ethylhexyl)phthalate	17.15	149	1144999	2.0184	ug/L #	96
80) Pyrene	15.91	202	2067309	2.4275	ug/L #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

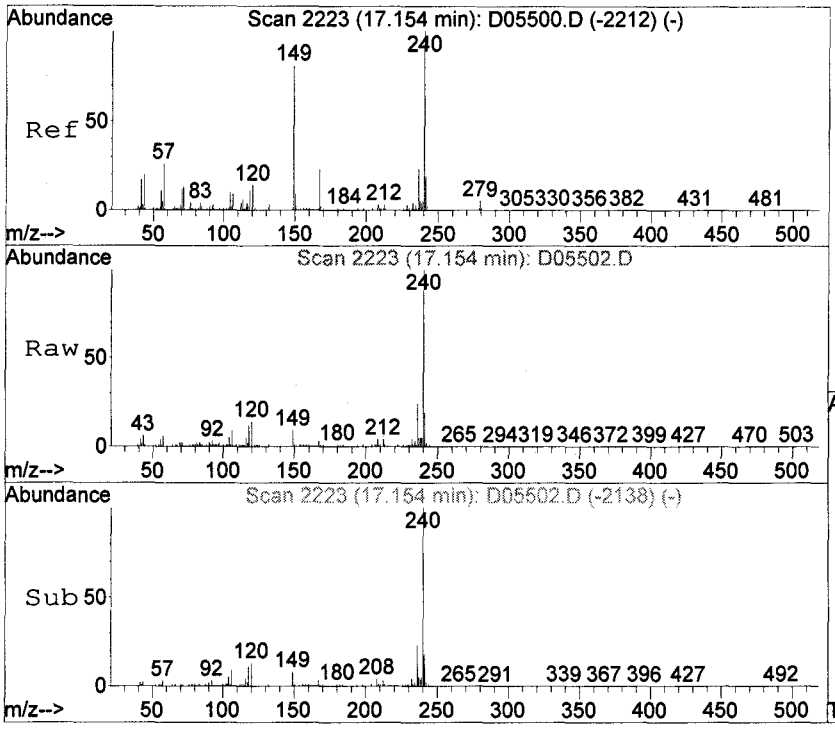
Data File: C:\MSDCHEM\1\DATA\D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 10:43:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



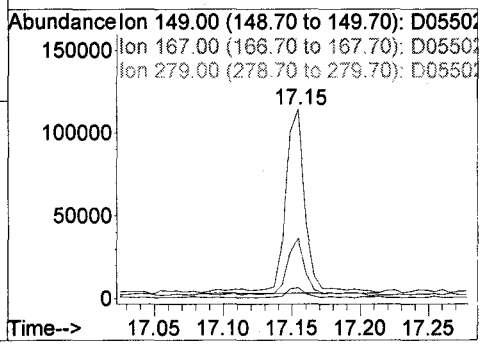
Data File : C:\MSDCHEM\1\DATA\D05502.D
Acq On : 12/15/11 11:36
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

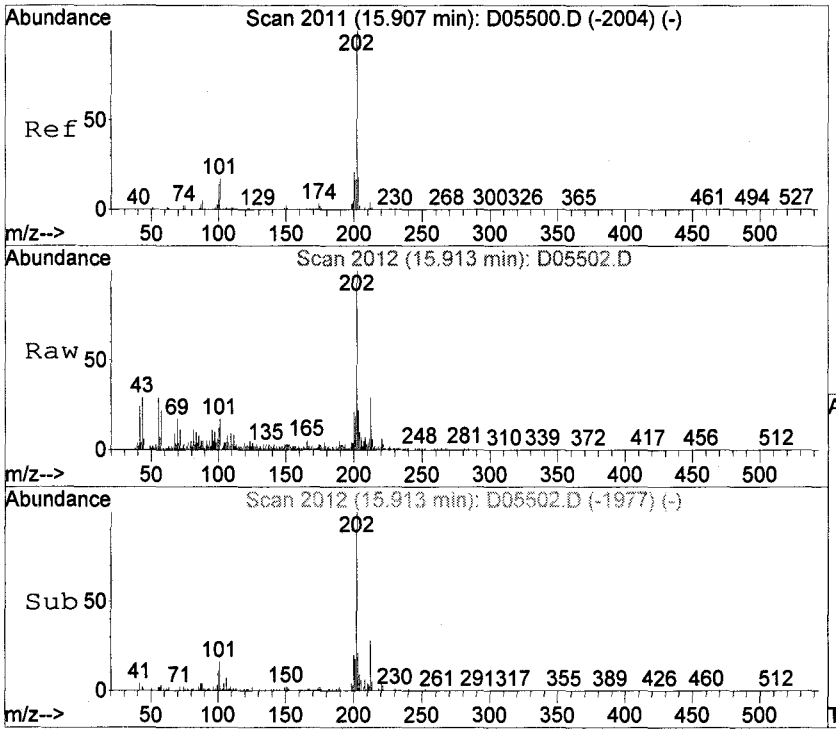
Vial: 4
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 2.02 ug/L
RT: 17.15 min Scan# 2223
Delta R.T. -0.00 min
Integration Range:
Scan=2211 to 2233
R.T.= 17.08 to 17.21 (min)
Tgt Ion:149 Resp: 1144999

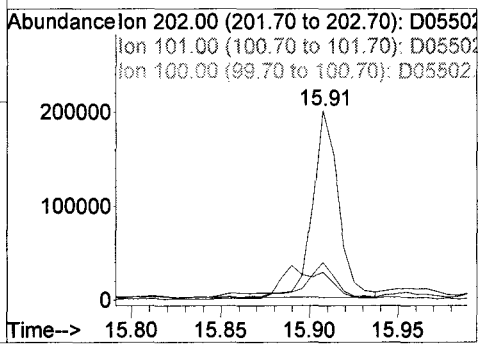
Ion	Ratio	Lower	Upper
149	100		
167	29.0	21.5	32.3
279	6.8	3.8	5.6#





#80
Pyrene
Concen: 2.43 ug/L
RT: 15.91 min Scan# 2012
Delta R.T. 0.00 min
Integration Range:
Scan=2000 to 2016
R.T.= 15.84 to 15.94 (min)
Tgt Ion:202 Resp: 2067309

Ion	Ratio	Lower	Upper
202	100		
101	22.8	15.0	22.4#
100	29.8	12.7	19.1#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.114	3	6	8	PV 3	9356	66605	0.06%	0.002%
2	4.144	8	11	24	PV 9	17947	148357	0.14%	0.004%
3	4.249	24	29	30	PV 5	13191	152546	0.14%	0.004%
4	4.273	30	33	41	VV 7	19029	386566	0.36%	0.010%
5	4.349	41	46	52	PV 9	9833	174953	0.16%	0.004%
6	4.426	52	59	70	PV 7	35881	917214	0.85%	0.023%
7	4.502	70	72	77	VV 6	5841	99661	0.09%	0.003%
8	4.585	77	86	88	PV 9	8622	186777	0.17%	0.005%
9	4.626	88	93	97	VV 8	14424	337509	0.31%	0.009%
10	4.655	97	98	102	VV 4	9318	70641	0.07%	0.002%
11	4.708	102	107	116	PV 4	14241	379686	0.35%	0.010%
12	4.773	116	118	120	VV 2	5787	40482	0.04%	0.001%
13	4.796	120	122	125	VV 4	3923	47873	0.04%	0.001%
14	4.861	125	133	134	VV 8	10792	189977	0.18%	0.005%
15	4.891	134	138	141	VV 6	18586	264332	0.25%	0.007%
16	4.914	141	142	145	VV 3	5152	58619	0.05%	0.001%
17	4.961	145	150	152	VV 6	10769	189131	0.18%	0.005%
18	4.991	152	155	158	VV 4	15636	193994	0.18%	0.005%
19	5.038	158	163	170	VV 10	32235	788377	0.73%	0.020%
20	5.126	170	178	193	VV 3	1402303	37071883	34.56%	0.942%
21	5.255	193	200	220	VV	1011093	25893475	24.14%	0.658%
22	5.385	220	222	227	VV 6	37970	737157	0.69%	0.019%
23	5.467	227	236	241	VV 6	51342	1693605	1.58%	0.043%
24	5.502	241	242	244	VV 2	21619	219846	0.20%	0.006%
25	5.538	244	248	250	VV 5	24267	410655	0.38%	0.010%
26	5.608	250	260	277	VV	795599	18879068	17.60%	0.480%
27	5.714	277	278	289	VV 8	48558	1260645	1.18%	0.032%
28	5.796	289	292	298	VV 8	23458	616879	0.58%	0.016%
29	5.879	298	306	319	VV 5	135211	4050688	3.78%	0.103%
30	5.985	319	324	333	VV 10	30240	876183	0.82%	0.022%
31	6.049	333	335	338	VV 4	11766	134303	0.13%	0.003%
32	6.079	338	340	342	VV 3	3767	34693	0.03%	0.001%
33	6.126	342	348	350	PV 7	14211	203527	0.19%	0.005%
34	6.143	350	351	354	VV 3	12044	123515	0.12%	0.003%
35	6.185	354	358	362	VV 7	15304	270587	0.25%	0.007%
36	6.238	362	367	371	VV 6	25399	544412	0.51%	0.014%
37	6.285	371	375	381	VV 4	45858	945723	0.88%	0.024%
38	6.332	381	383	386	VV 4	25736	364508	0.34%	0.009%
39	6.379	386	391	400	VV 2	61031	1507141	1.40%	0.038%
40	6.443	400	402	405	VV 4	13131	180387	0.17%	0.005%
41	6.490	405	410	417	VV 4	9879	277951	0.26%	0.007%
42	6.561	417	422	426	VV 6	35037	656153	0.61%	0.017%
43	6.614	426	431	451	VV	1098354	26689788	24.88%	0.678%
44	6.749	451	454	462	VV 8	58844	1598515	1.49%	0.041%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.843	462	470	485	VV		1046227	22116720	20.62%	0.562%
46	6.961	485	490	502	VV	8	72091	2385617	2.22%	0.061%
47	7.073	502	509	516	VV	10	37147	1223743	1.14%	0.031%
48	7.132	516	519	522	VV	5	12054	191333	0.18%	0.005%
49	7.155	522	523	525	VV	2	6922	58477	0.05%	0.001%
50	7.220	525	534	542	VV	2	38629	1003683	0.94%	0.025%
51	7.320	542	551	559	VV	2	35765	1161099	1.08%	0.029%
52	7.402	559	565	567	PV	6	29965	515134	0.48%	0.013%
53	7.420	567	568	575	VV	6	28842	419478	0.39%	0.011%
54	7.490	575	580	584	VV	7	33752	614646	0.57%	0.016%
55	7.573	584	594	619	VV		854730	18679206	17.41%	0.474%
56	7.749	619	624	631	VV	4	92095	1828142	1.70%	0.046%
57	7.837	631	639	642	VV	6	44070	989648	0.92%	0.025%
58	7.873	642	645	650	VV	3	38927	812948	0.76%	0.021%
59	7.943	650	657	661	VV	7	54076	1311776	1.22%	0.033%
60	7.973	661	662	668	VV	5	49299	864599	0.81%	0.022%
61	8.026	668	671	674	VV	5	17732	317688	0.30%	0.008%
62	8.073	674	679	684	VV	9	16703	400444	0.37%	0.010%
63	8.108	684	685	686	VV		12698	120991	0.11%	0.003%
64	8.149	686	692	714	VV		976247	26313231	24.53%	0.668%
65	8.296	714	717	722	VV	7	60349	1303559	1.22%	0.033%
66	8.367	722	729	745	VV		1463155	28846691	26.89%	0.733%
67	8.473	745	747	749	VV	3	47917	576113	0.54%	0.015%
68	8.508	749	753	757	VV	3	72936	1411195	1.32%	0.036%
69	8.537	757	758	760	VV	2	34450	338262	0.32%	0.009%
70	8.567	760	763	771	VV	10	36468	954761	0.89%	0.024%
71	8.661	771	779	795	VV		985800	24407931	22.75%	0.620%
72	8.767	795	797	799	VV	3	54399	672882	0.63%	0.017%
73	8.784	799	800	806	VV	6	41087	766245	0.71%	0.019%
74	8.837	806	809	817	VV	8	41063	1186239	1.11%	0.030%
75	8.908	817	821	825	VV	7	35972	815580	0.76%	0.021%
76	8.949	825	828	831	VV	5	33520	592980	0.55%	0.015%
77	8.979	831	833	835	VV	3	25292	234620	0.22%	0.006%
78	9.002	835	837	842	VV	6	25381	528096	0.49%	0.013%
79	9.120	842	857	860	VV	6	42050	1365665	1.27%	0.035%
80	9.149	860	862	870	VV	9	27503	498281	0.46%	0.013%
81	9.220	870	874	876	PV	5	10235	133023	0.12%	0.003%
82	9.273	876	883	891	VV	5	40865	1057126	0.99%	0.027%
83	9.331	891	893	896	VV	4	22978	308594	0.29%	0.008%
84	9.373	896	900	906	VV	8	25654	598306	0.56%	0.015%
85	9.461	906	915	918	VV	9	35126	942682	0.88%	0.024%
86	9.502	918	922	924	VV	4	24349	352674	0.33%	0.009%
87	9.526	924	926	927	VV	2	15763	137445	0.13%	0.003%
88	9.561	927	932	937	VV		121646	1967230	1.83%	0.050%
89	9.602	937	939	945	VV	7	31415	553310	0.52%	0.014%
90	9.661	945	949	953	VV	5	35169	609768	0.57%	0.015%
91	9.690	953	954	962	VV	8	18734	516350	0.48%	0.013%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.743	962	963	965	VV	2	13372	122118	0.11%	0.003%
93	9.790	965	971	974	VV	6	37150	542686	0.51%	0.014%
94	9.849	974	981	982	VV	7	31577	501024	0.47%	0.013%
95	9.873	982	985	993	VV	8	30140	716343	0.67%	0.018%
96	9.978	993	1003	1006	VV	10	68676	1953336	1.82%	0.050%
97	10.026	1006	1011	1023	VV		155374	3994938	3.72%	0.101%
98	10.108	1023	1025	1026	VV	2	35045	399565	0.37%	0.010%
99	10.143	1026	1031	1034	VV	6	40734	881202	0.82%	0.022%
100	10.196	1034	1040	1049	VV	7	59317	1734369	1.62%	0.044%
101	10.261	1049	1051	1053	VV	3	24200	299098	0.28%	0.008%
102	10.326	1053	1062	1063	VV	9	26391	656257	0.61%	0.017%
103	10.349	1063	1066	1070	VV	5	29324	551721	0.51%	0.014%
104	10.426	1070	1079	1089	VV	7	48154	1791494	1.67%	0.046%
105	10.502	1089	1092	1099	VV	8	27274	423380	0.39%	0.011%
106	10.596	1099	1108	1113	VV	9	54721	1318973	1.23%	0.034%
107	10.643	1113	1116	1121	VV	5	47538	783812	0.73%	0.020%
108	10.708	1121	1127	1133	VV	5	69930	1518104	1.42%	0.039%
109	10.761	1133	1136	1140	VV	5	25960	496039	0.46%	0.013%
110	10.843	1140	1150	1158	VV	5	56583	2133378	1.99%	0.054%
111	10.937	1158	1166	1170	VV	10	39318	1296186	1.21%	0.033%
112	10.996	1170	1176	1180	VV		155851	2906022	2.71%	0.074%
113	11.043	1180	1184	1187	VV	4	80820	1428845	1.33%	0.036%
114	11.073	1187	1189	1192	VV	4	53766	741130	0.69%	0.019%
115	11.108	1192	1195	1198	VV	4	50065	823441	0.77%	0.021%
116	11.149	1198	1202	1207	VV	8	70963	1566327	1.46%	0.040%
117	11.202	1207	1211	1214	VV		99528	1743452	1.63%	0.044%
118	11.237	1214	1217	1222	VV	6	83623	2104255	1.96%	0.053%
119	11.296	1222	1227	1232	VV	3	161195	3648225	3.40%	0.093%
120	11.349	1232	1236	1243	VV	6	138042	4015333	3.74%	0.102%
121	11.425	1243	1249	1253	VV	6	133535	3493960	3.26%	0.089%
122	11.478	1253	1258	1260	VV	5	89761	1875041	1.75%	0.048%
123	11.520	1260	1265	1274	VV	6	152967	5393467	5.03%	0.137%
124	11.590	1274	1277	1283	VV	8	79237	2022150	1.88%	0.051%
125	11.684	1283	1293	1295	VV	7	174690	4266110	3.98%	0.108%
126	11.708	1295	1297	1309	VV	8	165597	5147339	4.80%	0.131%
127	11.825	1309	1317	1320	VV	9	98480	3130342	2.92%	0.080%
128	11.867	1320	1324	1328	VV	4	134057	2844714	2.65%	0.072%
129	11.943	1328	1337	1342	VV		3040117	41562009	38.74%	1.056%
130	11.996	1342	1346	1356	VV		3750160	55330830	51.58%	1.405%
131	12.084	1356	1361	1365	VV	4	251139	5921277	5.52%	0.150%
132	12.131	1365	1369	1374	VV	5	162577	4496880	4.19%	0.114%
133	12.202	1374	1381	1384	VV	5	150651	4451276	4.15%	0.113%
134	12.237	1384	1387	1390	VV	4	158179	3052514	2.85%	0.078%
135	12.290	1390	1396	1407	VV		2597021	41347415	38.54%	1.050%
136	12.372	1407	1410	1413	VV	4	203021	4172039	3.89%	0.106%
137	12.414	1413	1417	1421	VV	5	198792	4491479	4.19%	0.114%
138	12.478	1421	1428	1431	VV	6	184379	6425700	5.99%	0.163%
139	12.514	1431	1434	1436	VV	4	171018	2770561	2.58%	0.070%

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.537	1436	1438	1440	VV	3	176929	2095180	1.95%	0.053%
141	12.555	1440	1441	1443	VV	2	168846	1889940	1.76%	0.048%
142	12.572	1443	1444	1447	VV	3	159546	1937701	1.81%	0.049%
143	12.631	1447	1454	1457	VV	6	210077	6018618	5.61%	0.153%
144	12.672	1457	1461	1463	VV	5	226108	4802944	4.48%	0.122%
145	12.714	1463	1468	1470	VV	4	247427	5196362	4.84%	0.132%
146	12.749	1470	1474	1485	VV	2	886627	29880560	27.85%	0.759%
147	12.825	1485	1487	1490	VV	4	401771	5771549	5.38%	0.147%
148	12.855	1490	1492	1496	VV	5	354080	6616578	6.17%	0.168%
149	12.896	1496	1499	1505	VV	7	305730	7748526	7.22%	0.197%
150	12.967	1505	1511	1513	VV	6	253451	6779427	6.32%	0.172%
151	13.008	1513	1518	1523	VV	5	290816	8573745	7.99%	0.218%
152	13.084	1523	1531	1540	VV		4942096	76029025	70.87%	1.931%
153	13.143	1540	1541	1547	VV	6	376752	8614280	8.03%	0.219%
154	13.202	1547	1551	1558	VV	9	411689	13928612	12.98%	0.354%
155	13.261	1558	1561	1564	VV	4	430122	8091139	7.54%	0.206%
156	13.284	1564	1565	1567	VV	2	347327	4284874	3.99%	0.109%
157	13.337	1567	1574	1578	VV	2	1040094	23954596	22.33%	0.608%
158	13.378	1578	1581	1589	VV	2	803794	21172811	19.74%	0.538%
159	13.437	1589	1591	1594	VV	4	429525	6419740	5.98%	0.163%
160	13.466	1594	1596	1601	VV	5	513785	11546851	10.76%	0.293%
161	13.508	1601	1603	1607	VV	5	390934	7228852	6.74%	0.184%
162	13.543	1607	1609	1611	VV	3	395061	6003734	5.60%	0.153%
163	13.566	1611	1613	1615	VV	2	373926	4749195	4.43%	0.121%
164	13.614	1615	1621	1627	VV	8	426211	16931107	15.78%	0.430%
165	13.684	1627	1633	1635	VV	2	695707	14116383	13.16%	0.359%
166	13.714	1635	1638	1642	VV		1043637	16537208	15.42%	0.420%
167	13.749	1642	1644	1650	VV	7	495524	14141714	13.18%	0.359%
168	13.814	1650	1655	1658	VV	7	474650	11904465	11.10%	0.302%
169	13.866	1658	1664	1669	VV	2	744174	22093983	20.59%	0.561%
170	13.931	1669	1675	1679	VV	4	674304	18888898	17.61%	0.480%
171	13.972	1679	1682	1685	VV	5	606684	11697776	10.90%	0.297%
172	14.002	1685	1687	1689	VV	3	517996	6845889	6.38%	0.174%
173	14.025	1689	1691	1695	VV	3	558618	10787349	10.06%	0.274%
174	14.072	1695	1699	1701	VV	5	609797	11785862	10.99%	0.299%
175	14.113	1701	1706	1712	VV	10	591633	21690337	20.22%	0.551%
176	14.161	1712	1714	1716	VV	3	578148	7713996	7.19%	0.196%
177	14.184	1716	1718	1720	VV	3	614420	8952727	8.35%	0.227%
178	14.219	1720	1724	1727	VV		837574	16229149	15.13%	0.412%
179	14.261	1727	1731	1737	VV		1337426	28284301	26.37%	0.718%
180	14.325	1737	1742	1748	VV		3759360	56619493	52.78%	1.438%
181	14.384	1748	1752	1764	VV		5974676	94435411	88.03%	2.399%
182	14.472	1764	1767	1769	VV	3	666150	11113204	10.36%	0.282%
183	14.496	1769	1771	1773	VV	3	716810	9894563	9.22%	0.251%
184	14.519	1773	1775	1781	VV	7	752287	18221251	16.98%	0.463%
185	14.572	1781	1784	1787	VV	5	653147	12964719	12.08%	0.329%
186	14.619	1787	1792	1796	VV		1419432	28214784	26.30%	0.717%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.661	1796	1799	1802	VV	4	792546	14473221	13.49%	0.368%
188	14.696	1802	1805	1811	VV	3	819048	22847315	21.30%	0.580%
189	14.743	1811	1813	1817	VV	5	645164	12220661	11.39%	0.310%
190	14.778	1817	1819	1822	VV	4	601370	10470243	9.76%	0.266%
191	14.819	1822	1826	1830	VV	6	663670	16098939	15.01%	0.409%
192	14.872	1830	1835	1837	VV	6	615735	14980751	13.96%	0.381%
193	14.908	1837	1841	1844	VV	4	724506	17615458	16.42%	0.447%
194	14.943	1844	1847	1849	VV	2	716072	11189573	10.43%	0.284%
195	14.966	1849	1851	1857	VV	6	664849	16973736	15.82%	0.431%
196	15.043	1857	1864	1873	VV	2	958955	38849964	36.21%	0.987%
197	15.125	1873	1878	1884	VV	3	701087	24666413	22.99%	0.627%
198	15.178	1884	1887	1890	VV	3	657824	13794166	12.86%	0.350%
199	15.202	1890	1891	1894	VV	3	643776	8304248	7.74%	0.211%
200	15.237	1894	1897	1900	VV	3	735712	14894101	13.88%	0.378%
201	15.260	1900	1901	1903	VV	2	687821	6800641	6.34%	0.173%
202	15.284	1903	1905	1908	VV	4	688089	11429101	10.65%	0.290%
203	15.319	1908	1911	1915	VV	6	676836	16774776	15.64%	0.426%
204	15.355	1915	1917	1920	VV	3	673316	11363984	10.59%	0.289%
205	15.396	1920	1924	1928	VV	4	826160	19612003	18.28%	0.498%
206	15.437	1928	1931	1939	VV	4	799527	29134180	27.16%	0.740%
207	15.525	1939	1946	1949	VV		1044028	24631000	22.96%	0.626%
208	15.555	1949	1951	1954	VV	3	849775	15993290	14.91%	0.406%
209	15.584	1954	1956	1958	VV	3	675679	7468703	6.96%	0.190%
210	15.608	1958	1960	1962	VV	2	695791	10489527	9.78%	0.266%
211	15.672	1962	1971	1978	VV	2	921514	40161331	37.44%	1.020%
212	15.731	1978	1981	1983	VV	3	743155	12560305	11.71%	0.319%
213	15.755	1983	1985	1988	VV	4	741898	13574525	12.65%	0.345%
214	15.813	1988	1995	1997	VV	7	712230	20914965	19.50%	0.531%
215	15.837	1997	1999	2001	VV	3	669899	8535852	7.96%	0.217%
216	15.896	2001	2009	2016	VV		6902625	105307255	98.16%	2.675%
217	15.960	2016	2020	2024	VV	3	813907	19798094	18.45%	0.503%
218	16.002	2024	2027	2031	VV	2	873853	18839346	17.56%	0.479%
219	16.043	2031	2034	2036	VV	2	802284	13695980	12.77%	0.348%
220	16.072	2036	2039	2041	VV	3	772306	13495455	12.58%	0.343%
221	16.096	2041	2043	2048	VV	5	744694	18563504	17.30%	0.472%
222	16.155	2048	2053	2056	VV	6	757767	19847402	18.50%	0.504%
223	16.196	2056	2060	2064	VV	6	773328	18547425	17.29%	0.471%
224	16.231	2064	2066	2067	VV	2	761610	10121866	9.44%	0.257%
225	16.266	2067	2072	2076	VV	2	948777	24633187	22.96%	0.626%
226	16.331	2076	2083	2087	VV	10	797659	29040085	27.07%	0.738%
227	16.378	2087	2091	2103	VV	2	871017	42668465	39.77%	1.084%
228	16.472	2103	2107	2109	VV	2	843526	16520461	15.40%	0.420%
229	16.496	2109	2111	2118	VV	2	905838	26221819	24.44%	0.666%
230	16.560	2118	2122	2124	VV	5	836974	15896307	14.82%	0.404%
231	16.602	2124	2129	2137	VV	7	855152	35093750	32.71%	0.891%
232	16.666	2137	2140	2143	VV	5	759571	16199969	15.10%	0.412%
233	16.725	2143	2150	2156	VV	5	796579	34185592	31.87%	0.868%
234	16.778	2156	2159	2160	VV	2	783045	10533036	9.82%	0.268%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.796	2160	2162	2166	VV	5	810268	17270623	16.10%	0.439%
236	16.831	2166	2168	2171	VV	4	783270	13998963	13.05%	0.356%
237	16.866	2171	2174	2176	VV	4	800050	12670424	11.81%	0.322%
238	16.896	2176	2179	2181	VV	3	859096	15098870	14.07%	0.384%
239	16.925	2181	2184	2191	VV	4	916968	27214082	25.37%	0.691%
240	17.043	2191	2204	2210	VV	10	816270	50336065	46.92%	1.279%
241	17.154	2210	2223	2232	VV		4767396	107279720	100.00%	2.725%
242	17.219	2232	2234	2237	VV	4	782374	12190786	11.36%	0.310%
243	17.272	2237	2243	2246	VV	8	801589	26389563	24.60%	0.670%
244	17.331	2246	2253	2264	VV	8	779125	45569812	42.48%	1.158%
245	17.425	2264	2269	2279	VV	8	761129	37786744	35.22%	0.960%
246	17.519	2279	2285	2290	VV	10	745028	28852156	26.89%	0.733%
247	17.584	2290	2296	2302	VV	2	875114	31221450	29.10%	0.793%
248	17.631	2302	2304	2307	VV	2	763143	13549319	12.63%	0.344%
249	17.678	2307	2312	2315	VV	7	779472	20276813	18.90%	0.515%
250	17.719	2315	2319	2322	VV	6	735375	16718938	15.58%	0.425%
251	17.749	2322	2324	2330	VV	6	735054	21437349	19.98%	0.545%
252	17.813	2330	2335	2339	VV	3	760928	20893910	19.48%	0.531%
253	17.849	2339	2341	2349	VV	9	705399	23570453	21.97%	0.599%
254	17.919	2349	2353	2361	VV	9	659558	28767272	26.82%	0.731%
255	18.025	2361	2371	2376	VV	9	708203	35109124	32.73%	0.892%
256	18.066	2376	2378	2381	VV	4	655149	11115077	10.36%	0.282%
257	18.096	2381	2383	2386	VV	4	648224	9831204	9.16%	0.250%
258	18.143	2386	2391	2395	VV	7	716674	21828798	20.35%	0.554%
259	18.196	2395	2400	2403	VV	7	633531	18356965	17.11%	0.466%
260	18.231	2403	2406	2409	VV	5	618985	11114069	10.36%	0.282%
261	18.272	2409	2413	2421	VV	10	631484	26948927	25.12%	0.685%
262	18.343	2421	2425	2427	VV	5	604791	11849385	11.05%	0.301%
263	18.372	2427	2430	2433	VV	5	614947	13381595	12.47%	0.340%
264	18.419	2433	2438	2441	VV	4	707440	18014479	16.79%	0.458%
265	18.443	2441	2442	2449	VV	5	667069	16312303	15.21%	0.414%
266	18.507	2449	2453	2457	VV	6	582186	16190335	15.09%	0.411%
267	18.543	2457	2459	2462	VV	4	577496	9812180	9.15%	0.249%
268	18.566	2462	2463	2466	VV	3	556458	7973818	7.43%	0.203%
269	18.601	2466	2469	2471	VV	4	534295	9731201	9.07%	0.247%
270	18.619	2471	2472	2475	VV	3	538954	6514570	6.07%	0.165%
271	18.648	2475	2477	2481	VV	5	555082	11821403	11.02%	0.300%
272	18.684	2481	2483	2486	VV	4	533988	9357862	8.72%	0.238%
273	18.731	2486	2491	2497	VV	9	568071	20950609	19.53%	0.532%
274	18.784	2497	2500	2502	VV	4	528392	9826840	9.16%	0.250%
275	18.860	2502	2513	2527	VV		4162101	103777132	96.74%	2.636%
276	18.984	2527	2534	2545	VV		2746256	66918911	62.38%	1.700%
277	19.060	2545	2547	2550	VV	4	481059	8208132	7.65%	0.209%
278	19.107	2550	2555	2558	VV	6	458472	11016587	10.27%	0.280%
279	19.131	2558	2559	2563	VV	4	456298	8147170	7.59%	0.207%
280	19.160	2563	2564	2568	VV	4	430722	7325797	6.83%	0.186%
281	19.219	2568	2574	2576	VV	7	435392	12648212	11.79%	0.321%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.272	2576	2583	2588	VV	10	447620	17161301	16.00%	0.436%
283	19.313	2588	2590	2592	VV	3	425973	6637881	6.19%	0.169%
284	19.343	2592	2595	2597	VV	4	437260	7128344	6.64%	0.181%
285	19.360	2597	2598	2605	VV	7	420931	11640753	10.85%	0.296%
286	19.425	2605	2609	2615	VV	7	428714	14256117	13.29%	0.362%
287	19.478	2615	2618	2623	VV	7	381408	9274618	8.65%	0.236%
288	19.537	2623	2628	2632	VV	8	364663	11987051	11.17%	0.304%
289	19.625	2632	2643	2650	VV	8	421520	23912591	22.29%	0.607%
290	19.690	2650	2654	2657	VV	6	360655	9011663	8.40%	0.229%
291	19.760	2657	2666	2668	VV	10	413192	14689844	13.69%	0.373%
292	19.819	2668	2676	2681	VV	10	489107	19492613	18.17%	0.495%
293	19.866	2681	2684	2695	VV	10	407582	18382186	17.13%	0.467%
294	19.966	2695	2701	2707	VV	10	363831	14506686	13.52%	0.368%
295	20.007	2707	2708	2714	VV	6	335382	8236614	7.68%	0.209%
296	20.054	2714	2716	2719	VV	4	315791	5832325	5.44%	0.148%
297	20.084	2719	2721	2724	VV	4	323428	5206326	4.85%	0.132%
298	20.113	2724	2726	2727	VV	2	311864	3637279	3.39%	0.092%
299	20.137	2727	2730	2736	VV	8	333727	9489337	8.85%	0.241%
300	20.195	2736	2740	2750	VV	2	394108	17182517	16.02%	0.436%
301	20.272	2750	2753	2756	VV	5	301486	5879959	5.48%	0.149%
302	20.337	2756	2764	2767	VV	10	290868	10697280	9.97%	0.272%
303	20.413	2767	2777	2785	VV	10	371745	20336346	18.96%	0.517%
304	20.519	2785	2795	2797	VV	10	288223	11459552	10.68%	0.291%
305	20.548	2797	2800	2804	VV	6	285870	6971262	6.50%	0.177%
306	20.584	2804	2806	2810	VV	5	271945	5370422	5.01%	0.136%
307	20.619	2810	2812	2825	VV	5	261938	12680303	11.82%	0.322%
308	20.707	2825	2827	2838	VV	5	242398	11765251	10.97%	0.299%
309	20.848	2838	2851	2858	VV	5	249950	16773476	15.64%	0.426%
310	20.901	2858	2860	2872	VV	5	246877	11292873	10.53%	0.287%
311	21.025	2872	2881	2888	VV	10	293624	13836294	12.90%	0.351%
312	21.078	2888	2890	2903	VV	10	234387	10766593	10.04%	0.273%
313	21.219	2903	2914	2925	VV	10	251230	17989203	16.77%	0.457%
314	21.319	2925	2931	2938	VV	10	232487	9476884	8.83%	0.241%
315	21.366	2938	2939	2944	VV	5	210134	4480316	4.18%	0.114%
316	21.484	2944	2959	2975	VV	5	215293	21578748	20.11%	0.548%
317	21.601	2975	2979	2981	VV	5	204880	4104217	3.83%	0.104%
318	21.642	2981	2986	2996	VV	6	241359	11660291	10.87%	0.296%
319	21.719	2996	2999	3007	VV	10	193197	6631317	6.18%	0.168%
320	21.778	3007	3009	3014	VV	6	190257	4729917	4.41%	0.120%
321	21.819	3014	3016	3023	VV	8	181209	5235048	4.88%	0.133%
322	21.895	3023	3029	3031	VV	7	176632	5308438	4.95%	0.135%
323	21.925	3031	3034	3040	VV	8	191461	4991069	4.65%	0.127%
324	22.001	3040	3047	3064	VV	8	217626	14804494	13.80%	0.376%
325	22.113	3064	3066	3076	VV	8	163758	5940054	5.54%	0.151%
326	22.266	3076	3092	3100	VV	8	154970	12200305	11.37%	0.310%
327	22.331	3100	3103	3109	VV	8	141233	4559002	4.25%	0.116%
328	22.407	3109	3116	3127	VV	8	159310	9049593	8.44%	0.230%
329	22.507	3127	3133	3138	VV	10	135931	4722612	4.40%	0.120%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	22.566	3138	3143	3147	VV	8	147601	4614245	4.30%	0.117%
331	22.636	3147	3155	3167	VV	8	175153	10048986	9.37%	0.255%
332	22.725	3167	3170	3187	VV	8	112168	7046013	6.57%	0.179%
333	22.848	3187	3191	3196	VV	8	121515	3134704	2.92%	0.080%
334	22.925	3196	3204	3206	VV	9	111426	3971284	3.70%	0.101%
335	22.966	3206	3211	3222	VV	9	113908	5954256	5.55%	0.151%
336	23.048	3222	3225	3233	VV	10	98687	3513577	3.28%	0.089%
337	23.113	3233	3236	3242	VV	8	87829	2486680	2.32%	0.063%
338	23.172	3242	3246	3248	VV	5	86398	1940429	1.81%	0.049%
339	23.195	3248	3250	3252	VV	3	78531	895221	0.83%	0.023%
340	23.219	3252	3254	3263	VV	10	78298	2941423	2.74%	0.075%
341	23.283	3263	3265	3270	VV	6	76599	1642108	1.53%	0.042%
342	23.331	3270	3273	3275	VV	4	83380	1453181	1.35%	0.037%
343	23.372	3275	3280	3282	VV	6	84587	1970947	1.84%	0.050%
344	23.395	3282	3284	3287	VV	4	84322	1180966	1.10%	0.030%
345	23.419	3287	3288	3314	VV	4	86965	6560923	6.12%	0.167%
346	23.589	3314	3317	3337	VV	4	58789	4131111	3.85%	0.105%
347	23.719	3337	3339	3343	VV	5	56305	1018854	0.95%	0.026%
348	23.766	3343	3347	3355	VV	5	65105	2338974	2.18%	0.059%
349	23.825	3355	3357	3360	VV	4	64321	994829	0.93%	0.025%
350	23.860	3360	3363	3380	VV	4	51972	3077278	2.87%	0.078%
351	23.989	3380	3385	3396	VV	4	59579	2606930	2.43%	0.066%
352	24.072	3396	3399	3404	VV	7	42544	1001722	0.93%	0.025%
353	24.125	3404	3408	3418	VV	7	42132	1683224	1.57%	0.043%
354	24.213	3418	3423	3436	VV	7	38280	1726311	1.61%	0.044%
355	24.307	3436	3439	3442	VV	5	29134	525840	0.49%	0.013%
356	24.372	3442	3450	3467	VV	5	31518	1921650	1.79%	0.049%
357	24.489	3467	3470	3472	VV	4	29016	470808	0.44%	0.012%
358	24.525	3472	3476	3480	VV	7	26449	549101	0.51%	0.014%
359	24.566	3480	3483	3491	VV	10	21020	531582	0.50%	0.014%
360	24.625	3491	3493	3496	VV	4	15236	163504	0.15%	0.004%
361	24.754	3496	3515	3536	VV	4	87403	4857880	4.53%	0.123%

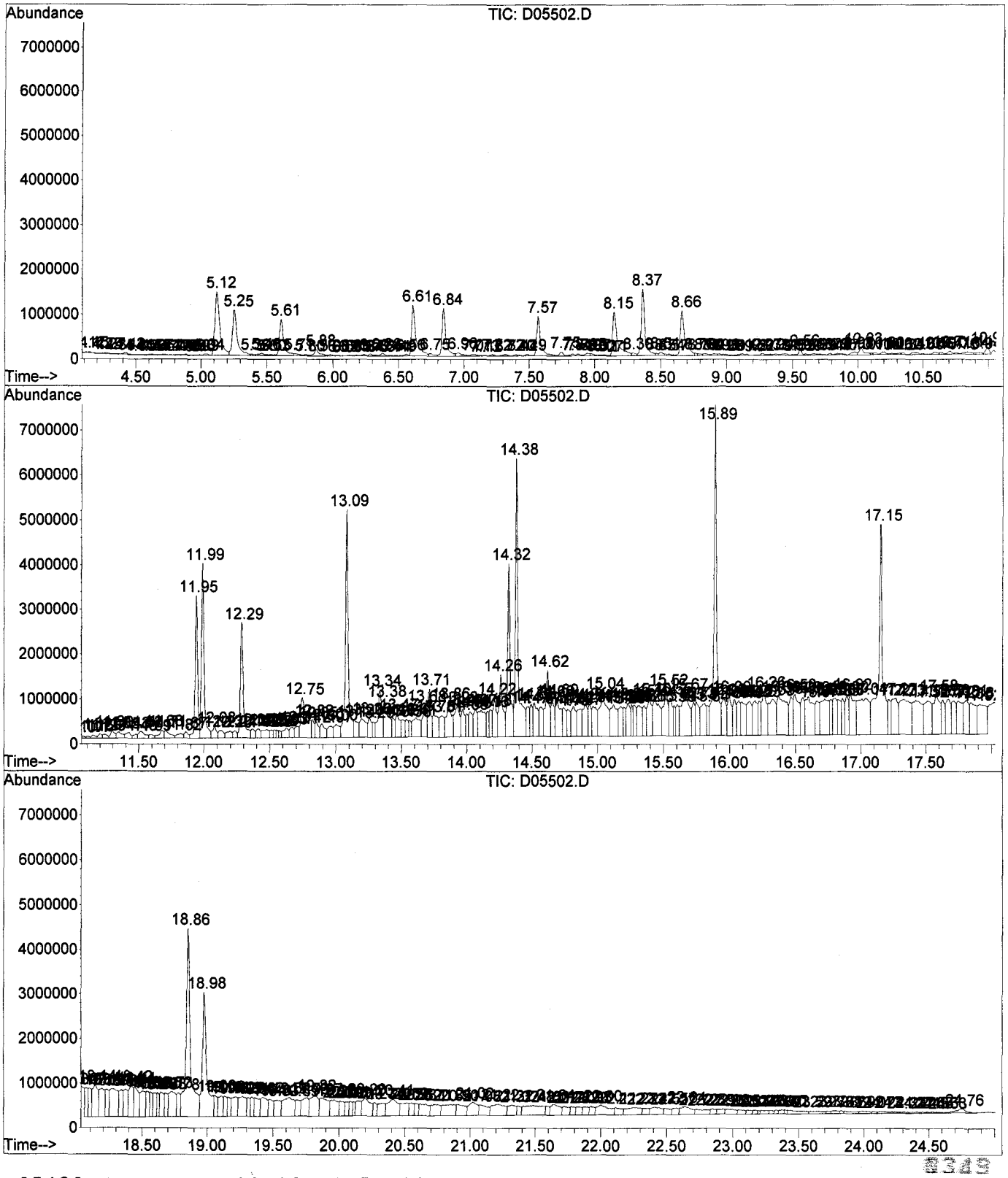
Sum of corrected areas: 3936744040

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

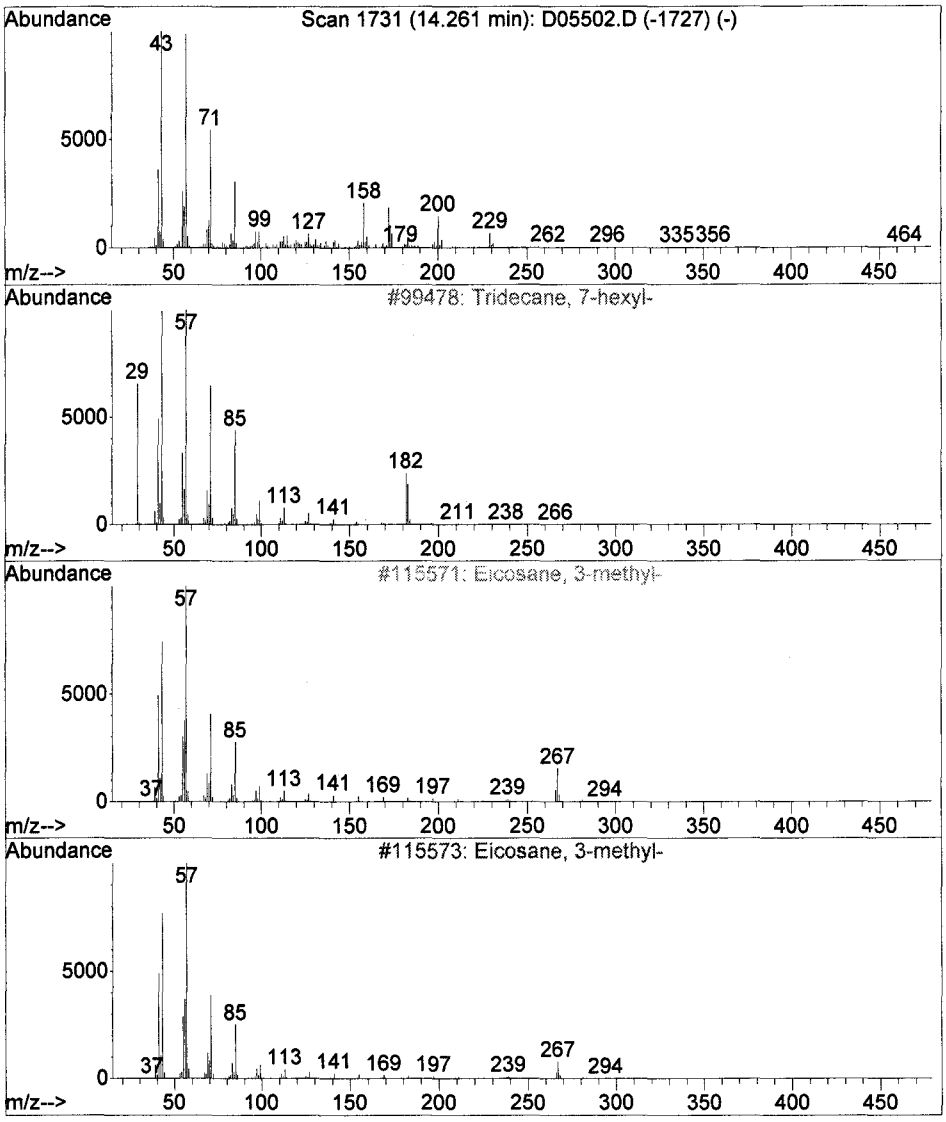
****

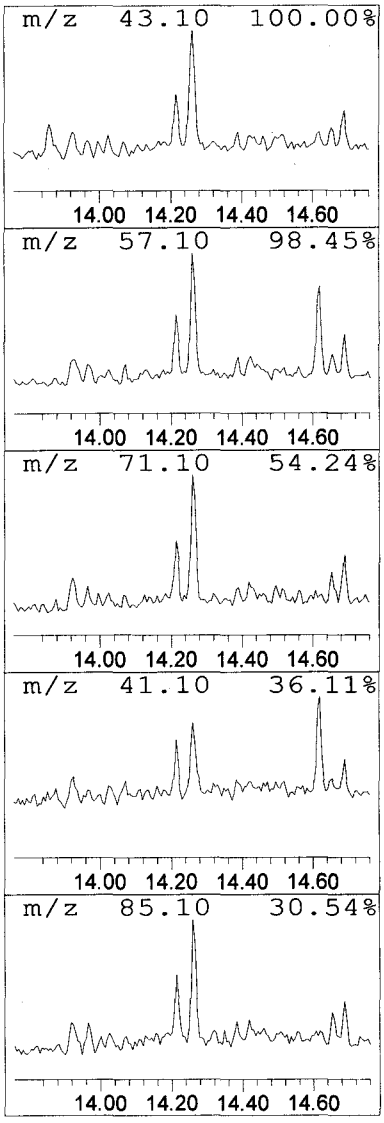
Peak Number 1 Tridecane, 7-hexyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	9.99 ug/L	28284300	Phenanthrene-d10	14.34

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	78
2	Eicosane, 3-methyl-	296	C21H44	006418-46-8	78
3	Eicosane, 3-methyl-	296	C21H44	006418-46-8	78
4	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	60
5	Decane, 2-methyl-	156	C11H24	006975-98-0	53





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

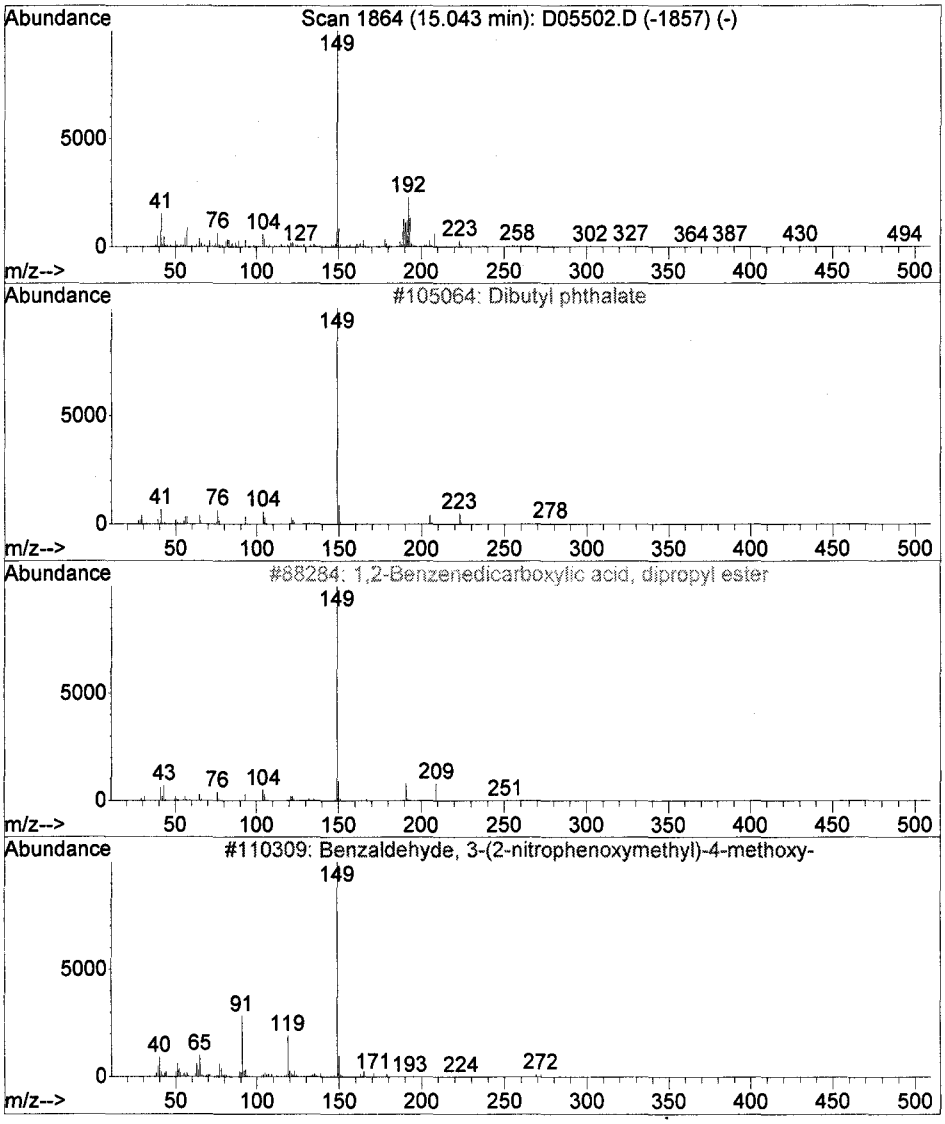
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

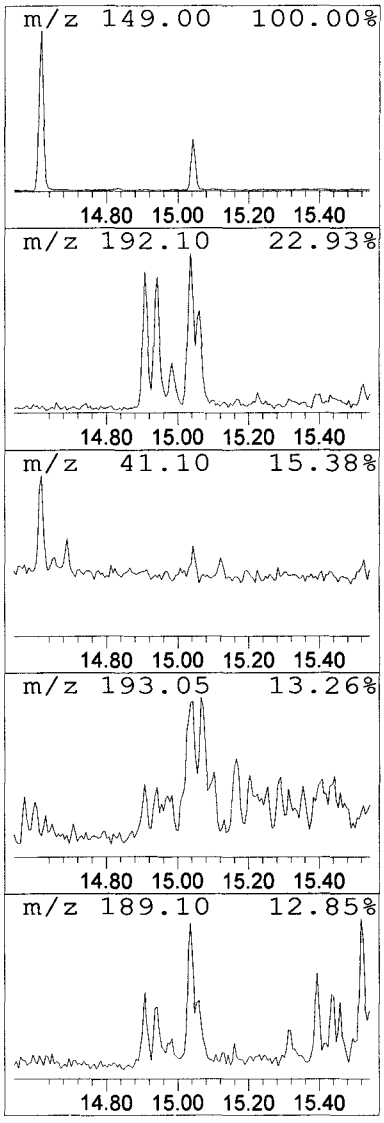
****

Peak Number 2 Dibutyl phthalate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	10.15 ug/L	28735200	Phenanthrene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibutyl phthalate	278	C16H22O4	000084-74-2	50
2	1,2-Benzenedicarboxylic acid, di...	250	C14H18O4	000131-16-8	47
3	Benzaldehyde, 3-(2-nitrophenoxym...	287	C15H13NO5	329222-81-3	43
4	1,2-Benzenedicarboxylic acid, di...	334	C20H30O4	000084-75-3	43
5	1,2-Benzenedicarboxylic acid, bi...	250	C14H18O4	000605-45-8	43





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36
Operator: SV
Sample : F4XQ6
Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

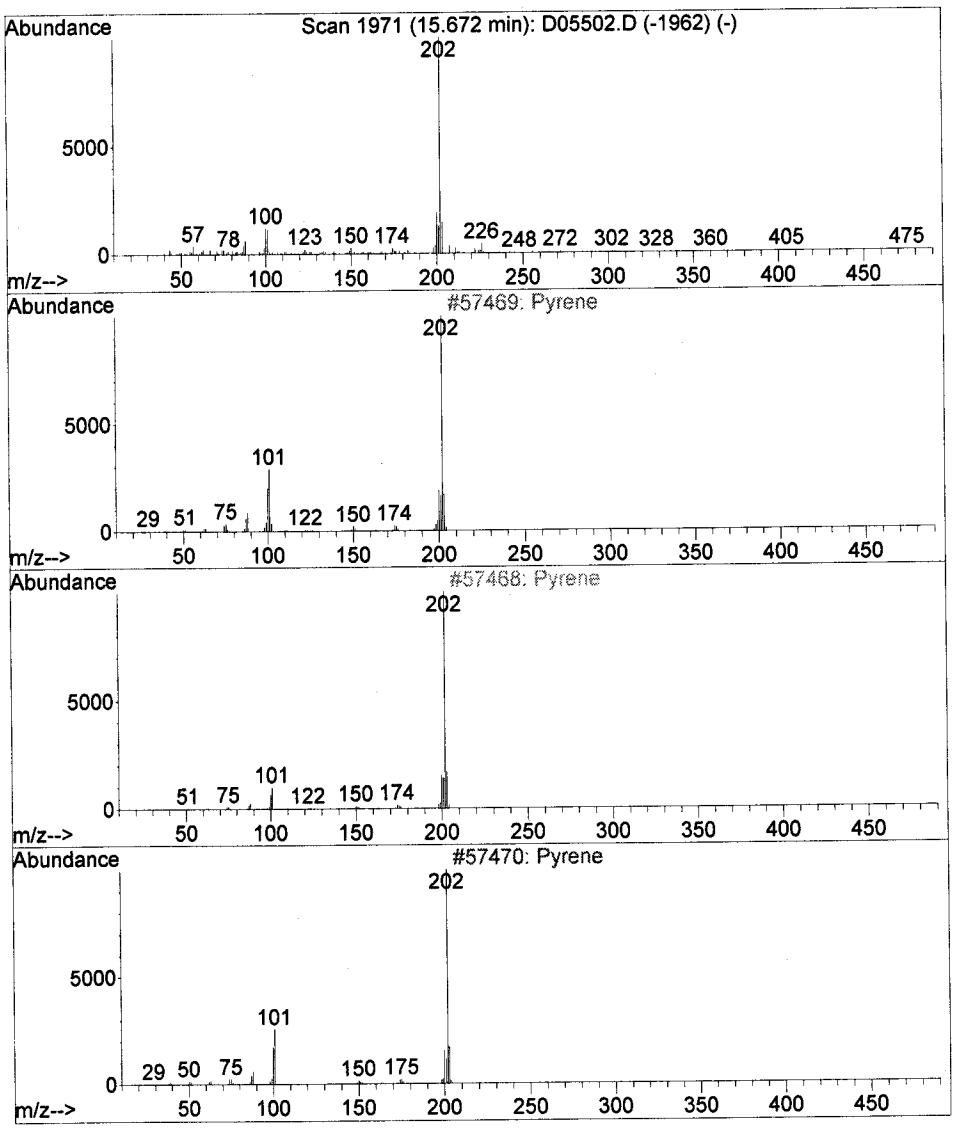
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

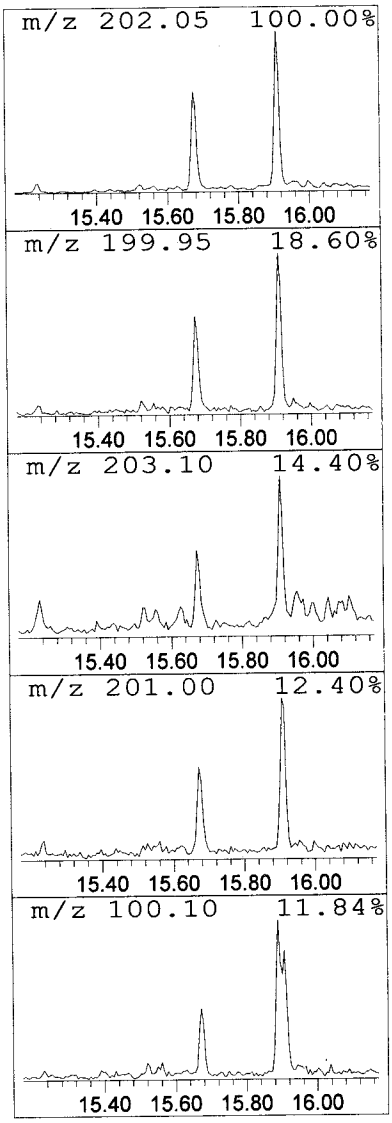
****

Peak Number 3 Pyrene — Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.67	11.06 ug/L	31309700	Phenanthrene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	81
2	Pyrene	202	C16H10	000129-00-0	81
3	Pyrene	202	C16H10	000129-00-0	81
4	Pyrene	202	C16H10	000129-00-0	76
5	Fluoranthene	202	C16H10	000206-44-0	62





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05502.D
Acq On : 12/15/11 11:36 Operator: SV
Sample : F4XQ6 Inst : D-5973
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Tridecane, 7-hexyl-	14.26	10.0	ug/L	28284300	4	14.32	56619500	20.0
Dibutyl phthalate	15.04	10.2	ug/L	28735200	4	14.32	56619500	20.0
Pyrene	15.67	11.1	ug/L	31309700	4	14.32	56619500	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05508

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	260	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	260	U
83-32-9	Acenaphthene	130	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05508

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	260	U
100-02-7	4-Nitrophenol	260	U
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	260	U
534-52-1	4,6-Dinitro-2-methylphenol	260	U
86-30-6	N-Nitrosodiphenylamine 1	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	260	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	64	J
206-44-0	Fluoranthene	79	J
129-00-0	Pyrene	79	J
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	53	J
117-81-7	Bis(2-ethylhexyl)phthalate	53	J
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

1 Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05508

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

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.62	290	J
02		Unknown-02	15.13	230	J
03	000205-99-2	Benz[e]acephenanthrylene	18.43	240	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 10:46:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

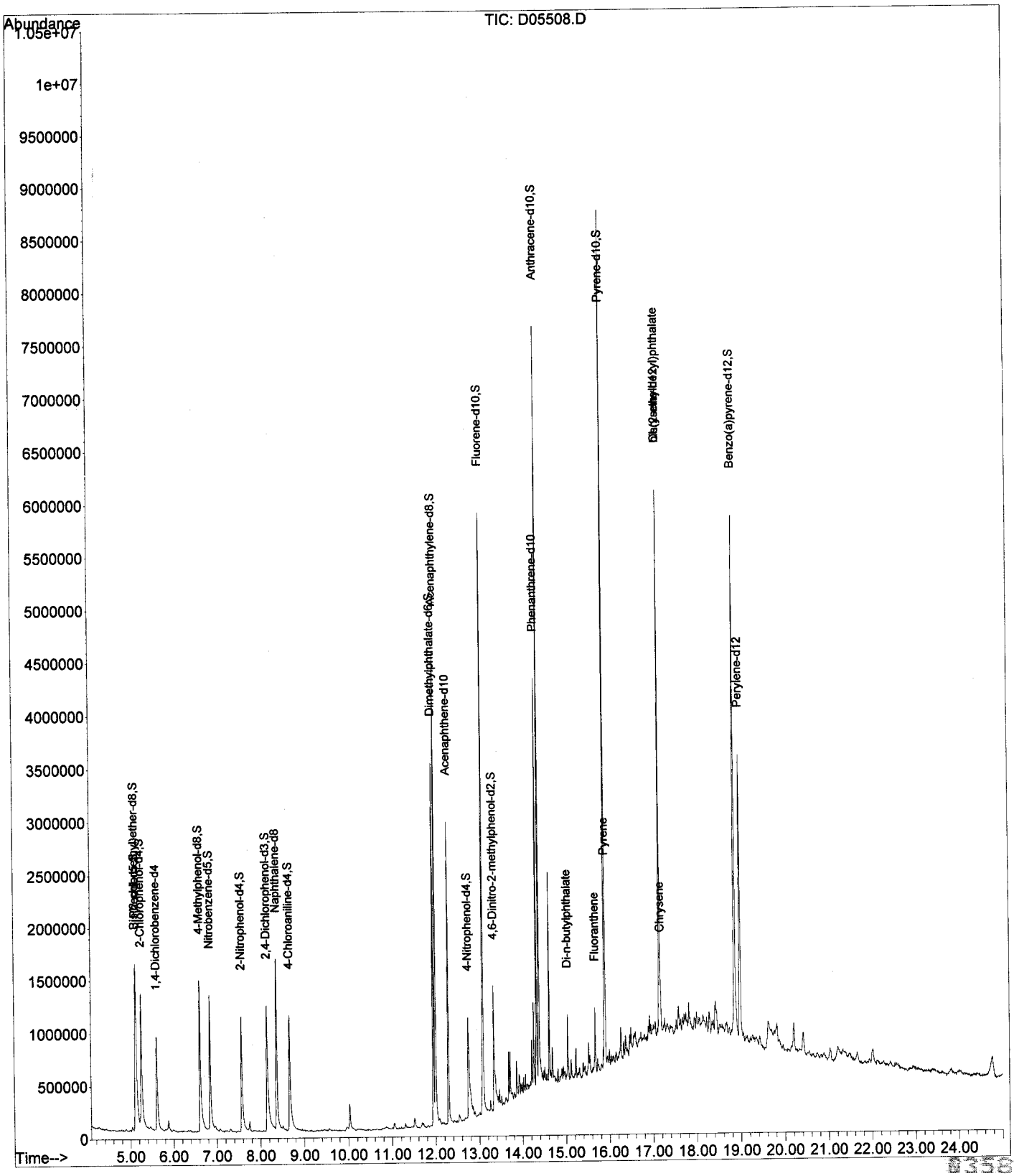
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2864753	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13273143	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8465125	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	15534558	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	16269924	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	16436566	20.0000 ug/L	0.01
System Monitoring Compounds					
3) Phenol-d5	5.13	99	14283545	34.1282 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 85.32%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5418136	31.6204 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 79.05%		
7) 2-Chlorophenol-d4	5.26	132	6765163	34.1235 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 85.31%		
12) 4-Methylphenol-d8	6.62	113	6422787	35.5449 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 88.86%		
17) Nitrobenzene-d5	6.85	128	3501778	35.3703 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 88.43%		
20) 2-Nitrophenol-d4	7.57	143	3843297	40.7570 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 101.89%		
24) 2,4-Dichlorophenol-d3	8.16	165	6213841	36.3786 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 90.95%		
27) 4-Chloroaniline-d4	8.67	131	7545341	39.6495 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 99.12%		
41) Acenaphthylene-d8	12.00	160	28187267	35.9112 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 89.78%		
43) Dimethylphthalate-d6	11.95	166	19577963	36.9188 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 92.30%		
49) 4-Nitrophenol-d4	12.75	143	3860846	51.5093 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 128.77%#		
56) Fluorene-d10	13.09	176	17438313	34.4282 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 86.07%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	2459715	49.6915 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 124.23%#		
68) Anthracene-d10	14.39	188	29506112	35.4086 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 88.52%		
79) Pyrene-d10	15.90	212	31355883	33.4251 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 83.56%		
85) Benzo(a)pyrene-d12	18.87	264	26345031	34.3567 ug/L	0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 85.89%		
Target Compounds					Qvalue
71) Di-n-butylphthalate	15.05	149	2243865	2.4180 ug/L	97
72) Fluoranthene	15.68	202	2583065	2.9969 ug/L	99
75) bis(2-ethylhexyl)phthalate	17.16	149	1353113	2.0081 ug/L #	96
78) Chrysene	17.18	228	1774778	2.0310 ug/L #	87
80) Pyrene	15.91	202	3032951	2.9982 ug/L #	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

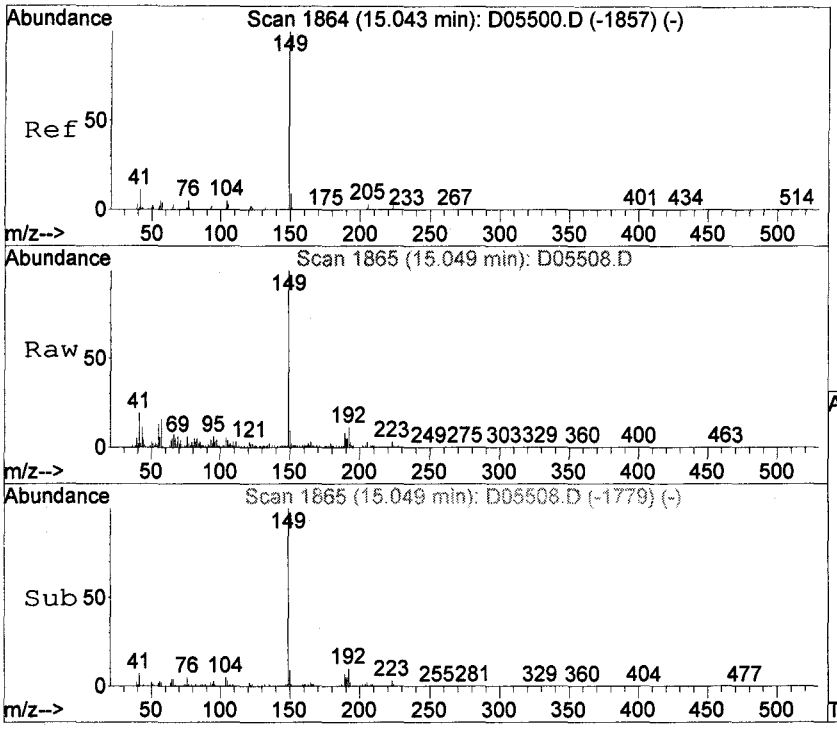
Data File: C:\MSDCHEM\1\DATA\D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 10:46:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



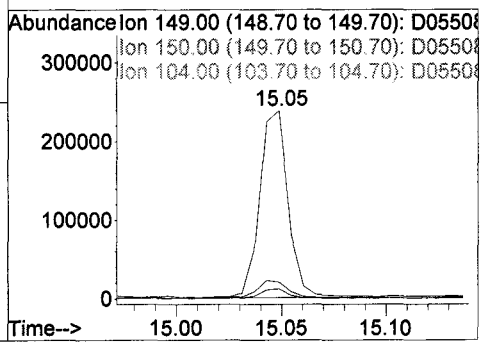
Data File : C:\MSDCHEM\1\DATA\D05508.D
Acq On : 12/15/11 14:40
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

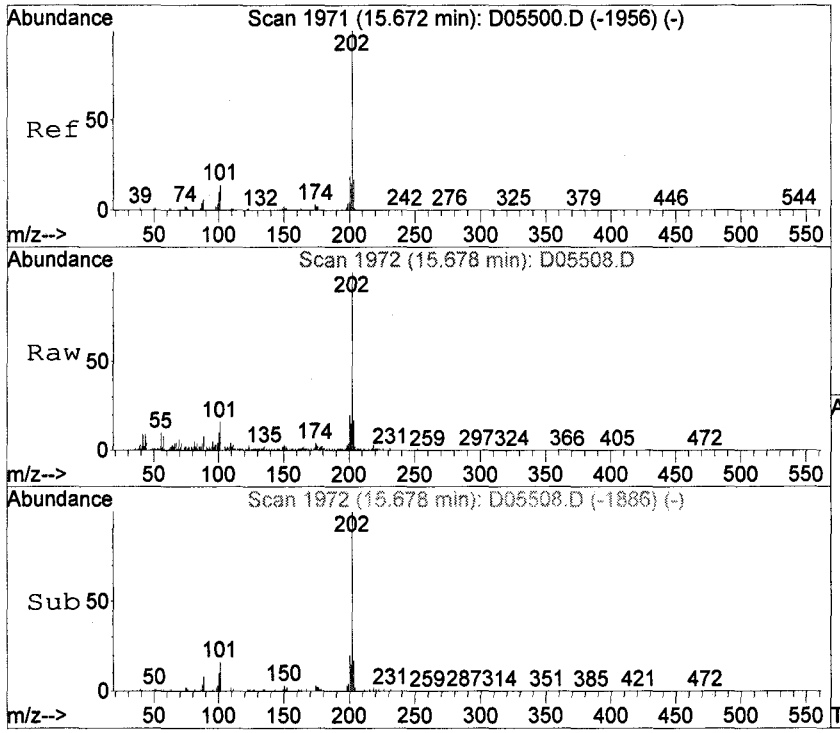
Vial: 10
Operator: SV
Inst : D-5973
Multiplr: 1.00



#71
Di-n-butylphthalate
Concen: 2.42 ug/L
RT: 15.05 min Scan# 1865
Delta R.T. 0.00 min
Integration Range:
Scan=1859 to 1873
R.T.= 15.01 to 15.10 (min)
Tgt Ion:149 Resp: 2243865

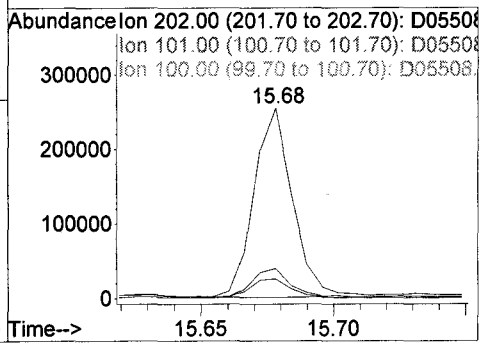
Ion	Ratio	Lower	Upper
149	100		
150	11.8	8.6	12.8
104	5.2	4.6	7.0





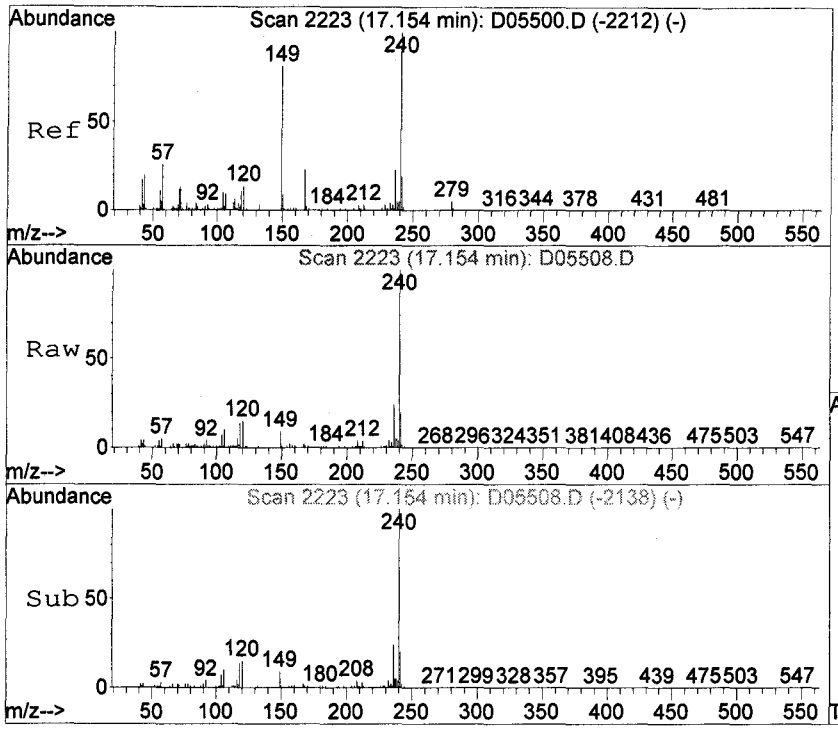
#72
Fluoranthene
Concen: 3.00 ug/L
RT: 15.68 min Scan# 1972
Delta R.T. 0.00 min
Integration Range:
Scan=1967 to 1979
R.T.= 15.65 to 15.72 (min)
Tgt Ion:202 Resp: 2583065

Ion	Ratio	Lower	Upper
202	100		
101	15.9	12.5	18.7
100	12.0	9.4	14.2



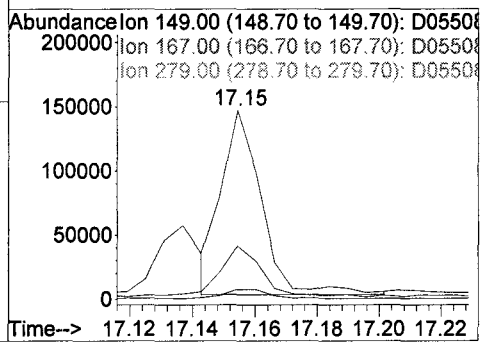
Data File : C:\MSDCHEM\1\DATA\D05508.D
Acq On : 12/15/11 14:40
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

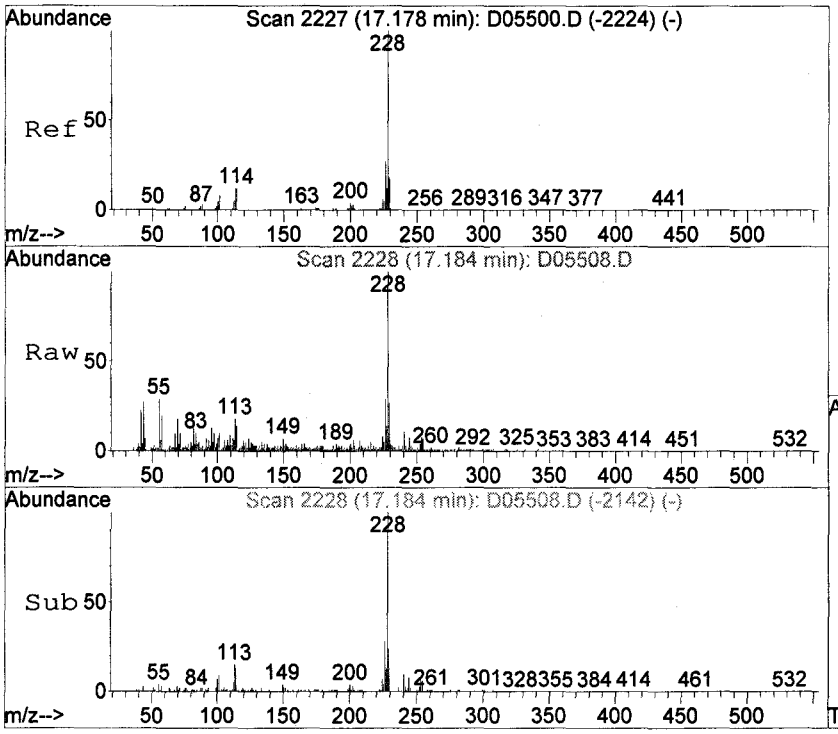
Vial: 10
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 2.01 ug/L
RT: 17.16 min Scan# 2223
Delta R.T. 0.00 min
Integration Range:
Scan=2221 to 2231
R.T.= 17.14 to 17.20 (min)
Tgt Ion:149 Resp: 1353113

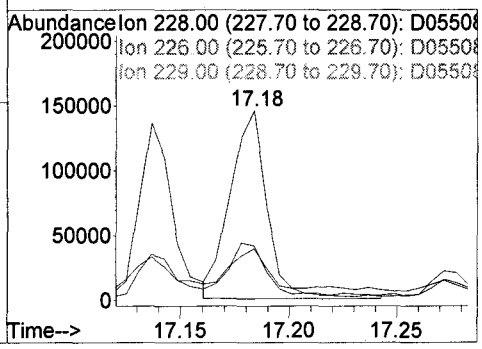
Ion	Ratio	Lower	Upper
149	100		
167	29.0	21.5	32.3
279	6.9	3.8	5.6#





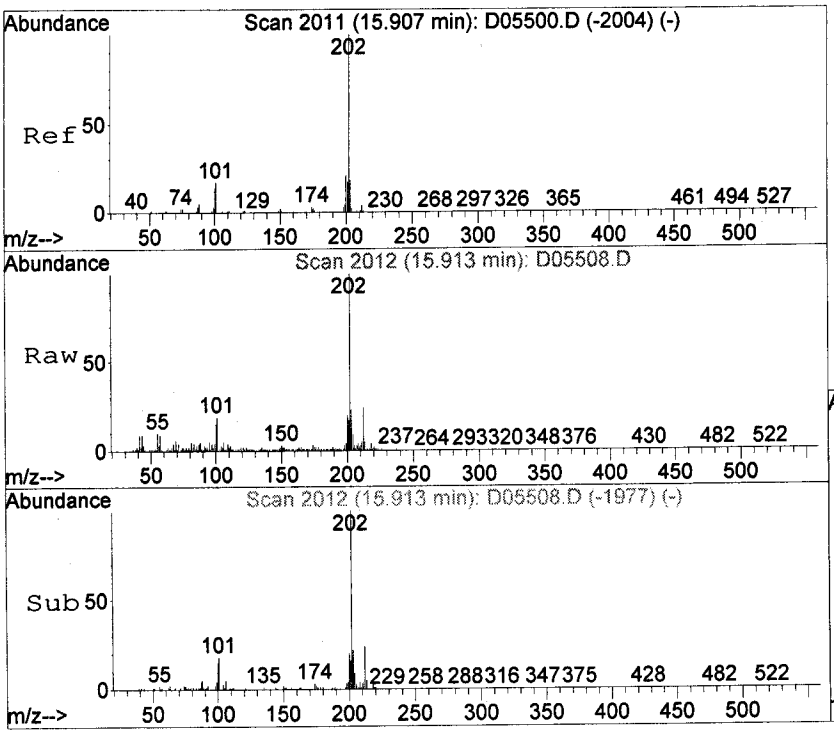
#78
Chrysene
Concen: 2.03 ug/L
RT: 17.18 min Scan# 2228
Delta R.T. 0.00 min
Integration Range:
Scan=2224 to 2238
R.T.= 17.16 to 17.24 (min)
Tgt Ion:228 Resp: 1774778

Ion	Ratio	Lower	Upper
228	100		
226	32.7	22.7	34.1
229	28.5	15.4	23.0#



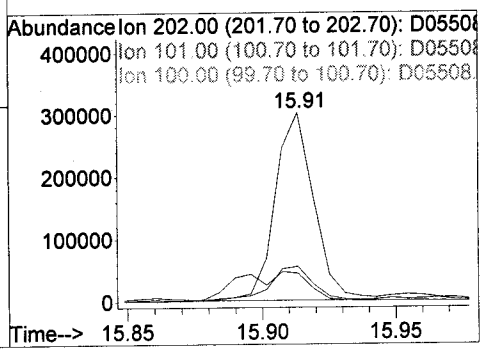
Data File : C:\MSDCHEM\1\DATA\D05508.D
Acq On : 12/15/11 14:40
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 10
Operator: SV
Inst : D-5973
Multiplr: 1.00



#80
Pyrene
Concen: 3.00 ug/L
RT: 15.91 min Scan# 2012
Delta R.T. 0.00 min
Integration Range:
Scan=2006 to 2017
R.T.= 15.88 to 15.94 (min)
Tgt Ion:202 Resp: 3032951

Ion	Ratio	Lower	Upper
202	100		
101	21.4	15.0	22.4
100	30.0	12.7	19.1#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.126	3	8	11	BV 7	5153	28237	0.02%	0.001%
2	4.155	11	13	19	PV 7	8121	49769	0.04%	0.001%
3	4.208	19	22	24	PV 4	7269	56202	0.04%	0.001%
4	4.226	24	25	27	VV 2	9958	81095	0.06%	0.002%
5	4.249	27	29	31	VV 3	14084	154476	0.11%	0.004%
6	4.273	31	33	39	VV 7	17661	290685	0.21%	0.007%
7	4.314	39	40	42	VV 2	5572	37218	0.03%	0.001%
8	4.344	42	45	53	PV 10	10800	195195	0.14%	0.005%
9	4.408	53	56	58	PV 4	5729	66160	0.05%	0.002%
10	4.432	58	60	70	VV 10	13128	170673	0.12%	0.004%
11	4.508	70	73	86	VV 10	3472	69056	0.05%	0.002%
12	4.608	86	90	92	VV 5	7451	88722	0.06%	0.002%
13	4.626	92	93	100	VV 7	7760	72707	0.05%	0.002%
14	4.732	100	111	114	PV 7	9088	191105	0.14%	0.005%
15	4.785	114	120	122	VV 7	11098	184249	0.13%	0.005%
16	4.814	122	125	131	VV 8	9365	174785	0.12%	0.004%
17	4.891	131	138	149	VV 10	18818	525148	0.37%	0.014%
18	4.979	149	153	159	PV 8	11801	245673	0.17%	0.006%
19	5.043	159	164	169	VV 9	41773	812725	0.58%	0.021%
20	5.126	169	178	193	VV 3	1567989	44111087	31.42%	1.135%
21	5.255	193	200	220	VV	1275052	30681214	21.85%	0.789%
22	5.385	220	222	229	VV 7	44150	1153312	0.82%	0.030%
23	5.455	229	234	243	VV 8	48879	1848229	1.32%	0.048%
24	5.514	243	244	250	VV 6	24853	506639	0.36%	0.013%
25	5.614	250	261	277	VV	898717	20289959	14.45%	0.522%
26	5.720	277	279	290	VV	31788	906434	0.65%	0.023%
27	5.808	290	294	296	VV 5	24732	407479	0.29%	0.010%
28	5.843	296	300	301	VV 2	29559	467764	0.33%	0.012%
29	5.885	301	307	319	VV 5	106028	2657141	1.89%	0.068%
30	5.990	319	325	330	VV 10	21201	589517	0.42%	0.015%
31	6.032	330	332	340	VV 9	14478	308948	0.22%	0.008%
32	6.090	340	342	344	VV 3	5215	37083	0.03%	0.001%
33	6.126	344	348	357	VV 3	7239	246219	0.18%	0.006%
34	6.185	357	358	365	VV 6	9537	232963	0.17%	0.006%
35	6.249	365	369	376	VV 10	11272	313008	0.22%	0.008%
36	6.302	376	378	380	VV 3	9959	117363	0.08%	0.003%
37	6.338	380	384	386	VV 5	16177	260697	0.19%	0.007%
38	6.361	386	388	389	VV 2	14219	125683	0.09%	0.003%
39	6.385	389	392	397	VV 7	15873	319294	0.23%	0.008%
40	6.426	397	399	401	VV 3	8736	61461	0.04%	0.002%
41	6.455	401	404	409	VV 7	6277	126559	0.09%	0.003%
42	6.496	409	411	416	VV 6	8638	118086	0.08%	0.003%
43	6.543	416	419	420	PV 3	10925	89053	0.06%	0.002%
44	6.555	420	421	426	VV 4	11023	156138	0.11%	0.004%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.620	426	432	458	VV	1398474	32011403	22.80%	0.823%
46	6.785	458	460	464	VV	5 34956	721837	0.51%	0.019%
47	6.849	464	471	487	VV	1303634	26490449	18.87%	0.681%
48	6.961	487	490	504	VV	55447	1940625	1.38%	0.050%
49	7.079	504	510	520	VV	30784	965918	0.69%	0.025%
50	7.149	520	522	524	VV	3 11566	131689	0.09%	0.003%
51	7.190	524	529	531	VV	6 15750	221116	0.16%	0.006%
52	7.232	531	536	543	VV	6 17548	406863	0.29%	0.010%
53	7.314	543	550	558	VV	6 29256	823311	0.59%	0.021%
54	7.379	558	561	563	VV	4 8721	109116	0.08%	0.003%
55	7.402	563	565	574	VV	9 7427	135697	0.10%	0.003%
56	7.490	574	580	587	VV	9 10106	261528	0.19%	0.007%
57	7.573	587	594	619	VV	1067715	22766323	16.22%	0.586%
58	7.749	619	624	632	VV	2 95944	1869063	1.33%	0.048%
59	7.843	632	640	644	VV	10 15666	478142	0.34%	0.012%
60	7.890	644	648	654	VV	8 14303	362561	0.26%	0.009%
61	7.955	654	659	666	VV	8 12839	396680	0.28%	0.010%
62	8.002	666	667	670	VV	3 9470	102988	0.07%	0.003%
63	8.032	670	672	674	VV	3 6717	77844	0.06%	0.002%
64	8.061	674	677	687	VV	3 13168	394382	0.28%	0.010%
65	8.155	687	693	719	VV	1190797	30298214	21.58%	0.779%
66	8.314	719	720	724	VV	4 47359	734498	0.52%	0.019%
67	8.373	724	730	745	VV	1645218	30107172	21.45%	0.774%
68	8.467	745	746	749	VV	3 45780	577832	0.41%	0.015%
69	8.508	749	753	758	VV	5 54686	1212835	0.86%	0.031%
70	8.543	758	759	762	VV	3 27776	331374	0.24%	0.009%
71	8.579	762	765	768	VV	4 25232	476279	0.34%	0.012%
72	8.608	768	770	772	VV	3 17951	168482	0.12%	0.004%
73	8.667	772	780	807	VV	1092852	26727327	19.04%	0.687%
74	8.837	807	809	811	VV	3 31698	357430	0.25%	0.009%
75	8.855	811	812	816	VV	4 23529	385364	0.27%	0.010%
76	8.890	816	818	819	VV	2 19834	208928	0.15%	0.005%
77	8.908	819	821	824	VV	4 19894	269099	0.19%	0.007%
78	8.937	824	826	833	VV	8 16418	534810	0.38%	0.014%
79	8.990	833	835	842	VV	8 13478	359878	0.26%	0.009%
80	9.043	842	844	850	VV	7 12221	292356	0.21%	0.008%
81	9.090	850	852	855	VV	4 8987	137597	0.10%	0.004%
82	9.120	855	857	861	VV	5 11349	175114	0.12%	0.005%
83	9.161	861	864	870	VV	8 14080	222665	0.16%	0.006%
84	9.243	870	878	880	PV	9 7456	159078	0.11%	0.004%
85	9.284	880	885	897	VV	9 14270	506932	0.36%	0.013%
86	9.384	897	902	905	VV	6 16093	312177	0.22%	0.008%
87	9.461	905	915	919	VV	6 16833	607479	0.43%	0.016%
88	9.496	919	921	926	VV	6 13343	245131	0.17%	0.006%
89	9.567	926	933	937	VV	10 27579	637020	0.45%	0.016%
90	9.596	937	938	947	VV	8 14019	374210	0.27%	0.010%
91	9.673	947	951	955	VV	6 13939	293865	0.21%	0.008%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.720	955	959	963	VV	7	12061	215958	0.15%	0.006%
93	9.755	963	965	969	VV	4	7835	129116	0.09%	0.003%
94	9.802	969	973	977	VV	6	13149	220706	0.16%	0.006%
95	9.837	977	979	981	VV	3	7635	82040	0.06%	0.002%
96	9.873	981	985	987	VV	5	8746	172185	0.12%	0.004%
97	9.896	987	989	993	VV	5	8169	85043	0.06%	0.002%
98	9.967	993	1001	1007	VV	5	38146	1194222	0.85%	0.031%
99	10.031	1007	1012	1022	VV		252943	5339082	3.80%	0.137%
100	10.102	1022	1024	1038	VV		29128	917024	0.65%	0.024%
101	10.202	1038	1041	1055	VV		17848	902559	0.64%	0.023%
102	10.290	1055	1056	1060	VV	4	17714	231990	0.17%	0.006%
103	10.325	1060	1062	1063	VV	2	11059	121902	0.09%	0.003%
104	10.349	1063	1066	1068	VV	4	11820	160835	0.11%	0.004%
105	10.367	1068	1069	1077	VV	8	9590	195239	0.14%	0.005%
106	10.461	1077	1085	1087	PV	9	12210	236111	0.17%	0.006%
107	10.484	1087	1089	1094	VV	5	7178	130853	0.09%	0.003%
108	10.543	1094	1099	1105	VV	10	6865	200519	0.14%	0.005%
109	10.596	1105	1108	1111	VV	5	9452	176050	0.13%	0.005%
110	10.649	1111	1117	1122	VV	10	11107	285339	0.20%	0.007%
111	10.696	1122	1125	1127	VV	4	5697	63037	0.04%	0.002%
112	10.720	1127	1129	1132	VV	4	4814	46840	0.03%	0.001%
113	10.825	1132	1147	1149	VV	4	21259	688985	0.49%	0.018%
114	10.855	1149	1152	1157	VV	7	26045	602177	0.43%	0.015%
115	10.890	1157	1158	1162	VV	4	20175	342450	0.24%	0.009%
116	10.931	1162	1165	1167	VV	4	13976	188903	0.13%	0.005%
117	10.949	1167	1168	1172	VV	4	11528	122646	0.09%	0.003%
118	10.996	1172	1176	1178	VV	4	19061	221855	0.16%	0.006%
119	11.049	1178	1185	1193	VV	3	60214	1359100	0.97%	0.035%
120	11.102	1193	1194	1197	VV	3	8732	102385	0.07%	0.003%
121	11.149	1197	1202	1204	VV	6	13104	119957	0.09%	0.003%
122	11.172	1204	1206	1209	VV	4	11961	147401	0.10%	0.004%
123	11.208	1209	1212	1218	VV	7	18855	326326	0.23%	0.008%
124	11.255	1218	1220	1224	VV	4	10576	141358	0.10%	0.004%
125	11.302	1224	1228	1233	VV	3	51129	844622	0.60%	0.022%
126	11.355	1233	1237	1240	VV	6	20429	364202	0.26%	0.009%
127	11.384	1240	1242	1248	VV	7	13591	279264	0.20%	0.007%
128	11.449	1248	1253	1255	VV	6	15313	317381	0.23%	0.008%
129	11.514	1255	1264	1275	VV	2	95605	2520509	1.80%	0.065%
130	11.584	1275	1276	1284	VV	8	8328	172256	0.12%	0.004%
131	11.684	1284	1293	1296	VV	8	46214	853115	0.61%	0.022%
132	11.714	1296	1298	1303	VV	5	44041	688809	0.49%	0.018%
133	11.767	1303	1307	1310	VV	6	11781	161689	0.12%	0.004%
134	11.796	1310	1312	1314	PV	2	12257	93112	0.07%	0.002%
135	11.820	1314	1316	1321	VV	6	19042	333162	0.24%	0.009%
136	11.872	1321	1325	1329	VV	7	16464	311271	0.22%	0.008%
137	11.949	1329	1338	1342	VV		3397108	43205354	30.78%	1.111%
138	11.996	1342	1346	1358	VV		4368620	62552700	44.56%	1.609%
139	12.084	1358	1361	1368	VV	9	77203	2092514	1.49%	0.054%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.143	1368	1371	1374	VV	4	34126	565442	0.40%	0.015%
141	12.184	1374	1378	1384	VV	9	36511	890088	0.63%	0.023%
142	12.231	1384	1386	1388	VV	3	26932	341257	0.24%	0.009%
143	12.296	1388	1397	1409	VV		2809876	38266588	27.26%	0.984%
144	12.372	1409	1410	1414	VV	4	45640	808605	0.58%	0.021%
145	12.425	1414	1419	1423	VV	7	45965	1118432	0.80%	0.029%
146	12.455	1423	1424	1427	VV	3	37890	521923	0.37%	0.013%
147	12.484	1427	1429	1432	VV	3	42989	594573	0.42%	0.015%
148	12.543	1432	1439	1458	VV		95514	4330498	3.08%	0.111%
149	12.678	1458	1462	1464	VV	5	65088	1215397	0.87%	0.031%
150	12.755	1464	1475	1491	VV		1005166	30311131	21.59%	0.780%
151	12.861	1491	1493	1497	VV	5	160383	2599655	1.85%	0.067%
152	12.902	1497	1500	1506	VV	8	114577	2668173	1.90%	0.069%
153	12.966	1506	1511	1514	VV	6	79280	2174015	1.55%	0.056%
154	13.014	1514	1519	1523	VV	7	101545	2663363	1.90%	0.069%
155	13.090	1523	1532	1547	VV	2	5671128	79699871	56.77%	2.050%
156	13.190	1547	1549	1556	VV	7	122168	3457238	2.46%	0.089%
157	13.261	1556	1561	1567	VV	6	201171	5649550	4.02%	0.145%
158	13.343	1567	1575	1590	VV	3	1262131	32078530	22.85%	0.825%
159	13.437	1590	1591	1593	VV	2	236652	2856899	2.03%	0.073%
160	13.466	1593	1596	1602	VV	2	297780	6174291	4.40%	0.159%
161	13.519	1602	1605	1608	VV		236096	4077559	2.90%	0.105%
162	13.549	1608	1610	1615	VV	6	175357	4499702	3.21%	0.116%
163	13.614	1615	1621	1627	VV	9	222028	8082404	5.76%	0.208%
164	13.684	1627	1633	1636	VV		617323	10165226	7.24%	0.261%
165	13.719	1636	1639	1644	VV		612807	10301562	7.34%	0.265%
166	13.761	1644	1646	1651	VV	6	264662	6049601	4.31%	0.156%
167	13.808	1651	1654	1659	VV	6	259478	7292531	5.19%	0.188%
168	13.866	1659	1664	1670	VV		556028	12404117	8.84%	0.319%
169	13.931	1670	1675	1679	VV	3	427818	11280263	8.03%	0.290%
170	13.972	1679	1682	1685	VV	4	336663	5874635	4.18%	0.151%
171	14.002	1685	1687	1689	VV		342750	4588963	3.27%	0.118%
172	14.031	1689	1692	1696	VV	2	398036	7498903	5.34%	0.193%
173	14.072	1696	1699	1704	VV	3	413833	9241137	6.58%	0.238%
174	14.131	1704	1709	1712	VV	6	330457	8138944	5.80%	0.209%
175	14.190	1712	1719	1721	VV	7	355112	10172500	7.25%	0.262%
176	14.219	1721	1724	1727	VV		746884	11527539	8.21%	0.297%
177	14.266	1727	1732	1738	VV		1062917	21001658	14.96%	0.540%
178	14.325	1738	1742	1748	VV		3890021	51619548	36.77%	1.328%
179	14.384	1748	1752	1757	VV		6922965	81715137	58.21%	2.102%
180	14.419	1757	1758	1764	VV	3	557422	11667595	8.31%	0.300%
181	14.466	1764	1766	1769	VV	4	428470	6213064	4.43%	0.160%
182	14.496	1769	1771	1773	VV		438371	6418654	4.57%	0.165%
183	14.519	1773	1775	1778	VV	3	470057	6967181	4.96%	0.179%
184	14.566	1778	1783	1787	VV	5	414116	12026127	8.57%	0.309%
185	14.619	1787	1792	1797	VV		2077619	27969105	19.92%	0.719%
186	14.661	1797	1799	1802	VV	4	441477	7333773	5.22%	0.189%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.696	1802	1805	1809	VV 2	657462	12427767	8.85%	0.320%
188	14.725	1809	1810	1812	VV 2	389359	4442524	3.16%	0.114%
189	14.743	1812	1813	1816	VV 3	383748	5291590	3.77%	0.136%
190	14.772	1816	1818	1823	VV 6	361957	8545983	6.09%	0.220%
191	14.819	1823	1826	1830	VV 2	446865	8633599	6.15%	0.222%
192	14.913	1830	1842	1845	VV 6	452034	19711050	14.04%	0.507%
193	14.949	1845	1848	1850	VV 2	461187	7188010	5.12%	0.185%
194	14.966	1850	1851	1853	VV 2	416865	5017127	3.57%	0.129%
195	14.984	1853	1854	1857	VV 2	418301	5722672	4.08%	0.147%
196	15.049	1857	1865	1872	VV 2	942677	25403086	18.09%	0.653%
197	15.131	1872	1879	1888	VV	519204	22458290	16.00%	0.578%
198	15.237	1888	1897	1900	VV 2	628891	18580655	13.24%	0.478%
199	15.266	1900	1902	1904	VV 3	390725	4451763	3.17%	0.115%
200	15.290	1904	1906	1908	VV 3	402203	5287127	3.77%	0.136%
201	15.313	1908	1910	1917	VV 7	440336	12409457	8.84%	0.319%
202	15.360	1917	1918	1920	VV 2	357587	3949652	2.81%	0.102%
203	15.402	1920	1925	1928	VV 6	487981	11839868	8.43%	0.305%
204	15.443	1928	1932	1939	VV 7	450734	16265036	11.59%	0.418%
205	15.525	1939	1946	1949	VV	654414	16662104	11.87%	0.429%
206	15.560	1949	1952	1958	VV 5	549933	15026321	10.70%	0.387%
207	15.607	1958	1960	1962	VV 3	415419	4909094	3.50%	0.126%
208	15.631	1962	1964	1966	VV 3	438299	5612965	4.00%	0.144%
209	15.678	1966	1972	1978	VV	963450	25591235	18.23%	0.658%
210	15.731	1978	1981	1984	VV 5	501851	8451423	6.02%	0.217%
211	15.755	1984	1985	1989	VV 4	456743	8008868	5.70%	0.206%
212	15.784	1989	1990	1992	VV 2	406510	4111843	2.93%	0.106%
213	15.825	1992	1997	2001	VV 7	459811	14147389	10.08%	0.364%
214	15.896	2001	2009	2017	VV	8206783	114010469	81.21%	2.933%
215	15.960	2017	2020	2025	VV 6	531575	13102511	9.33%	0.337%
216	16.002	2025	2027	2031	VV 5	579269	11599446	8.26%	0.298%
217	16.043	2031	2034	2037	VV 3	533620	10797025	7.69%	0.278%
218	16.102	2037	2044	2049	VV 10	528586	21151640	15.07%	0.544%
219	16.155	2049	2053	2058	VV 3	561943	15169063	10.81%	0.390%
220	16.202	2058	2061	2063	VV 4	516215	10047131	7.16%	0.258%
221	16.231	2063	2066	2067	VV 3	559732	7880379	5.61%	0.203%
222	16.266	2067	2072	2077	VV 2	780884	21029431	14.98%	0.541%
223	16.307	2077	2079	2080	VV 2	518511	5767812	4.11%	0.148%
224	16.337	2080	2084	2088	VV 4	653199	15183784	10.82%	0.391%
225	16.378	2088	2091	2096	VV 2	711307	17263412	12.30%	0.444%
226	16.413	2096	2097	2103	VV 6	587749	15359672	10.94%	0.395%
227	16.472	2103	2107	2109	VV	707443	12859509	9.16%	0.331%
228	16.502	2109	2112	2118	VV 2	779448	21494463	15.31%	0.553%
229	16.560	2118	2122	2124	VV 5	701239	11853629	8.44%	0.305%
230	16.584	2124	2126	2128	VV 3	718276	10371655	7.39%	0.267%
231	16.602	2128	2129	2137	VV 8	729870	21335834	15.20%	0.549%
232	16.713	2137	2148	2149	VV 10	677132	27398470	19.52%	0.705%
233	16.731	2149	2151	2154	VV 4	723535	10940596	7.79%	0.281%
234	16.754	2154	2155	2157	VV 2	668355	7912332	5.64%	0.204%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.778	2157	2159	2161	VV	3	671171	8647927	6.16%	0.222%
236	16.807	2161	2164	2167	VV	3	705234	15482351	11.03%	0.398%
237	16.843	2167	2170	2172	VV	4	674773	11407913	8.13%	0.293%
238	16.866	2172	2174	2176	VV	2	682288	9597407	6.84%	0.247%
239	16.902	2176	2180	2182	VV	3	776591	13718691	9.77%	0.353%
240	16.925	2182	2184	2187	VV	3	872907	15140529	10.78%	0.389%
241	16.954	2187	2189	2193	VV	4	792473	15319175	10.91%	0.394%
242	17.013	2193	2199	2202	VV	7	784293	22689817	16.16%	0.584%
243	17.060	2202	2207	2212	VV	4	815510	26547967	18.91%	0.683%
244	17.107	2212	2215	2217	VV	4	745416	13143363	9.36%	0.338%
245	17.160	2217	2224	2236	VV		5601050	107978170	76.91%	2.777%
246	17.272	2236	2243	2247	VV	7	833349	29057705	20.70%	0.747%
247	17.331	2247	2253	2261	VV	7	788303	38341453	27.31%	0.986%
248	17.401	2261	2265	2267	VV	5	767196	15016382	10.70%	0.386%
249	17.425	2267	2269	2272	VV	4	760368	13303968	9.48%	0.342%
250	17.449	2272	2273	2277	VV	4	747896	14018663	9.99%	0.361%
251	17.496	2277	2281	2283	VV	5	711586	12935987	9.21%	0.333%
252	17.537	2283	2288	2292	VV		814177	25542627	18.19%	0.657%
253	17.590	2292	2297	2301	VV	3	937612	25920335	18.46%	0.667%
254	17.637	2301	2305	2308	VV	4	815323	19358338	13.79%	0.498%
255	17.684	2308	2313	2316	VV	6	828921	19792121	14.10%	0.509%
256	17.719	2316	2319	2322	VV	4	859113	18643326	13.28%	0.480%
257	17.754	2322	2325	2333	VV	9	876848	29900201	21.30%	0.769%
258	17.819	2333	2336	2339	VV		958000	20205397	14.39%	0.520%
259	17.849	2339	2341	2344	VV	4	823958	13141596	9.36%	0.338%
260	17.872	2344	2345	2349	VV	4	765153	12485863	8.89%	0.321%
261	17.901	2349	2350	2354	VV	4	738047	12677366	9.03%	0.326%
262	17.949	2354	2358	2363	VV	5	822876	24384302	17.37%	0.627%
263	17.996	2363	2366	2373	VV	4	867046	29887914	21.29%	0.769%
264	18.054	2373	2376	2381	VV	4	815000	20025870	14.26%	0.515%
265	18.148	2381	2392	2395	VV	8	837805	40589133	28.91%	1.044%
266	18.178	2395	2397	2402	VV	5	783673	18975569	13.52%	0.488%
267	18.225	2402	2405	2410	VV	5	809351	20684611	14.73%	0.532%
268	18.284	2410	2415	2422	VV	3	864555	30598897	21.80%	0.787%
269	18.348	2422	2426	2428	VV	4	767778	17145590	12.21%	0.441%
270	18.378	2428	2431	2434	VV	4	774458	15705485	11.19%	0.404%
271	18.425	2434	2439	2449	VV	2	959106	43663376	31.10%	1.123%
272	18.513	2449	2454	2459	VV	9	734139	22985872	16.37%	0.591%
273	18.578	2459	2465	2468	VV	6	735486	22423826	15.97%	0.577%
274	18.601	2468	2469	2474	VV	5	710331	15186864	10.82%	0.391%
275	18.660	2474	2479	2481	VV	6	739353	18977667	13.52%	0.488%
276	18.684	2481	2483	2487	VV	4	746818	14047874	10.01%	0.361%
277	18.743	2487	2493	2498	VV	10	697760	25744560	18.34%	0.662%
278	18.790	2498	2501	2503	VV	4	667430	11087874	7.90%	0.285%
279	18.866	2503	2514	2528	VV		5475015	140389258	100.00%	3.611%
280	18.990	2528	2535	2545	VV		3263785	81219171	57.85%	2.089%
281	19.066	2545	2548	2552	VV	6	645696	14600360	10.40%	0.376%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.154	2552	2563	2566	VV	6	603790	28998886	20.66%	0.746%
283	19.178	2566	2567	2571	VV	4	556978	8896622	6.34%	0.229%
284	19.219	2571	2574	2579	VV	7	587934	16440291	11.71%	0.423%
285	19.266	2579	2582	2586	VV	6	609809	14267415	10.16%	0.367%
286	19.301	2586	2588	2594	VV	7	585852	16148834	11.50%	0.415%
287	19.348	2594	2596	2606	VV	7	586161	23498981	16.74%	0.604%
288	19.431	2606	2610	2617	VV	5	590157	21843313	15.56%	0.562%
289	19.484	2617	2619	2628	VV	10	503688	18936699	13.49%	0.487%
290	19.560	2628	2632	2634	VV	5	481134	9500450	6.77%	0.244%
291	19.631	2634	2644	2653	VV	7	724136	40871985	29.11%	1.051%
292	19.695	2653	2655	2664	VV	9	647180	24649556	17.56%	0.634%
293	19.766	2664	2667	2670	VV	5	630789	12416750	8.84%	0.319%
294	19.825	2670	2677	2682	VV	6	694481	27454814	19.56%	0.706%
295	19.878	2682	2686	2697	VV	6	544726	26608288	18.95%	0.684%
296	19.960	2697	2700	2707	VV	9	487731	16029141	11.42%	0.412%
297	20.013	2707	2709	2710	VV	2	443140	5766390	4.11%	0.148%
298	20.031	2710	2712	2716	VV	5	439539	9287552	6.62%	0.239%
299	20.066	2716	2718	2727	VV	10	447212	16518733	11.77%	0.425%
300	20.154	2727	2733	2736	VV	8	472558	13477168	9.60%	0.347%
301	20.207	2736	2742	2749	VV		683537	26379932	18.79%	0.679%
302	20.260	2749	2751	2753	VV	3	438778	5180759	3.69%	0.133%
303	20.284	2753	2755	2759	VV	5	437571	9811326	6.99%	0.252%
304	20.337	2759	2764	2765	VV	5	439123	9027115	6.43%	0.232%
305	20.354	2765	2767	2771	VV	5	432780	8396065	5.98%	0.216%
306	20.425	2771	2779	2792	VV	9	591192	33885604	24.14%	0.872%
307	20.519	2792	2795	2798	VV	5	398367	8898136	6.34%	0.229%
308	20.560	2798	2802	2810	VV	5	410997	15557948	11.08%	0.400%
309	20.631	2810	2814	2816	VV	5	381782	8174355	5.82%	0.210%
310	20.654	2816	2818	2821	VV	4	380570	6611175	4.71%	0.170%
311	20.678	2821	2822	2825	VV	3	357510	4888090	3.48%	0.126%
312	20.737	2825	2832	2839	VV	3	385207	18333790	13.06%	0.472%
313	20.790	2839	2841	2842	VV	2	345290	3607981	2.57%	0.093%
314	20.831	2842	2848	2853	VV	10	367628	13583202	9.68%	0.349%
315	20.895	2853	2859	2863	VV	9	382204	12156876	8.66%	0.313%
316	20.925	2863	2864	2872	VV	8	356576	10621588	7.57%	0.273%
317	21.031	2872	2882	2897	VV	5	415248	30740811	21.90%	0.791%
318	21.131	2897	2899	2901	VV	3	316994	3978291	2.83%	0.102%
319	21.219	2901	2914	2925	VV	3	427295	31552698	22.48%	0.812%
320	21.331	2925	2933	2955	VV	3	399316	37864245	26.97%	0.974%
321	21.489	2955	2960	2970	VV	3	355867	17939596	12.78%	0.461%
322	21.560	2970	2972	2979	VV	8	312771	9396820	6.69%	0.242%
323	21.660	2979	2989	3001	VV	5	360132	22979740	16.37%	0.591%
324	21.748	3001	3004	3011	VV	9	271279	9414244	6.71%	0.242%
325	21.831	3011	3018	3026	VV	9	269526	13191136	9.40%	0.339%
326	21.889	3026	3028	3030	VV	3	263577	3525836	2.51%	0.091%
327	21.907	3030	3031	3033	VV	2	258080	2925002	2.08%	0.075%
328	21.942	3033	3037	3042	VV	8	286838	9102981	6.48%	0.234%
329	22.019	3042	3050	3060	VV	8	373384	18919111	13.48%	0.487%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	22.089	3060	3062	3063	VV	2	249943	2851280	2.03%	0.073%
331	22.119	3063	3067	3080	VV	2	264300	14091859	10.04%	0.362%
332	22.272	3080	3093	3097	VV	2	254006	14383747	10.25%	0.370%
333	22.307	3097	3099	3105	VV	7	229471	6315021	4.50%	0.162%
334	22.354	3105	3107	3112	VV	6	224747	5719720	4.07%	0.147%
335	22.419	3112	3118	3121	VV	8	244008	6694797	4.77%	0.172%
336	22.442	3121	3122	3129	VV	7	228126	5938275	4.23%	0.153%
337	22.501	3129	3132	3134	VV	4	198270	3414873	2.43%	0.088%
338	22.531	3134	3137	3139	VV	4	226912	3980067	2.84%	0.102%
339	22.566	3139	3143	3147	VV	7	222364	5251260	3.74%	0.135%
340	22.595	3147	3148	3151	VV	3	214236	3115810	2.22%	0.080%
341	22.625	3151	3153	3158	VV	6	200128	4634929	3.30%	0.119%
342	22.666	3158	3160	3162	VV	3	177179	2530340	1.80%	0.065%
343	22.689	3162	3164	3170	VV	7	177398	4670059	3.33%	0.120%
344	22.736	3170	3172	3174	VV	3	168354	2312195	1.65%	0.059%
345	22.778	3174	3179	3188	VV	3	159529	7133794	5.08%	0.183%
346	22.842	3188	3190	3194	VV	5	156339	3170047	2.26%	0.082%
347	22.872	3194	3195	3197	VV	2	165041	1776873	1.27%	0.046%
348	22.889	3197	3198	3202	VV	4	165037	3120700	2.22%	0.080%
349	22.966	3202	3211	3215	VV	4	181019	7714900	5.50%	0.198%
350	23.001	3215	3217	3223	VV	7	170907	4109334	2.93%	0.106%
351	23.048	3223	3225	3237	VV	7	157556	7232498	5.15%	0.186%
352	23.131	3237	3239	3250	VV	7	146147	6315005	4.50%	0.162%
353	23.207	3250	3252	3256	VV	5	136037	2499461	1.78%	0.064%
354	23.236	3256	3257	3261	VV	4	133313	2296463	1.64%	0.059%
355	23.266	3261	3262	3265	VV	3	122774	1533886	1.09%	0.039%
356	23.295	3265	3267	3269	VV	3	135347	1986281	1.41%	0.051%
357	23.325	3269	3272	3276	VV	6	129185	3057774	2.18%	0.079%
358	23.360	3276	3278	3280	VV	3	130373	1405593	1.00%	0.036%
359	23.401	3280	3285	3291	VV	10	137293	4988239	3.55%	0.128%
360	23.442	3291	3292	3296	VV	4	132479	2454105	1.75%	0.063%
361	23.478	3296	3298	3300	VV	3	116023	1416606	1.01%	0.036%
362	23.495	3300	3301	3306	VV	5	115373	2313518	1.65%	0.060%
363	23.542	3306	3309	3313	VV	6	108070	2243333	1.60%	0.058%
364	23.578	3313	3315	3318	VV	4	97497	1773967	1.26%	0.046%
365	23.607	3318	3320	3322	VV	3	107121	1455373	1.04%	0.037%
366	23.631	3322	3324	3330	VV	7	100083	2320237	1.65%	0.060%
367	23.678	3330	3332	3333	VV	2	89259	1035737	0.74%	0.027%
368	23.701	3333	3336	3339	VV	5	84614	1732943	1.23%	0.045%
369	23.754	3339	3345	3346	VV	6	84885	1934061	1.38%	0.050%
370	23.813	3346	3355	3363	VV	6	119079	6147101	4.38%	0.158%
371	23.872	3363	3365	3373	VV	9	93132	2817969	2.01%	0.072%
372	23.930	3373	3375	3377	VV	3	83617	1160853	0.83%	0.030%
373	23.978	3377	3383	3386	VV	8	93547	2655429	1.89%	0.068%
374	24.007	3386	3388	3392	VV	5	104860	1953759	1.39%	0.050%
375	24.048	3392	3395	3401	VV	8	95864	2549222	1.82%	0.066%
376	24.095	3401	3403	3405	VV	3	75253	964882	0.69%	0.025%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	24.130	3405	3409	3413	VV	7	73475	2006199	1.43%	0.052%
378	24.178	3413	3417	3420	VV	6	68376	1388953	0.99%	0.036%
379	24.201	3420	3421	3424	VV	3	59038	786143	0.56%	0.020%
380	24.230	3424	3426	3428	VV	3	63498	782676	0.56%	0.020%
381	24.254	3428	3430	3433	VV	4	52466	799615	0.57%	0.021%
382	24.295	3433	3437	3438	VV	4	51767	759747	0.54%	0.020%
383	24.313	3438	3440	3443	VV	4	50373	779259	0.56%	0.020%
384	24.348	3443	3446	3451	VV	7	59814	1344771	0.96%	0.035%
385	24.389	3451	3453	3455	VV	3	56610	705535	0.50%	0.018%
386	24.419	3455	3458	3460	VV	4	61679	996584	0.71%	0.026%
387	24.448	3460	3463	3465	VV	4	52037	900742	0.64%	0.023%
388	24.466	3465	3466	3473	VV	7	53153	1062438	0.76%	0.027%
389	24.554	3473	3481	3485	VV	7	43074	1396716	0.99%	0.036%
390	24.595	3485	3488	3493	VV	7	43570	1036658	0.74%	0.027%
391	24.636	3493	3495	3498	VV	4	40725	665001	0.47%	0.017%
392	24.666	3498	3500	3501	VV	2	48619	490953	0.35%	0.013%
393	24.772	3501	3518	3528	VV	2	205229	10327798	7.36%	0.266%
394	24.836	3528	3529	3536	VV	7	22709	283134	0.20%	0.007%
395	24.907	3536	3541	3545	PV	8	12734	249278	0.18%	0.006%
396	24.942	3545	3547	3549	PV	3	13732	77421	0.06%	0.002%

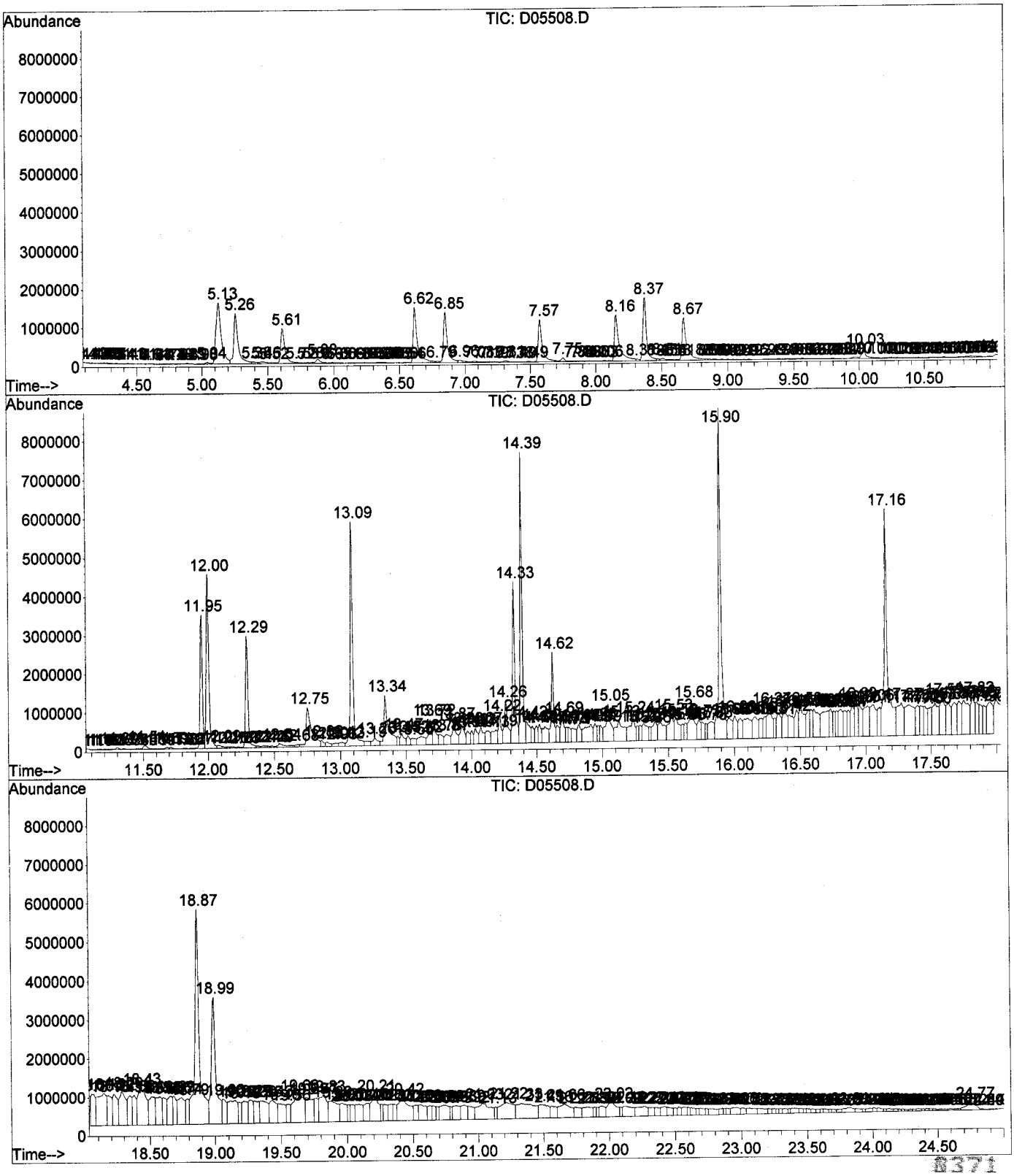
Sum of corrected areas: 3887662582

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

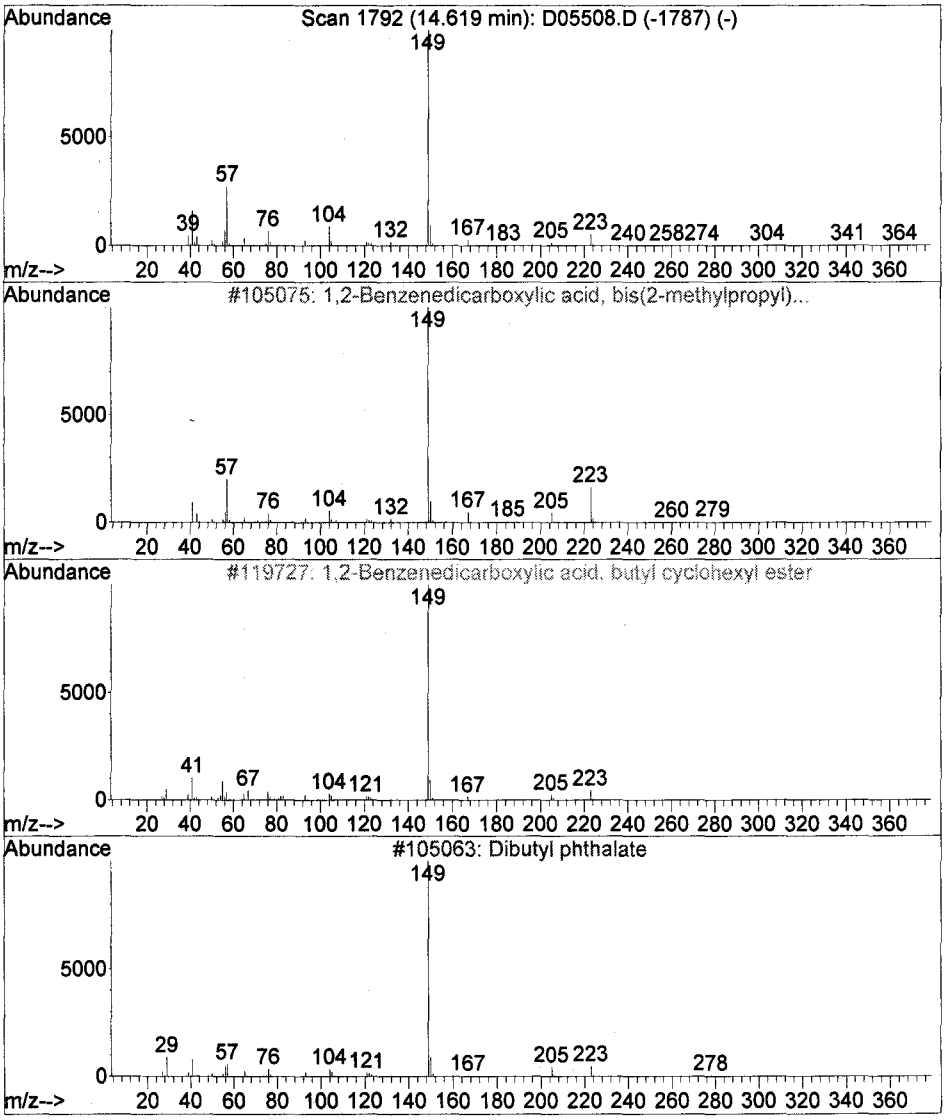
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

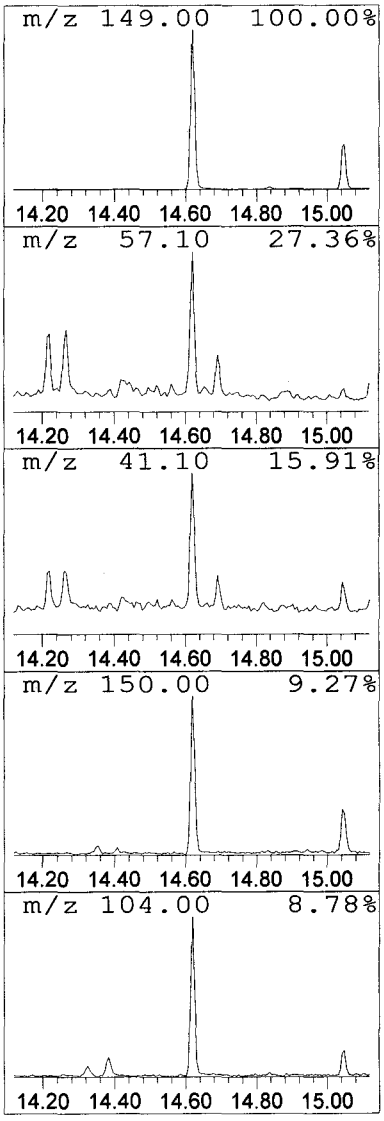
****

Peak Number 1 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	10.84 ug/L	27969100	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	83
2	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
3	Dibutyl phthalate	278	C16H22O4	000084-74-2	78
4	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
5	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	78





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

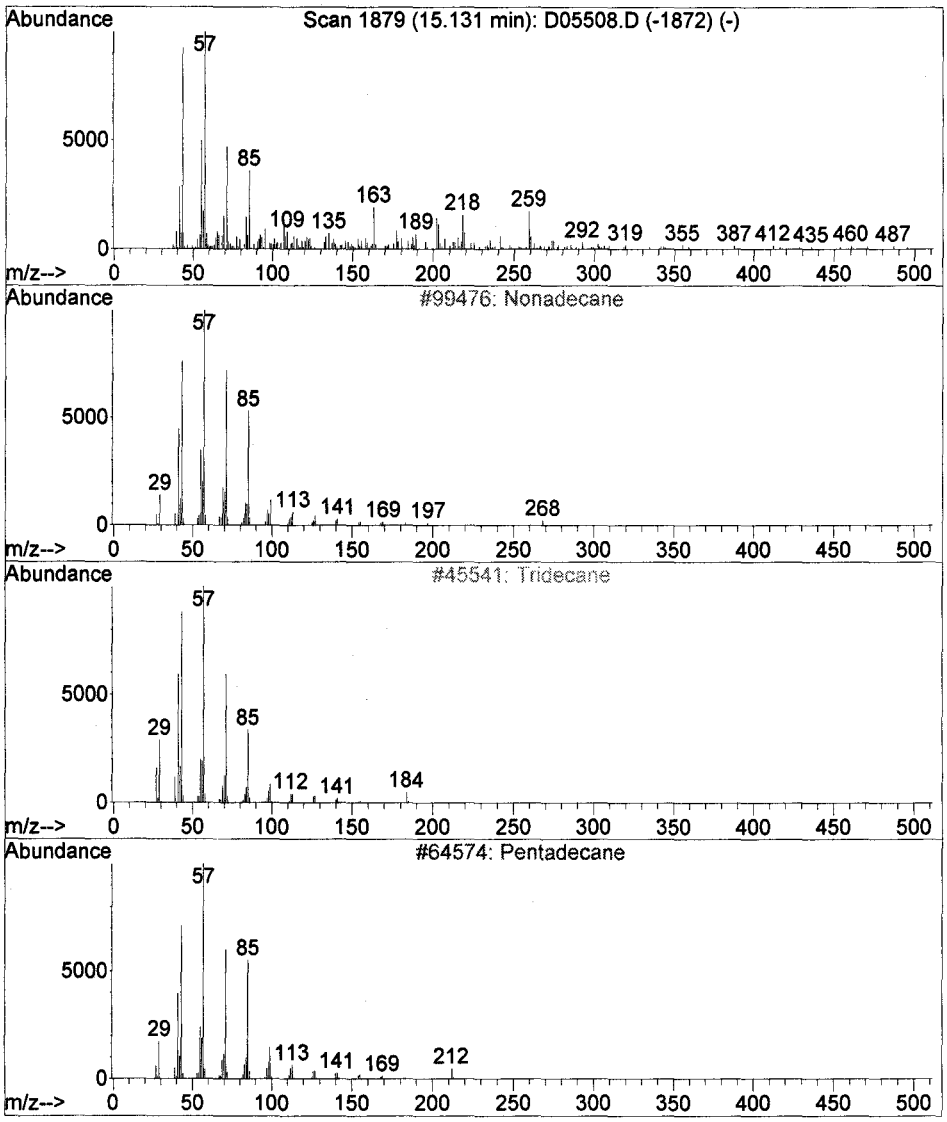
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

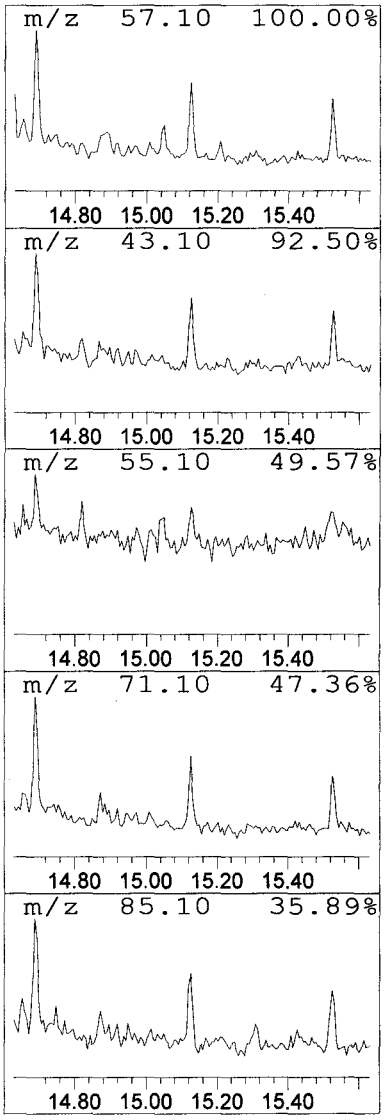
****

Peak Number 2 Nonadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	8.70 ug/L	22458300	Phenanthrene-D10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	55
2	Tridecane	184	C13H28	000629-50-5	49
3	Pentadecane	212	C15H32	000629-62-9	46
4	Undecane, 2-methyl-	170	C12H26	007045-71-8	46
5	Hexadecane, 7,9-dimethyl-	254	C18H38	021164-95-4	46





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

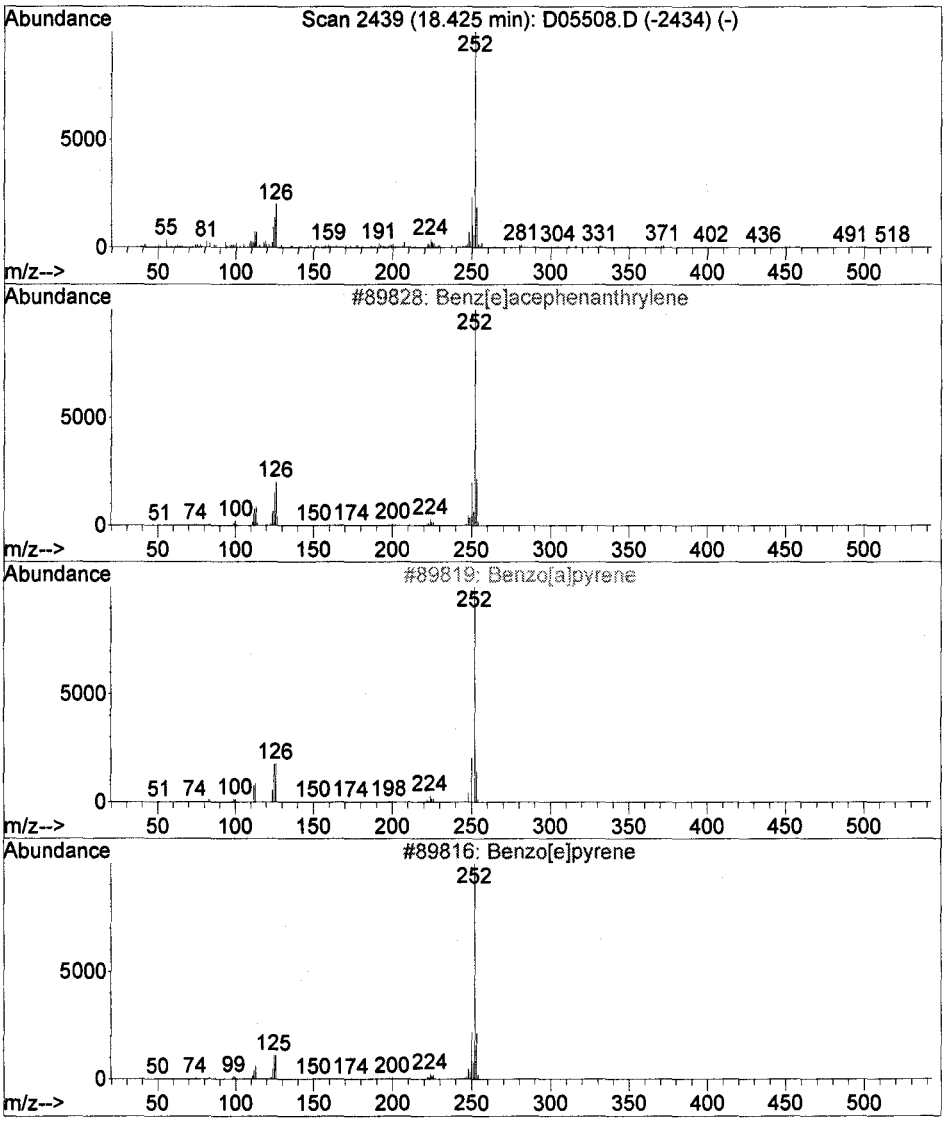
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

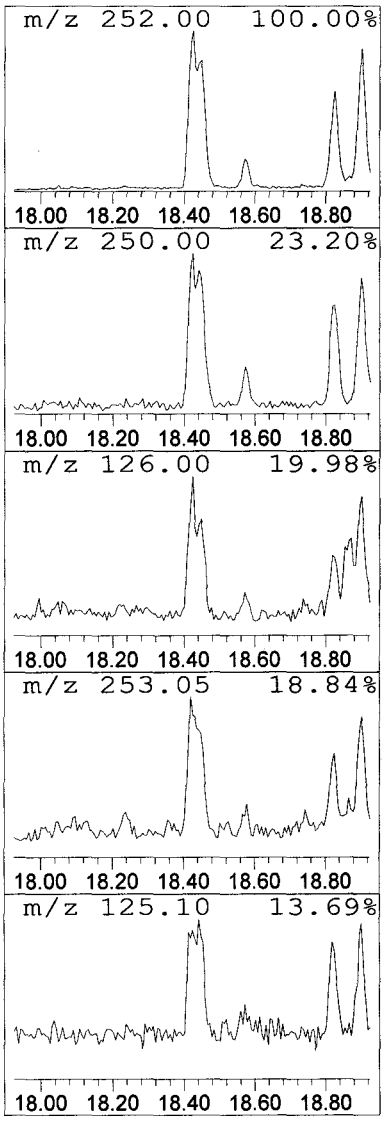
****

Peak Number 3 Benz[e]acephenanthrylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	8.94 ug/L	36291400	Perylene-d12	18.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benzo[e]pyrene	252	C20H12	000192-97-2	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05508.D
Acq On : 12/15/11 14:40 Operator: SV
Sample : F4XQ7 Inst : D-5973
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,2-Benzenedicarb...	14.62	10.8	ug/L	27969100	4	14.33	51619500	20.0
Nonadecane	15.13	8.7	ug/L	22458300	4	14.33	51619500	20.0
Benz[e]acephenant...	18.42	8.9	ug/L	36291400	6	18.99	81219200	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.07

Sample wt/vol: 80.70 (g/mL) G Lab File ID: D05509

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

% Moisture: 62 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	320	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	320	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.07

Sample wt/vol: 80.70 (g/mL) G Lab File ID: D05509

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

% Moisture: 62 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	320	U
100-02-7	4-Nitrophenol	320	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	320	U
534-52-1	4,6-Dinitro-2-methylphenol	320	U
86-30-6	N-Nitrosodiphenylamine 1	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	320	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.07

Sample wt/vol: 80.70 (g/mL) G Lab File ID: D05509

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

% Moisture: 62 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.62	410	J
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[2]	Total Alkanes	N/A	650	J

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 10:47:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2919441	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13419615	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8654599	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	15177152	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	15291534	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	14518601	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.13	99	14978468	35.1183 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 87.80%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5538965	31.7200 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 79.30%		
7) 2-Chlorophenol-d4	5.26	132	6791277	33.6135 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 84.03%		
12) 4-Methylphenol-d8	6.62	113	6464420	35.1052 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 87.76%		
17) Nitrobenzene-d5	6.85	128	3476024	34.7269 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 86.82%		
20) 2-Nitrophenol-d4	7.58	143	3884658	40.7460 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 101.87%		
24) 2,4-Dichlorophenol-d3	8.16	165	6078331	35.1969 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 87.99%		
27) 4-Chloroaniline-d4	8.67	131	8091588	42.0559 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 105.14%		
41) Acenaphthylene-d8	12.00	160	27623977	34.4231 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 86.06%		
43) Dimethylphthalate-d6	11.95	166	18882611	34.8280 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 87.07%		
49) 4-Nitrophenol-d4	12.76	143	3485754	45.4869 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 113.72%		
56) Fluorene-d10	13.09	176	16692982	32.2351 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 80.59%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	2155329	44.5677 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 111.42%#		
68) Anthracene-d10	14.39	188	26884259	33.0220 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 82.56%		
79) Pyrene-d10	15.90	212	29294325	33.2255 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 83.06%		
85) Benzo(a)pyrene-d12	18.87	264	21926594	32.3720 ug/L	0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 80.93%		

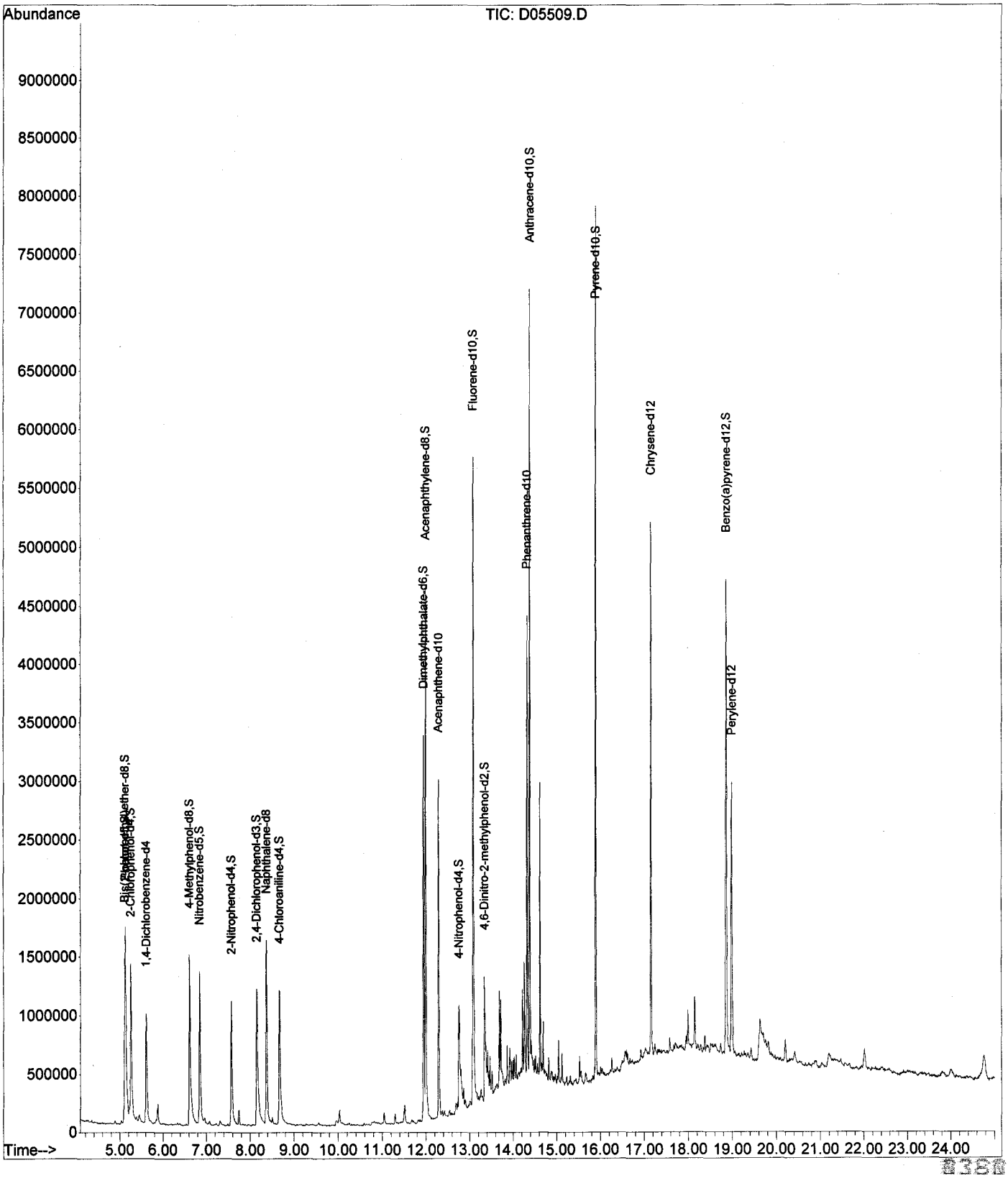
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 10:47:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.220	13	24	27	BV	8296	92758	0.10%	0.003%
2	4.261	27	31	39	VV 8	12920	279483	0.31%	0.009%
3	4.349	39	46	54	PV 8	15877	250271	0.28%	0.008%
4	4.408	54	56	67	PV 8	8916	212460	0.24%	0.007%
5	4.479	67	68	77	VV 9	3773	67343	0.08%	0.002%
6	4.537	77	78	84	PV 6	5648	60038	0.07%	0.002%
7	4.602	84	89	91	VV 5	10563	131254	0.15%	0.004%
8	4.637	91	95	100	PV 8	7409	141644	0.16%	0.005%
9	4.679	100	102	107	PV 6	6390	72933	0.08%	0.002%
10	4.726	107	110	115	VV 7	8542	131186	0.15%	0.004%
11	4.773	115	118	122	VV 5	10015	182227	0.20%	0.006%
12	4.802	122	123	125	VV 2	6367	53952	0.06%	0.002%
13	4.837	125	129	131	VV 5	7247	88889	0.10%	0.003%
14	4.890	131	138	145	PV 7	27575	580544	0.65%	0.019%
15	4.943	145	147	148	VV 2	4305	30268	0.03%	0.001%
16	4.984	148	154	158	VV 8	7011	137541	0.15%	0.004%
17	5.037	158	163	168	VV 8	30673	564808	0.63%	0.018%
18	5.126	168	178	192	VV 2	1656145	45088694	50.53%	1.458%
19	5.255	192	200	219	VV	1334638	31566545	35.37%	1.021%
20	5.390	219	223	228	VV 3	66413	1516491	1.70%	0.049%
21	5.455	228	234	245	VV 5	84377	2991593	3.35%	0.097%
22	5.526	245	246	251	VV 5	28000	460731	0.52%	0.015%
23	5.614	251	261	277	VV	946215	21260106	23.82%	0.688%
24	5.714	277	278	288	VV 9	37428	913025	1.02%	0.030%
25	5.802	288	293	297	VV 8	23400	569377	0.64%	0.018%
26	5.849	297	301	302	VV 2	52579	716510	0.80%	0.023%
27	5.884	302	307	319	VV 3	180241	3956247	4.43%	0.128%
28	5.990	319	325	330	VV 10	17737	569570	0.64%	0.018%
29	6.026	330	331	338	VV 7	14483	273712	0.31%	0.009%
30	6.073	338	339	344	VV 5	12373	197995	0.22%	0.006%
31	6.114	344	346	349	VV 4	11218	130841	0.15%	0.004%
32	6.143	349	351	353	VV 3	8138	117255	0.13%	0.004%
33	6.173	353	356	357	VV 3	10761	127457	0.14%	0.004%
34	6.196	357	360	363	VV 5	13802	212721	0.24%	0.007%
35	6.237	363	367	371	VV 7	13168	279772	0.31%	0.009%
36	6.273	371	373	378	VV 5	12523	270526	0.30%	0.009%
37	6.337	378	384	387	VV 8	21685	468039	0.52%	0.015%
38	6.390	387	393	398	VV 9	21403	507208	0.57%	0.016%
39	6.431	398	400	404	VV 5	7098	104029	0.12%	0.003%
40	6.461	404	405	407	VV 2	5962	37289	0.04%	0.001%
41	6.496	407	411	415	PV 7	11118	183034	0.21%	0.006%
42	6.543	415	419	425	VV 9	16120	307646	0.34%	0.010%
43	6.620	425	432	458	VV	1412273	32729790	36.68%	1.058%
44	6.784	458	460	465	VV 6	32574	623418	0.70%	0.020%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.849	465	471	487	VV		1302601	26214628	29.38%	0.848%
46	6.967	487	491	503	VV	5	69577	2247159	2.52%	0.073%
47	7.078	503	510	518	VV	5	39918	1123004	1.26%	0.036%
48	7.137	518	520	526	VV	6	10244	190826	0.21%	0.006%
49	7.190	526	529	531	VV	3	12553	172383	0.19%	0.006%
50	7.226	531	535	543	VV	10	18276	453372	0.51%	0.015%
51	7.320	543	551	574	VV	7	42548	1463145	1.64%	0.047%
52	7.496	574	581	586	VV	7	15108	278111	0.31%	0.009%
53	7.573	586	594	609	PV		1044869	21838037	24.47%	0.706%
54	7.673	609	611	615	VV	5	41627	583954	0.65%	0.019%
55	7.696	615	615	620	VV	4	22905	372839	0.42%	0.012%
56	7.749	620	624	633	VV	2	136667	2522648	2.83%	0.082%
57	7.831	633	638	643	VV	8	17827	457802	0.51%	0.015%
58	7.884	643	647	648	VV	4	13050	210933	0.24%	0.007%
59	7.902	648	650	654	VV	5	14640	213196	0.24%	0.007%
60	7.955	654	659	660	VV	5	13805	168280	0.19%	0.005%
61	7.973	660	662	669	VV	8	13563	310836	0.35%	0.010%
62	8.061	669	677	680	VV	10	17278	325899	0.37%	0.011%
63	8.084	680	681	683	VV	2	13345	141785	0.16%	0.005%
64	8.108	683	685	687	VV	2	10415	115356	0.13%	0.004%
65	8.155	687	693	723	VV		1168075	30696899	34.40%	0.993%
66	8.373	723	730	749	VV		1601374	31119931	34.87%	1.006%
67	8.508	749	753	762	VV	3	71256	1666518	1.87%	0.054%
68	8.572	762	764	767	VV	4	22907	332435	0.37%	0.011%
69	8.596	767	768	770	VV	2	18960	177380	0.20%	0.006%
70	8.667	770	780	804	VV		1136635	27419702	30.73%	0.887%
71	8.820	804	806	812	VV	7	30864	757559	0.85%	0.024%
72	8.867	812	814	819	VV	6	22942	494220	0.55%	0.016%
73	8.908	819	821	826	VV	6	22590	425932	0.48%	0.014%
74	8.943	826	827	831	VV	4	17906	249858	0.28%	0.008%
75	8.990	831	835	844	VV	4	15978	461173	0.52%	0.015%
76	9.061	844	847	849	VV	3	14822	157112	0.18%	0.005%
77	9.084	849	851	854	VV	4	11627	171407	0.19%	0.006%
78	9.114	854	856	862	VV	7	10967	278533	0.31%	0.009%
79	9.161	862	864	875	VV	7	14931	402641	0.45%	0.013%
80	9.237	875	877	879	VV	3	10537	87923	0.10%	0.003%
81	9.272	879	883	887	VV	7	15733	283236	0.32%	0.009%
82	9.308	887	889	896	VV	8	13248	283452	0.32%	0.009%
83	9.443	896	912	915	VV	8	18256	782056	0.88%	0.025%
84	9.472	915	917	921	VV	5	11320	192516	0.22%	0.006%
85	9.508	921	923	925	VV	3	11401	102993	0.12%	0.003%
86	9.561	925	932	937	VV	10	30637	770001	0.86%	0.025%
87	9.602	937	939	942	VV	4	16873	236362	0.26%	0.008%
88	9.637	942	945	947	VV	4	13048	179451	0.20%	0.006%
89	9.661	947	949	954	VV	6	10939	223169	0.25%	0.007%
90	9.702	954	956	961	VV	5	12142	221950	0.25%	0.007%
91	9.743	961	963	965	VV	3	7893	69759	0.08%	0.002%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.778	965	969	971	VV 5	8608	137668	0.15%	0.004%
93	9.802	971	973	976	VV 4	12188	117934	0.13%	0.004%
94	9.831	976	978	980	PV 3	7344	69636	0.08%	0.002%
95	9.855	980	982	990	VV 9	11796	336166	0.38%	0.011%
96	9.914	990	992	995	VV 4	9930	105889	0.12%	0.003%
97	9.972	995	1002	1007	VV 7	44956	1422704	1.59%	0.046%
98	10.031	1007	1012	1020	VV 2	136253	2915847	3.27%	0.094%
99	10.102	1020	1024	1034	VV 2	29376	1058318	1.19%	0.034%
100	10.178	1034	1037	1039	VV 4	12767	184038	0.21%	0.006%
101	10.208	1039	1042	1045	VV 5	17887	270970	0.30%	0.009%
102	10.249	1045	1049	1053	VV 7	21183	489450	0.55%	0.016%
103	10.284	1053	1055	1056	VV 2	9724	83431	0.09%	0.003%
104	10.302	1056	1058	1063	VV 6	13822	188887	0.21%	0.006%
105	10.361	1063	1068	1074	VV 10	12093	291780	0.33%	0.009%
106	10.437	1074	1081	1090	VV 10	10926	354391	0.40%	0.011%
107	10.590	1090	1107	1112	PV 10	20373	405140	0.45%	0.013%
108	10.649	1112	1117	1122	VV 9	15244	261699	0.29%	0.008%
109	10.702	1122	1126	1132	VV 9	11113	207845	0.23%	0.007%
110	10.772	1132	1138	1139	PV 6	26049	324169	0.36%	0.010%
111	10.825	1139	1147	1151	VV 6	33972	1030916	1.16%	0.033%
112	10.861	1151	1153	1155	VV 3	24264	306747	0.34%	0.010%
113	10.884	1155	1157	1160	VV 4	21716	365892	0.41%	0.012%
114	10.914	1160	1162	1172	VV 10	18988	547305	0.61%	0.018%
115	10.996	1172	1176	1180	VV 5	15310	307144	0.34%	0.010%
116	11.049	1180	1185	1197	VV 2	101381	1989494	2.23%	0.064%
117	11.125	1197	1198	1201	VV 3	7225	85889	0.10%	0.003%
118	11.155	1201	1203	1205	VV 3	9432	92735	0.10%	0.003%
119	11.178	1205	1207	1209	VV 3	8330	96827	0.11%	0.003%
120	11.208	1209	1212	1217	VV 6	13808	263195	0.29%	0.009%
121	11.249	1217	1219	1221	VV 3	9458	86167	0.10%	0.003%
122	11.302	1221	1228	1234	VV 2	94179	1618765	1.81%	0.052%
123	11.349	1234	1236	1240	VV 5	18085	276771	0.31%	0.009%
124	11.384	1240	1242	1246	VV 5	14622	205387	0.23%	0.007%
125	11.443	1246	1252	1255	VV 8	21913	513339	0.58%	0.017%
126	11.513	1255	1264	1275	VV	161592	3740163	4.19%	0.121%
127	11.596	1275	1278	1285	VV 9	13576	288070	0.32%	0.009%
128	11.684	1285	1293	1296	PV 9	34880	640193	0.72%	0.021%
129	11.713	1296	1298	1310	VV 9	22434	466169	0.52%	0.015%
130	11.825	1310	1317	1321	PV 7	27346	529929	0.59%	0.017%
131	11.866	1321	1324	1330	VV 8	29936	593794	0.67%	0.019%
132	11.949	1330	1338	1342	VV	3245928	41793944	46.83%	1.352%
133	11.996	1342	1346	1360	VV	4407753	62447830	69.98%	2.020%
134	12.084	1360	1361	1369	VV 8	62439	1472622	1.65%	0.048%
135	12.143	1369	1371	1376	VV 6	38690	767634	0.86%	0.025%
136	12.178	1376	1377	1381	VV 4	33107	523322	0.59%	0.017%
137	12.237	1381	1387	1388	VV 6	37996	834886	0.94%	0.027%
138	12.296	1388	1397	1407	VV	2876110	40544976	45.44%	1.311%
139	12.378	1407	1411	1415	VV 6	91704	2039006	2.28%	0.066%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.431	1415	1420	1426	VV	6	88059	2455430	2.75%	0.079%
141	12.490	1426	1430	1433	VV	6	49532	1112328	1.25%	0.036%
142	12.543	1433	1439	1444	VV	3	91662	2345545	2.63%	0.076%
143	12.584	1444	1446	1448	VV	3	67239	921039	1.03%	0.030%
144	12.608	1448	1450	1453	VV	4	61431	911502	1.02%	0.029%
145	12.637	1453	1455	1458	VV	4	58515	1001509	1.12%	0.032%
146	12.684	1458	1463	1467	VV	2	146785	3493127	3.91%	0.113%
147	12.725	1467	1470	1471	VV		152543	1949434	2.18%	0.063%
148	12.755	1471	1475	1482	VV	2	975954	21866865	24.50%	0.707%
149	12.802	1482	1483	1490	VV		421769	9191477	10.30%	0.297%
150	12.860	1490	1493	1496	VV		269826	4304391	4.82%	0.139%
151	12.896	1496	1499	1506	VV	8	169215	4463929	5.00%	0.144%
152	12.972	1506	1512	1513	VV	6	126460	3052833	3.42%	0.099%
153	13.008	1513	1518	1523	VV	9	159422	4858194	5.44%	0.157%
154	13.090	1523	1532	1549	VV		5544615	88374765	99.03%	2.858%
155	13.202	1549	1551	1555	VV	5	194473	3361358	3.77%	0.109%
156	13.237	1555	1557	1559	VV	3	200554	2547868	2.86%	0.082%
157	13.260	1559	1561	1564	VV	4	252979	4487228	5.03%	0.145%
158	13.290	1564	1566	1571	VV	4	197841	3968801	4.45%	0.128%
159	13.343	1571	1575	1584	VV	2	1243612	30134662	33.77%	0.975%
160	13.419	1584	1588	1593	VV		561388	13178136	14.77%	0.426%
161	13.466	1593	1596	1601	VV	2	510667	8980047	10.06%	0.290%
162	13.519	1601	1605	1608	VV		394757	7190911	8.06%	0.233%
163	13.543	1608	1609	1611	VV	2	233832	2457348	2.75%	0.079%
164	13.572	1611	1614	1615	VV	3	247594	3881598	4.35%	0.126%
165	13.596	1615	1618	1619	VV	3	269699	3663347	4.11%	0.118%
166	13.631	1619	1624	1627	VV	6	289342	7447878	8.35%	0.241%
167	13.684	1627	1633	1636	VV		1001789	16098559	18.04%	0.521%
168	13.719	1636	1639	1651	VV		948431	25047315	28.07%	0.810%
169	13.819	1651	1656	1659	VV	5	325820	8540906	9.57%	0.276%
170	13.866	1659	1664	1670	VV	2	609704	15124815	16.95%	0.489%
171	13.931	1670	1675	1679	VV		585197	13588897	15.23%	0.439%
172	13.972	1679	1682	1685	VV	3	462319	7632894	8.55%	0.247%
173	14.002	1685	1687	1689	VV		462752	6146732	6.89%	0.199%
174	14.031	1689	1692	1696	VV		498894	9329276	10.45%	0.302%
175	14.072	1696	1699	1702	VV	3	511021	8846796	9.91%	0.286%
176	14.131	1702	1709	1712	VV	9	376095	12046614	13.50%	0.390%
177	14.166	1712	1715	1716	VV	3	380663	5083884	5.70%	0.164%
178	14.190	1716	1719	1721	VV	4	411770	6318423	7.08%	0.204%
179	14.219	1721	1724	1727	VV		1046275	14673567	16.44%	0.475%
180	14.266	1727	1732	1738	VV		1274072	25749298	28.86%	0.833%
181	14.325	1738	1742	1748	VV		3936650	51243063	57.42%	1.657%
182	14.384	1748	1752	1757	VV		6520150	76739859	86.00%	2.482%
183	14.425	1757	1759	1769	VV	3	620104	20725696	23.23%	0.670%
184	14.502	1769	1772	1774	VV	2	466523	6581658	7.38%	0.213%
185	14.525	1774	1776	1778	VV		494337	6892698	7.72%	0.223%
186	14.566	1778	1783	1788	VV	4	434321	12402980	13.90%	0.401%

0384

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.625	1788	1793	1797	VV	2584169	32224659	36.11%	1.042%
188	14.660	1797	1799	1802	VV 4	436442	7446331	8.34%	0.241%
189	14.696	1802	1805	1809	VV	772176	12492197	14.00%	0.404%
190	14.731	1809	1811	1817	VV 7	373197	10003082	11.21%	0.324%
191	14.778	1817	1819	1823	VV 5	343489	7167472	8.03%	0.232%
192	14.819	1823	1826	1833	VV 2	461678	11212345	12.56%	0.363%
193	14.878	1833	1836	1837	VV 2	363290	5315475	5.96%	0.172%
194	14.896	1837	1839	1841	VV 2	358755	4927706	5.52%	0.159%
195	14.919	1841	1843	1845	VV 3	322585	4146380	4.65%	0.134%
196	14.949	1845	1848	1850	VV 3	313752	4638937	5.20%	0.150%
197	14.972	1850	1852	1856	VV 4	332445	7102829	7.96%	0.230%
198	15.013	1856	1859	1861	VV 3	314574	5139668	5.76%	0.166%
199	15.049	1861	1865	1869	VV	614343	10509669	11.78%	0.340%
200	15.078	1869	1870	1872	VV 2	268404	2491575	2.79%	0.081%
201	15.125	1872	1878	1884	VV	484013	13558358	15.19%	0.438%
202	15.166	1884	1885	1888	VV 3	262534	3222847	3.61%	0.104%
203	15.231	1888	1896	1900	VV 9	302955	11630091	13.03%	0.376%
204	15.290	1900	1906	1908	VV 6	268849	6592012	7.39%	0.213%
205	15.313	1908	1910	1913	VV 3	308410	4877057	5.47%	0.158%
206	15.337	1913	1914	1916	VV 2	263900	2990040	3.35%	0.097%
207	15.360	1916	1918	1920	VV 3	245134	3275274	3.67%	0.106%
208	15.401	1920	1925	1927	VV 6	270967	6341834	7.11%	0.205%
209	15.443	1927	1932	1939	VV 6	283602	10715918	12.01%	0.347%
210	15.525	1939	1946	1949	VV	450988	10902647	12.22%	0.353%
211	15.560	1949	1952	1962	VV 9	339885	13175500	14.76%	0.426%
212	15.660	1962	1969	1977	VV 7	325625	14476499	16.22%	0.468%
213	15.725	1977	1980	1982	VV 4	257617	4579540	5.13%	0.148%
214	15.760	1982	1986	1990	VV 7	262111	6981260	7.82%	0.226%
215	15.807	1990	1994	1995	VV 4	271274	4987126	5.59%	0.161%
216	15.831	1995	1998	2001	VV 3	297461	5776419	6.47%	0.187%
217	15.896	2001	2009	2016	VV	7375184	89236794	100.00%	2.886%
218	15.966	2016	2021	2024	VV 7	320736	8594562	9.63%	0.278%
219	16.007	2024	2028	2031	VV 5	360007	7394658	8.29%	0.239%
220	16.043	2031	2034	2042	VV 9	348118	12457090	13.96%	0.403%
221	16.096	2042	2043	2048	VV 5	310712	6655955	7.46%	0.215%
222	16.166	2048	2055	2058	VV 8	307559	10633233	11.92%	0.344%
223	16.196	2058	2060	2062	VV 2	311902	3776250	4.23%	0.122%
224	16.231	2062	2066	2068	VV 5	332766	7145225	8.01%	0.231%
225	16.260	2068	2071	2076	VV 4	427477	9844974	11.03%	0.318%
226	16.296	2076	2077	2079	VV 2	321469	3345394	3.75%	0.108%
227	16.337	2079	2084	2088	VV 8	337774	10249239	11.49%	0.331%
228	16.390	2088	2093	2099	VV 10	353501	13541740	15.18%	0.438%
229	16.437	2099	2101	2103	VV 3	330762	4281720	4.80%	0.138%
230	16.501	2103	2112	2114	VV 9	401178	13897428	15.57%	0.449%
231	16.578	2114	2125	2128	VV 9	483405	20601403	23.09%	0.666%
232	16.607	2128	2130	2132	VV 3	487233	6605637	7.40%	0.214%
233	16.631	2132	2134	2138	VV 5	462251	9536176	10.69%	0.308%
234	16.678	2138	2142	2146	VV 7	421791	10558331	11.83%	0.341%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.737	2146	2152	2156	VV	9	406150	14105154	15.81%	0.456%
236	16.772	2156	2158	2159	VV	2	383256	4420614	4.95%	0.143%
237	16.790	2159	2161	2163	VV	3	391596	4482750	5.02%	0.145%
238	16.813	2163	2165	2167	VV	3	389200	6144892	6.89%	0.199%
239	16.843	2167	2170	2173	VV	5	397137	8306269	9.31%	0.269%
240	16.901	2173	2180	2182	VV	8	406604	11329626	12.70%	0.366%
241	16.931	2182	2185	2188	VV	3	486417	9499380	10.65%	0.307%
242	16.954	2188	2189	2193	VV	4	432521	8501735	9.53%	0.275%
243	17.031	2193	2202	2212	VV	4	497302	30455632	34.13%	0.985%
244	17.101	2212	2214	2217	VV	4	467821	7839255	8.78%	0.254%
245	17.160	2217	2224	2233	VV		4865010	71334790	79.94%	2.307%
246	17.248	2233	2239	2247	VV	8	523954	24147808	27.06%	0.781%
247	17.307	2247	2249	2251	VV	3	474020	5556713	6.23%	0.180%
248	17.331	2251	2253	2258	VV	5	475892	11674651	13.08%	0.378%
249	17.378	2258	2261	2262	VV	3	463318	7536680	8.45%	0.244%
250	17.395	2262	2264	2283	VV	3	471433	32721451	36.67%	1.058%
251	17.525	2283	2286	2290	VV	6	462031	10743830	12.04%	0.347%
252	17.590	2290	2297	2304	VV	5	556334	24152729	27.07%	0.781%
253	17.637	2304	2305	2307	VV	2	463902	5755256	6.45%	0.186%
254	17.672	2307	2311	2314	VV	6	498099	11355801	12.73%	0.367%
255	17.713	2314	2318	2324	VV	9	523829	17431835	19.53%	0.564%
256	17.760	2324	2326	2329	VV	4	490083	7636909	8.56%	0.247%
257	17.819	2329	2336	2339	VV	5	498501	16980395	19.03%	0.549%
258	17.848	2339	2341	2346	VV	6	498573	12541424	14.05%	0.406%
259	17.884	2346	2347	2349	VV	2	479649	5737692	6.43%	0.186%
260	17.907	2349	2351	2354	VV	4	466388	8052649	9.02%	0.260%
261	17.960	2354	2360	2362	VV	6	571754	14671700	16.44%	0.474%
262	17.990	2362	2365	2371	VV	2	774304	19244824	21.57%	0.622%
263	18.031	2371	2372	2375	VV	3	502169	5528778	6.20%	0.179%
264	18.060	2375	2377	2380	VV	4	501517	10015768	11.22%	0.324%
265	18.113	2380	2386	2387	VV	6	501938	12201266	13.67%	0.395%
266	18.148	2387	2392	2401	VV		905720	28454163	31.89%	0.920%
267	18.225	2401	2405	2412	VV	7	495881	17550055	19.67%	0.568%
268	18.284	2412	2415	2421	VV	4	491514	15686063	17.58%	0.507%
269	18.342	2421	2425	2428	VV	5	467489	10137069	11.36%	0.328%
270	18.384	2428	2432	2436	VV	3	569884	13956058	15.64%	0.451%
271	18.431	2436	2440	2442	VV	5	485736	10141571	11.36%	0.328%
272	18.448	2442	2443	2449	VV	6	480739	12361203	13.85%	0.400%
273	18.513	2449	2454	2456	VV	5	496370	10022181	11.23%	0.324%
274	18.537	2456	2458	2465	VV	8	491511	15828851	17.74%	0.512%
275	18.590	2465	2467	2471	VV	5	485678	10266300	11.50%	0.332%
276	18.625	2471	2473	2481	VV	9	484201	15966229	17.89%	0.516%
277	18.678	2481	2482	2486	VV	4	430852	7622695	8.54%	0.247%
278	18.737	2486	2492	2499	VV	4	488565	19325903	21.66%	0.625%
279	18.789	2499	2501	2507	VV	5	417501	12668040	14.20%	0.410%
280	18.866	2507	2514	2524	VV		4382011	89142136	99.89%	2.883%
281	18.931	2524	2525	2529	VV	4	466935	8620846	9.66%	0.279%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	18.989	2529	2535	2545	VV	2729448	61469961	68.88%	1.988%
283	19.066	2545	2548	2554	VV 7	415223	12630106	14.15%	0.408%
284	19.107	2554	2555	2560	VV 5	380393	8882945	9.95%	0.287%
285	19.154	2560	2563	2571	VV 10	393483	13765666	15.43%	0.445%
286	19.213	2571	2573	2578	VV 6	396510	9733872	10.91%	0.315%
287	19.272	2578	2583	2592	VV 6	406827	18602221	20.85%	0.602%
288	19.354	2592	2597	2605	VV 6	388400	16750922	18.77%	0.542%
289	19.431	2605	2610	2618	VV 3	430362	16594947	18.60%	0.537%
290	19.489	2618	2620	2624	VV 5	339961	7609657	8.53%	0.246%
291	19.525	2624	2626	2629	VV 4	334515	6018977	6.74%	0.195%
292	19.554	2629	2631	2633	VV 3	332991	4319514	4.84%	0.140%
293	19.631	2633	2644	2652	VV 6	668461	34350099	38.49%	1.111%
294	19.695	2652	2655	2663	VV 7	552604	19187718	21.50%	0.621%
295	19.760	2663	2666	2672	VV 8	491936	15351577	17.20%	0.496%
296	19.819	2672	2676	2683	VV 10	470843	16290378	18.26%	0.527%
297	19.884	2683	2687	2692	VV 8	379001	11146419	12.49%	0.360%
298	19.919	2692	2693	2698	VV 5	360544	7541448	8.45%	0.244%
299	19.972	2698	2702	2707	VV 8	351588	10437319	11.70%	0.338%
300	20.019	2707	2710	2716	VV 8	333518	10550471	11.82%	0.341%
301	20.066	2716	2718	2720	VV 3	326884	4376495	4.90%	0.142%
302	20.095	2720	2723	2729	VV 8	327435	9684444	10.85%	0.313%
303	20.142	2729	2731	2734	VV 4	313295	6002760	6.73%	0.194%
304	20.207	2734	2742	2749	VV	478026	18630172	20.88%	0.603%
305	20.254	2749	2750	2752	VV 2	299255	3721289	4.17%	0.120%
306	20.301	2752	2758	2763	VV 10	312646	11087321	12.42%	0.359%
307	20.354	2763	2767	2770	VV 6	314880	8247946	9.24%	0.267%
308	20.419	2770	2778	2791	VV 6	371114	22779174	25.53%	0.737%
309	20.536	2791	2798	2801	VV 9	290078	9953754	11.15%	0.322%
310	20.572	2801	2804	2808	VV 6	281578	6385350	7.16%	0.207%
311	20.601	2808	2809	2817	VV 8	259534	8036929	9.01%	0.260%
312	20.660	2817	2819	2824	VV 6	267440	6811701	7.63%	0.220%
313	20.719	2824	2829	2830	VV 5	253951	4771532	5.35%	0.154%
314	20.736	2830	2832	2836	VV 5	270828	5856826	6.56%	0.189%
315	20.766	2836	2837	2841	VV 4	251518	4077447	4.57%	0.132%
316	20.836	2841	2849	2853	VV 4	261389	10564995	11.84%	0.342%
317	20.889	2853	2858	2860	VV 5	280894	7048011	7.90%	0.228%
318	20.907	2860	2861	2870	VV 9	279041	8346268	9.35%	0.270%
319	20.978	2870	2873	2875	VV 4	233728	3806051	4.27%	0.123%
320	21.042	2875	2884	2893	VV 4	260909	15034260	16.85%	0.486%
321	21.101	2893	2894	2901	VV 7	234843	6514701	7.30%	0.211%
322	21.201	2901	2911	2922	VV 7	334765	21859927	24.50%	0.707%
323	21.278	2922	2924	2926	VV 3	282603	3485174	3.91%	0.113%
324	21.295	2926	2927	2939	VV 3	283953	13265754	14.87%	0.429%
325	21.383	2939	2942	2944	VV 4	275744	4838893	5.42%	0.156%
326	21.401	2944	2945	2950	VV 5	268881	4991002	5.59%	0.161%
327	21.478	2950	2958	2966	VV 5	277671	14472149	16.22%	0.468%
328	21.530	2966	2967	2970	VV 3	228843	2888166	3.24%	0.093%
329	21.566	2970	2973	2975	VV 4	242230	4490503	5.03%	0.145%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.589	2975	2977	2985	VV	9	236523	8040564	9.01%	0.260%
331	21.678	2985	2992	2999	VV	9	234526	10385801	11.64%	0.336%
332	21.725	2999	3000	3002	VV	2	194341	2302979	2.58%	0.074%
333	21.748	3002	3004	3006	VV	3	195385	2210392	2.48%	0.071%
334	21.766	3006	3007	3015	VV	8	196334	6485057	7.27%	0.210%
335	21.825	3015	3017	3026	VV	10	201542	6993066	7.84%	0.226%
336	21.895	3026	3029	3030	VV	3	186662	3080430	3.45%	0.100%
337	21.954	3030	3039	3042	VV	10	209290	7967047	8.93%	0.258%
338	22.019	3042	3050	3061	VV	10	343954	16677862	18.69%	0.539%
339	22.125	3061	3068	3074	VV	10	189425	8188144	9.18%	0.265%
340	22.183	3074	3078	3087	VV	10	187326	8068437	9.04%	0.261%
341	22.254	3087	3090	3091	VV	3	179377	2485194	2.78%	0.080%
342	22.272	3091	3093	3106	VV	3	190715	8882661	9.95%	0.287%
343	22.401	3106	3115	3119	VV	3	188183	7931466	8.89%	0.257%
344	22.430	3119	3120	3124	VV	4	183128	3065510	3.44%	0.099%
345	22.466	3124	3126	3130	VV	5	166207	3552300	3.98%	0.115%
346	22.548	3130	3140	3142	VV	5	161374	6532262	7.32%	0.211%
347	22.577	3142	3145	3150	VV	7	166821	4445896	4.98%	0.144%
348	22.613	3150	3151	3160	VV	9	149462	4585430	5.14%	0.148%
349	22.677	3160	3162	3165	VV	4	139918	2510611	2.81%	0.081%
350	22.707	3165	3167	3172	VV	6	135436	3085075	3.46%	0.100%
351	22.742	3172	3173	3177	VV	4	122239	2051455	2.30%	0.066%
352	22.772	3177	3178	3186	VV	8	120711	3578636	4.01%	0.116%
353	22.848	3186	3191	3194	VV	7	120724	3258220	3.65%	0.105%
354	22.889	3194	3198	3200	VV	5	128255	2587791	2.90%	0.084%
355	22.913	3200	3202	3206	VV	5	139812	2771143	3.11%	0.090%
356	22.954	3206	3209	3212	VV	5	124937	2633097	2.95%	0.085%
357	23.001	3212	3217	3219	VV	6	140674	3061426	3.43%	0.099%
358	23.025	3219	3221	3225	VV	5	132387	2567090	2.88%	0.083%
359	23.060	3225	3227	3229	VV	3	134716	2032566	2.28%	0.066%
360	23.083	3229	3231	3234	VV	4	124575	1984470	2.22%	0.064%
361	23.107	3234	3235	3237	VV	2	124321	1434469	1.61%	0.046%
362	23.130	3237	3239	3244	VV	6	122314	2739466	3.07%	0.089%
363	23.172	3244	3246	3254	VV	9	122487	3721613	4.17%	0.120%
364	23.277	3254	3264	3265	VV	10	101562	3711262	4.16%	0.120%
365	23.301	3265	3268	3270	VV	4	111987	1915617	2.15%	0.062%
366	23.336	3270	3274	3278	VV	7	109478	2603028	2.92%	0.084%
367	23.366	3278	3279	3281	VV	2	102375	1093632	1.23%	0.035%
368	23.389	3281	3283	3287	VV	5	108072	2257968	2.53%	0.073%
369	23.424	3287	3289	3294	VV	6	101514	2165253	2.43%	0.070%
370	23.495	3294	3301	3305	VV	10	103358	3598470	4.03%	0.116%
371	23.530	3305	3307	3309	VV	3	83414	993920	1.11%	0.032%
372	23.554	3309	3311	3321	VV	3	86011	3196646	3.58%	0.103%
373	23.619	3321	3322	3327	VV	5	83730	1815575	2.03%	0.059%
374	23.660	3327	3329	3335	VV	7	70632	1818545	2.04%	0.059%
375	23.719	3335	3339	3341	VV	5	74814	1295553	1.45%	0.042%
376	23.736	3341	3342	3344	VV	2	76430	920478	1.03%	0.030%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.807	3344	3354	3358	VV	2	108525	4295977	4.81%	0.139%
378	23.836	3358	3359	3362	VV	3	96952	1360901	1.53%	0.044%
379	23.860	3362	3363	3369	VV	6	95858	1934024	2.17%	0.063%
380	23.913	3369	3372	3374	VV	4	71847	1208955	1.35%	0.039%
381	23.936	3374	3376	3377	VV	2	67530	823115	0.92%	0.027%
382	24.019	3377	3390	3404	VV	2	117013	8204027	9.19%	0.265%
383	24.130	3404	3409	3411	VV	6	68899	1473192	1.65%	0.048%
384	24.160	3411	3414	3419	VV	7	58598	1446495	1.62%	0.047%
385	24.213	3419	3423	3426	VV	6	57753	1364486	1.53%	0.044%
386	24.242	3426	3428	3433	VV	6	47344	1042605	1.17%	0.034%
387	24.330	3433	3443	3445	VV	10	43679	1553238	1.74%	0.050%
388	24.371	3445	3450	3455	VV	9	53360	1594530	1.79%	0.052%
389	24.436	3455	3461	3469	VV	9	47918	1918284	2.15%	0.062%
390	24.489	3469	3470	3475	VV	5	31262	567345	0.64%	0.018%
391	24.530	3475	3477	3479	VV	3	29734	316291	0.35%	0.010%
392	24.560	3479	3482	3490	VV	10	33038	881218	0.99%	0.028%
393	24.624	3490	3493	3495	VV	4	36380	501037	0.56%	0.016%
394	24.689	3495	3504	3505	VV	9	69313	1805329	2.02%	0.058%
395	24.760	3505	3516	3533	VV	9	214641	10653670	11.94%	0.345%
396	24.871	3533	3535	3537	VV	3	15655	150530	0.17%	0.005%
397	24.895	3537	3539	3545	PV	7	15790	289922	0.32%	0.009%
398	24.942	3545	3547	3549	VV	3	12339	75764	0.08%	0.002%

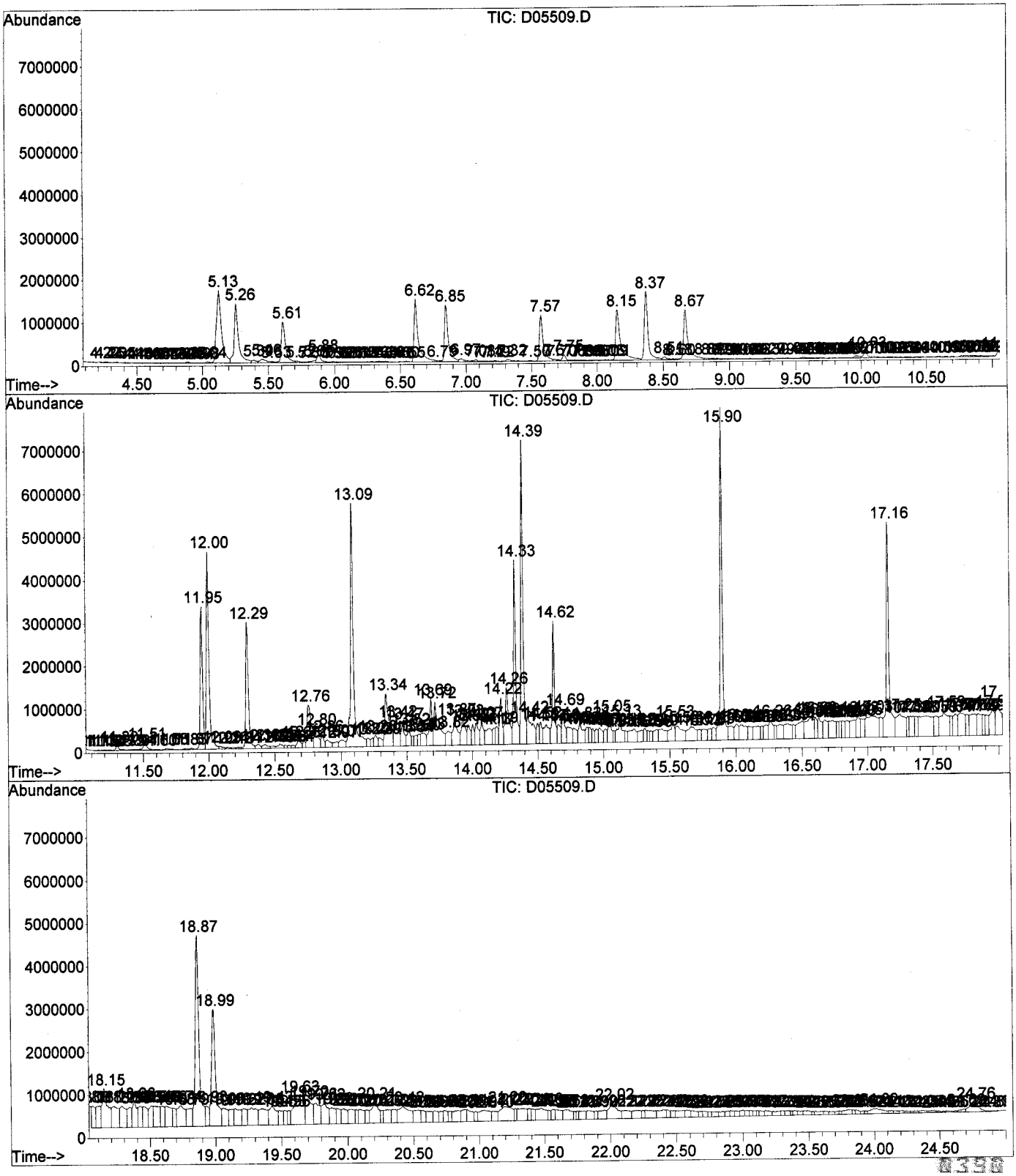
Sum of corrected areas: 3092138027

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

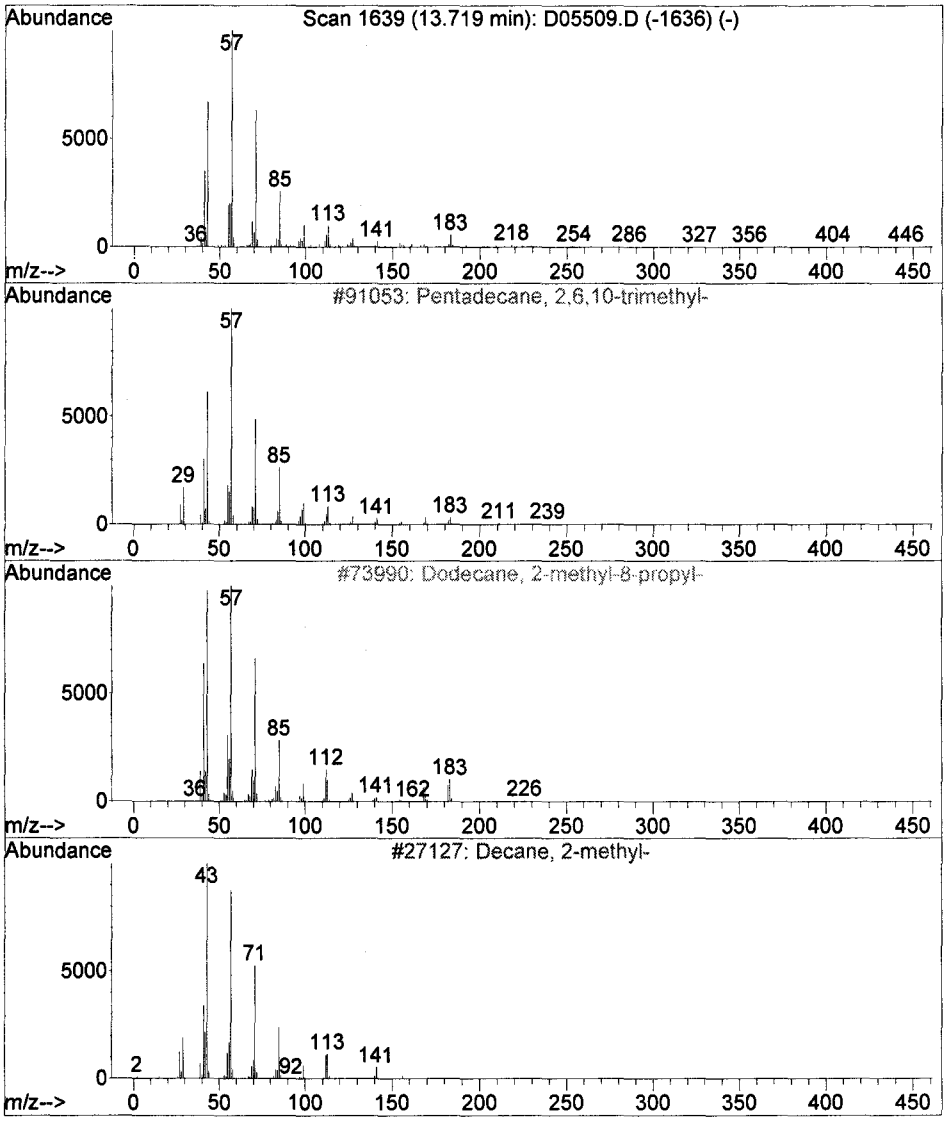
****

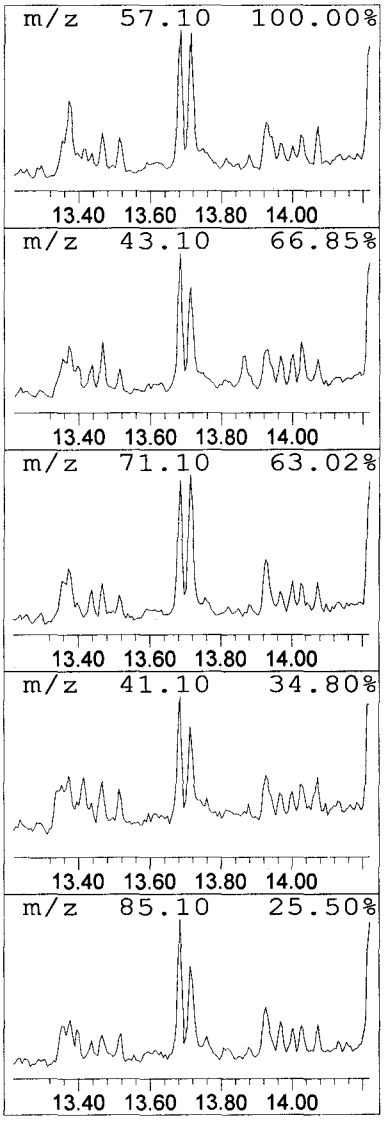
Peak Number 1 Pentadecane, 2,6,10-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	9.78 ug/L	25047300	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	90
2	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	86
3	Decane, 2-methyl-	156	C11H24	006975-98-0	86
4	Heptadecane, 2-methyl-	254	C18H38	001560-89-0	76
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	72

ALKANE





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

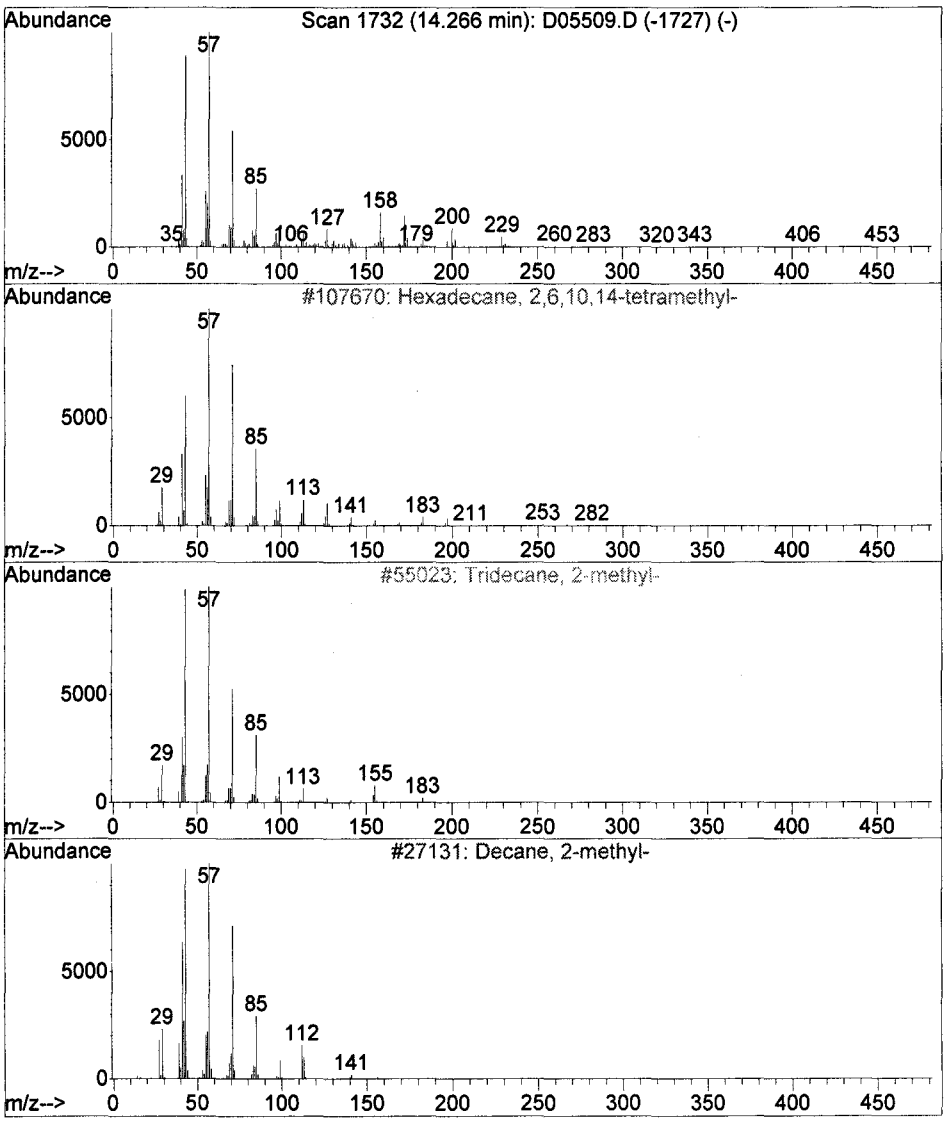
****

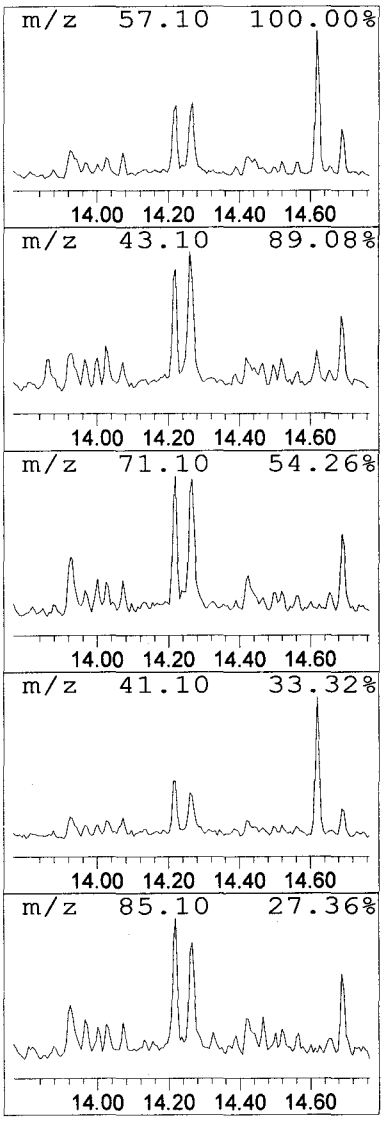
Peak Number 2 Hexadecane, 2,6,10,14-tetra... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.27	10.05 ug/L	25749300	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	89
2	Tridecane, 2-methyl-	198	C14H30	001560-96-9	70
3	Decane, 2-methyl-	156	C11H24	006975-98-0	58
4	Octane, 5-ethyl-2-methyl-	156	C11H24	062016-18-6	52
5	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	52

ALKANE





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

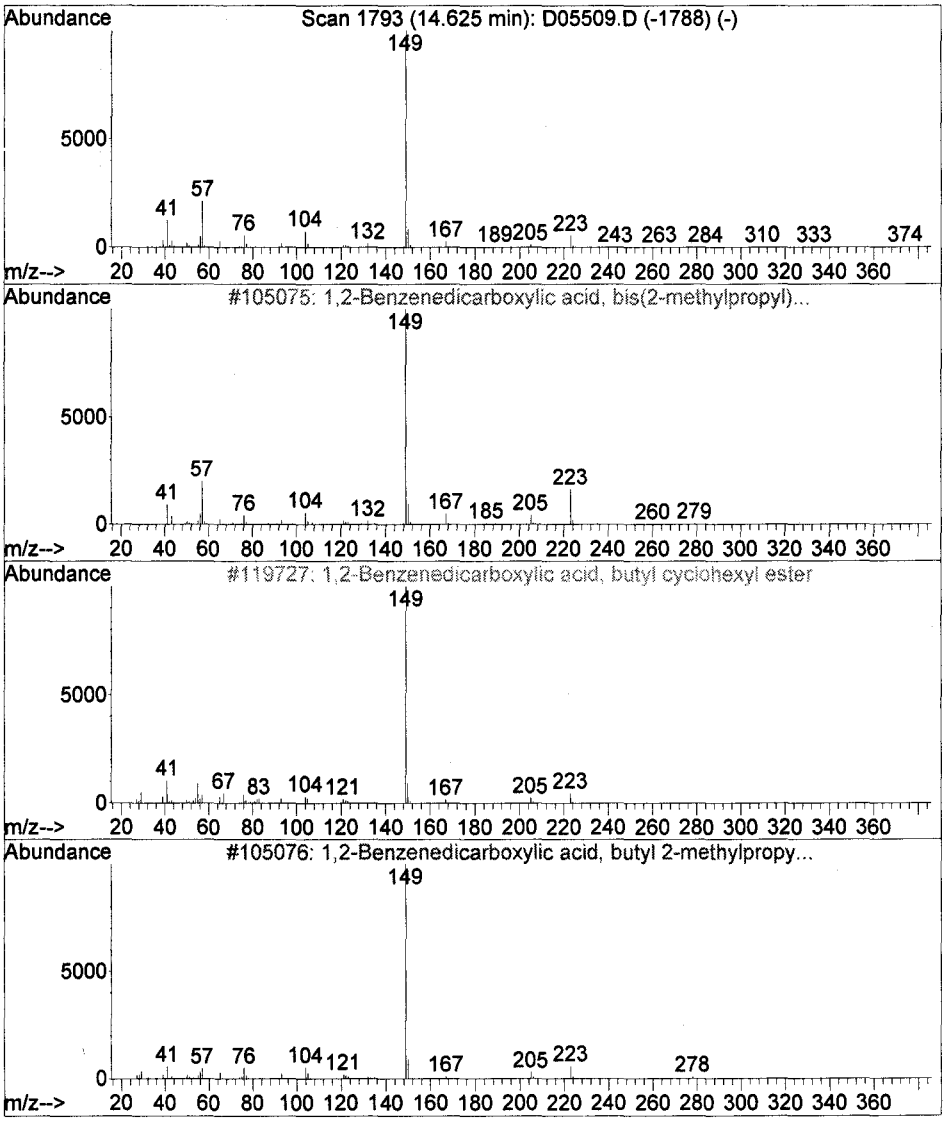
****

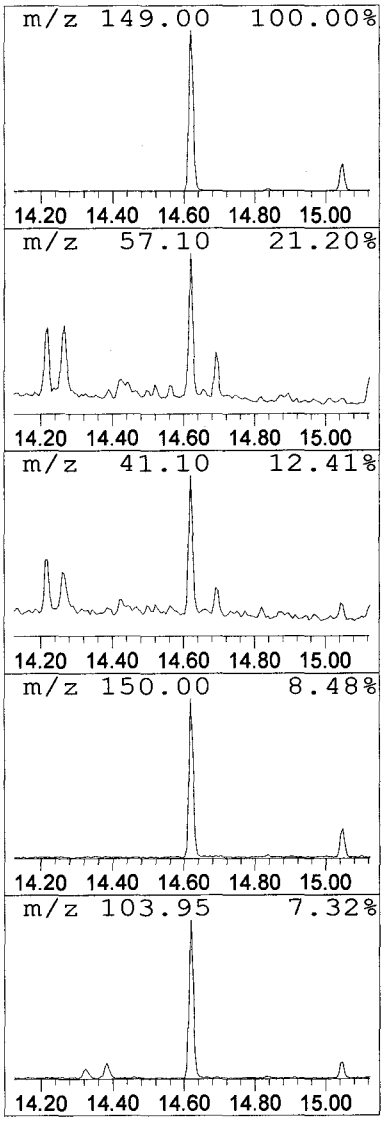
Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	12.58 ug/L	32224700	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	83
2	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	78
3	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	78
4	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	78
5	1,2-Benzenedicarboxylic acid, bu...	362	C22H34O4	000089-19-0	78





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05509.D
Acq On : 12/15/11 15:11 Operator: SV
Sample : F4XQ8 Inst : D-5973
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Pentadecane, 2,6,...	13.72	9.8	ug/L	25047300	4	14.33	51243100	20.0
Hexadecane, 2,6,1...	14.27	10.0	ug/L	25749300	4	14.33	51243100	20.0
1,2-Benzenedicarb...	14.62	12.6	ug/L	32224700	4	14.33	51243100	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.08

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05510

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

% Moisture: 45 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	150	U
108-95-2	Phenol	150	U
111-44-4	Bis(2-chloroethyl)ether	150	U
95-57-8	2-Chlorophenol	150	U
95-48-7	2-Methylphenol	150	U
108-60-1	2,2'-Oxybis(1-chloropropane)	150	U
98-86-2	Acetophenone	150	U
106-44-5	4-Methylphenol	150	U
621-64-7	N-Nitroso-di-n-propylamine	150	U
67-72-1	Hexachloroethane	150	U
98-95-3	Nitrobenzene	150	U
78-59-1	Isophorone	150	U
88-75-5	2-Nitrophenol	150	U
105-67-9	2,4-Dimethylphenol	150	U
111-91-1	Bis(2-chloroethoxy)methane	150	U
120-83-2	2,4-Dichlorophenol	150	U
91-20-3	Naphthalene	150	U
106-47-8	4-Chloroaniline	150	U
87-68-3	Hexachlorobutadiene	150	U
105-60-2	Caprolactam	150	U
59-50-7	4-Chloro-3-methylphenol	150	U
91-57-6	2-Methylnaphthalene	150	U
77-47-4	Hexachlorocyclopentadiene	150	U
88-06-2	2,4,6-Trichlorophenol	150	U
95-95-4	2,4,5-Trichlorophenol	150	U
92-52-4	1,1'-Biphenyl	150	U
91-58-7	2-Chloronaphthalene	150	U
88-74-4	2-Nitroaniline	300	U
131-11-3	Dimethylphthalate	150	U
606-20-2	2,6-Dinitrotoluene	150	U
208-96-8	Acenaphthylene	150	U
99-09-2	3-Nitroaniline	300	U
83-32-9	Acenaphthene	150	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.08

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05510

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

% Moisture: 45 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	300	U
100-02-7	4-Nitrophenol	300	U
132-64-9	Dibenzofuran	150	U
121-14-2	2,4-Dinitrotoluene	150	U
84-66-2	Diethylphthalate	150	U
86-73-7	Fluorene	150	U
7005-72-3	4-Chlorophenyl-phenylether	150	U
100-01-6	4-Nitroaniline	300	U
534-52-1	4,6-Dinitro-2-methylphenol	300	U
86-30-6	N-Nitrosodiphenylamine 1	150	U
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U
101-55-3	4-Bromophenyl-phenylether	150	U
118-74-1	Hexachlorobenzene	150	U
1912-24-9	Atrazine	150	U
87-86-5	Pentachlorophenol	300	U
85-01-8	Phenanthrene	150	U
120-12-7	Anthracene	150	U
86-74-8	Carbazole	150	U
84-74-2	Di-n-butylphthalate	150	U
206-44-0	Fluoranthene	150	U
129-00-0	Pyrene	150	U
85-68-7	Butylbenzylphthalate	150	U
91-94-1	3,3'-Dichlorobenzidine	150	U
56-55-3	Benzo(a)anthracene	150	U
218-01-9	Chrysene	150	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	J
117-84-0	Di-n-octylphthalate	150	U
205-99-2	Benzo(b)fluoranthene	150	U
207-08-9	Benzo(k)fluoranthene	150	U
50-32-8	Benzo(a)pyrene	150	U
193-39-5	Indeno(1,2,3-cd)pyrene	150	U
53-70-3	Dibenzo(a,h)anthracene	150	U
191-24-2	Benzo(g,h,i)perylene	150	U
58-90-2	2,3,4,6-Tetrachlorophenol	150	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.08

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05510

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

% Moisture: 45 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.72	180	J
02		Unknown-02	14.27	230	J
03	000084-69-5	1,2-Benzenedicarboxylic acid,	14.62	270	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 10:47:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

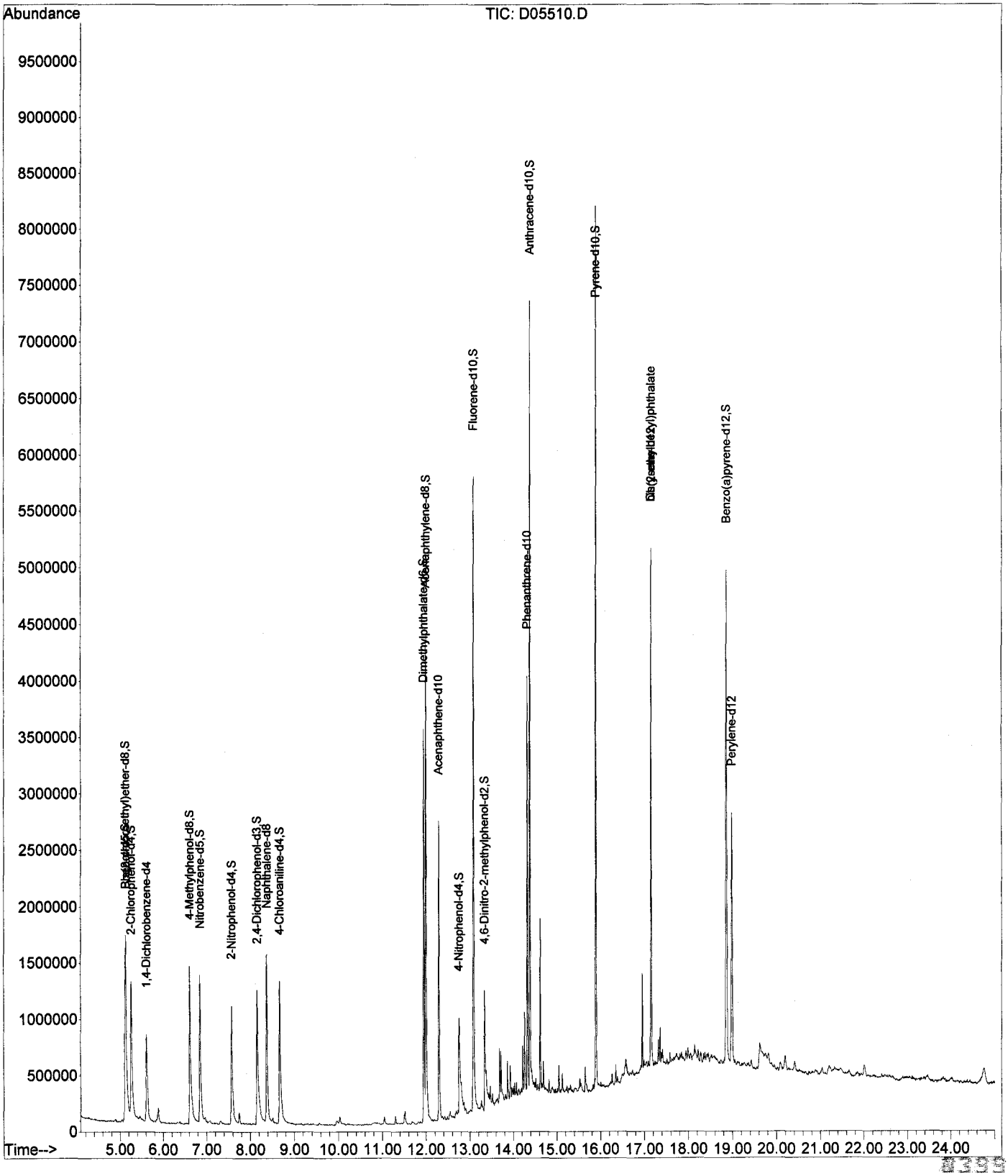
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	2647175	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	12793829	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.30	164	8318660	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.33	188	14521617	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	14036202	20.0000	ug/L	0.00
81) Perylene-d12	18.99	264	13602300	20.0000	ug/L	0.01
System Monitoring Compounds						
3) Phenol-d5	5.13	99	14471980	37.4206	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 93.55%			
5) Bis(2-chloroethyl)ether-d8	5.12	67	5405003	34.1364	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 85.34%			
7) 2-Chlorophenol-d4	5.26	132	7070091	38.5927	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 96.48%			
12) 4-Methylphenol-d8	6.62	113	6415384	38.4221	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 96.06%			
17) Nitrobenzene-d5	6.85	128	3609648	37.8258	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 94.56%			
20) 2-Nitrophenol-d4	7.58	143	3924900	43.1818	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 107.95%			
24) 2,4-Dichlorophenol-d3	8.16	165	6102365	37.0644	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 92.66%			
27) 4-Chloroaniline-d4	8.67	131	8891427	48.4734	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 121.18%			
41) Acenaphthylene-d8	12.00	160	27767527	35.9993	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 90.00%			
43) Dimethylphthalate-d6	11.95	166	19545661	37.5068	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 93.77%			
49) 4-Nitrophenol-d4	12.76	143	3506946	47.6115	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 119.03%#			
56) Fluorene-d10	13.09	176	17676379	35.5126	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 88.78%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	2253412	48.6992	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 121.75%#			
68) Anthracene-d10	14.39	188	28789858	36.9590	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 92.40%			
79) Pyrene-d10	15.90	212	30135318	37.2362	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 93.09%			
85) Benzo(a)pyrene-d12	18.87	264	22601364	35.6160	ug/L	0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 89.04%			
Target Compounds						Qvalue
75) bis(2-ethylhexyl)phthalate	17.16	149	2006040	3.4508	ug/L #	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

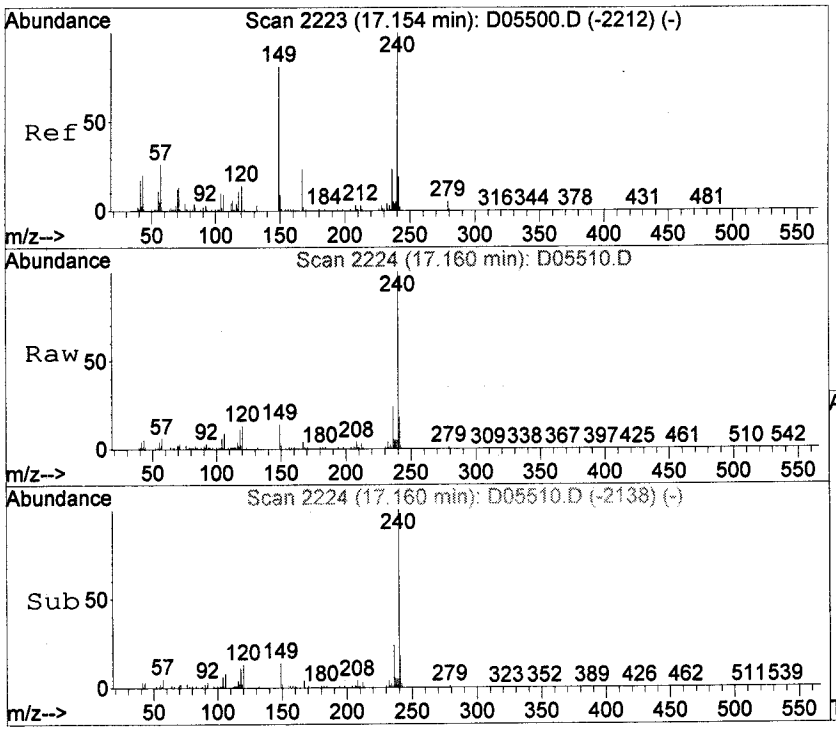
Data File: C:\MSDCHEM\1\DATA\D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 10:47:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



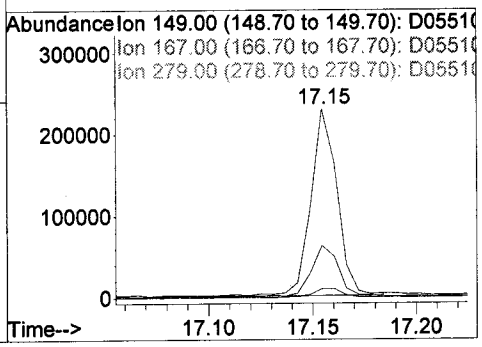
Data File : C:\MSDCHEM\1\DATA\D05510.D
Acq On : 12/15/11 15:41
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 12
Operator: SV
Inst : D-5973
Multiplr: 1.00



#75
bis(2-ethylhexyl)phthalate
Concen: 3.45 ug/L
RT: 17.16 min Scan# 2224
Delta R.T. 0.00 min
Integration Range:
Scan=2213 to 2228
R.T.= 17.10 to 17.18 (min)
Tgt Ion:149 Resp: 2006040

Ion	Ratio	Lower	Upper
149	100		
167	29.1	21.5	32.3
279	5.8	3.8	5.6#



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.155	6	13	16	BV 8	2691	35347	0.04%	0.001%
2	4.179	16	17	29	PV 8	3407	104243	0.11%	0.004%
3	4.273	29	33	43	VV 8	12285	264818	0.28%	0.010%
4	4.343	43	45	52	PV 8	6465	121758	0.13%	0.005%
5	4.402	52	55	58	VV 5	8343	86699	0.09%	0.003%
6	4.432	58	60	71	VV 5	11321	213420	0.23%	0.008%
7	4.508	71	73	78	PV 6	7087	92276	0.10%	0.003%
8	4.555	78	81	85	PV 6	8683	146831	0.16%	0.006%
9	4.602	85	89	90	VV 4	7701	95580	0.10%	0.004%
10	4.620	90	92	101	VV 10	8976	198342	0.21%	0.007%
11	4.685	101	103	105	VV 3	5559	44906	0.05%	0.002%
12	4.732	105	111	116	PV 10	7917	223632	0.24%	0.008%
13	4.785	116	120	123	VV 6	13319	217093	0.23%	0.008%
14	4.838	123	129	132	VV 8	11403	203824	0.22%	0.008%
15	4.896	132	139	144	VV 8	23159	499453	0.53%	0.019%
16	4.932	144	145	148	PV 3	6103	58169	0.06%	0.002%
17	4.979	148	153	159	VV 10	8328	163377	0.17%	0.006%
18	5.049	159	165	169	PV 8	22827	455258	0.49%	0.017%
19	5.132	169	179	193	VV 3	1646242	44743125	47.83%	1.676%
20	5.261	193	201	221	VV	1247926	31729626	33.92%	1.189%
21	5.390	221	223	230	VV 6	56425	1402291	1.50%	0.053%
22	5.461	230	235	241	VV 9	56613	1658720	1.77%	0.062%
23	5.508	241	243	254	VV 9	33667	1096742	1.17%	0.041%
24	5.614	254	261	288	VV	777190	19446170	20.79%	0.729%
25	5.808	288	294	295	VV 6	19131	364903	0.39%	0.014%
26	5.849	295	301	302	VV 4	37817	632136	0.68%	0.024%
27	5.885	302	307	314	VV 3	132881	2941709	3.14%	0.110%
28	5.938	314	316	322	VV 7	21447	325292	0.35%	0.012%
29	5.996	322	326	328	VV 5	13172	218157	0.23%	0.008%
30	6.020	328	330	332	VV 2	10330	92306	0.10%	0.003%
31	6.043	332	334	336	VV 3	11812	124985	0.13%	0.005%
32	6.067	336	338	342	VV 5	7640	100970	0.11%	0.004%
33	6.126	342	348	350	VV 7	10194	148139	0.16%	0.006%
34	6.161	350	354	356	VV 5	4227	50239	0.05%	0.002%
35	6.196	356	360	362	VV 5	8028	97104	0.10%	0.004%
36	6.220	362	364	366	VV 3	7136	54866	0.06%	0.002%
37	6.237	366	367	374	VV 7	8141	150164	0.16%	0.006%
38	6.290	374	376	378	VV 3	5221	50840	0.05%	0.002%
39	6.332	378	383	389	VV 10	14684	346116	0.37%	0.013%
40	6.385	389	392	401	VV 10	17959	359348	0.38%	0.013%
41	6.449	401	403	405	VV 3	3516	24226	0.03%	0.001%
42	6.502	409	412	415	PV 4	8571	76535	0.08%	0.003%
43	6.543	415	419	426	VV 10	10972	204263	0.22%	0.008%
44	6.620	426	432	465	VV	1377245	32789729	35.05%	1.229%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.849	465	471	487	VV		1291859	26706901	28.55%	1.001%
46	6.973	487	492	503	VV	7	59275	1953121	2.09%	0.073%
47	7.079	503	510	519	VV	7	30633	1107599	1.18%	0.041%
48	7.143	519	521	527	VV	7	10576	226317	0.24%	0.008%
49	7.184	527	528	532	VV	4	13449	150797	0.16%	0.006%
50	7.226	532	535	545	VV	4	14729	330390	0.35%	0.012%
51	7.332	545	553	559	PV	4	27364	844523	0.90%	0.032%
52	7.384	559	562	568	VV	7	13102	247564	0.26%	0.009%
53	7.426	568	569	571	VV	3	4651	30127	0.03%	0.001%
54	7.449	571	573	577	VV	5	3979	58836	0.06%	0.002%
55	7.496	577	581	585	VV	7	8299	106686	0.11%	0.004%
56	7.573	585	594	620	VV		1029411	23021504	24.61%	0.863%
57	7.749	620	624	633	VV	2	103699	2066001	2.21%	0.077%
58	7.826	633	637	638	VV	4	15305	252659	0.27%	0.009%
59	7.843	638	640	646	VV	6	16295	284363	0.30%	0.011%
60	7.890	646	648	656	VV	9	12143	331098	0.35%	0.012%
61	7.955	656	659	661	VV	4	10582	135337	0.14%	0.005%
62	7.996	661	666	670	VV	8	12972	255280	0.27%	0.010%
63	8.061	670	677	679	VV	8	12550	236666	0.25%	0.009%
64	8.096	679	683	687	VV	7	10374	199496	0.21%	0.007%
65	8.155	687	693	723	VV		1184040	31220124	33.37%	1.170%
66	8.373	723	730	749	VV		1468506	29160015	31.17%	1.093%
67	8.514	749	754	761	VV	4	61895	1610070	1.72%	0.060%
68	8.567	761	763	765	VV	3	22011	248036	0.27%	0.009%
69	8.584	765	766	769	VV	3	22660	249749	0.27%	0.009%
70	8.667	769	780	807	VV		1265761	30446757	32.55%	1.141%
71	8.831	807	808	815	VV	7	30564	690934	0.74%	0.026%
72	8.884	815	817	824	VV	8	23143	613561	0.66%	0.023%
73	8.961	824	830	842	VV	8	16761	741042	0.79%	0.028%
74	9.043	842	844	848	VV	5	9344	157062	0.17%	0.006%
75	9.096	848	853	855	VV	6	11665	188635	0.20%	0.007%
76	9.120	855	857	859	VV	3	12855	152403	0.16%	0.006%
77	9.149	859	862	863	VV	3	12305	149693	0.16%	0.006%
78	9.167	863	865	869	VV	5	13548	170501	0.18%	0.006%
79	9.202	869	871	874	VV	4	6584	56915	0.06%	0.002%
80	9.237	874	877	882	PV	7	9802	170862	0.18%	0.006%
81	9.278	882	884	888	VV	5	11581	196258	0.21%	0.007%
82	9.314	888	890	892	VV	3	12689	118797	0.13%	0.004%
83	9.343	892	895	897	VV	4	5197	68959	0.07%	0.003%
84	9.378	897	901	904	VV	5	12058	174861	0.19%	0.007%
85	9.437	904	911	915	VV	9	13254	361584	0.39%	0.014%
86	9.478	915	918	920	VV	4	8517	114231	0.12%	0.004%
87	9.496	920	921	926	VV	5	8193	98381	0.11%	0.004%
88	9.543	926	929	930	VV	3	9188	85260	0.09%	0.003%
89	9.567	930	933	942	VV	10	20708	502441	0.54%	0.019%
90	9.631	942	944	947	VV	4	6250	111422	0.12%	0.004%
91	9.661	947	949	959	VV	10	9675	281489	0.30%	0.011%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.726	959	960	962	VV	2	9267	72482	0.08%	0.003%
93	9.755	962	965	967	VV	4	7188	64031	0.07%	0.002%
94	9.778	967	969	970	VV	2	4394	38891	0.04%	0.001%
95	9.802	970	973	976	VV	5	10964	144300	0.15%	0.005%
96	9.849	976	981	995	VV	5	9587	311582	0.33%	0.012%
97	9.961	995	1000	1008	VV	7	37282	1181545	1.26%	0.044%
98	10.037	1008	1013	1029	VV	3	74488	2220963	2.37%	0.083%
99	10.137	1029	1030	1036	VV	6	15034	228424	0.24%	0.009%
100	10.214	1036	1043	1047	VV	10	15745	370072	0.40%	0.014%
101	10.249	1047	1049	1054	VV	5	13519	239342	0.26%	0.009%
102	10.290	1054	1056	1059	VV	4	9540	96990	0.10%	0.004%
103	10.325	1059	1062	1064	VV	4	10237	110496	0.12%	0.004%
104	10.378	1064	1071	1073	VV	8	5711	126784	0.14%	0.005%
105	10.402	1073	1075	1080	VV	6	5805	117431	0.13%	0.004%
106	10.455	1080	1084	1087	VV	6	8428	126927	0.14%	0.005%
107	10.502	1087	1092	1097	VV	8	7186	137926	0.15%	0.005%
108	10.549	1097	1100	1104	PV	6	6294	71978	0.08%	0.003%
109	10.602	1104	1109	1111	VV	6	10661	181336	0.19%	0.007%
110	10.643	1111	1116	1118	VV	6	11849	157485	0.17%	0.006%
111	10.661	1118	1119	1121	VV	2	7725	55934	0.06%	0.002%
112	10.690	1121	1124	1130	PV	8	9742	181272	0.19%	0.007%
113	10.731	1130	1131	1133	VV	2	4722	34988	0.04%	0.001%
114	10.773	1133	1138	1140	VV	6	16013	256428	0.27%	0.010%
115	10.825	1140	1147	1154	VV	6	22401	892370	0.95%	0.033%
116	10.878	1154	1156	1161	VV	6	21733	417862	0.45%	0.016%
117	10.920	1161	1163	1171	VV	8	15234	372169	0.40%	0.014%
118	10.978	1171	1173	1174	VV	2	6527	54021	0.06%	0.002%
119	10.996	1174	1176	1180	VV	5	15625	207701	0.22%	0.008%
120	11.049	1180	1185	1192	VV	2	67972	1290606	1.38%	0.048%
121	11.102	1192	1194	1197	VV	4	10333	155934	0.17%	0.006%
122	11.172	1197	1206	1210	VV	4	7275	236819	0.25%	0.009%
123	11.214	1210	1213	1215	VV	4	10984	145322	0.16%	0.005%
124	11.237	1215	1217	1224	VV	8	10038	233133	0.25%	0.009%
125	11.302	1224	1228	1235	VV	2	70246	1138121	1.22%	0.043%
126	11.355	1235	1237	1239	VV	3	16468	203524	0.22%	0.008%
127	11.384	1239	1242	1243	VV	2	13645	172248	0.18%	0.006%
128	11.414	1243	1247	1249	VV	5	12411	206141	0.22%	0.008%
129	11.443	1249	1252	1255	VV	5	16077	274299	0.29%	0.010%
130	11.514	1255	1264	1276	VV	2	117991	2875783	3.07%	0.108%
131	11.596	1276	1278	1279	VV	2	8012	67616	0.07%	0.003%
132	11.620	1279	1282	1285	VV	5	10041	132276	0.14%	0.005%
133	11.684	1285	1293	1302	VV	5	27238	827472	0.88%	0.031%
134	11.743	1302	1303	1308	VV	5	7104	94447	0.10%	0.004%
135	11.825	1308	1317	1321	PV	5	21664	530158	0.57%	0.020%
136	11.872	1321	1325	1328	VV	6	22027	376893	0.40%	0.014%
137	11.949	1328	1338	1342	VV		3354660	43188532	46.17%	1.618%
138	11.996	1342	1346	1369	VV		4199763	64337225	68.77%	2.411%
139	12.149	1369	1372	1375	VV	4	32682	565373	0.60%	0.021%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	12.190	1375	1379	1382	VV 6	33097	633485	0.68%	0.024%
141	12.225	1382	1385	1389	VV 6	22486	502011	0.54%	0.019%
142	12.296	1389	1397	1408	VV	2707476	36687545	39.22%	1.375%
143	12.378	1408	1411	1415	VV 6	56119	1155659	1.24%	0.043%
144	12.431	1415	1420	1424	VV 6	52377	1109827	1.19%	0.042%
145	12.490	1424	1430	1434	VV 9	48444	1140923	1.22%	0.043%
146	12.543	1434	1439	1448	VV	92852	2743805	2.93%	0.103%
147	12.614	1448	1451	1454	VV 5	48715	867214	0.93%	0.032%
148	12.637	1454	1455	1458	VV 3	45097	579843	0.62%	0.022%
149	12.678	1458	1462	1467	VV 4	93112	2196892	2.35%	0.082%
150	12.725	1467	1470	1471	VV 2	97354	1095797	1.17%	0.041%
151	12.755	1471	1475	1491	VV 2	938375	27968866	29.90%	1.048%
152	12.861	1491	1493	1497	VV 3	166565	3040178	3.25%	0.114%
153	12.902	1497	1500	1506	VV 7	107899	2941972	3.14%	0.110%
154	12.949	1506	1508	1509	VV 2	68986	675625	0.72%	0.025%
155	12.972	1509	1512	1514	VV 3	85404	1202876	1.29%	0.045%
156	13.014	1514	1519	1523	VV 7	98642	3057086	3.27%	0.115%
157	13.090	1523	1532	1547	VV	5777424	80678015	86.24%	3.023%
158	13.184	1547	1548	1556	VV 8	111724	3235359	3.46%	0.121%
159	13.266	1556	1562	1565	VV 5	172267	4067958	4.35%	0.152%
160	13.290	1565	1566	1570	VV 4	124154	2008577	2.15%	0.075%
161	13.343	1570	1575	1590	VV 3	1178459	28826538	30.81%	1.080%
162	13.437	1590	1591	1594	VV 2	232727	2880380	3.08%	0.108%
163	13.466	1594	1596	1601	VV	289521	5611449	6.00%	0.210%
164	13.519	1601	1605	1608	VV	230902	4191345	4.48%	0.157%
165	13.543	1608	1609	1611	VV 2	147060	1604348	1.71%	0.060%
166	13.572	1611	1614	1616	VV 4	147653	2348371	2.51%	0.088%
167	13.631	1616	1624	1627	VV 10	184651	6620252	7.08%	0.248%
168	13.684	1627	1633	1636	VV	582436	9217612	9.85%	0.345%
169	13.719	1636	1639	1650	VV	575207	13846252	14.80%	0.519%
170	13.819	1650	1656	1659	VV 8	210471	6270036	6.70%	0.235%
171	13.866	1659	1664	1671	VV	494563	10828743	11.58%	0.406%
172	13.931	1671	1675	1680	VV 3	460914	9404091	10.05%	0.352%
173	13.972	1680	1682	1685	VV 4	265763	4505763	4.82%	0.169%
174	14.002	1685	1687	1690	VV 2	266291	3726298	3.98%	0.140%
175	14.031	1690	1692	1696	VV 2	306005	5559710	5.94%	0.208%
176	14.072	1696	1699	1702	VV 3	301683	5292872	5.66%	0.198%
177	14.125	1702	1708	1712	VV 8	251655	7910815	8.46%	0.296%
178	14.166	1712	1715	1716	VV 3	230889	3082020	3.29%	0.115%
179	14.190	1716	1719	1721	VV 3	260217	3945822	4.22%	0.148%
180	14.219	1721	1724	1727	VV	608495	8514996	9.10%	0.319%
181	14.266	1727	1732	1738	VV	912610	17087585	18.27%	0.640%
182	14.325	1738	1742	1748	VV	3601480	45089311	48.20%	1.689%
183	14.384	1748	1752	1757	VV	6640617	76652027	81.93%	2.872%
184	14.425	1757	1759	1765	VV 4	422424	8908355	9.52%	0.334%
185	14.472	1765	1767	1770	VV 3	303644	5248363	5.61%	0.197%
186	14.502	1770	1772	1774	VV 2	298776	3808157	4.07%	0.143%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	14.525	1774	1776	1779	VV		328180	5160614	5.52%	0.193%
188	14.566	1779	1783	1788	VV	5	278382	7658686	8.19%	0.287%
189	14.625	1788	1793	1797	VV		1622816	20517332	21.93%	0.769%
190	14.660	1797	1799	1802	VV	3	291062	4920050	5.26%	0.184%
191	14.696	1802	1805	1809	VV		475251	8139252	8.70%	0.305%
192	14.725	1809	1810	1817	VV	7	246329	6774154	7.24%	0.254%
193	14.778	1817	1819	1824	VV	6	230535	4950976	5.29%	0.186%
194	14.819	1824	1826	1832	VV	3	310668	7151424	7.64%	0.268%
195	14.896	1832	1839	1846	VV	9	251796	10613967	11.35%	0.398%
196	14.949	1846	1848	1850	VV	3	218893	3096707	3.31%	0.116%
197	14.972	1850	1852	1857	VV	6	230430	5114442	5.47%	0.192%
198	15.013	1857	1859	1861	VV	3	231182	3590123	3.84%	0.135%
199	15.049	1861	1865	1872	VV		432535	9944712	10.63%	0.373%
200	15.131	1872	1879	1887	VV		350677	11899644	12.72%	0.446%
201	15.231	1887	1896	1900	VV	9	246541	10274756	10.98%	0.385%
202	15.272	1900	1903	1907	VV	6	228838	5327761	5.69%	0.200%
203	15.313	1907	1910	1916	VV	8	255921	6531999	6.98%	0.245%
204	15.360	1916	1918	1921	VV	4	209540	3555893	3.80%	0.133%
205	15.407	1921	1926	1928	VV	6	223975	5534445	5.92%	0.207%
206	15.431	1928	1930	1935	VV	6	224178	5405362	5.78%	0.203%
207	15.531	1935	1947	1949	VV	3	308189	11070973	11.83%	0.415%
208	15.555	1949	1951	1963	VV	3	265640	10638066	11.37%	0.399%
209	15.649	1963	1967	1979	VV	3	396124	14290795	15.28%	0.535%
210	15.737	1979	1982	1988	VV	8	200098	6007196	6.42%	0.225%
211	15.831	1988	1998	2001	VV	2	245976	9299651	9.94%	0.348%
212	15.896	2001	2009	2018	VV		7584191	88537873	94.64%	3.317%
213	15.960	2018	2020	2026	VV	7	250292	6947809	7.43%	0.260%
214	16.007	2026	2028	2033	VV	6	263088	5684599	6.08%	0.213%
215	16.043	2033	2034	2038	VV	4	238469	4193223	4.48%	0.157%
216	16.078	2038	2040	2045	VV	6	236794	5948518	6.36%	0.223%
217	16.125	2045	2048	2051	VV	5	229656	4092525	4.37%	0.153%
218	16.160	2051	2054	2056	VV	4	229436	4494722	4.80%	0.168%
219	16.207	2056	2062	2063	VV	6	243859	5696967	6.09%	0.213%
220	16.231	2063	2066	2069	VV	4	259686	4559412	4.87%	0.171%
221	16.266	2069	2072	2079	VV	3	321418	9882847	10.56%	0.370%
222	16.349	2079	2086	2090	VV	3	390274	10297694	11.01%	0.386%
223	16.390	2090	2093	2096	VV	5	298832	6261298	6.69%	0.235%
224	16.425	2096	2099	2103	VV	6	255042	5794709	6.19%	0.217%
225	16.502	2103	2112	2116	VV	6	318547	13260913	14.17%	0.497%
226	16.584	2116	2126	2132	VV	6	450088	21158579	22.62%	0.793%
227	16.631	2132	2134	2138	VV	5	339938	7001414	7.48%	0.262%
228	16.678	2138	2142	2146	VV	7	331314	8350399	8.93%	0.313%
229	16.731	2146	2151	2157	VV	9	350835	12736022	13.61%	0.477%
230	16.802	2157	2163	2165	VV	7	322211	9268957	9.91%	0.347%
231	16.825	2165	2167	2171	VV	5	333490	6816082	7.29%	0.255%
232	16.925	2171	2184	2187	VV	8	389070	18907320	20.21%	0.708%
233	16.960	2187	2190	2194	VV		1214432	16819236	17.98%	0.630%
234	16.996	2194	2196	2200	VV	5	431022	9359392	10.00%	0.351%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	17.060	2200	2207	2209	VV	8	418637	12599743	13.47%	0.472%
236	17.102	2209	2214	2217	VV	7	419857	10627311	11.36%	0.398%
237	17.160	2217	2224	2236	VV		4761138	72995946	78.03%	2.735%
238	17.249	2236	2239	2242	VV	5	419686	7493786	8.01%	0.281%
239	17.278	2242	2244	2247	VV	4	409136	8067069	8.62%	0.302%
240	17.325	2247	2252	2255	VV		596832	12556108	13.42%	0.470%
241	17.360	2255	2258	2262	VV		694281	12424337	13.28%	0.466%
242	17.396	2262	2264	2266	VV	2	491887	7033465	7.52%	0.264%
243	17.419	2266	2268	2274	VV	4	515232	12600049	13.47%	0.472%
244	17.472	2274	2277	2280	VV	5	406905	9029240	9.65%	0.338%
245	17.519	2280	2285	2292	VV	5	427199	15712140	16.80%	0.589%
246	17.590	2292	2297	2301	VV	6	472883	13643711	14.58%	0.511%
247	17.631	2301	2304	2308	VV	6	426030	10406804	11.12%	0.390%
248	17.678	2308	2312	2314	VV	5	437160	8516434	9.10%	0.319%
249	17.737	2314	2322	2329	VV	5	470085	23249578	24.85%	0.871%
250	17.784	2329	2330	2332	VV	2	428728	5316867	5.68%	0.199%
251	17.813	2332	2335	2338	VV	3	462635	9699331	10.37%	0.363%
252	17.849	2338	2341	2347	VV	7	476916	13184376	14.09%	0.494%
253	17.890	2347	2348	2353	VV	5	428134	9089727	9.72%	0.341%
254	17.948	2353	2358	2363	VV	7	486377	15047687	16.08%	0.564%
255	17.996	2363	2366	2373	VV	6	513110	16064001	17.17%	0.602%
256	18.054	2373	2376	2381	VV	6	461665	13218894	14.13%	0.495%
257	18.148	2381	2392	2401	VV	4	533164	32359230	34.59%	1.212%
258	18.225	2401	2405	2410	VV	3	493576	13924847	14.88%	0.522%
259	18.284	2410	2415	2420	VV	4	468016	14817987	15.84%	0.555%
260	18.348	2420	2426	2429	VV	6	449854	12541912	13.41%	0.470%
261	18.378	2429	2431	2435	VV	4	458821	8999230	9.62%	0.337%
262	18.425	2435	2439	2442	VV	6	449813	10504989	11.23%	0.394%
263	18.454	2442	2444	2449	VV	5	458274	10114428	10.81%	0.379%
264	18.519	2449	2455	2457	VV	7	437934	11926864	12.75%	0.447%
265	18.537	2457	2458	2460	VV	2	433255	5075705	5.43%	0.190%
266	18.578	2460	2465	2470	VV	9	426577	14920481	15.95%	0.559%
267	18.619	2470	2472	2476	VV	5	413586	7937976	8.49%	0.297%
268	18.654	2476	2478	2484	VV	7	397217	10546469	11.27%	0.395%
269	18.707	2484	2487	2489	VV	4	372171	6816297	7.29%	0.255%
270	18.743	2489	2493	2498	VV	7	388776	11964241	12.79%	0.448%
271	18.790	2498	2501	2504	VV	5	375496	7826878	8.37%	0.293%
272	18.866	2504	2514	2524	VV		4635976	93552306	100.00%	3.505%
273	18.931	2524	2525	2528	VV	3	391245	5895146	6.30%	0.221%
274	18.990	2528	2535	2544	VV		2557702	57090598	61.03%	2.139%
275	19.060	2544	2547	2552	VV	6	377425	9891386	10.57%	0.371%
276	19.119	2552	2557	2562	VV	9	360616	11865702	12.68%	0.445%
277	19.154	2562	2563	2567	VV	4	354040	6522324	6.97%	0.244%
278	19.195	2567	2570	2571	VV	3	328140	3998819	4.27%	0.150%
279	19.225	2571	2575	2578	VV	6	340120	8317575	8.89%	0.312%
280	19.260	2578	2581	2582	VV	3	343687	5409882	5.78%	0.203%
281	19.278	2582	2584	2593	VV	10	347036	11713613	12.52%	0.439%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.337	2593	2594	2604	VV	10	335220	12893420	13.78%	0.483%
283	19.431	2604	2610	2617	VV	8	366482	14915125	15.94%	0.559%
284	19.484	2617	2619	2626	VV	8	301309	9369520	10.02%	0.351%
285	19.560	2626	2632	2634	VV	7	302003	8550564	9.14%	0.320%
286	19.625	2634	2643	2649	VV	6	508299	20940087	22.38%	0.785%
287	19.666	2649	2650	2652	VV	2	434720	4903901	5.24%	0.184%
288	19.684	2652	2653	2655	VV	2	431813	5065926	5.42%	0.190%
289	19.701	2655	2656	2659	VV	3	416468	5182413	5.54%	0.194%
290	19.754	2659	2665	2672	VV	3	415311	17660811	18.88%	0.662%
291	19.819	2672	2676	2685	VV	3	416413	17363292	18.56%	0.651%
292	19.895	2685	2689	2696	VV	10	327354	12210812	13.05%	0.458%
293	19.954	2696	2699	2707	VV	10	309459	11105778	11.87%	0.416%
294	20.019	2707	2710	2711	VV	3	282114	3485738	3.73%	0.131%
295	20.031	2711	2712	2715	VV	3	283083	4270491	4.56%	0.160%
296	20.095	2715	2723	2729	VV	5	327089	14253911	15.24%	0.534%
297	20.142	2729	2731	2734	VV	4	283234	4565170	4.88%	0.171%
298	20.201	2734	2741	2749	VV	3	383023	16739155	17.89%	0.627%
299	20.260	2749	2751	2752	VV	2	266735	3125524	3.34%	0.117%
300	20.278	2752	2754	2758	VV	5	276497	5620640	6.01%	0.211%
301	20.313	2758	2760	2762	VV	3	265463	3276617	3.50%	0.123%
302	20.337	2762	2764	2766	VV	3	260012	3976733	4.25%	0.149%
303	20.360	2766	2768	2770	VV	3	257396	3094253	3.31%	0.116%
304	20.419	2770	2778	2784	VV	3	327855	14442623	15.44%	0.541%
305	20.466	2784	2786	2794	VV	9	250373	8379245	8.96%	0.314%
306	20.525	2794	2796	2798	VV	3	252400	3322212	3.55%	0.124%
307	20.548	2798	2800	2811	VV	3	240204	10786963	11.53%	0.404%
308	20.619	2811	2812	2816	VV	4	224919	3769912	4.03%	0.141%
309	20.660	2816	2819	2824	VV	7	231411	6732900	7.20%	0.252%
310	20.701	2824	2826	2829	VV	4	209043	3457230	3.70%	0.130%
311	20.737	2829	2832	2835	VV	5	229222	4819934	5.15%	0.181%
312	20.766	2835	2837	2839	VV	3	220646	2681989	2.87%	0.100%
313	20.807	2839	2844	2852	VV	3	228780	9913115	10.60%	0.371%
314	20.889	2852	2858	2868	VV	3	240122	12612854	13.48%	0.473%
315	20.966	2868	2871	2873	VV	3	208465	3646942	3.90%	0.137%
316	21.042	2873	2884	2889	VV	3	254335	12886128	13.77%	0.483%
317	21.084	2889	2891	2893	VV	3	203048	2198920	2.35%	0.082%
318	21.107	2893	2895	2901	VV	7	211711	6114925	6.54%	0.229%
319	21.201	2901	2911	2914	VV	7	266285	11065749	11.83%	0.415%
320	21.231	2914	2916	2922	VV	7	249862	6179331	6.61%	0.232%
321	21.289	2922	2926	2928	VV	5	232713	4450020	4.76%	0.167%
322	21.331	2928	2933	2935	VV	5	254527	5861163	6.27%	0.220%
323	21.348	2935	2936	2938	VV	2	241172	2605217	2.78%	0.098%
324	21.372	2938	2940	2943	VV	4	233397	3983981	4.26%	0.149%
325	21.395	2943	2944	2947	VV	3	229428	3454472	3.69%	0.129%
326	21.466	2947	2956	2966	VV	3	235536	14593418	15.60%	0.547%
327	21.531	2966	2967	2972	VV	5	199521	4585429	4.90%	0.172%
328	21.572	2972	2974	2977	VV	4	199149	3322830	3.55%	0.125%
329	21.625	2977	2983	2984	VV	6	197208	4689170	5.01%	0.176%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	21.660	2984	2989	2999	VV	6	215290	9824671	10.50%	0.368%
331	21.725	2999	3000	3007	VV	7	166721	4945386	5.29%	0.185%
332	21.778	3007	3009	3011	VV	3	165030	2008252	2.15%	0.075%
333	21.854	3011	3022	3029	VV	3	197273	10894993	11.65%	0.408%
334	21.907	3029	3031	3032	VV	2	173667	2230854	2.38%	0.084%
335	21.942	3032	3037	3041	VV	8	177316	5214505	5.57%	0.195%
336	22.007	3041	3048	3060	VV	10	250697	12834244	13.72%	0.481%
337	22.089	3060	3062	3065	VV	4	160901	2855747	3.05%	0.107%
338	22.113	3065	3066	3071	VV	5	158950	3235105	3.46%	0.121%
339	22.154	3071	3073	3079	VV	7	155971	4492916	4.80%	0.168%
340	22.213	3079	3083	3085	VV	5	159560	3231531	3.45%	0.121%
341	22.248	3085	3089	3099	VV	5	158006	6957744	7.44%	0.261%
342	22.319	3099	3101	3103	VV	3	139697	2002032	2.14%	0.075%
343	22.348	3103	3106	3107	VV	3	140132	1955430	2.09%	0.073%
344	22.366	3107	3109	3113	VV	5	139876	2841811	3.04%	0.106%
345	22.413	3113	3117	3120	VV	6	163844	3675852	3.93%	0.138%
346	22.442	3120	3122	3125	VV	4	147508	2123864	2.27%	0.080%
347	22.478	3125	3128	3134	VV	8	153833	4722765	5.05%	0.177%
348	22.536	3134	3138	3142	VV	7	148801	3986233	4.26%	0.149%
349	22.578	3142	3145	3155	VV	7	147118	6205625	6.63%	0.233%
350	22.654	3155	3158	3160	VV	4	138165	2180478	2.33%	0.082%
351	22.678	3160	3162	3164	VV	3	129167	1823573	1.95%	0.068%
352	22.695	3164	3165	3167	VV	2	113902	1226498	1.31%	0.046%
353	22.719	3167	3169	3171	VV	3	108628	1436693	1.54%	0.054%
354	22.748	3171	3174	3182	VV	10	107358	3656529	3.91%	0.137%
355	22.813	3182	3185	3186	VV	3	97592	1629505	1.74%	0.061%
356	22.831	3186	3188	3191	VV	4	101820	1494770	1.60%	0.056%
357	22.895	3191	3199	3202	VV	10	122191	4309858	4.61%	0.161%
358	22.919	3202	3203	3205	VV	2	114870	1107553	1.18%	0.041%
359	22.942	3205	3207	3209	VV	3	120230	1682370	1.80%	0.063%
360	22.983	3209	3214	3216	VV	6	119880	2771507	2.96%	0.104%
361	23.001	3216	3217	3220	VV	3	118049	1654992	1.77%	0.062%
362	23.042	3220	3224	3232	VV	3	120200	4661311	4.98%	0.175%
363	23.113	3232	3236	3241	VV	8	116114	3374983	3.61%	0.126%
364	23.148	3241	3242	3249	VV	7	106158	2829110	3.02%	0.106%
365	23.201	3249	3251	3253	VV	3	100680	1148196	1.23%	0.043%
366	23.219	3253	3254	3257	VV	3	94870	1314542	1.41%	0.049%
367	23.248	3257	3259	3261	VV	3	95610	1429559	1.53%	0.054%
368	23.266	3261	3262	3271	VV	9	96590	3247796	3.47%	0.122%
369	23.331	3271	3273	3278	VV	6	100977	2387880	2.55%	0.089%
370	23.378	3278	3281	3287	VV	8	108654	3000494	3.21%	0.112%
371	23.430	3287	3290	3291	VV	3	105932	1516621	1.62%	0.057%
372	23.454	3291	3294	3295	VV	3	114979	1331288	1.42%	0.050%
373	23.466	3295	3296	3306	VV	10	119091	3590555	3.84%	0.135%
374	23.530	3306	3307	3314	VV	7	81269	2081497	2.22%	0.078%
375	23.583	3314	3316	3321	VV	6	78893	1619792	1.73%	0.061%
376	23.636	3321	3325	3327	VV	5	71920	1545517	1.65%	0.058%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

377	23.660	3327	3329	3332	VV	4	70004	1108603	1.19%	0.042%
378	23.689	3332	3334	3337	VV	4	69154	1124546	1.20%	0.042%
379	23.736	3337	3342	3345	VV	7	70862	1683575	1.80%	0.063%
380	23.830	3345	3358	3362	VV	7	98128	4955145	5.30%	0.186%
381	23.866	3362	3364	3368	VV	5	82889	1507726	1.61%	0.056%
382	23.901	3368	3370	3374	VV	5	67006	1285593	1.37%	0.048%
383	23.954	3374	3379	3381	VV	6	61970	1271804	1.36%	0.048%
384	24.001	3381	3387	3390	VV	8	82430	2284001	2.44%	0.086%
385	24.030	3390	3392	3396	VV	5	86794	1700216	1.82%	0.064%
386	24.060	3396	3397	3404	VV	7	58742	1476411	1.58%	0.055%
387	24.113	3404	3406	3411	VV	6	55523	1164874	1.25%	0.044%
388	24.148	3411	3412	3418	VV	6	56354	1381759	1.48%	0.052%
389	24.195	3418	3420	3422	VV	3	47001	471337	0.50%	0.018%
390	24.230	3422	3426	3433	VV	10	52286	1705970	1.82%	0.064%
391	24.307	3433	3439	3445	VV	10	47017	1560000	1.67%	0.058%
392	24.366	3445	3449	3458	VV	10	45064	1856877	1.98%	0.070%
393	24.442	3458	3462	3470	VV	10	50624	1413077	1.51%	0.053%
394	24.495	3470	3471	3473	VV	2	30131	288339	0.31%	0.011%
395	24.525	3473	3476	3481	VV	7	30272	647730	0.69%	0.024%
396	24.566	3481	3483	3484	VV	2	29767	306438	0.33%	0.011%
397	24.577	3484	3485	3490	VV	5	26322	409130	0.44%	0.015%
398	24.625	3490	3493	3495	VV	4	30385	441186	0.47%	0.017%
399	24.666	3495	3500	3502	VV	6	48126	939374	1.00%	0.035%
400	24.689	3502	3504	3507	VV	4	63882	980038	1.05%	0.037%
401	24.760	3507	3516	3530	VV	4	148844	7073077	7.56%	0.265%
402	24.860	3530	3533	3535	VV	4	17585	229547	0.25%	0.009%
403	24.883	3535	3537	3538	PV	2	14818	82204	0.09%	0.003%
404	24.907	3538	3541	3543	VV	4	12680	166579	0.18%	0.006%
405	24.930	3543	3545	3549	VV	5	14476	117855	0.13%	0.004%

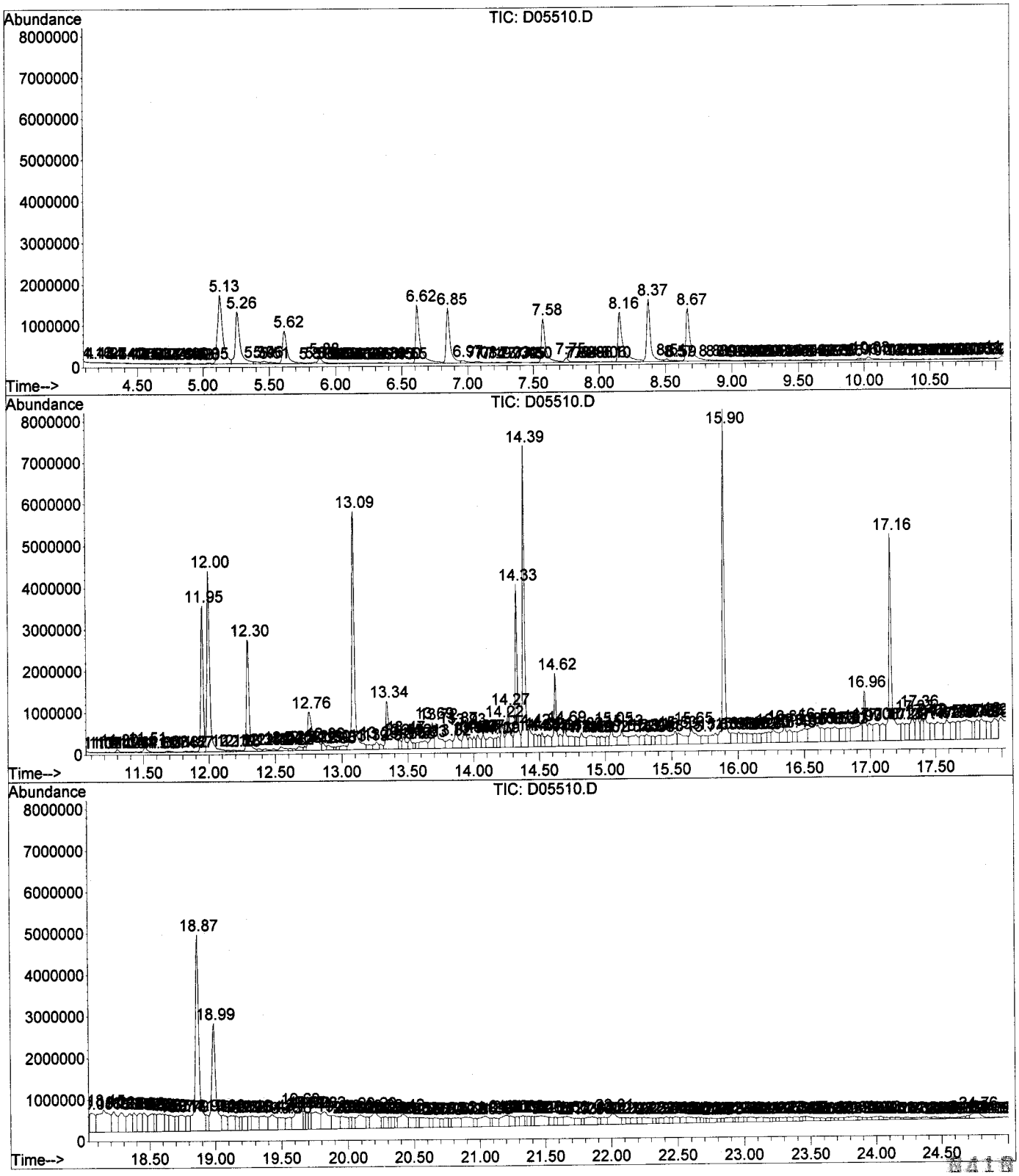
Sum of corrected areas: 2668937287

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

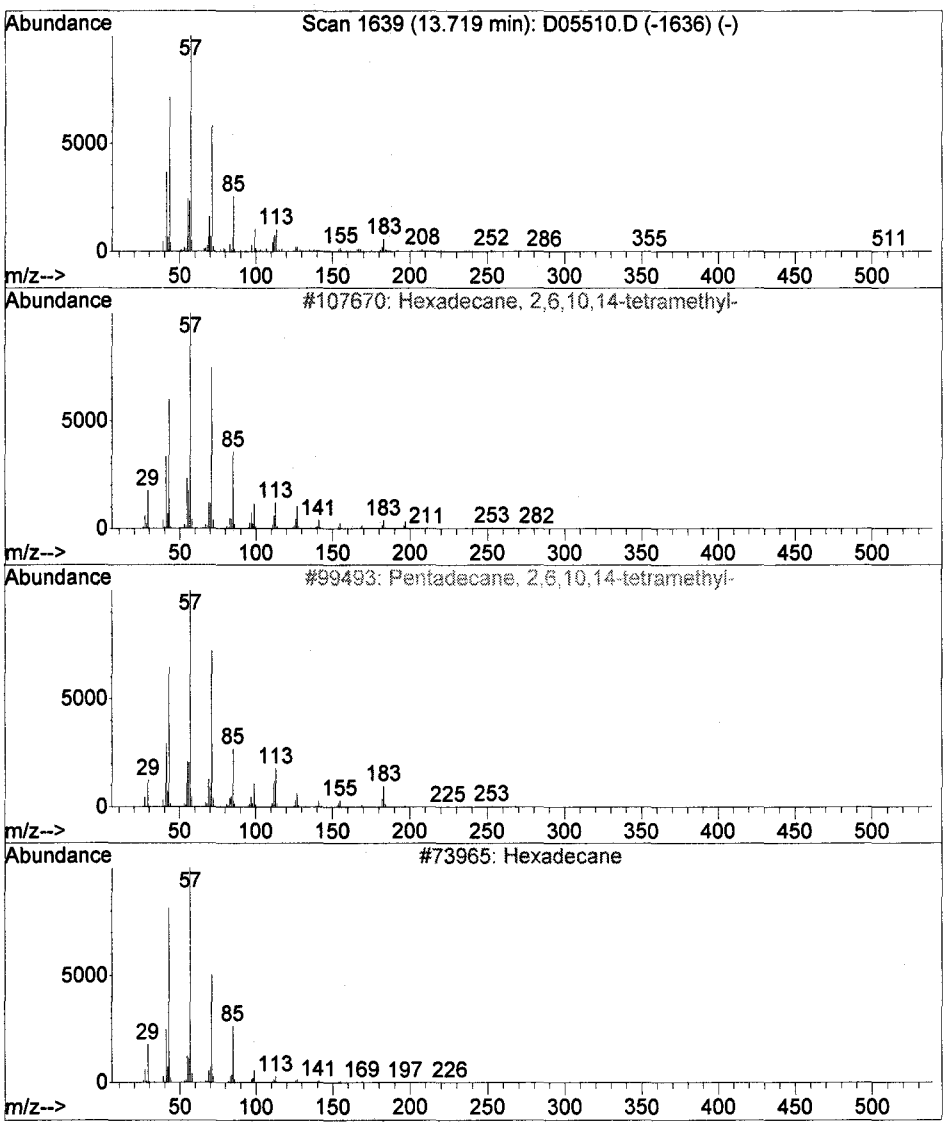
****

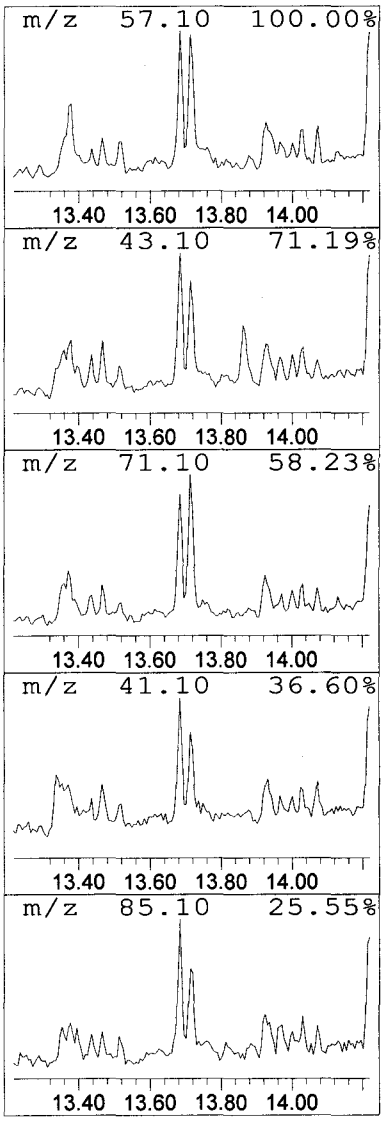
Peak Number 1 Hexadecane, 2,6,10,14-tetra... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	6.14 ug/L	13846300	Phenanthrene-d10	14.33

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	80
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	76
3	Hexadecane	226	C16H34	000544-76-3	76
4	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	76
5	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	74





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/19/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

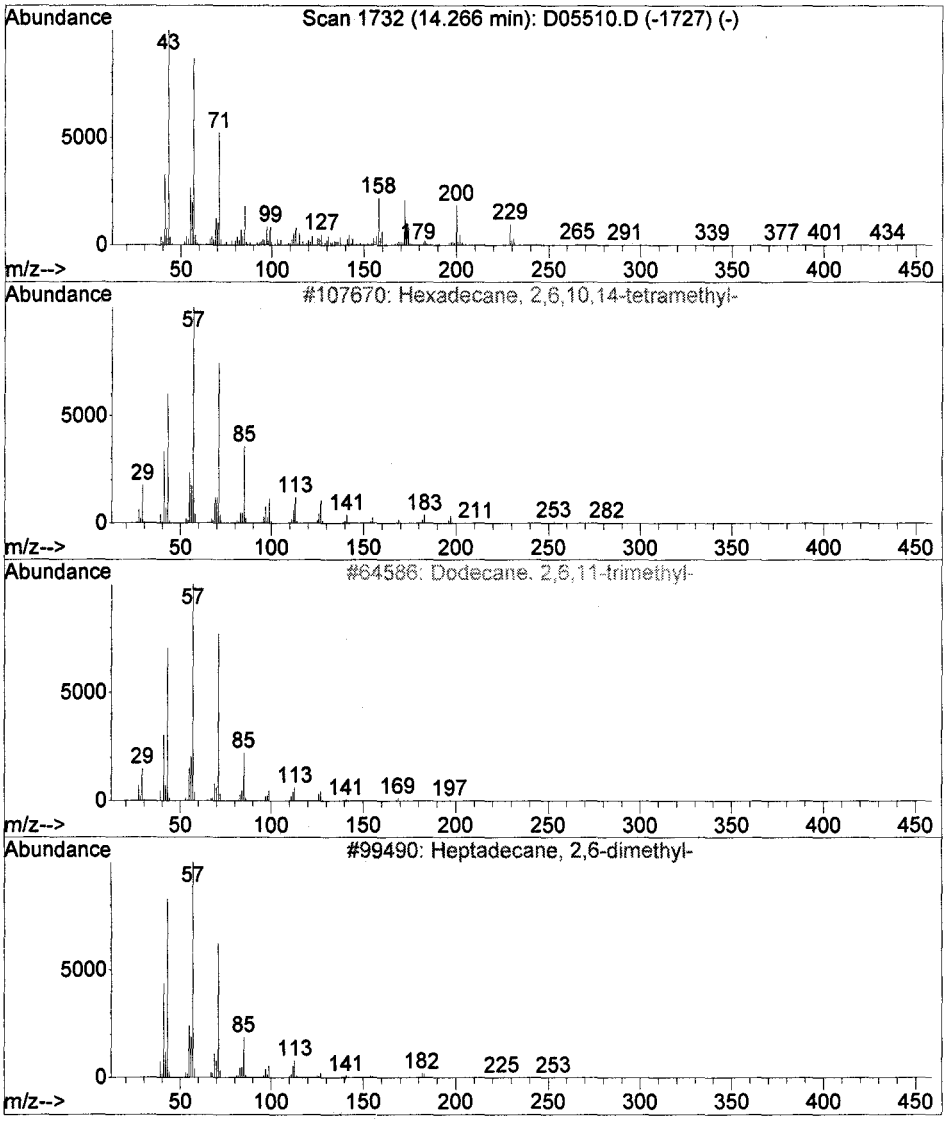
****

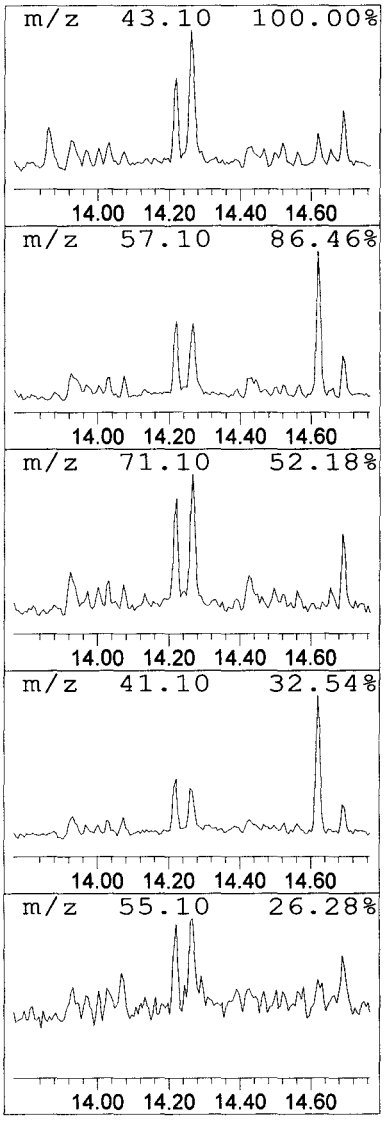
Peak Number 2 Hexadecane, 2,6,10,14-tetra... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.27	7.58 ug/L	17087600	Phenanthrene-d10	14.13

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	64
2	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	46
3	Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	46
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	43
5	Decane, 2-methyl-	156	C11H24	006975-98-0	43





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/15/11

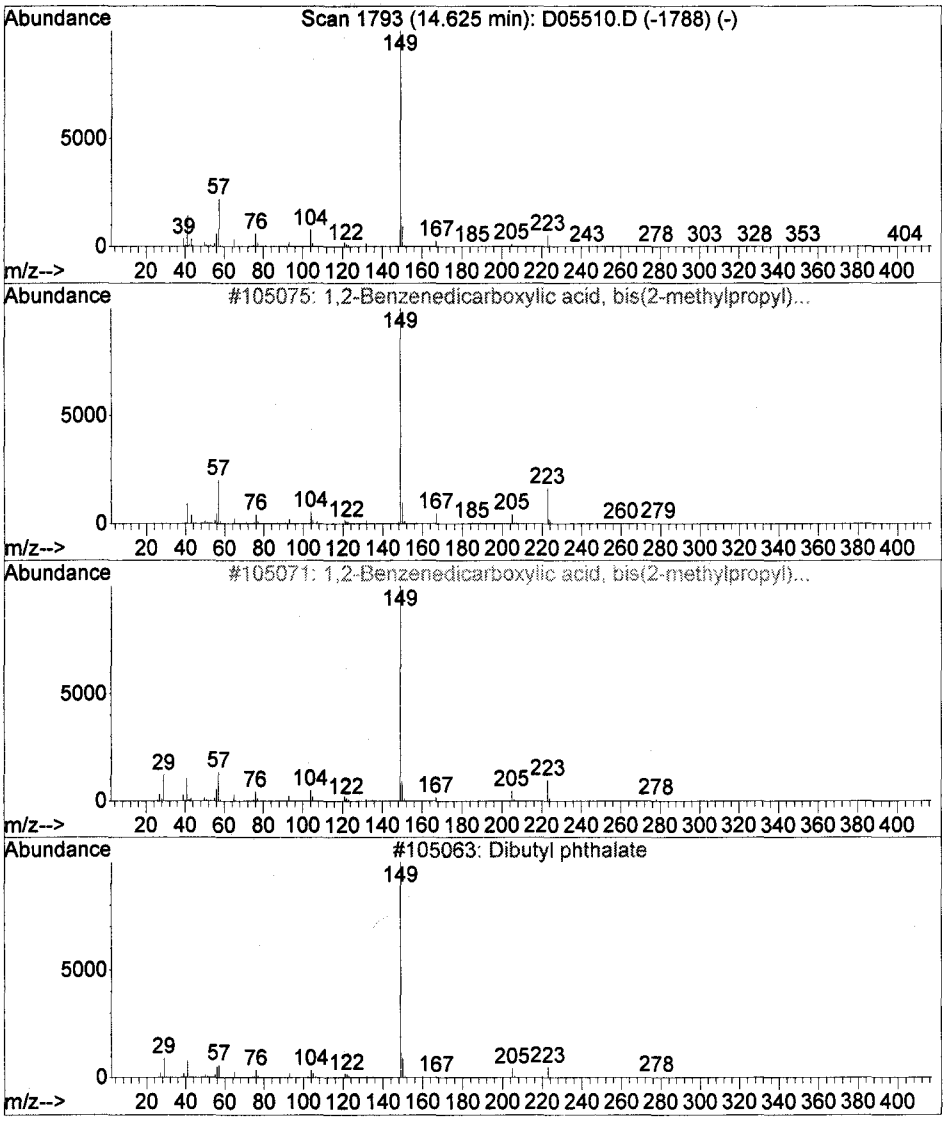
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

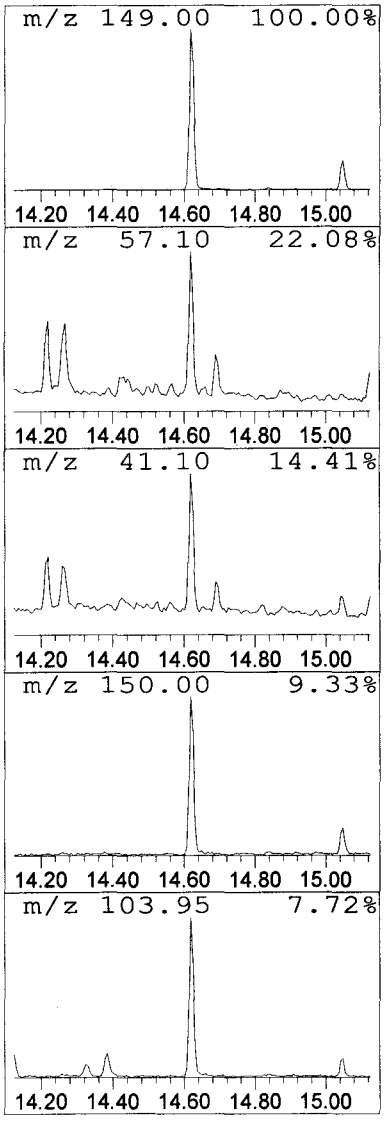
****

Peak Number 3 1,2-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	9.10 ug/L	20517300	Phenanthrene-d10	14.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	87
2	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	83
3	Dibutyl phthalate	278	C16H22O4	000084-74-2	78
4	1,2-Benzenedicarboxylic acid, bu...	304	C18H24O4	000084-64-0	64
5	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	64





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05510.D
Acq On : 12/15/11 15:41 Operator: SV
Sample : F4XQ9 Inst : D-5973
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexadecane, 2,6,1...	13.72	6.1	ug/L	13846300	4	14.33	45089300	20.0
Hexadecane, 2,6,1...	14.27	7.6	ug/L	17087600	4	14.33	45089300	20.0
1,2-Benzenedicarb...	14.62	9.1	ug/L	20517300	4	14.33	45089300	20.0

6E - FORM VI SV-1
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date(s): 12/13/2011 12/13/2011

Calibration Time(s): 1217 1712

LAB FILE ID: _____ RRF 5.0 = D05482 RRF 10 = D05481

RRF 20 = D05480 RRF 40 = D05479 RRF 80 = D05478

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	% RSD
Benzaldehyde	0.8460	0.8760	1.0150	0.9420	0.8170	0.8992	8.9
Phenol	1.5660	1.6810	1.8600	1.8790	1.8200	1.7612	7.6
Bis(2-chloroethyl)ether	1.2610	1.3970	1.4680	1.3920	1.3510	1.3738	5.5
2-Chlorophenol	1.2910	1.2790	1.4330	1.3980	1.3680	1.3538	5.0
2-Methylphenol	1.1250	1.2090	1.3280	1.3260	1.2850	1.2546	6.9
2,2'-Oxybis(1-chloropropane)	3.7030	3.5420	3.7360	3.7510	3.5980	3.6660	2.5
Acetophenone	1.8060	1.7670	1.9480	1.9370	1.8600	1.8636	4.3
4-Methylphenol	1.4070	1.2480	1.3770	1.3780	1.3180	1.3456	4.7
N-Nitroso-di-n-propylamine	1.0900	1.0960	1.2170	1.2040	1.1580	1.1530	5.1
Hexachloroethane	0.6730	0.6540	0.6910	0.6820	0.6710	0.6742	2.0
Nitrobenzene	0.2680	0.3300	0.3820	0.3450	0.4510	0.3552	19.0
Isophorone	0.6800	0.6440	0.6600	0.6400	0.6290	0.6506	3.1
2-Nitrophenol	0.1370	0.1490	0.1710	0.1680	0.1640	0.1578	9.1
2,4-Dimethylphenol	0.2760	0.2710	0.2920	0.3190	0.3110	0.2938	7.2
Bis(2-chloroethoxy)methane	0.3750	0.3900	0.4080	0.4040	0.3970	0.3948	3.3
2,4-Dichlorophenol	0.2400	0.2440	0.2540	0.2640	0.2620	0.2528	4.2
Naphthalene	0.9870	0.9700	1.0000	0.9650	0.9740	0.9792	1.5
4-Chloroaniline	0.2060	0.2320	0.2860	0.2790	0.2780	0.2562	13.8
Hexachlorobutadiene	0.1710	0.1640	0.1630	0.1580	0.1590	0.1630	3.2
Caprolactam	0.0880	0.0880	0.0980	0.1030	0.1010	0.0956	7.5
4-Chloro-3-methylphenol	0.2460	0.2190	0.2860	0.2710	0.2650	0.2574	10.0
2-Methylnaphthalene	0.7620	0.7250	0.7360	0.6860	0.6940	0.7206	4.3
Hexachlorocyclopentadiene	0.0640	0.0420	0.0520	0.0740	0.1030	0.0670	35.0
2,4,6-Trichlorophenol	0.2420	0.2690	0.3020	0.3160	0.3200	0.2898	11.5
2,4,5-Trichlorophenol	0.3240	0.3160	0.3450	0.3460	0.3440	0.3350	4.2
1,1'-Biphenyl	1.3490	1.3500	1.3990	1.4160	1.4630	1.3954	3.4
2-Chloronaphthalene	1.0430	1.0690	1.0900	1.1030	1.1410	1.0892	3.4
2-Nitroaniline		0.3140	0.3310	0.3460	0.3350	0.3315	4.0
Dimethylphthalate	1.1970	1.2080	1.2640	1.2990	1.3660	1.2668	5.5
2,6-Dinitrotoluene	0.2030	0.2230	0.2400	0.2400	0.2380	0.2288	7.0
Acenaphthylene	1.6830	1.6720	1.7180	1.7360	1.7880	1.7194	2.7
3-Nitroaniline		0.2590	0.2770	0.2980	0.3110	0.2863	8.0
Acenaphthene	1.1490	1.1440	1.1530	1.1590	1.2070	1.1624	2.2
2,4-Dinitrophenol		0.0320	0.0420	0.0490	0.0470	0.0425	17.9
4-Nitrophenol		0.0740	0.1080	0.1420	0.1350	0.1148	26.9
Dibenzofuran	1.4800	1.5110	1.5290	1.5100	1.5020	1.5064	1.2

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date(s): 12/13/2011 12/13/2011

Calibration Time(s): 1217 1712

LAB FILE ID: _____ RRF 5.0 = D05482 RRF 10 = D05481

RRF 20 = D05480 RRF 40 = D05479 RRF 80 = D05478

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{\text{RRF}}$	% RSD
2,4-Dinitrotoluene	0.2260	0.2770	0.3200	0.3480	0.3800	0.3102	19.5
Diethylphthalate	1.2720	1.3050	1.2870	1.2970	1.3390	1.3000	1.9
Fluorene	1.2730	1.2800	1.3110	1.3350	1.3890	1.3176	3.6
4-Chlorophenyl-phenylether	0.5990	0.5750	0.6000	0.5780	0.5820	0.5868	2.0
4-Nitroaniline		0.2740	0.2800	0.2920	0.2740	0.2800	3.0
4,6-Dinitro-2-methylphenol		0.0360	0.0600	0.0830	0.0900	0.0673	36.4
N-Nitrosodiphenylamine (1)	0.5710	0.5860	0.6070	0.5730	0.6020	0.5878	2.8
1,2,4,5-Tetrachlorobenzene	0.4320	0.4850	0.4670	0.4830	0.4940	0.4722	5.2
4-Bromophenyl-phenylether	0.1890	0.1860	0.1940	0.1840	0.1890	0.1884	2.0
Hexachlorobenzene	0.2060	0.2020	0.2100	0.2010	0.2030	0.2044	1.8
Atrazine	0.0300	0.0270	0.0290	0.0290	0.0270	0.0284	4.7
Pentachlorophenol		0.0620	0.0520	0.0750	0.0830	0.0680	20.2
Phenanthrene	1.0210	1.0020	1.0410	1.0080	1.0090	1.0162	1.5
Anthracene	1.1210	1.1000	1.1080	1.0740	1.0200	1.0846	3.7
Carbazole	1.0010	0.9410	0.9410	0.9850	0.8910	0.9518	4.5
Di-n-butylphthalate	1.2070	1.2360	1.2000	1.2980	1.0320	1.1946	8.3
Fluoranthene	1.1720	1.1030	1.0930	1.1870	0.9930	1.1096	7.0
Pyrene	1.3230	1.2310	1.1750	1.3020	1.1870	1.2436	5.4
Butylbenzylphthalate	0.6710	0.5880	0.5790	0.6080	0.5790	0.6050	6.4
3,3'-Dichlorobenzidine	0.4080	0.3740	0.3370	0.3470	0.2720	0.3476	14.5
Benzo(a)anthracene	1.2490	1.1190	1.0670	1.0750	1.0340	1.1088	7.6
Chrysene	1.2910	1.0960	1.0240	0.9990	0.9600	1.0740	12.2
Bis(2-ethylhexyl)phthalate	0.8940	0.8190	0.7880	0.8420	0.7980	0.8282	5.1
Di-n-octylphthalate	1.6500	1.5120	1.4550	1.6370	1.5810	1.5670	5.3
Benzo(b)fluoranthene	1.1460	1.2550	1.0710	1.1100	1.1020	1.1368	6.3
Benzo(k)fluoranthene	1.3610	1.2120	1.1410	1.1620	1.0880	1.1928	8.7
Benzo(a)pyrene	1.1800	1.0690	1.0390	1.0830	1.0200	1.0782	5.8
Indeno(1,2,3-cd)pyrene	1.2260	1.1510	1.1040	1.1040	1.0650	1.1300	5.5
Dibenzo(a,h)anthracene	0.9800	0.9540	0.9150	0.9210	0.8920	0.9324	3.7
Benzo(g,h,i)perylene	1.0520	0.9810	0.9220	0.9110	0.8770	0.9486	7.3
2,3,4,6-Tetrachlorophenol	0.1700	0.2050	0.2160	0.2500	0.2410	0.2164	14.6

(1) Cannot be separated from Diphenylamine

6G - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date(s): 12/13/2011 12/13/2011

Calibration Time(s): 1217 1712

LAB FILE ID: _____ RRF 5.0 = D05482 RRF 10 = D05481

RRF20 = D05480 RRF 40 = D05479 RRF 80 = D05478

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{\text{RRF}}$	% RSD
Phenol-d5	2.8250	2.8200	2.9800	3.0360	2.9490	2.9220	3.3
Bis(2-chloroethyl)ether-d8	1.1730	1.1520	1.2140	1.2460	1.1950	1.1960	3.0
2-Chlorophenol-d4	1.3570	1.3220	1.4420	1.4170	1.3830	1.3842	3.4
4-Methylphenol-d8	1.0680	1.1610	1.3300	1.3810	1.3680	1.2616	11.1
Nitrobenzene-d5	0.1440	0.1460	0.1510	0.1550	0.1500	0.1492	2.9
2-Nitrophenol-d4	0.1370	0.1320	0.1560	0.1490	0.1370	0.1422	7.0
2,4-Dichlorophenol-d3	0.2470	0.2470	0.2600	0.2660	0.2670	0.2574	3.8
4-Chloroaniline-d4	0.2400	0.2690	0.3100	0.3100	0.3040	0.2866	10.9
Dimethylphthalate-d6	1.2270	1.2270	1.2500	1.2720	1.2880	1.2528	2.2
Acenaphthylene-d8	1.7320	1.7940	1.8400	1.9040	2.0030	1.8546	5.6
4-Nitrophenol-d4		0.1490	0.1570	0.2000	0.2010	0.1768	15.6
Fluorene-d10	1.1730	1.1740	1.2030	1.2150	1.2180	1.1966	1.8
4,6-Dinitro-2-methylphenol-d2		0.0350	0.0590	0.0770	0.0840	0.0638	34.3
Anthracene-d10	1.1790	1.0930	1.0650	1.0130	1.0140	1.0728	6.4
Pyrene-d10	1.2190	1.1220	1.0640	1.2090	1.1520	1.1532	5.5
Benzo(a)pyrene-d12	1.0310	0.9200	0.9000	0.9350	0.8790	0.9330	6.3

Response Factor Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 15 09:08:36 2011
Response Via : Initial Calibration

Calibration Files
1 =D05482.D 2 =D05481.D 3 =D05480.D
4 =D05479.D 5 =D05478.D

		Compound	1	2	3	4	5	Avg	%RSD
1)		1,4-Dichlorobenzene-d	ISTD						
2)		Benzaldehyde	0.846	0.876	1.015	0.942	0.817	0.900	8.84
3)	S	Phenol-d5	2.825	2.820	2.980	3.036	2.949	2.922	3.28
4)		Phenol	1.566	1.681	1.860	1.879	1.820	1.761	7.59
5)	S	Bis(2-chloroethyl)e	1.173	1.152	1.214	1.246	1.195	1.196	3.04
6)		Bis(2-chloroethyl)e	1.261	1.397	1.468	1.392	1.351	1.374	5.53
7)	S	2-Chlorophenol-d4	1.357	1.322	1.442	1.417	1.383	1.384	3.43
8)		2-Chlorophenol	1.291	1.279	1.433	1.398	1.368	1.354	4.97
9)		2-Methylphenol	1.125	1.209	1.328	1.326	1.285	1.255	6.93
10)		2,2'-Oxybis(1-chlor	3.703	3.542	3.736	3.751	3.598	3.666	2.50
11)		Acetophenone	1.806	1.767	1.948	1.937	1.860	1.864	4.26
12)	S	4-Methylphenol-d8	1.068	1.161	1.330	1.381	1.368	1.262	11.07
13)		4-Methylphenol	1.407	1.248	1.377	1.378	1.318	1.345	4.72
14)		N-Nitroso-di-n-prop	1.090	1.096	1.217	1.204	1.158	1.153	5.13
15)		Hexachloroethane	0.673	0.654	0.691	0.682	0.671	0.674	2.00
16)		Naphthalene-d8	ISTD						
17)	S	Nitrobenzene-d5	0.144	0.146	0.151	0.155	0.150	0.149	2.81
18)		Nitrobenzene	0.268	0.330	0.382	0.345	0.451	0.355	19.00
19)		Isophorone	0.680	0.644	0.660	0.640	0.629	0.651	3.09
20)	S	2-Nitrophenol-d4	0.137	0.132	0.156	0.149	0.137	0.142	6.97
21)		2-Nitrophenol	0.137	0.149	0.171	0.168	0.164	0.158	9.29
22)		2,4-Dimethylphenol	0.276	0.271	0.292	0.319	0.311	0.294	7.14
23)		bis(2-Chloroethoxy)	0.375	0.390	0.408	0.404	0.397	0.395	3.34
24)	S	2,4-Dichlorophenol-	0.247	0.247	0.260	0.266	0.267	0.257	3.76
25)		2,4-Dichlorophenol	0.240	0.244	0.254	0.264	0.262	0.253	4.32
26)		Naphthalene	0.987	0.970	1.000	0.965	0.974	0.979	1.46
27)	S	4-Chloroaniline-d4	0.240	0.269	0.310	0.310	0.304	0.287	10.90
28)		4-Chloroaniline	0.206	0.232	0.286	0.279	0.278	0.256	13.77
29)		Hexachlorobutadiene	0.171	0.164	0.163	0.158	0.159	0.163	3.12
30)		Caprolactam	0.088	0.088	0.098	0.103	0.101	0.095	7.53
31)		4-Chloro-3-methylph	0.246	0.219	0.286	0.271	0.265	0.258	9.96
32)		2-Methylnaphthalene	0.762	0.725	0.736	0.686	0.694	0.721	4.33
33)		Acenaphthene-d10	ISTD						
34)		Hexachlorocyclopent	0.064	0.042	0.052	0.074	0.103	0.067	34.95
35)		2,4,6-Trichlorophen	0.242	0.269	0.302	0.316	0.320	0.290	11.47
36)		2,4,5-Trichlorophen	0.324	0.316	0.345	0.346	0.344	0.335	4.22
37)		2,3,4,6-Tetrachloro	0.170	0.205	0.216	0.250	0.241	0.216	14.74
38)		1,1'-Biphenyl	1.349	1.350	1.399	1.416	1.463	1.395	3.43
39)		2-Chloronaphthalene	1.043	1.069	1.090	1.103	1.141	1.089	3.40
40)		2-Nitroaniline		0.314	0.331	0.346	0.335	0.331	3.96
41)	S	Acenaphthylene-d8	1.732	1.794	1.840	1.904	2.003	1.854	5.62
42)		Acenaphthylene	1.683	1.672	1.718	1.736	1.788	1.719	2.68
43)	S	Dimethylphthalate-d	1.227	1.227	1.250	1.272	1.288	1.253	2.18
44)		Dimethylphthalate	1.197	1.208	1.264	1.299	1.366	1.267	5.49
45)		3-Nitroaniline		0.259	0.277	0.298	0.311	0.286	7.97
46)		Acenaphthene	1.149	1.144	1.153	1.159	1.207	1.162	2.18
47)		2,4-Dinitrophenol		0.032	0.042	0.049	0.047	0.042	16.94
48)		Dibenzofuran	1.480	1.511	1.529	1.510	1.502	1.506	1.19
49)	S	4-Nitrophenol-d4		0.149	0.157	0.200	0.201	0.177	15.60
50)		4-Nitrophenol		0.074	0.108	0.142	0.135	0.115	26.80
51)		2,6-Dinitrotoluene	0.203	0.223	0.240	0.240	0.238	0.229	6.98
52)		2,4-Dinitrotoluene	0.226	0.277	0.320	0.348	0.380	0.310	19.50
53)		1,2,4,5-Tetrachloro	0.432	0.485	0.467	0.483	0.494	0.472	5.20
54)		Diethylphthalate	1.272	1.305	1.287	1.297	1.339	1.300	1.91
55)		4-Chlorophenyl-phen	0.599	0.575	0.600	0.578	0.582	0.587	2.01

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 15 09:08:36 2011
Response Via : Initial Calibration

Calibration Files
1 =D05482.D 2 =D05481.D 3 =D05480.D
4 =D05479.D 5 =D05478.D

		Compound	1	2	3	4	5	Avg	%RSD
56)	S	Fluorene-d10	1.173	1.174	1.203	1.215	1.218	1.197	1.81
57)		Fluorene	1.273	1.280	1.311	1.335	1.389	1.318	3.57
58)		4-Nitroaniline		0.274	0.280	0.292	0.274	0.280	3.03
59)		Phenanthrene-d10	ISTD						
60)	S	4,6-Dinitro-2-methy		0.035	0.059	0.077	0.084	0.064	34.30
61)		4,6-Dinitro-2-methy		0.036	0.060	0.083	0.090	0.067	36.87
62)		N-Nitrosodiphenylam	0.571	0.586	0.607	0.573	0.602	0.587	2.78
63)		4-Bromophenyl-pheny	0.189	0.186	0.194	0.184	0.189	0.188	2.02
64)		Hexachlorobenzene	0.206	0.202	0.210	0.201	0.203	0.204	1.84
65)		Atrazine	0.030	0.027	0.029	0.029	0.027	0.028	4.55
66)		Pentachlorophenol		0.062	0.052	0.075	0.083	0.068	20.42
67)		Phenanthrene	1.021	1.002	1.041	1.008	1.009	1.016	1.53
68)	S	Anthracene-d10	1.179	1.093	1.065	1.013	1.014	1.073	6.38
69)		Anthracene	1.121	1.100	1.108	1.074	1.020	1.085	3.69
70)		Carbazole	1.001	0.941	0.941	0.985	0.891	0.952	4.53
71)		Di-n-butylphthalate	1.207	1.236	1.200	1.298	1.032	1.195	8.26
72)		Fluoranthene	1.172	1.103	1.093	1.187	0.993	1.110	6.97
73)		Chrysene-d12	ISTD						
74)		Butylbenzylphthalat	0.671	0.588	0.579	0.608	0.579	0.605	6.39
75)		bis(2-ethylhexyl)ph	0.894	0.819	0.788	0.842	0.798	0.828	5.12
76)		3,3'-Dichlorobenzid	0.408	0.374	0.337	0.347	0.272	0.348	14.52
77)		Benzo(a)anthracene	1.249	1.119	1.067	1.075	1.034	1.109	7.56
78)		Chrysene	1.291	1.096	1.024	0.999	0.960	1.074	12.18
79)	S	Pyrene-d10	1.219	1.122	1.064	1.209	1.152	1.153	5.56
80)		Pyrene	1.323	1.231	1.175	1.302	1.187	1.244	5.36
81)		Perylene-d12	ISTD						
82)		Di-n-octylphthalate	1.650	1.512	1.455	1.637	1.581	1.567	5.27
83)		Benzo(b)fluoranthen	1.146	1.255	1.071	1.110	1.102	1.137	6.26
84)		Benzo(k)fluoranthen	1.361	1.212	1.141	1.162	1.088	1.193	8.74
85)	S	Benzo(a)pyrene-d12	1.031	0.920	0.900	0.935	0.879	0.933	6.30
86)		Benzo(a)pyrene	1.180	1.069	1.039	1.083	1.020	1.078	5.76
87)		Dibenzo(a,h)anthrac	0.980	0.954	0.915	0.921	0.892	0.932	3.73
88)		Indeno(1,2,3-cd)pyr	1.226	1.151	1.104	1.104	1.065	1.130	5.46
89)		Benzo(g,h,i)perylen	1.052	0.981	0.922	0.911	0.877	0.949	7.25

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17
Sample : SSTD0808S
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG FLXPO
Episode S-4460 Init/date 12/19/11

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	4975582	20.0000 ug/L	0.00
16) Naphthalene-d8	8.36	136	21846624	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	12532649	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	21658171	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	18352100	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	14942380	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.11	99	58694642	88.2523 ug/L	0.03
Spiked Amount 40.000	Range 39 - 106		Recovery = 220.63%#		
5) Bis(2-chloroethyl)ether-d8	5.10	67	23792258	96.2808 ug/L	0.01
Spiked Amount 40.000	Range 40 - 105		Recovery = 240.70%#		
7) 2-Chlorophenol-d4	5.25	132	27520416	76.4116 ug/L	0.03
Spiked Amount 40.000	Range 41 - 106		Recovery = 191.03%#		
12) 4-Methylphenol-d8	6.61	113	27234456	95.2803 ug/L	-0.01
Spiked Amount 40.000	Range 25 - 111		Recovery = 238.20%#		
17) Nitrobenzene-d5	6.84	128	13072896	75.0049 ug/L	0.04
Spiked Amount 40.000	Range 43 - 108		Recovery = 187.51%#		
20) 2-Nitrophenol-d4	7.56	143	12015007	64.7946 ug/L	0.02
Spiked Amount 40.000	Range 40 - 108		Recovery = 161.99%#		
24) 2,4-Dichlorophenol-d3	8.13	165	23332261	84.1483 ug/L	0.01
Spiked Amount 40.000	Range 37 - 105		Recovery = 210.37%#		
27) 4-Chloroaniline-d4	8.65	131	26576265	63.2954 ug/L	-0.02
Spiked Amount 40.000	Range 1 - 145		Recovery = 158.24%#		
41) Acenaphthylene-d8	11.99	160	100395646	78.9805 ug/L	0.02
Spiked Amount 40.000	Range 41 - 107		Recovery = 197.45%#		
43) Dimethylphthalate-d6	11.95	166	64581121	72.0709 ug/L	0.01
Spiked Amount 40.000	Range 47 - 114		Recovery = 180.18%#		
49) 4-Nitrophenol-d4	12.74	143	10100042	63.6023 ug/L	-0.05
Spiked Amount 40.000	Range 33 - 116		Recovery = 159.01%#		
56) Fluorene-d10	13.08	176	61077314m	74.1867 ug/L	-0.03
Spiked Amount 40.000	Range 42 - 111		Recovery = 185.47%#		
60) 4,6-Dinitro-2-methylphenol	13.35	200	7275677	68.7491 ug/L	0.05
Spiked Amount 40.000	Range 22 - 104		Recovery = 171.87%#		
68) Anthracene-d10	14.39	188	87886248	60.7930 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 151.98%#		
79) Pyrene-d10	15.90	212	84541976	70.8289 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 177.07%#		
85) Benzo(a)pyrene-d12	18.87	264	52541486	61.0762 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 152.69%#		
Target Compounds					Qvalue
2) Benzaldehyde	4.79	77	16268920	68.8253 ug/L	92
4) Phenol	5.14	94	36223126	85.7407 ug/L #	92
6) Bis(2-chloroethyl)ether	5.20	93	26892915	80.0128 ug/L #	76
8) 2-Chlorophenol	5.27	128	27235626	76.0670 ug/L #	88
9) 2-Methylphenol	6.33	108	25568125	89.6163 ug/L	99
10) 2,2'-Oxybis(1-chloropropan	6.29	45	71601157	111.9797 ug/L #	100
11) Acetophenone	6.52	105	37019919	82.4605 ug/L #	83
13) 4-Methylphenol	6.67	108	26226796	92.4750 ug/L	96
14) N-Nitroso-di-n-propylamine	6.60	70	23056613	83.7315 ug/L #	79
15) Hexachloroethane	6.62	117	13347131	68.2355 ug/L	91
18) Nitrobenzene	6.88	77	39441714	112.7640 ug/L #	81
19) Isophorone	7.39	82	54924778	73.7205 ug/L	98
21) 2-Nitrophenol	7.59	139	14326658	73.7385 ug/L	89

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) 2,4-Dimethylphenol	7.81	107	27165523	79.1344	ug/L		99
23) bis(2-Chloroethoxy)methane	7.97	93	34729313	83.3732	ug/L		99
25) 2,4-Dichlorophenol	8.16	162	22925012	85.7387	ug/L	#	94
26) Naphthalene	8.41	128	85125917	71.8172	ug/L		98
28) 4-Chloroaniline	8.67	127	24331236	58.1042	ug/L		94
29) Hexachlorobutadiene	8.85	225	13876678	56.9893	ug/L		98
30) Caprolactam	9.41	113	8784852m	80.5592	ug/L		
31) 4-Chloro-3-methylphenol	9.97	107	23185142	96.3325	ug/L	#	79
32) 2-Methylnaphthalene	10.03	142	60610306	69.5851	ug/L		93
34) Hexachlorocyclopentadiene	10.58	237	5161106	49.2925	ug/L		99
35) 2,4,6-Trichlorophenol	10.86	196	16020026	82.9393	ug/L		95
36) 2,4,5-Trichlorophenol	10.97	196	17252886m	63.4891	ug/L		
37) 2,3,4,6-Tetrachlorophenol	12.92	232	12106233	64.2677	ug/L		96
38) 1,1'-Biphenyl	11.19	154	73318807	77.6249	UG/l	#	96
39) 2-Chloronaphthalene	11.18	162	57203853	78.8131	ug/L		99
40) 2-Nitroaniline	11.56	65	16794392	86.2686	ug/L		83
42) Acenaphthylene	12.02	152	89622467	72.6760	ug/L		99
44) Dimethylphthalate	11.99	163	68478431	77.4675	ug/L		99
45) 3-Nitroaniline	12.34	138	15589964	77.2454	ug/L	#	95
46) Acenaphthene	12.34	153	60488662	76.6763	ug/L		97
47) 2,4-Dinitrophenol	12.54	184	2334567	32.9370	ug/L	#	78
48) Dibenzofuran	12.61	168	75301366	66.9925	ug/L		96
50) 4-Nitrophenol	12.75	109	6774518	76.5375	ug/L	#	76
51) 2,6-Dinitrotoluene	12.12	165	11911918	69.0258	ug/L	#	75
52) 2,4-Dinitrotoluene	12.76	165	19037153	56.5848	ug/L	#	95
53) 1,2,4,5-Tetrachlorobenzene	10.54	216	24751020	70.5293	ug/L	#	96
54) Diethylphthalate	13.12	149	67110157	70.5615	ug/L		97
55) 4-Chlorophenyl-phenylether	13.15	204	29160510	66.2252	ug/L		98
57) Fluorene	13.13	166	69619493	71.8089	ug/L		98
58) 4-Nitroaniline	13.28	138	13748112m	63.3118	ug/L		
61) 4,6-Dinitro-2-methylphenol	13.36	198	7817844	77.1401	ug/L	#	69
62) N-Nitrosodiphenylamine	13.35	169	52109619	74.2430	ug/L		100
63) 4-Bromophenyl-phenylether	13.79	248	16351736	70.8438	ug/L		98
64) Hexachlorobenzene	13.97	284	17544748	65.0905	ug/L		94
65) Atrazine	14.08	200	2357430	10.7888	ug/L		99
66) Pentachlorophenol	14.22	266	7176733	69.2162	ug/L		97
67) Phenanthrene	14.35	178	87441833	74.9544	ug/L		95
69) Anthracene	14.41	178	88358098	63.3890	ug/L		98
70) Carbazole	14.63	167	77207457	66.6777	ug/L		99
71) Di-n-butylphthalate	15.05	149	89441120	61.0999	ug/L	#	96
72) Fluoranthene	15.68	202	85998159	59.3578	ug/L	#	91
74) Butylbenzylphthalate	16.59	149	42512194	71.1855	ug/L		91
75) bis(2-ethylhexyl)phthalate	17.16	149	58601144	73.2515	ug/L		98
76) 3,3'-Dichlorobenzidine	17.12	252	19982534	51.4368	ug/L	#	97
77) Benzo(a)anthracene	17.14	228	75905266	65.7680	ug/L		98
78) Chrysene	17.19	228	70500383	63.1096	ug/L		100
80) Pyrene	15.92	202	87138956	67.1126	ug/L	#	88
82) Di-n-octylphthalate	17.82	149	94471519m	78.8386	ug/L		
83) Benzo(b)fluoranthene	18.43	252	65873253m	71.9466	ug/L		
84) Benzo(k)fluoranthene	18.46	252	65029429	60.0953	ug/L	#	97
86) Benzo(a)pyrene	18.91	252	60949193	65.3894	ug/L	#	96
87) Dibenzo(a,h)anthracene	21.06	278	53309345	69.0075	ug/L	#	94
88) Indeno(1,2,3-cd)pyrene	21.06	276	63648763	66.2426	ug/L	#	83
89) Benzo(g,h,i)perylene	21.68	276	52445543	66.1286	ug/L	#	91

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

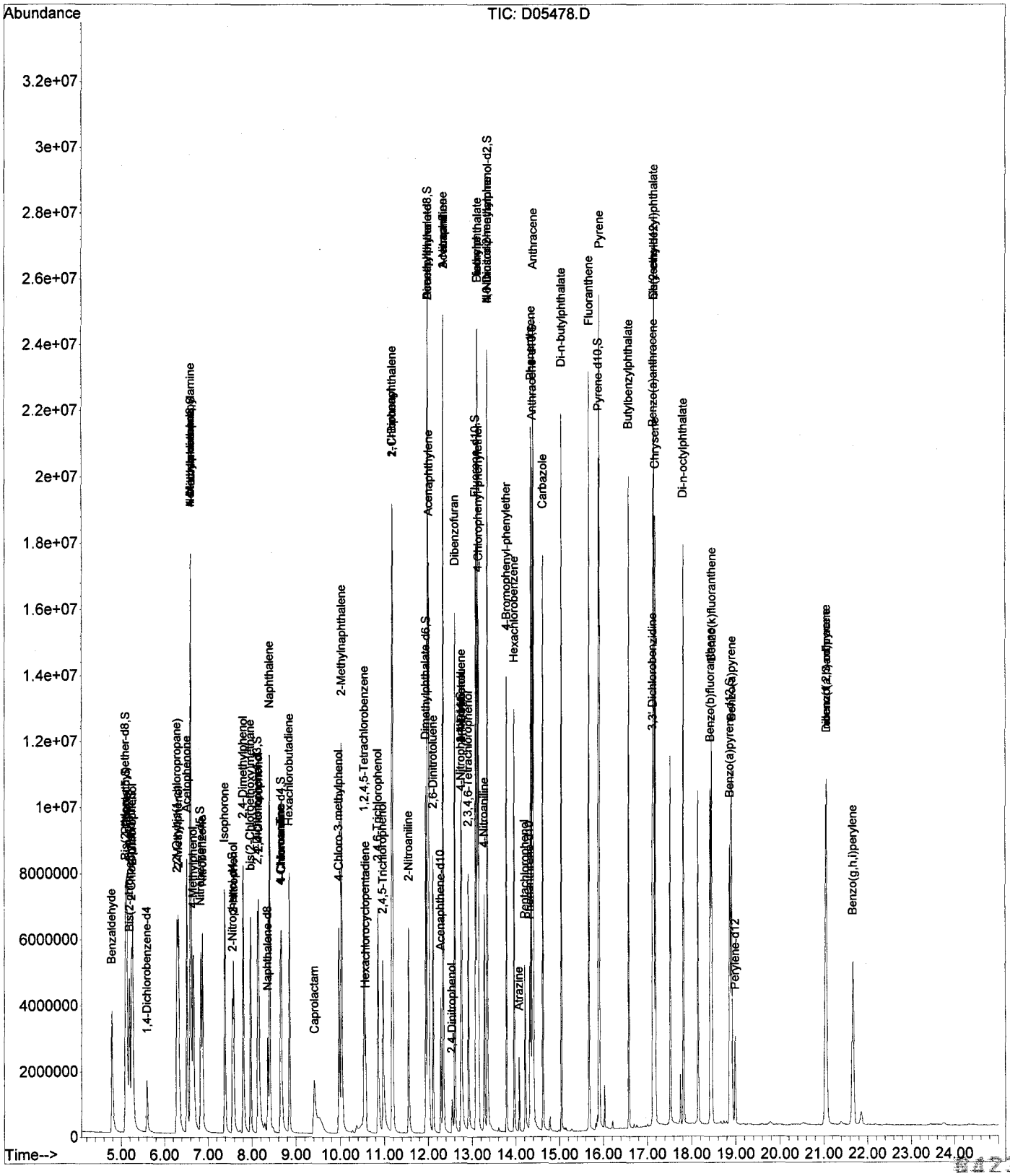
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

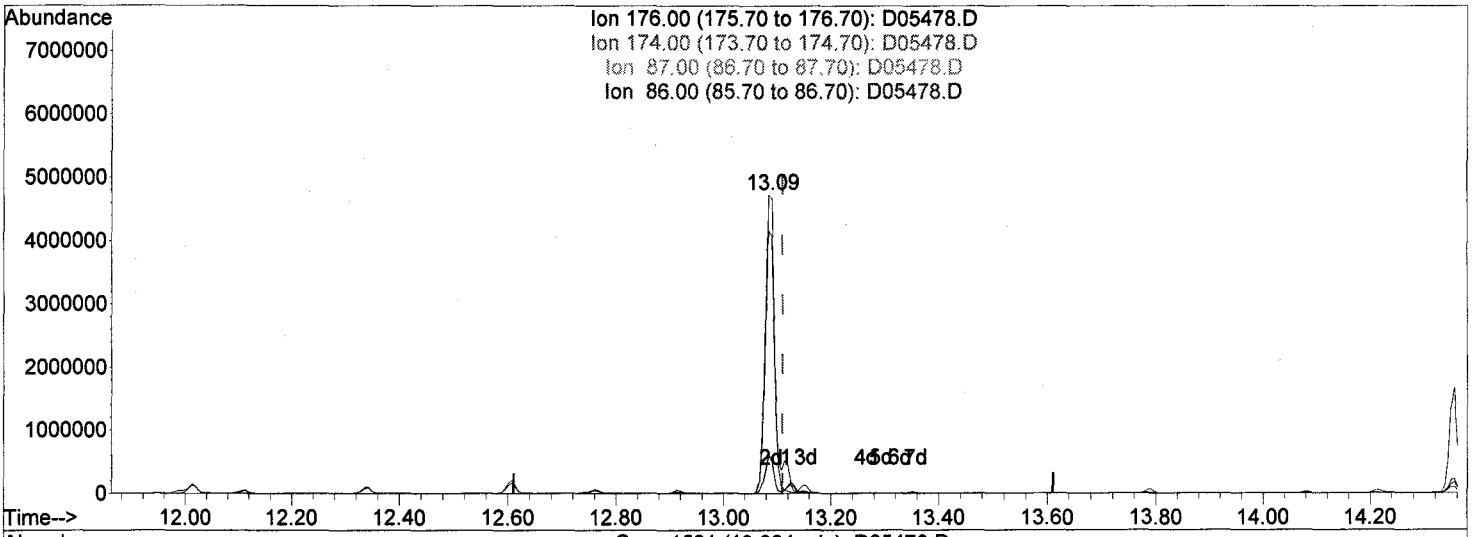


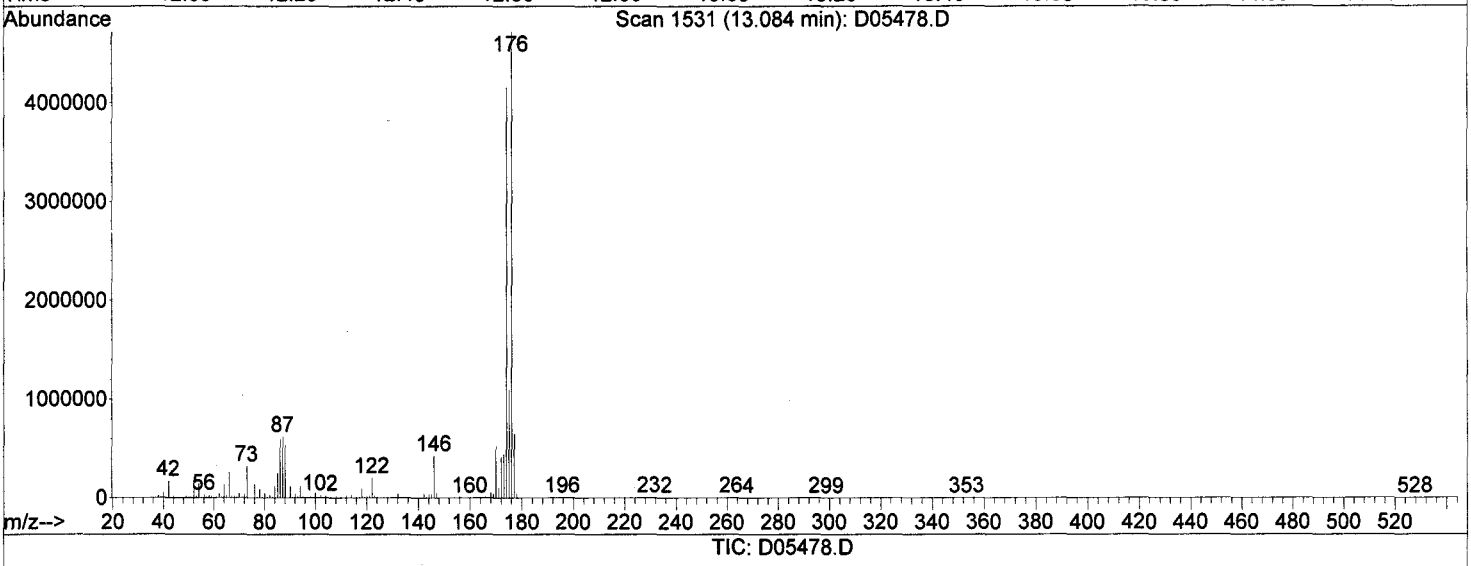
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

12/15/11





TIC: D05478.D

(56) Fluorene-d10 (S)

13.084min (-0.027) 74.1867ug/L m

response 61077314

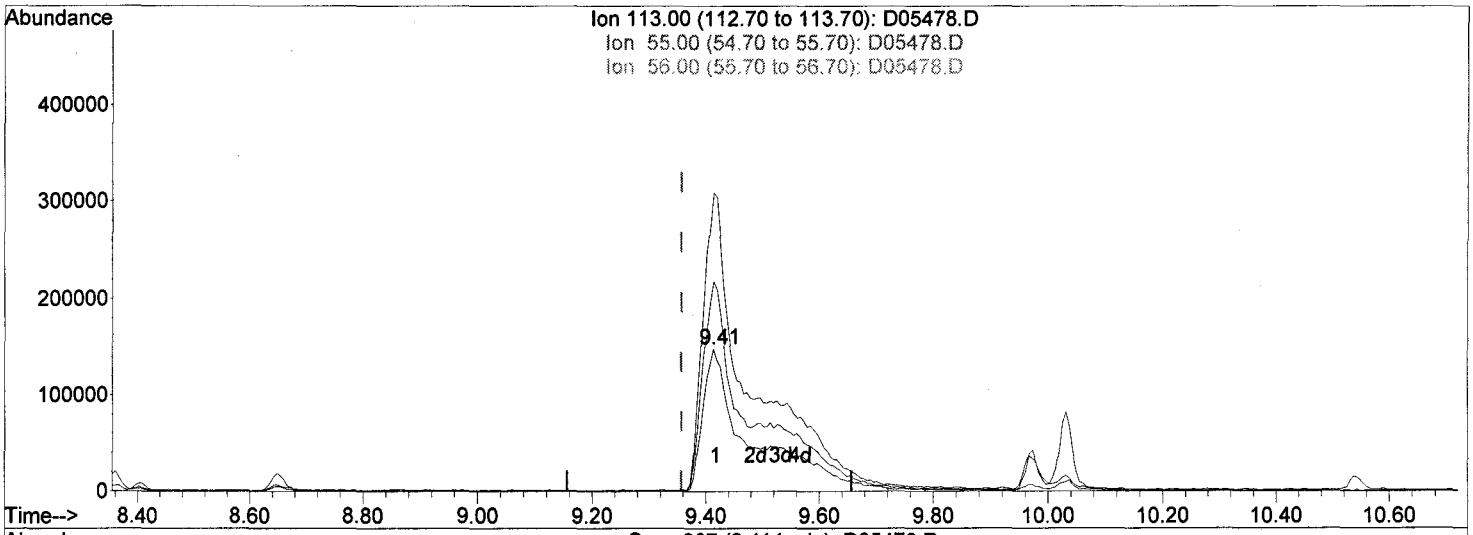
Ion	Exp%	Act%
176.00	100	100
174.00	86.30	0.00#
87.00	8.50	3.70#
86.00	9.10	2.88#

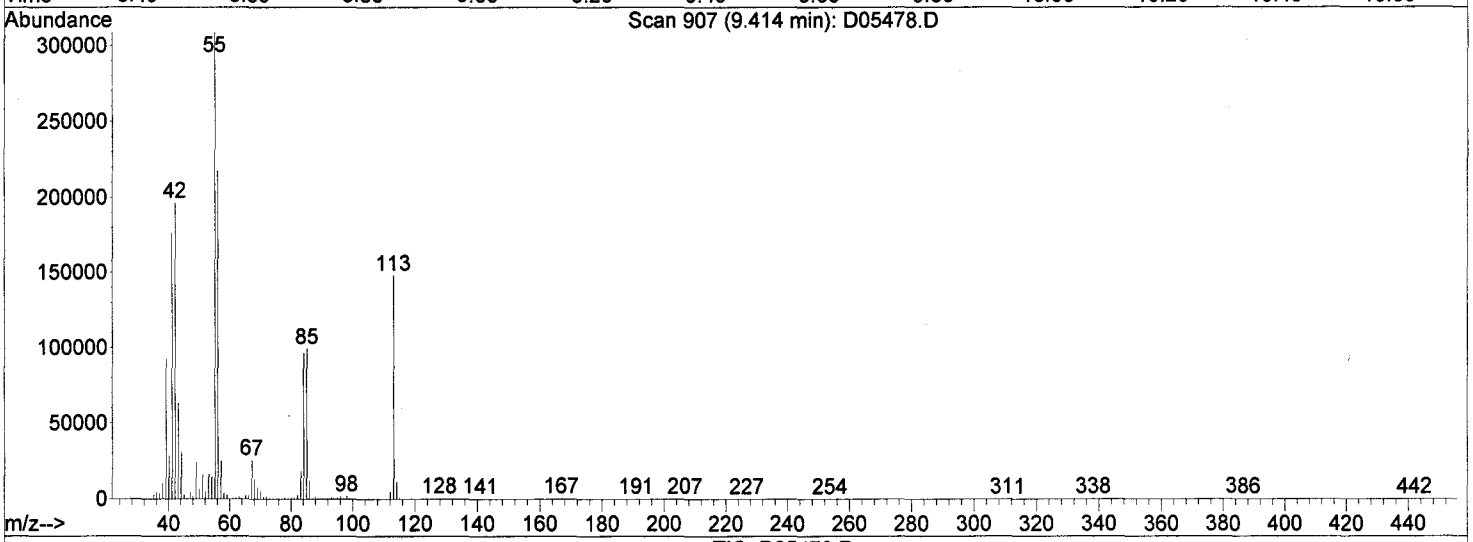
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

12/15/11





TIC: D05478.D

(30) Caprolactam

9.414min (+0.057) 80.5592ug/L m

response 8784852

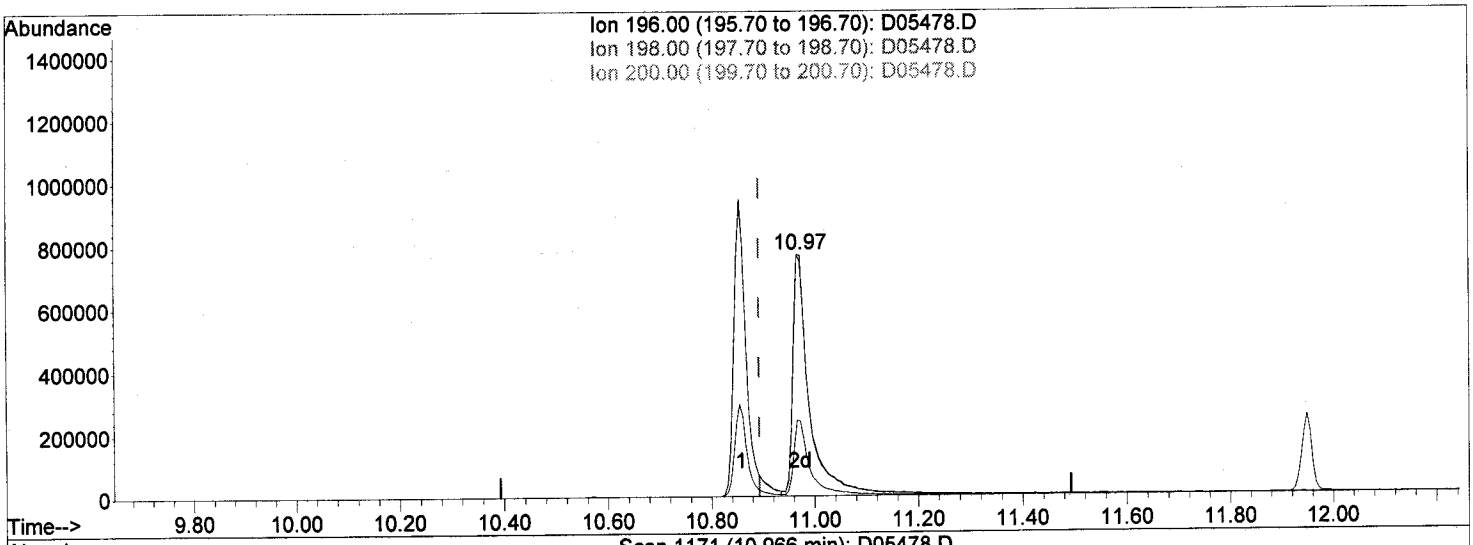
Ion	Exp%	Act%
113.00	100	100
55.00	71.90	119.92#
56.00	74.80	82.09
0.00	0.00	0.00

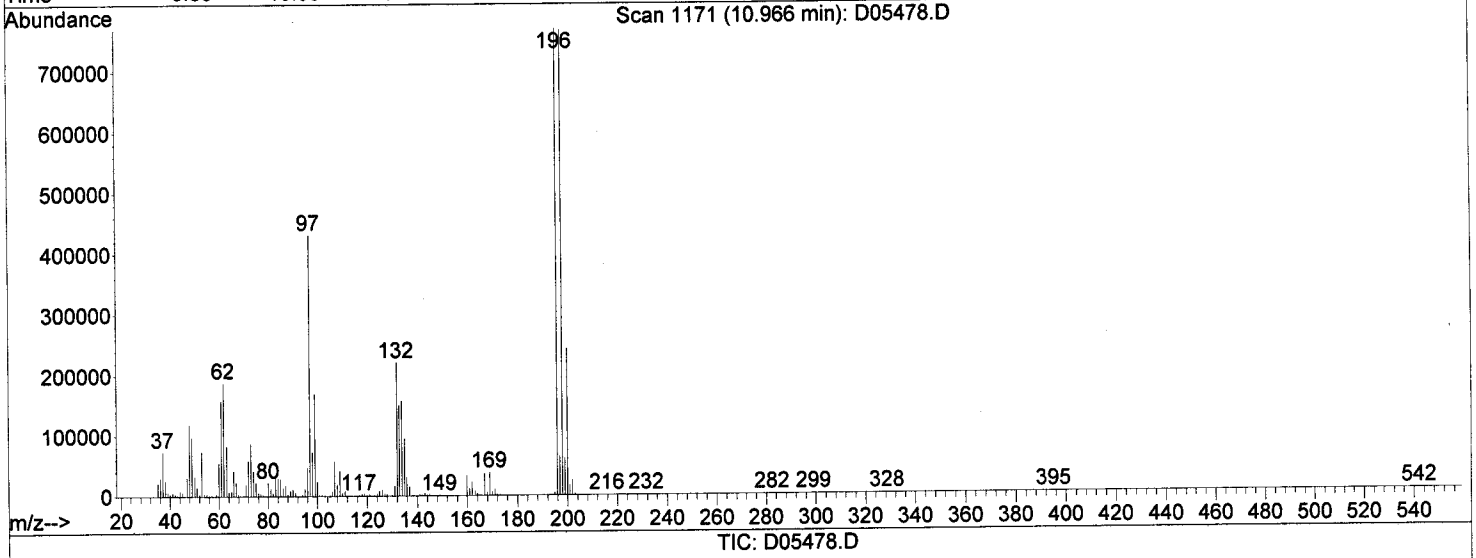
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

12/15/11





TIC: D05478.D

(36) 2,4,5-Trichlorophenol

10.966min (+0.073) 63.4891ug/L m

response 17252886

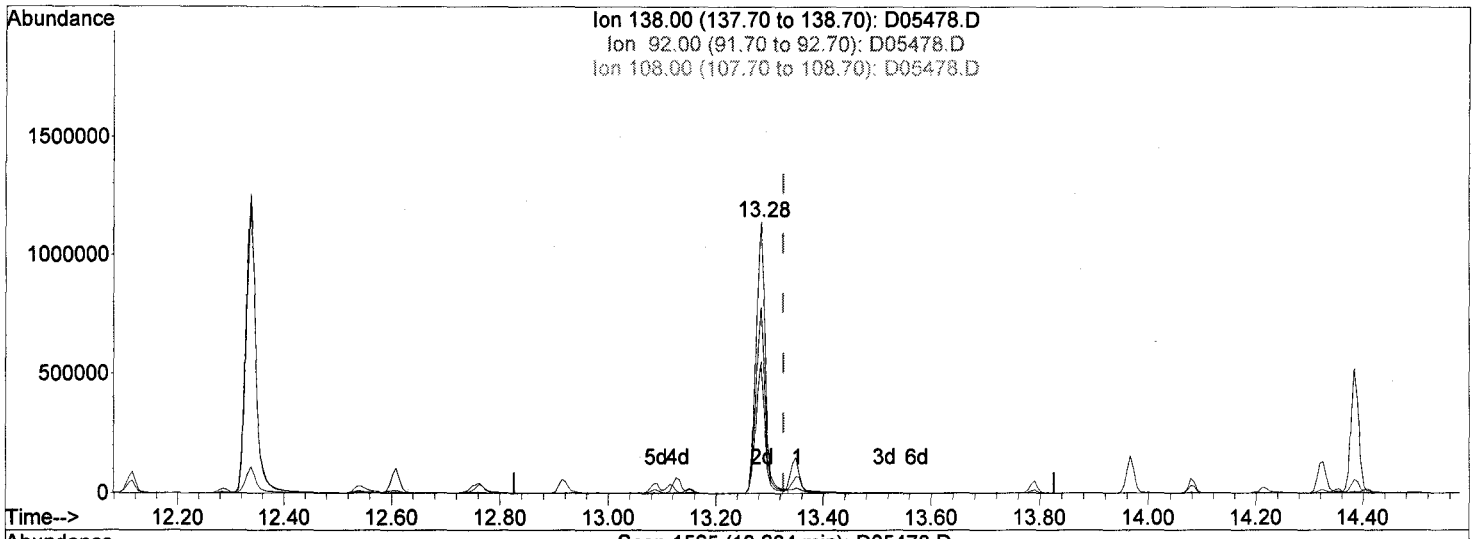
Ion	Exp%	Act%
196.00	100	100
198.00	69.30	92.12#
200.00	22.20	29.15#
0.00	0.00	0.00

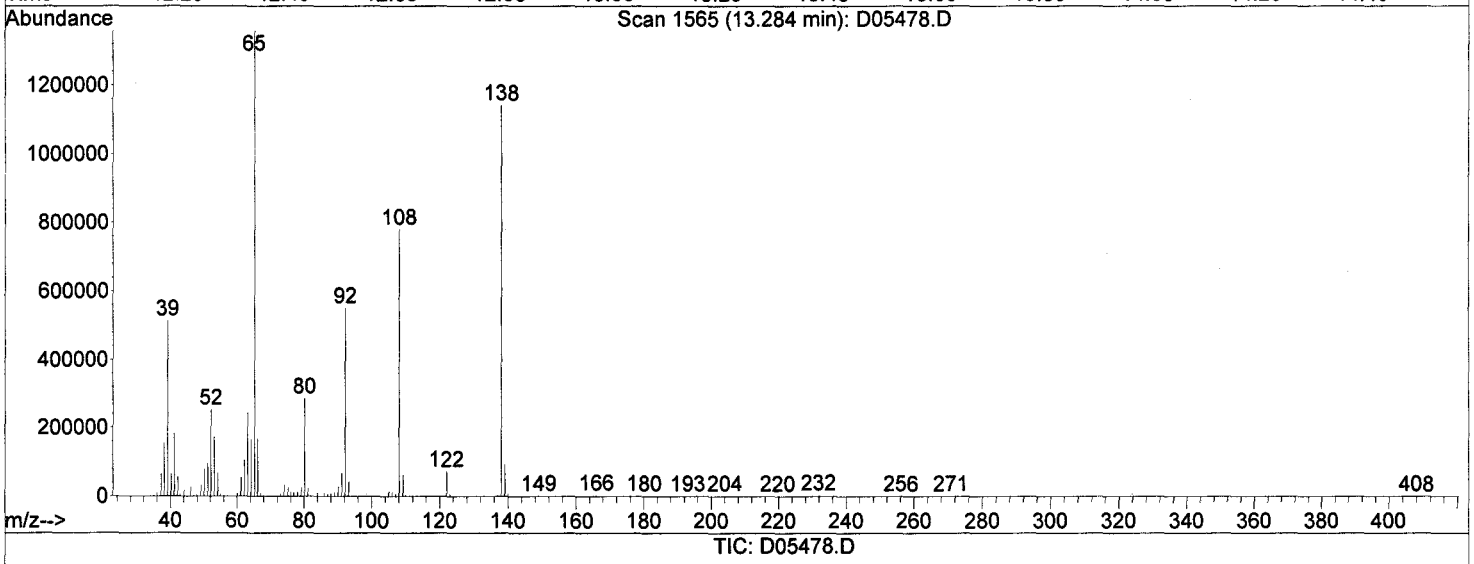
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

12/13/11





TIC: D05478.D

(58) 4-Nitroaniline

13.284min (-0.042) 63.3118ug/L m

response 13748112

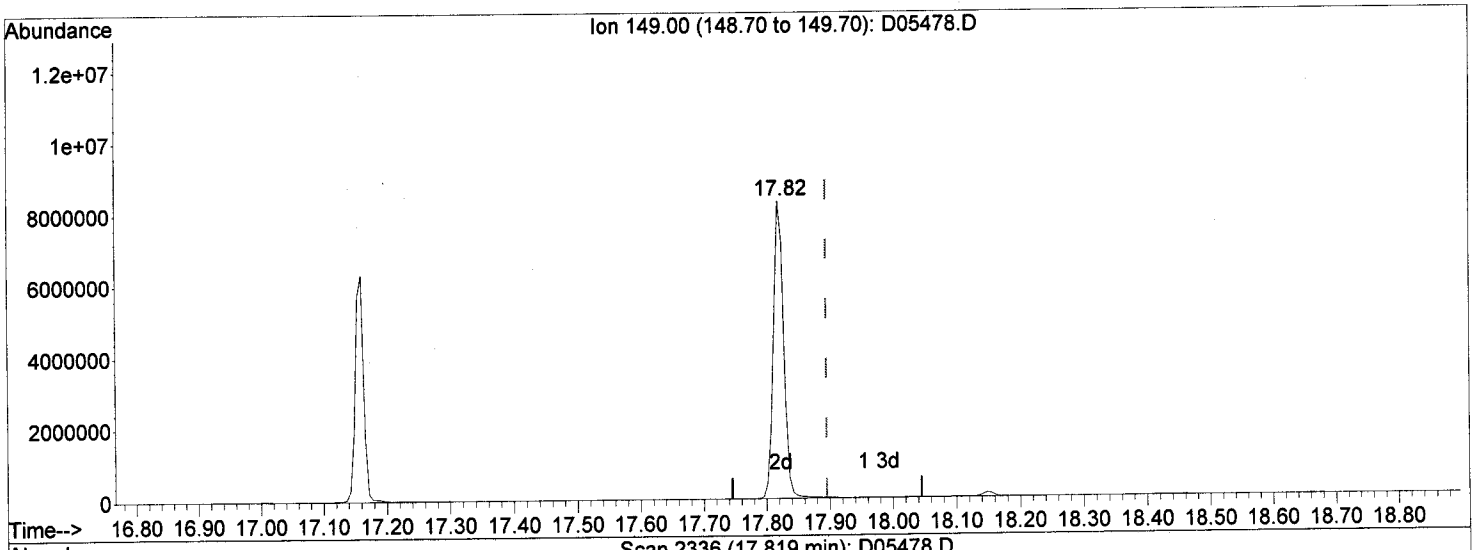
Ion	Exp%	Act%
138.00	100	100
92.00	35.20	7.35#
108.00	74.20	14.92#
0.00	0.00	0.00

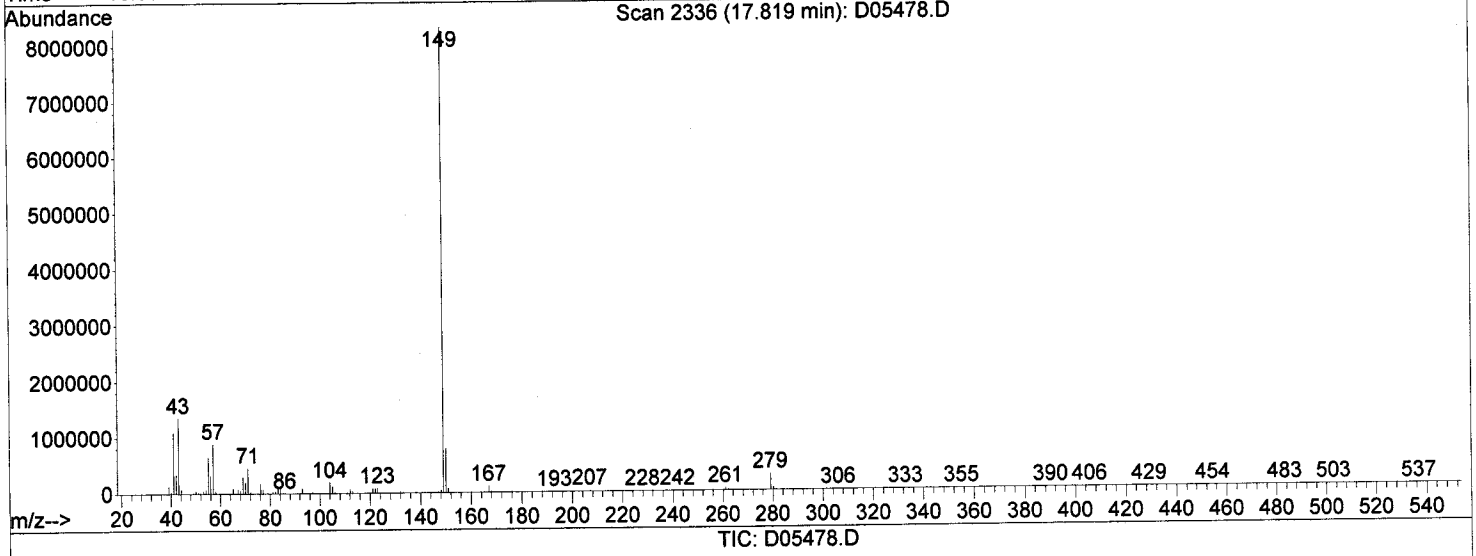
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17
Sample : SSTD0808S
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration





TIC: D05478.D

(82) Di-n-octylphthalate

17.819min (-0.077) 78.8386ug/L m

response 94471519

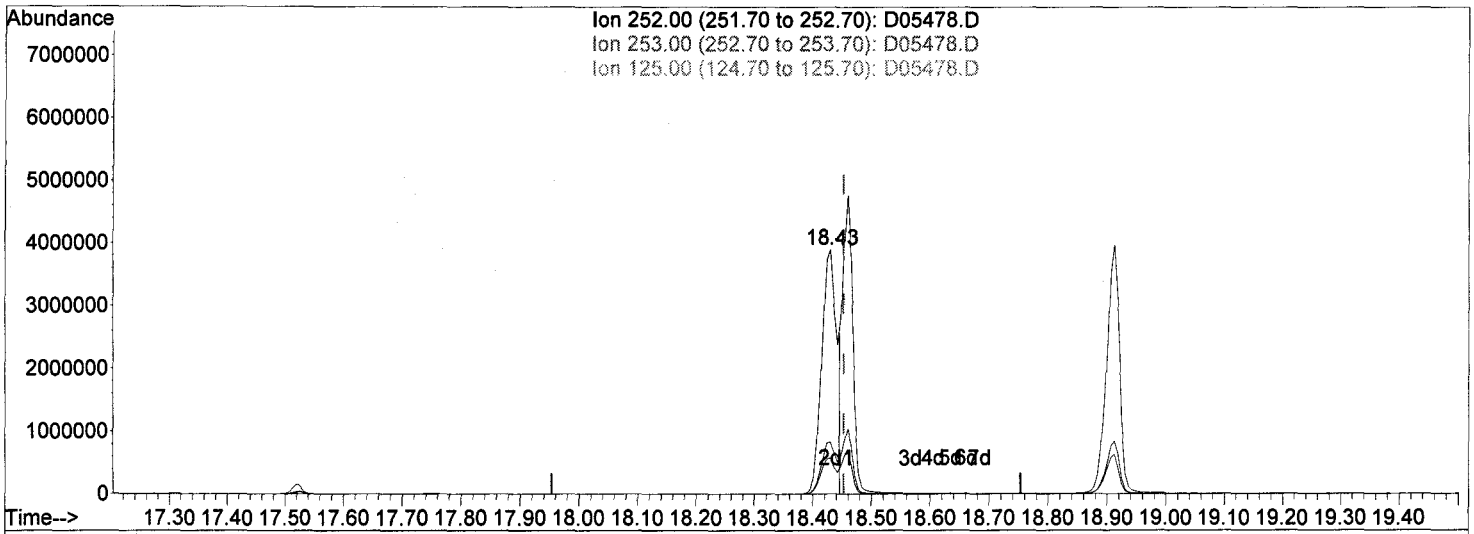
Ion	Exp%	Act%
149.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

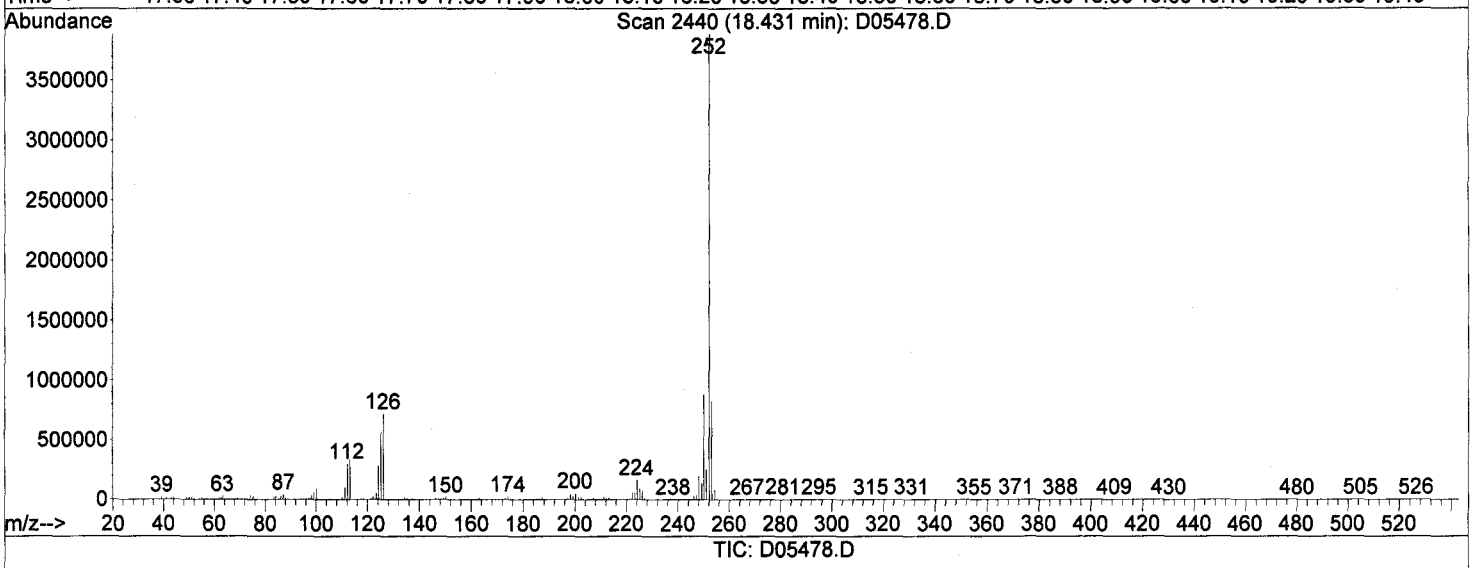
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05478.D
Acq On : 12/13/11 12:17 Operator: SV
Sample : SSTD0808S Inst : D-5973
Misc : SSTD0808S INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 14:07:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:06:21 2011
Response via : Initial Calibration

12/15/11





TIC: D05478.D

(83) Benzo(b)fluoranthene

18.431min (-0.023) 71.9466ug/L m

response 65873253

Ion	Exp%	Act%
252.00	100	100
253.00	23.00	21.02
125.00	12.90	14.40
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05479.D
Acq On : 12/13/11 12:48
Sample : SSTD0408S
Misc : SSTD0408S INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/19/11

Quant Time: Dec 13 14:09:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:08:28 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	4530016	20.0000 ug/L	0.00
16) Naphthalene-d8	8.36	136	20725651	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	12121728	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	22066542	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	20017330	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	17291141	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.11	99	27502015	45.3402 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 113.35%#		
5) Bis(2-chloroethyl)ether-d8	5.10	67	11291666	48.9384 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 122.35%#		
7) 2-Chlorophenol-d4	5.24	132	12839626	40.4602 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 101.15%		
12) 4-Methylphenol-d8	6.60	113	12508784	47.6149 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 119.04%#		
17) Nitrobenzene-d5	6.83	128	6424943	40.1532 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 100.38%		
20) 2-Nitrophenol-d4	7.56	143	6167861	37.3156 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 93.29%		
24) 2,4-Dichlorophenol-d3	8.13	165	11007562	42.2009 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 105.50%#		
27) 4-Chloroaniline-d4	8.65	131	12868336	34.2880 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 85.72%		
41) Acenaphthylene-d8	11.99	160	46165054	38.2910 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 95.73%		
43) Dimethylphthalate-d6	11.95	166	30845739	36.7239 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 91.81%		
49) 4-Nitrophenol-d4	12.74	143	4853886	32.8908 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 82.23%		
56) Fluorene-d10	13.08	176	29444959	37.9490 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 94.87%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	3402473	35.0572 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 87.64%		
68) Anthracene-d10	14.38	188	44687220	31.1036 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 77.76%		
79) Pyrene-d10	15.89	212	48413046	37.9604 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 94.90%		
85) Benzo(a)pyrene-d12	18.87	264	32326528	33.1158 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 82.79%		
Target Compounds					Qvalue
2) Benzaldehyde	4.79	77	8535576	41.4376 ug/L	98
4) Phenol	5.13	94	17026862	44.4766 ug/L	100
6) Bis(2-chloroethyl)ether	5.19	93	12607594	41.6640 ug/L	100
8) 2-Chlorophenol	5.27	128	12663628	40.0453 ug/L	99
9) 2-Methylphenol	6.32	108	12011326	46.7591 ug/L	98
10) 2,2'-Oxybis(1-chloropropan	6.29	45	33987691	54.1520 ug/L #	60
11) Acetophenone	6.52	105	17553684	43.4873 ug/L	100
13) 4-Methylphenol	6.66	108	12484412	47.5954 ug/L	100
14) N-Nitroso-di-n-propylamine	6.59	70	10911362	43.3185 ug/L	99
15) Hexachloroethane	6.62	117	6175299	35.7689 ug/L	99
18) Nitrobenzene	6.87	77	14286001	39.9043 ug/L #	85
19) Isophorone	7.38	82	26540868	38.2440 ug/L	100
21) 2-Nitrophenol	7.59	139	6950578	39.3649 ug/L	99
22) 2,4-Dimethylphenol	7.80	107	13219395	41.3501 ug/L	98

0436

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05479.D
Acq On : 12/13/11 12:48 Operator: SV
Sample : SSTD0408S Inst : D-5973
Misc : SSTD0408S INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 14:09:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:08:28 2011
Response via : Initial Calibration

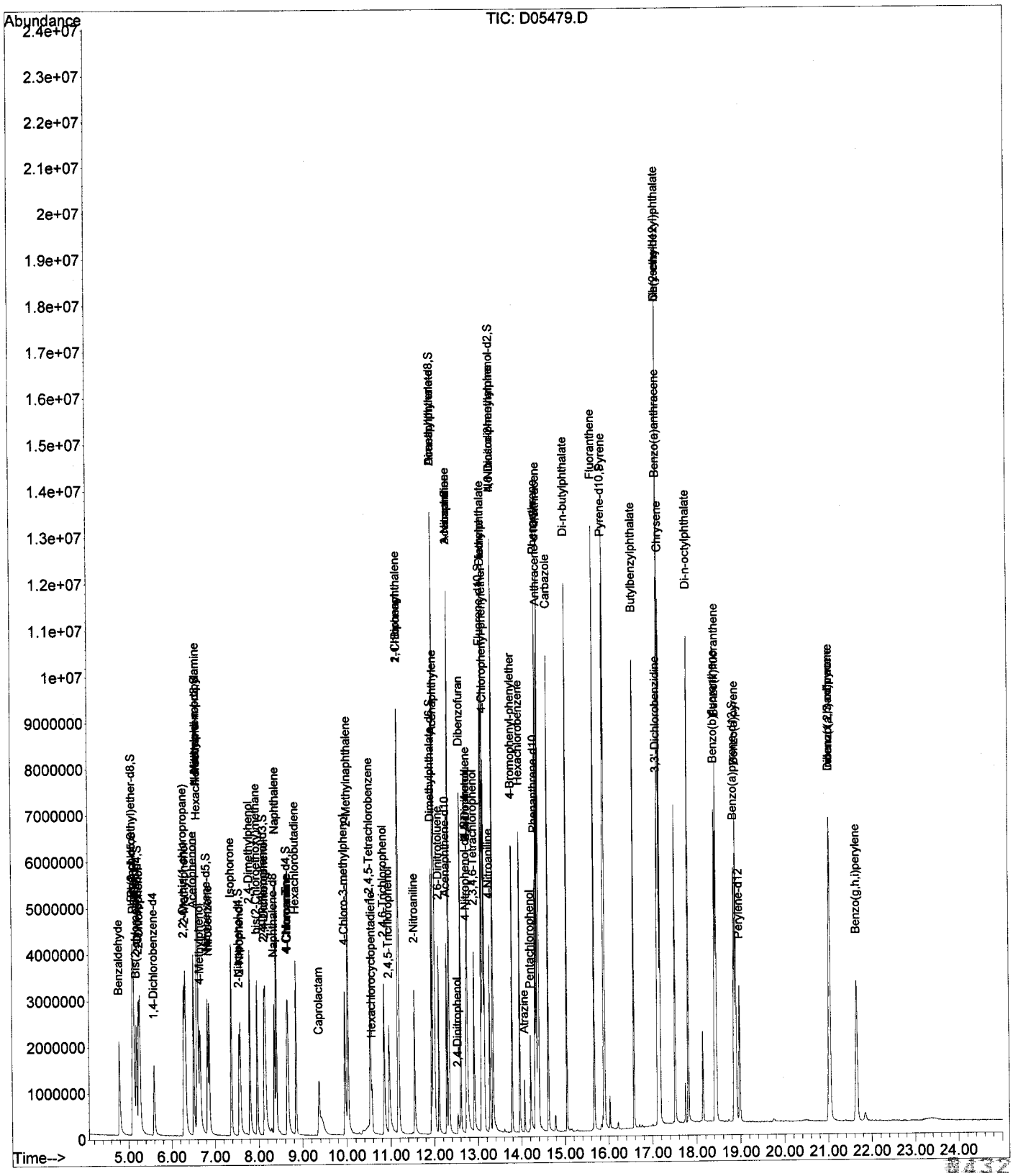
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.97	93	16765664	42.4544	ug/L		99
25) 2,4-Dichlorophenol	8.16	162	10959619	43.4952	ug/L		99
26) Naphthalene	8.40	128	39984439	36.5574	ug/L		100
28) 4-Chloroaniline	8.67	127	11561101	31.2850	ug/L		99
29) Hexachlorobutadiene	8.85	225	6560505	30.1209	ug/L		99
30) Caprolactam	9.37	113	4267949m	42.0911	ug/L		
31) 4-Chloro-3-methylphenol	9.96	107	11232115	49.6616	ug/L		99
32) 2-Methylnaphthalene	10.03	142	28443599	35.4618	ug/L		99
34) Hexachlorocyclopentadiene	10.58	237	1786747	21.5263	ug/L		100
35) 2,4,6-Trichlorophenol	10.85	196	7667220	41.8072	ug/L		99
36) 2,4,5-Trichlorophenol	10.97	196	8392713	33.9985	ug/L		94
37) 2,3,4,6-Tetrachlorophenol	12.92	232	6052681	35.7566	ug/L		99
38) 1,1'-Biphenyl	11.19	154	34317226	38.1881	UG/l		99
39) 2-Chloronaphthalene	11.17	162	26745199	38.6221	ug/L		99
40) 2-Nitroaniline	11.55	65	8381471	43.6482	ug/L		96
42) Acenaphthylene	12.01	152	42075713	36.3792	ug/L		100
44) Dimethylphthalate	11.99	163	31484096	37.3086	ug/L		100
45) 3-Nitroaniline	12.33	138	7232273	38.2567	ug/L		97
46) Acenaphthene	12.34	153	28104541	37.2904	ug/L		100
47) 2,4-Dinitrophenol	12.54	184	1177357	21.9251	ug/L		94
48) Dibenzofuran	12.61	168	36599173	35.0814	ug/L		99
50) 4-Nitrophenol	12.74	109	3439098	41.0344	ug/L		100
51) 2,6-Dinitrotoluene	12.11	165	5822613	36.9035	ug/L	#	99
52) 2,4-Dinitrotoluene	12.76	165	8431247	26.5645	ug/L	#	90
53) 1,2,4,5-Tetrachlorobenzene	10.54	216	11705317	35.6593	ug/L		100
54) Diethylphthalate	13.11	149	31432808	35.3007	ug/L		99
55) 4-Chlorophenyl-phenylether	13.15	204	14011628	34.2315	ug/L		99
57) Fluorene	13.13	166	32369799	35.3934	ug/L		100
58) 4-Nitroaniline	13.28	138	7079754	35.9517	ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	3660113	38.5596	ug/L	#	95
62) N-Nitrosodiphenylamine	13.35	169	25288884	35.8947	ug/L		100
63) 4-Bromophenyl-phenylether	13.79	248	8111438	35.4793	ug/L		99
64) Hexachlorobenzene	13.97	284	8886791	33.4010	ug/L		99
65) Atrazine	14.08	200	1258627	6.8504	ug/L		99
66) Pentachlorophenol	14.21	266	3318327	36.5042	ug/L		96
67) Phenanthrene	14.35	178	44493703	37.8401	ug/L		100
69) Anthracene	14.41	178	47413176	34.5957	ug/L		97
70) Carbazole	14.62	167	43470144	37.6131	ug/L		100
71) Di-n-butylphthalate	15.05	149	57285915	39.8988	ug/L		96
72) Fluoranthene	15.68	202	52406801	36.7692	ug/L		97
74) Butylbenzylphthalate	16.58	149	24349168	37.7281	ug/L		99
75) bis(2-ethylhexyl)phthalate	17.16	149	33719365	38.9338	ug/L		100
76) 3,3'-Dichlorobenzidine	17.12	252	13897433	34.1990	ug/L		99
77) Benzo(a)anthracene	17.14	228	43037518	34.7299	ug/L		99
78) Chrysene	17.18	228	40005656	33.4566	ug/L		100
80) Pyrene	15.91	202	52124377	37.9314	ug/L		98
82) Di-n-octylphthalate	17.82	149	56594447	40.3047	ug/L		100
83) Benzo(b)fluoranthene	18.42	252	38387908	36.6002	ug/L		98
84) Benzo(k)fluoranthene	18.46	252	40172868	32.8838	ug/L		100
86) Benzo(a)pyrene	18.90	252	37438225	35.3430	ug/L		100
87) Dibenzo(a,h)anthracene	21.05	278	31837550	36.1725	ug/L		99
88) Indeno(1,2,3-cd)pyrene	21.04	276	38183428	35.4710	ug/L	#	99
89) Benzo(g,h,i)perylene	21.66	276	31498764	34.9341	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0431

Data File: C:\MSDCHEM\1\DATA\D05479.D
Acq On : 12/13/11 12:48 Operator: SV
Sample : SSTD0408S Inst : D-5973
Misc : SSTD0408S INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 14:09:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:08:28 2011
Response via : Initial Calibration



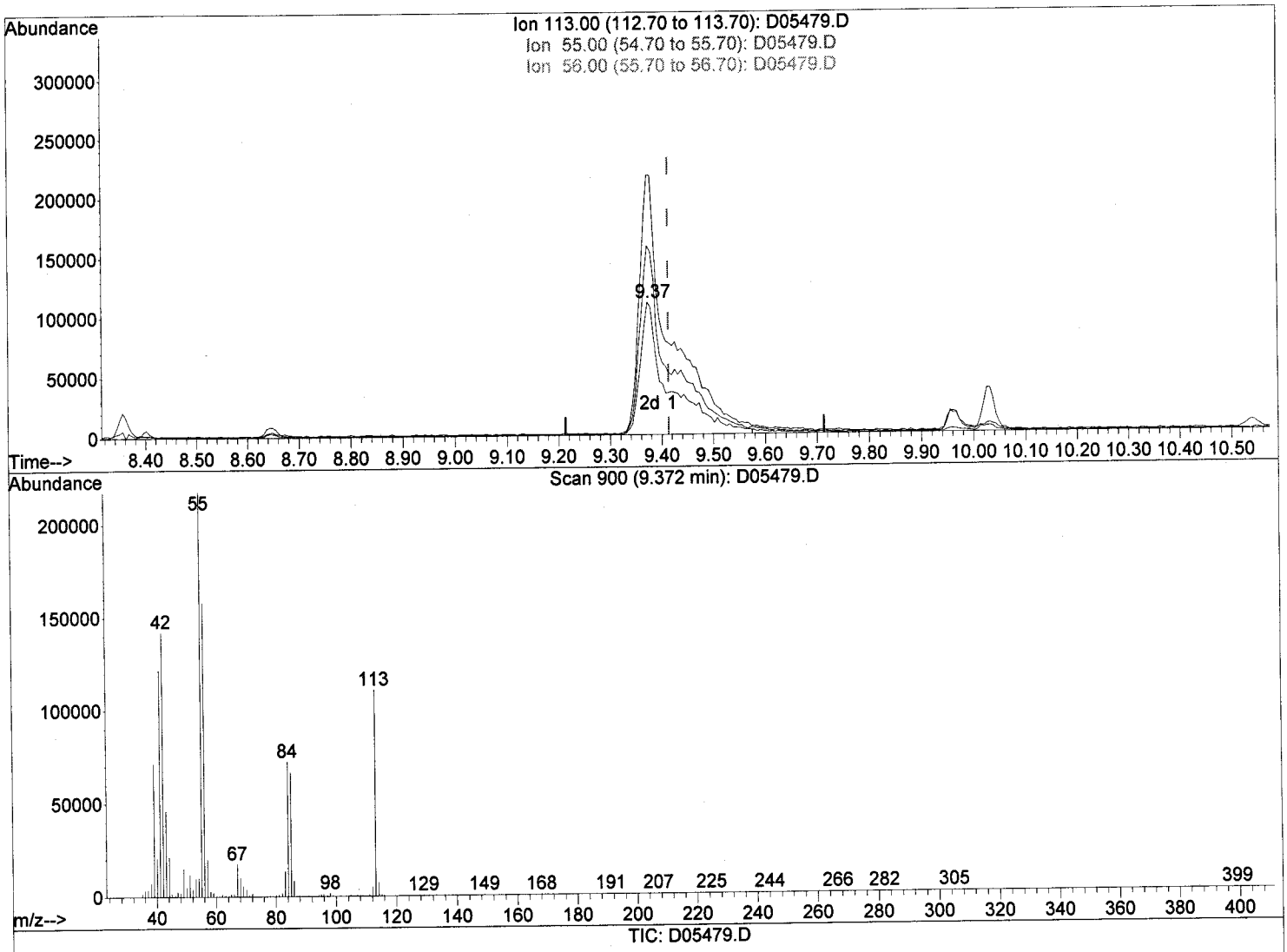
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05479.D
Acq On : 12/13/11 12:48
Sample : SSTD0408S
Misc : SSTD0408S INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 13 14:09:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 13 14:08:28 2011
Response via : Initial Calibration

12/Dec/11



(30) Caprolactam

9.372min (-0.041) 42.0911ug/L m

response 4267949

Ion	Exp%	Act%
113.00	100	100
55.00	119.90	0.00#
56.00	82.10	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05480.D
Acq On : 12/13/11 16:12
Sample : SSTD0208S
Misc : SSTD0208S INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG FGXP0
Episode S-44460 Init/date 12/19/11

Quant Time: Dec 14 11:16:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 09:46:14 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.60	152	3229829	20.0000 ug/L	0.00
16) Naphthalene-d8	8.36	136	14643319	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	9045894	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	15650272	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	14809238	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	12750452	20.0000 ug/L	-0.01
System Monitoring Compounds					
3) Phenol-d5	5.11	99	9624748	20.3974 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 50.99%		
5) Bis(2-chloroethyl)ether-d8	5.10	67	3921550	20.2994 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 50.75%		
7) 2-Chlorophenol-d4	5.24	132	4655931	20.8300 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 52.07%		
12) 4-Methylphenol-d8	6.60	113	4295747	21.0863 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 52.72%		
17) Nitrobenzene-d5	6.84	128	2209517	20.2293 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 50.57%		
20) 2-Nitrophenol-d4	7.56	143	2281547	21.9312 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 54.83%		
24) 2,4-Dichlorophenol-d3	8.14	165	3807365	20.2144 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 50.54%		
27) 4-Chloroaniline-d4	8.65	131	4541868	21.6335 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 54.08%		
41) Acenaphthylene-d8	11.99	160	16643214	19.8425 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 49.61%		
43) Dimethylphthalate-d6	11.94	166	11308580	19.9558 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 49.89%		
49) 4-Nitrophenol-d4	12.74	143	1422294	17.7572 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 44.39%		
56) Fluorene-d10	13.08	176	10882690	20.1061 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 50.27%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	919157	18.4317 ug/L	-0.01
Spiked Amount 40.000	Range 22 - 104		Recovery = 46.08%		
68) Anthracene-d10	14.38	188	16670706	19.8576 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 49.64%		
79) Pyrene-d10	15.89	212	15759284	18.4562 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 46.14%#		
85) Benzo(a)pyrene-d12	18.85	264	11480220	19.2996 ug/L	-0.02
Spiked Amount 40.000	Range 32 - 121		Recovery = 48.25%		
Target Compounds					Qvalue
2) Benzaldehyde	4.80	77	3279184	22.5742 ug/L	98
4) Phenol	5.13	94	6006508	21.1181 ug/L	98
6) Bis(2-chloroethyl)ether	5.19	93	4742739	21.3790 ug/L	95
8) 2-Chlorophenol	5.27	128	4629254	21.1753 ug/L	97
9) 2-Methylphenol	6.33	108	4290068	21.1747 ug/L	100
10) 2,2'-Oxybis(1-chloropropan	6.29	45	12067602	20.3836 ug/L #	65
11) Acetophenone	6.52	105	6292940	20.9068 ug/L	97
13) 4-Methylphenol	6.67	108	4446629	21.2653 ug/L	97
14) N-Nitroso-di-n-propylamine	6.59	70	3929489	21.1033 ug/L	97
15) Hexachloroethane	6.62	117	2230552	20.4898 ug/L	98
18) Nitrobenzene	6.87	77	5588697	21.4899 ug/L #	89
19) Isophorone	7.38	82	9662268	20.2856 ug/L	99
21) 2-Nitrophenol	7.59	139	2510873	21.7536 ug/L	99
22) 2,4-Dimethylphenol	7.81	107	4271329	19.8633 ug/L	99

B434

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05480.D
Acq On : 12/13/11 16:12 Operator: SV
Sample : SSTD0208S Inst : D-5973
Misc : SSTD0208S INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 11:16:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 09:46:14 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.97	93	5967843	20.6493	ug/L		100
25) 2,4-Dichlorophenol	8.16	162	3724210	20.1367	ug/L		96
26) Naphthalene	8.40	128	14645167	20.4261	ug/L		100
28) 4-Chloroaniline	8.68	127	4185070	22.3082	ug/L		97
29) Hexachlorobutadiene	8.86	225	2393122	20.0323	ug/L		98
30) Caprolactam	9.35	113	1433266	20.1894	ug/L	#	21
31) 4-Chloro-3-methylphenol	9.96	107	4186699	22.2024	ug/L		87
32) 2-Methylnaphthalene	10.03	142	10784473	20.4390	ug/L		98
34) Hexachlorocyclopentadiene	10.58	237	467784	15.4643	ug/L		97
35) 2,4,6-Trichlorophenol	10.86	196	2731415	20.8379	ug/L		98
36) 2,4,5-Trichlorophenol	10.98	196	3124477	20.5214	ug/L		97
37) 2,3,4,6-Tetrachlorophenol	12.92	232	1956124	19.9894	ug/L		99
38) 1,1'-Biphenyl	11.19	154	12654627	20.0544	UG/l		99
39) 2-Chloronaphthalene	11.17	162	9860585	20.0171	ug/L		99
40) 2-Nitroaniline	11.55	65	2995098	19.9766	ug/L		99
42) Acenaphthylene	12.01	152	15538487	19.9826	ug/L		98
44) Dimethylphthalate	11.98	163	11434242	19.9600	ug/L		99
45) 3-Nitroaniline	12.33	138	2509409	19.3654	ug/L		96
46) Acenaphthene	12.34	153	10427957	19.8349	ug/L		99
47) 2,4-Dinitrophenol	12.55	184	381909	19.7494	ug/L	#	69
48) Dibenzofuran	12.61	168	13835108	20.3047	ug/L		100
50) 4-Nitrophenol	12.75	109	976294	18.8051	ug/L		97
51) 2,6-Dinitrotoluene	12.11	165	2169155	20.9673	ug/L	#	97
52) 2,4-Dinitrotoluene	12.76	165	2896501	14.8526	ug/L	#	90
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	4226122	19.7885	ug/L		96
54) Diethylphthalate	13.11	149	11646224	19.8088	ug/L		99
55) 4-Chlorophenyl-phenylether	13.15	204	5427430	20.4508	ug/L		99
57) Fluorene	13.12	166	11863370	19.9066	ug/L		100
58) 4-Nitroaniline	13.27	138	2532683	19.9967	ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	935346	17.8099	ug/L	#	62
62) N-Nitrosodiphenylamine	13.34	169	9494099	20.6538	ug/L		100
63) 4-Bromophenyl-phenylether	13.79	248	3034543	20.5915	ug/L		99
64) Hexachlorobenzene	13.97	284	3290319	20.5789	ug/L		99
65) Atrazine	14.08	200	451947	20.3990	ug/L		97
66) Pentachlorophenol	14.21	266	810291m	15.6422	ug/L		
67) Phenanthrene	14.35	178	16296619	20.4881	ug/L		99
69) Anthracene	14.40	178	17342030	20.4300	ug/L		97
70) Carbazole	14.62	167	14732663	19.7774	ug/L		99
71) Di-n-butylphthalate	15.05	149	18786701	20.0947	ug/L		96
72) Fluoranthene	15.67	202	17109305	19.7037	ug/L		96
74) Butylbenzylphthalate	16.58	149	8567344	19.1249	ug/L		99
75) bis(2-ethylhexyl)phthalate	17.16	149	11664262	19.0174	ug/L		99
76) 3,3'-Dichlorobenzidine	17.12	252	4995252	19.3914	ug/L		99
77) Benzo(a)anthracene	17.14	228	15804684	19.2492	ug/L		99
78) Chrysene	17.18	228	15165458	19.0671	ug/L		100
80) Pyrene	15.91	202	17393878	18.8907	ug/L		97
82) Di-n-octylphthalate	17.81	149	18558227	18.5785	ug/L		100
83) Benzo(b)fluoranthene	18.41	252	13661571m	17.5843	ug/L		
84) Benzo(k)fluoranthene	18.44	252	14545924	19.1288	ug/L		99
86) Benzo(a)pyrene	18.89	252	13244375	19.2701	ug/L		99
87) Dibenzo(a,h)anthracene	21.02	278	11666586	19.6258	ug/L		99
88) Indeno(1,2,3-cd)pyrene	21.01	276	14075828	19.5387	ug/L		96
89) Benzo(g,h,i)perylene	21.63	276	11760943	19.4435	ug/L		98

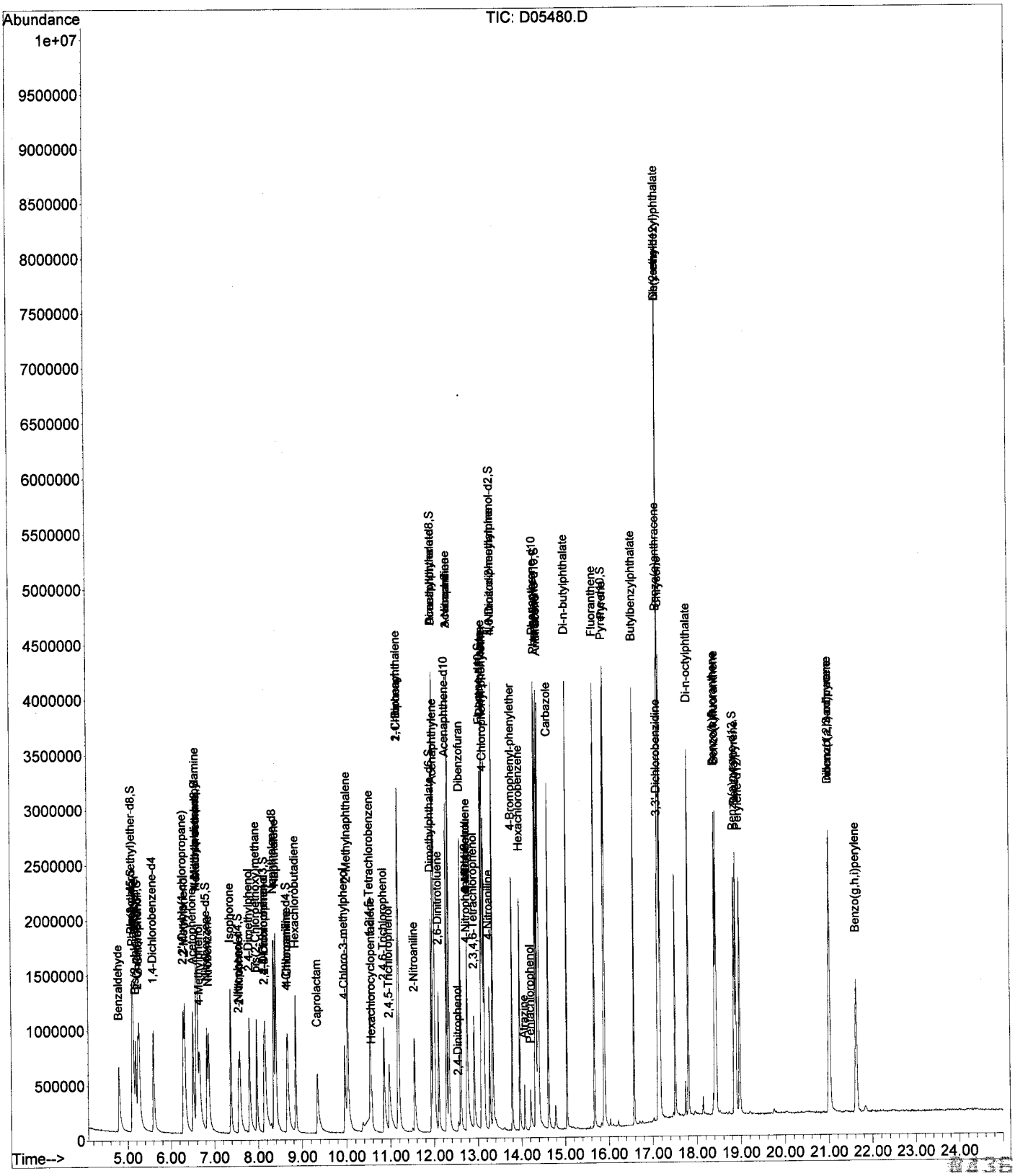
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0435

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05480.D
Acq On : 12/13/11 16:12 Operator: SV
Sample : SSTD0208S Inst : D-5973
Misc : SSTD0208S INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 11:16:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 09:46:14 2011
Response via : Initial Calibration



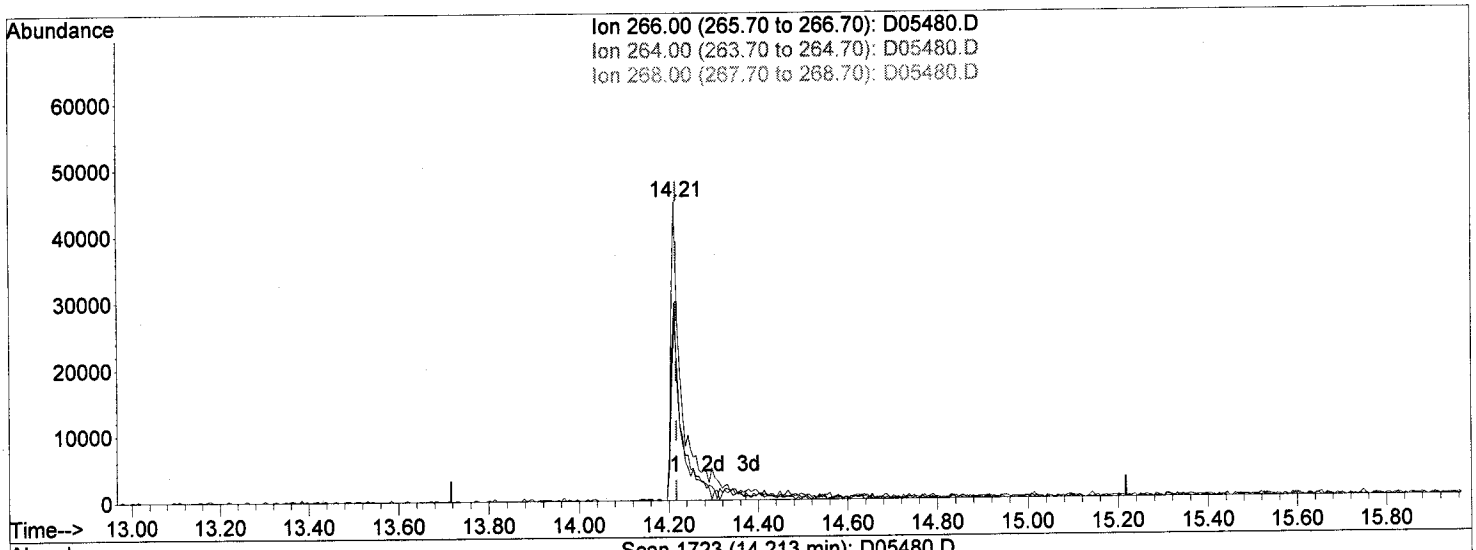
Quantitation Report (Qedit)

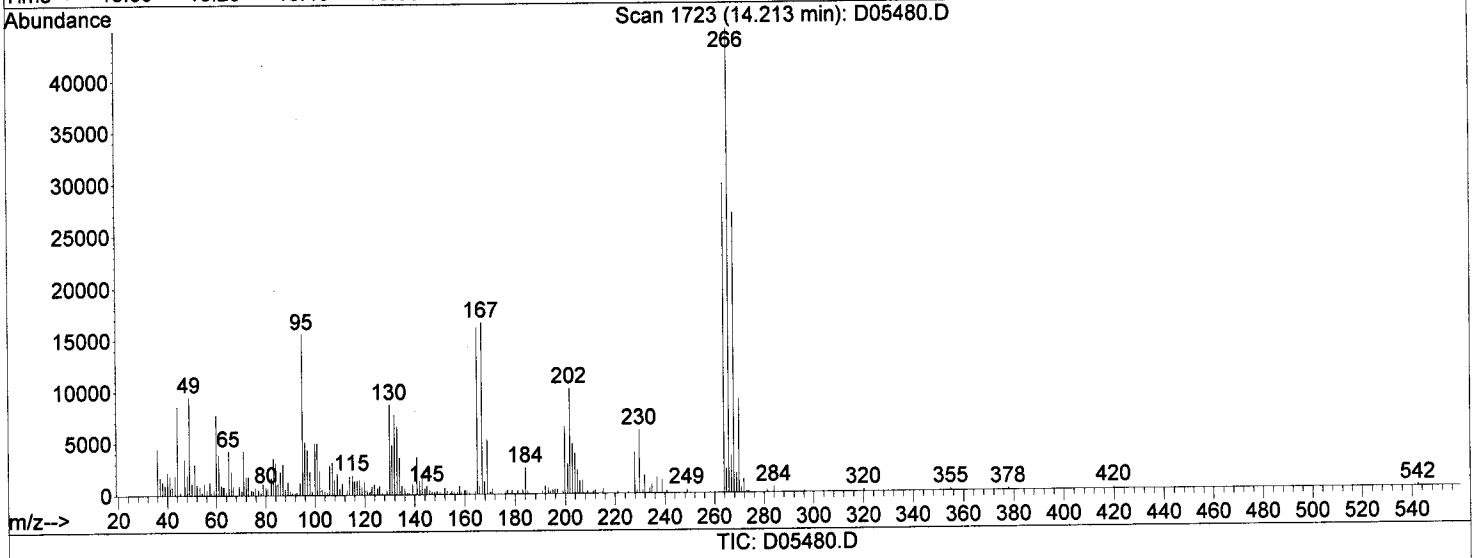
Data File: C:\MSDCHEM\1\DATA\D05480.D
Acq On : 12/13/11 16:12
Sample : SSTD0208S
Misc : SSTD0208S INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:16:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 09:46:14 2011
Response via : Initial Calibration

12/15/11





TIC: D05480.D

(66) Pentachlorophenol

14.213min (-0.004) 15.6422ug/L m

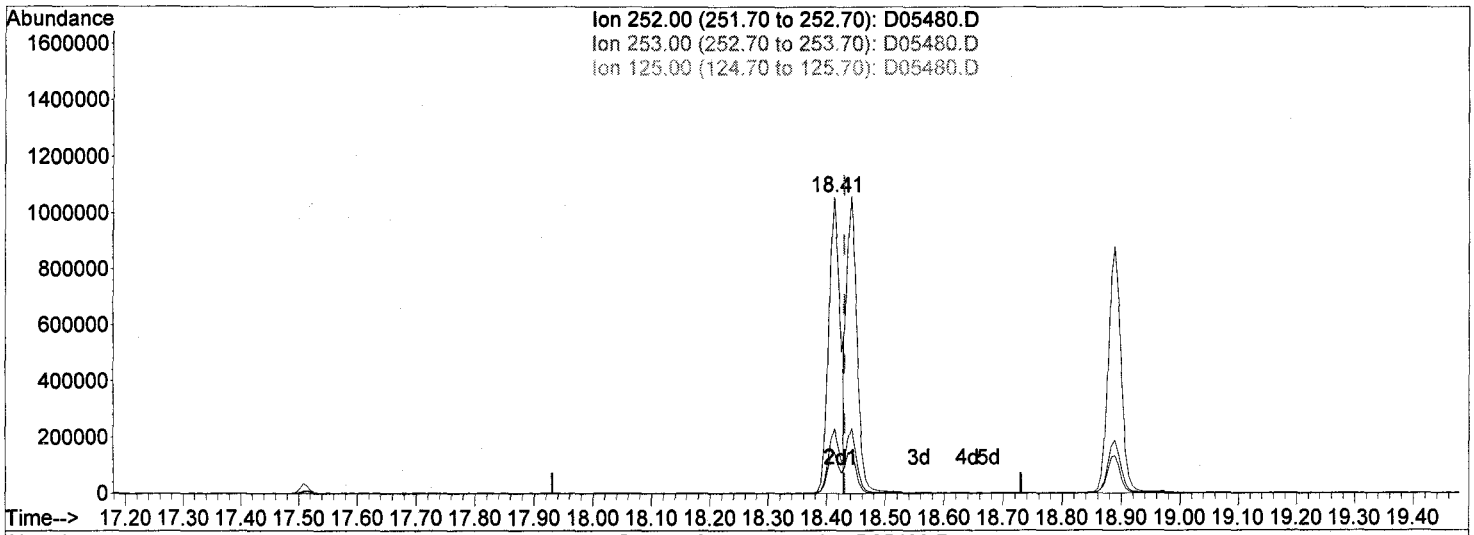
response 810291

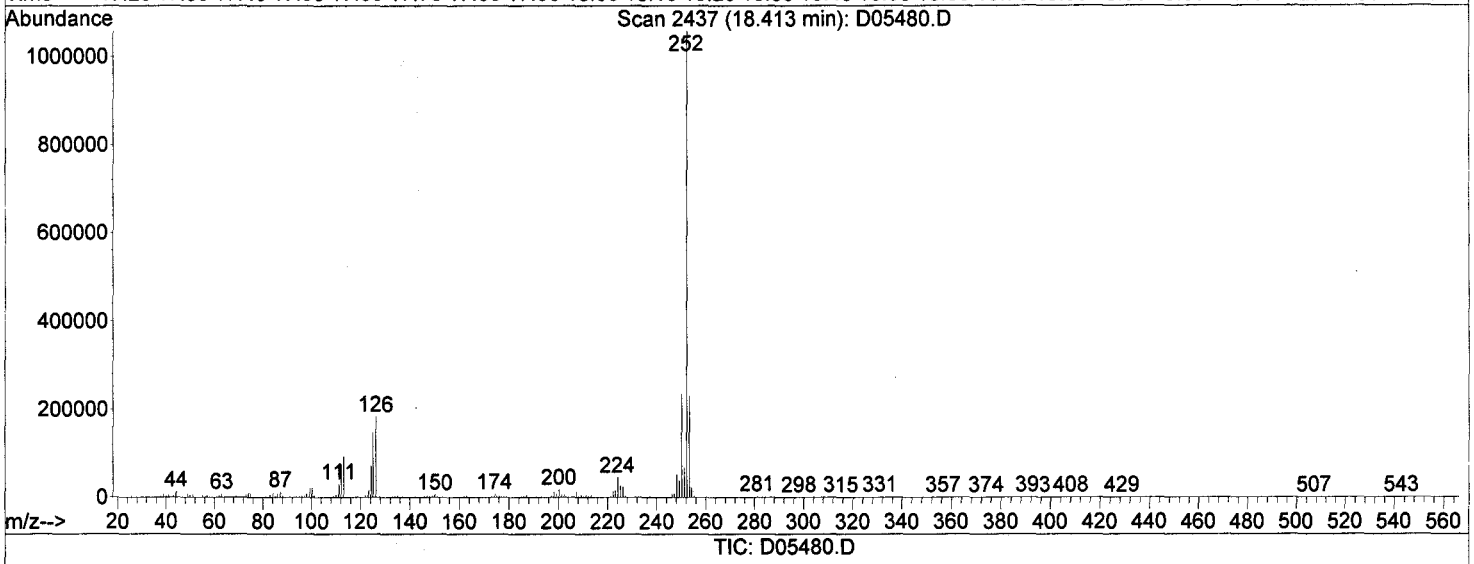
Ion	Exp%	Act%
266.00	100	100
264.00	62.80	55.75
268.00	61.20	57.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05480.D
Acq On : 12/13/11 16:12 Operator: SV
Sample : SSTD0208S Inst : D-5973
Misc : SSTD0208S INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 11:16:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 09:46:14 2011
Response via : Initial Calibration





TIC: D05480.D

(83) Benzo(b)fluoranthene

18.413min (-0.018) 17.5843ug/L m

response 13661571

Ion	Exp%	Act%
252.00	100	100
253.00	21.00	22.37
125.00	14.40	15.39
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42 Operator: SV
Sample : SSTD0108S Inst : D-5973
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/19/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2723950	20.0000 ug/L	0.00
16) Naphthalene-d8	8.36	136	12238972	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7546755	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	13451101	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	12380264	20.0000 ug/L	0.00
81) Perylene-d12	18.97	264	10501705	20.0000 ug/L	-0.02
System Monitoring Compounds					
3) Phenol-d5	5.12	99	3840611	9.6509 ug/L	0.01
Spiked Amount 40.000	Range 39 - 106		Recovery = 24.13%#		
5) Bis(2-chloroethyl)ether-d8	5.11	67	1569408	9.6325 ug/L	0.02
Spiked Amount 40.000	Range 40 - 105		Recovery = 24.08%#		
7) 2-Chlorophenol-d4	5.25	132	1800285	9.5500 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 23.88%#		
12) 4-Methylphenol-d8	6.61	113	1580733	9.2003 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 23.00%#		
17) Nitrobenzene-d5	6.85	128	894160	9.7948 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 24.49%#		
20) 2-Nitrophenol-d4	7.57	143	805899	9.2685 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 23.17%#		
24) 2,4-Dichlorophenol-d3	8.14	165	1513254m	9.6127 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 24.03%#		
27) 4-Chloroaniline-d4	8.66	131	1645339	9.3766 ug/L	0.01
Spiked Amount 40.000	Range 1 - 145		Recovery = 23.44%		
41) Acenaphthylene-d8	11.99	160	6769271	9.6737 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 24.18%#		
43) Dimethylphthalate-d6	11.94	166	4629074	9.7915 ug/L	-0.01
Spiked Amount 40.000	Range 47 - 114		Recovery = 24.48%#		
49) 4-Nitrophenol-d4	12.75	143	563892	8.4386 ug/L	0.01
Spiked Amount 40.000	Range 33 - 116		Recovery = 21.10%#		
56) Fluorene-d10	13.08	176	4431145	9.8129 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 24.53%#		
60) 4,6-Dinitro-2-methylphenol	13.34	200	236094	5.5084 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 13.77%#		
68) Anthracene-d10	14.38	188	7351758	10.1889 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 25.47%#		
79) Pyrene-d10	15.89	212	6942606	9.7260 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 24.32%#		
85) Benzo(a)pyrene-d12	18.85	264	4828811	9.8561 ug/L	-0.03
Spiked Amount 40.000	Range 32 - 121		Recovery = 24.64%#		
Target Compounds					Qvalue
2) Benzaldehyde	4.81	77	1193369	9.7410 ug/L	91
4) Phenol	5.15	94	2289094	9.5428 ug/L	94
6) Bis(2-chloroethyl)ether	5.20	93	1902129	10.1667 ug/L	92
8) 2-Chlorophenol	5.28	128	1741375	9.4448 ug/L	99
9) 2-Methylphenol	6.33	108	1646799	9.6377 ug/L	99
10) 2,2'-Oxybis(1-chloropropan	6.30	45	4823871	9.6613 ug/L #	66
11) Acetophenone	6.53	105	2406772	9.4809 ug/L	96
13) 4-Methylphenol	6.68	108	1699086	9.6347 ug/L	90
14) N-Nitroso-di-n-propylamine	6.59	70	1492592	9.5046 ug/L	98
15) Hexachloroethane	6.62	117	891325	9.7082 ug/L	99
18) Nitrobenzene	6.88	77	2018705	9.2873 ug/L #	89
19) Isophorone	7.38	82	3938861	9.8941 ug/L	97
21) 2-Nitrophenol	7.60	139	909090	9.4234 ug/L	97
22) 2,4-Dimethylphenol	7.81	107	1659935	9.2358 ug/L	98

0439

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42
Sample : SSTD0108S
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

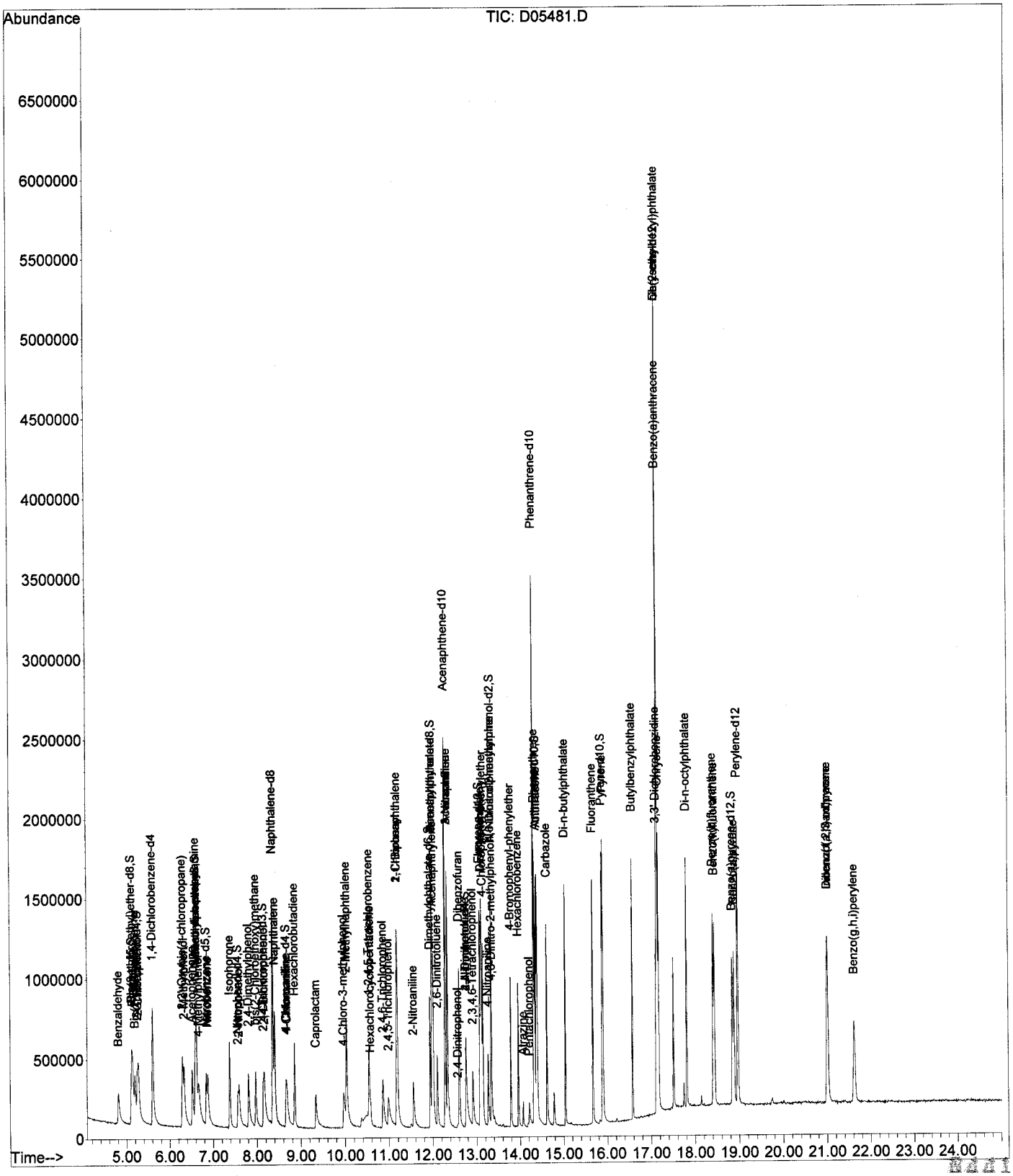
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.97	93	2383952	9.8691 ug/L		97
25) 2,4-Dichlorophenol	8.17	162	1493627	9.6625 ug/L	#	94
26) Naphthalene	8.41	128	5938136	9.9091 ug/L		98
28) 4-Chloroaniline	8.68	127	1418399	9.0460 ug/L		99
29) Hexachlorobutadiene	8.86	225	1006632	10.0817 ug/L		97
30) Caprolactam	9.34	113	535969m	9.0330 ug/L		
31) 4-Chloro-3-methylphenol	9.97	107	1342607	8.5187 ug/L		86
32) 2-Methylnaphthalene	10.04	142	4437644	10.0625 ug/L		95
34) Hexachlorocyclopentadiene	10.58	237	160233	6.3493 ug/L		95
35) 2,4,6-Trichlorophenol	10.86	196	1014593	9.2779 ug/L		99
36) 2,4,5-Trichlorophenol	10.98	196	1192828m	9.3907 ug/L		
37) 2,3,4,6-Tetrachlorophenol	12.92	232	773016	9.4686 ug/L		96
38) 1,1'-Biphenyl	11.19	154	5094560	9.6774 UG/l		99
39) 2-Chloronaphthalene	11.18	162	4032184	9.8114 ug/L		98
40) 2-Nitroaniline	11.56	65	1185295	9.4761 ug/L		92
42) Acenaphthylene	12.01	152	6310622	9.7276 ug/L		99
44) Dimethylphthalate	11.98	163	4556456	9.5339 ug/L		99
45) 3-Nitroaniline	12.34	138	978370	9.0500 ug/L	#	98
46) Acenaphthene	12.34	153	4316314	9.8409 ug/L		99
47) 2,4-Dinitrophenol	12.57	184	122306m	7.5811 ug/L		
48) Dibenzofuran	12.61	168	5702551	10.0317 ug/L		99
50) 4-Nitrophenol	12.77	109	280054	6.4659 ug/L	#	73
51) 2,6-Dinitrotoluene	12.11	165	840971	9.7437 ug/L	#	94
52) 2,4-Dinitrotoluene	12.76	165	1044002m	6.4168 ug/L		
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	1831609	10.2800 ug/L		93
54) Diethylphthalate	13.11	149	4923325	10.0374 ug/L		98
55) 4-Chlorophenyl-phenylether	13.15	204	2170845	9.8047 ug/L		97
57) Fluorene	13.12	166	4829368	9.7134 ug/L		97
58) 4-Nitroaniline	13.27	138	1033369	9.7797 ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	238888	5.2923 ug/L	#	1
62) N-Nitrosodiphenylamine	13.34	169	3937986	9.9675 ug/L		99
63) 4-Bromophenyl-phenylether	13.79	248	1251110	9.8777 ug/L		97
64) Hexachlorobenzene	13.97	284	1356161	9.8687 ug/L		98
65) Atrazine	14.07	200	180878	9.4989 ug/L		93
66) Pentachlorophenol	14.21	266	414426m	9.0810 ug/L		
67) Phenanthrene	14.35	178	6740123	9.8591 ug/L		99
69) Anthracene	14.40	178	7400963	10.1443 ug/L		97
70) Carbazole	14.62	167	6328231	9.8840 ug/L		99
71) Di-n-butylphthalate	15.04	149	8313966	10.3467 ug/L		96
72) Fluoranthene	15.67	202	7418555	9.9403 ug/L		98
74) Butylbenzylphthalate	16.58	149	3642283	9.7259 ug/L		99
75) bis(2-ethylhexyl)phthalate	17.15	149	5071020	9.8899 ug/L		99
76) 3,3'-Dichlorobenzidine	17.12	252	2317507	10.7616 ug/L		99
77) Benzo(a)anthracene	17.13	228	6929389	10.0954 ug/L		100
78) Chrysene	17.18	228	6786460	10.2065 ug/L		99
80) Pyrene	15.91	202	7621657	9.9015 ug/L		97
82) Di-n-octylphthalate	17.81	149	7939307	9.6499 ug/L		100
83) Benzo(b)fluoranthene	18.41	252	6590349m	10.2989 ug/L		
84) Benzo(k)fluoranthene	18.44	252	6364072	10.1613 ug/L		98
86) Benzo(a)pyrene	18.89	252	5615610	9.9201 ug/L		99
87) Dibenzo(a,h)anthracene	21.01	278	5011788	10.2363 ug/L		98
88) Indeno(1,2,3-cd)pyrene	21.01	276	6044090	10.1863 ug/L	#	96
89) Benzo(g,h,i)perylene	21.62	276	5153329	10.3439 ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42 Operator: SV
Sample : SSTD0108S Inst : D-5973
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

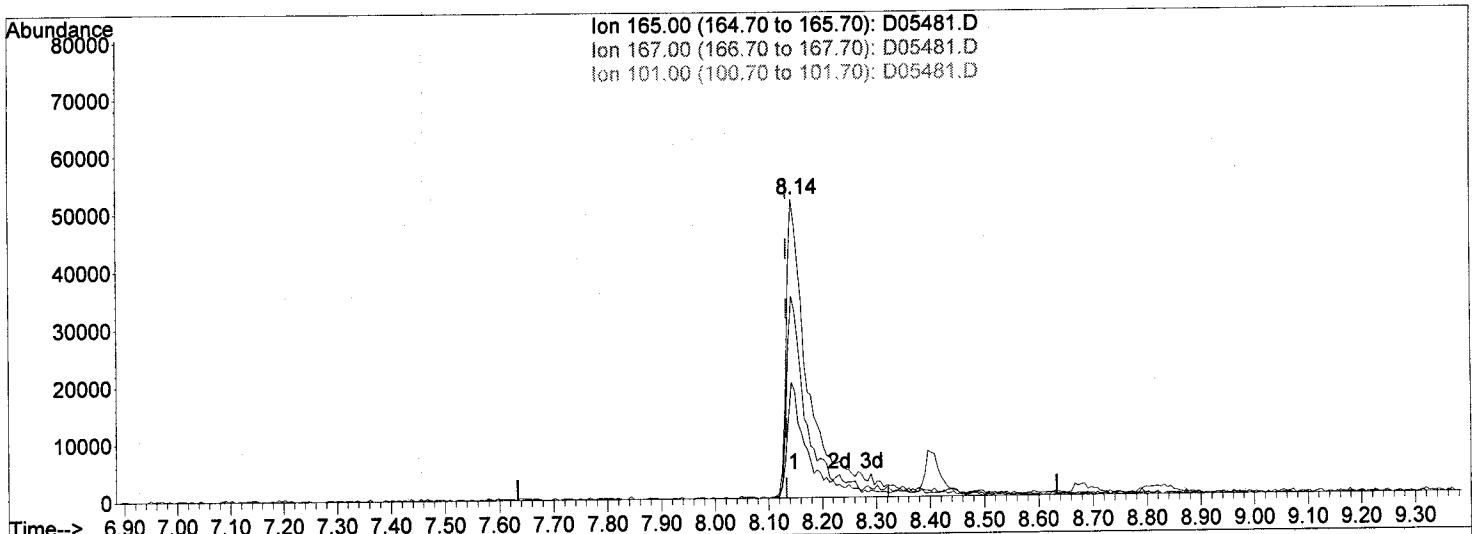


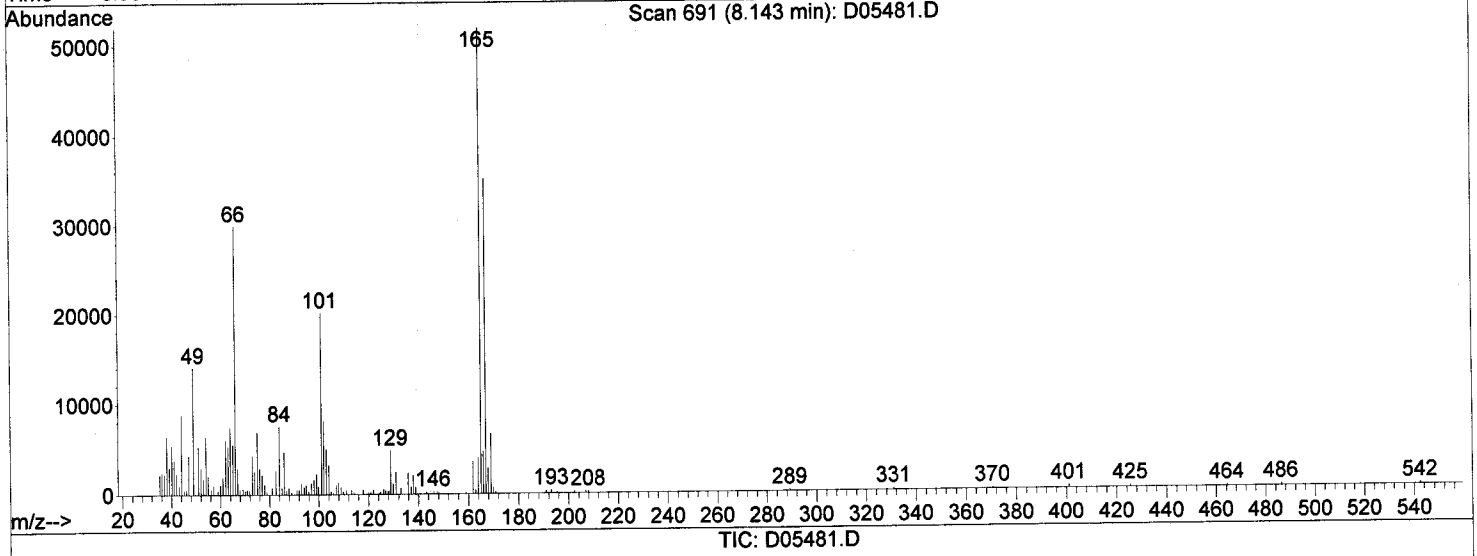
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42 Operator: SV
Sample : SSTD0108S Inst : D-5973
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

12/14/11





TIC: D05481.D

(24) 2,4-Dichlorophenol-d3 (S)

8.143min (+0.009) 9.6127ug/L m

response 1513254

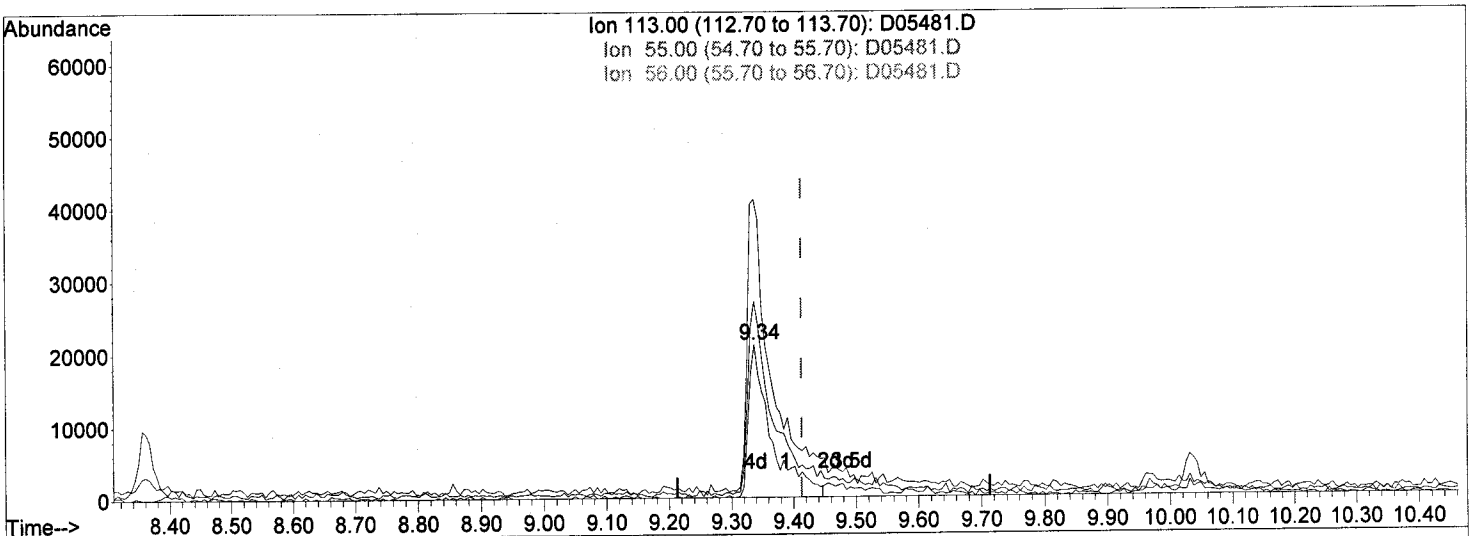
Ion	Exp%	Act%
165.00	100	100
167.00	61.40	53.92
101.00	36.10	36.09
0.00	0.00	0.00

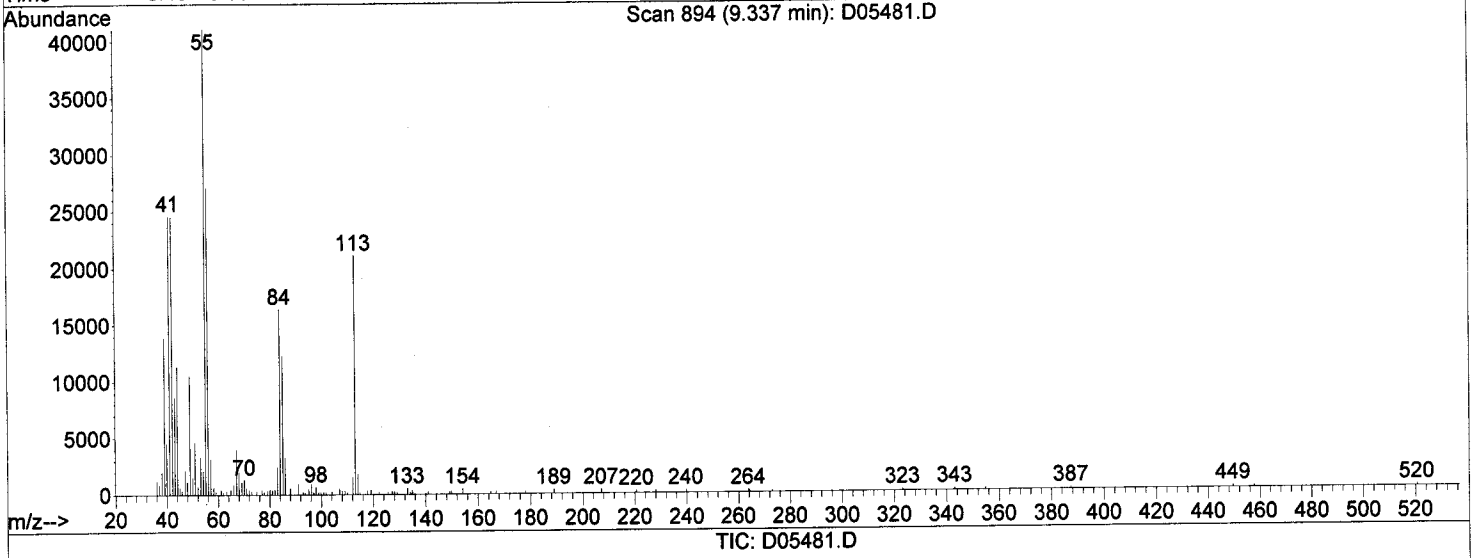
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42 Operator: SV
Sample : SSTD0108S Inst : D-5973
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

12/15/11





TIC: D05481.D

(30) Caprolactam

9.337min (-0.076) 9.0330ug/L m

response 535969

Ion	Exp%	Act%
113.00	100	100
55.00	119.90	0.00#
56.00	82.10	0.00#
0.00	0.00	0.00

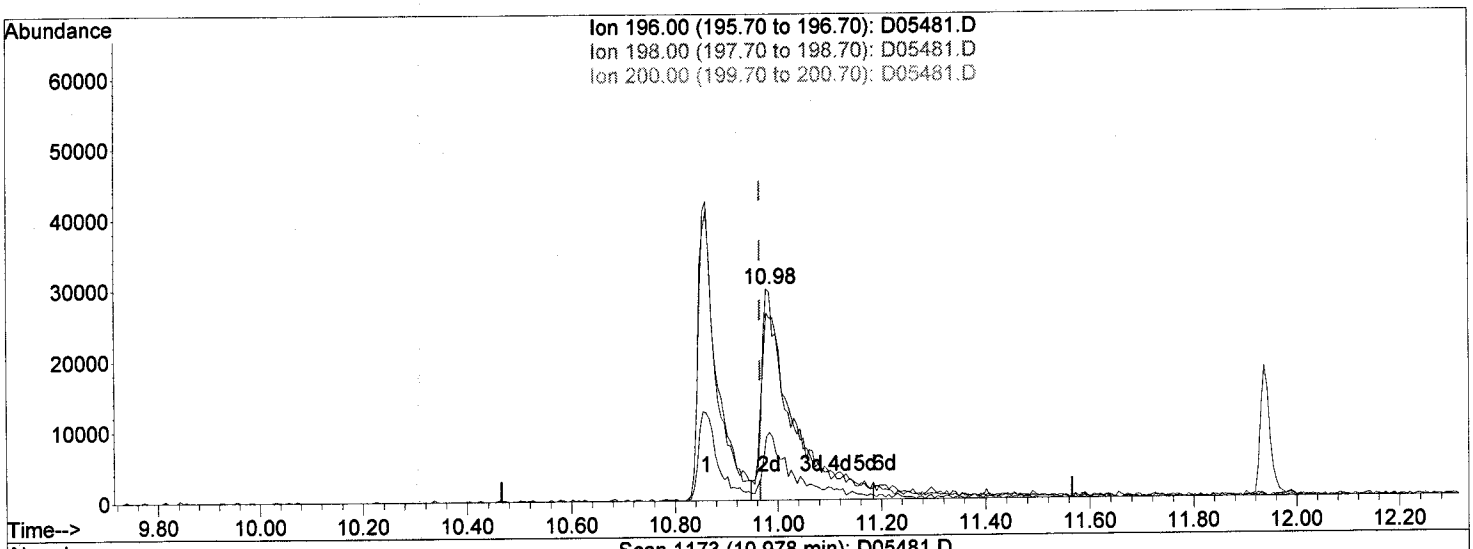
Quantitation Report (Qedit)

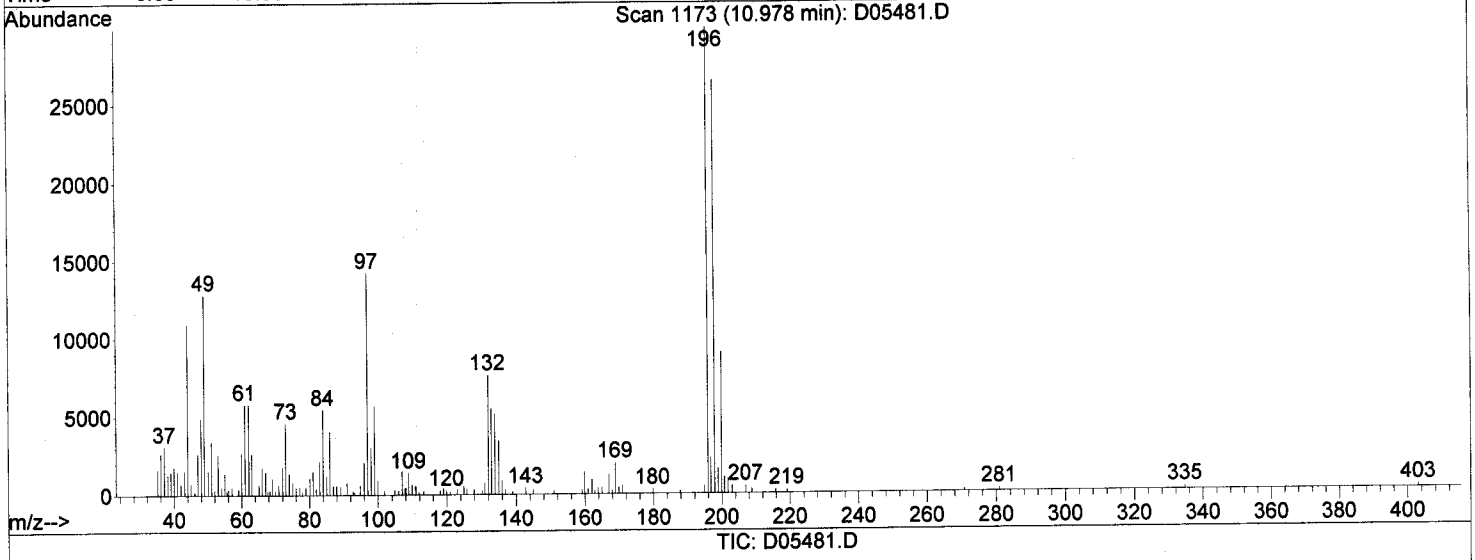
Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42
Sample : SSTD0108S
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

12/15/11





TIC: D05481.D

(36) 2,4,5-Trichlorophenol

10.978min (+0.012) 9.3907ug/L m

response 1192828

Ion	Exp%	Act%
196.00	100	100
198.00	92.10	85.34
200.00	29.20	28.60
0.00	0.00	0.00

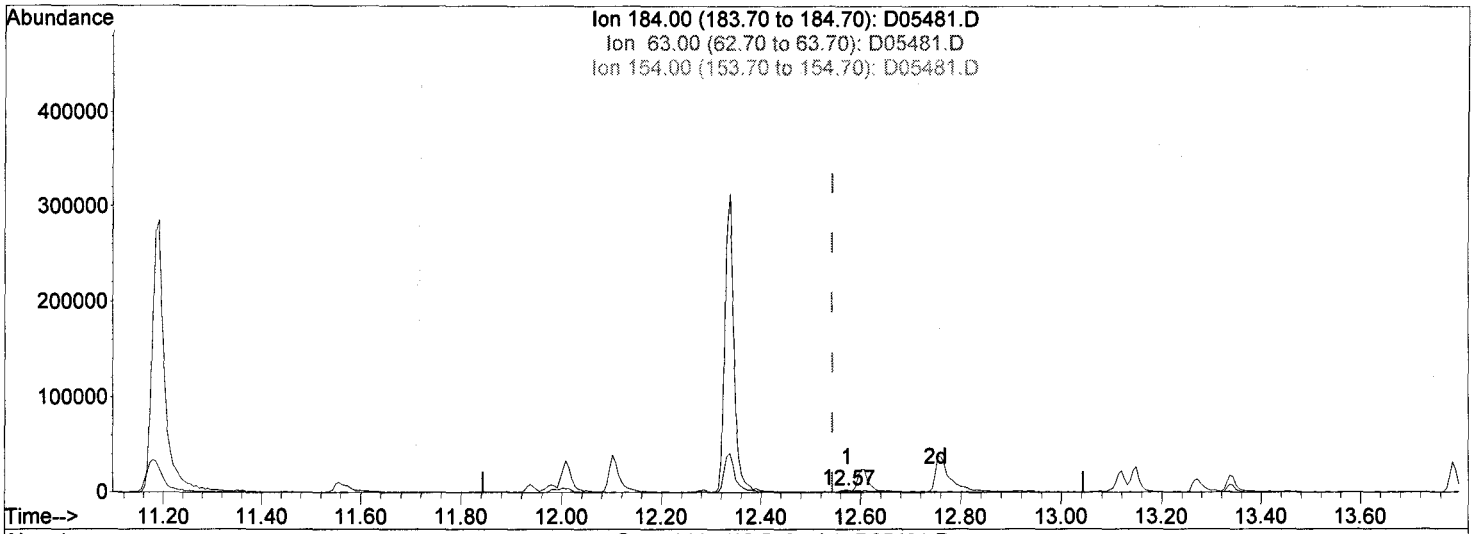
Quantitation Report (Qedit)

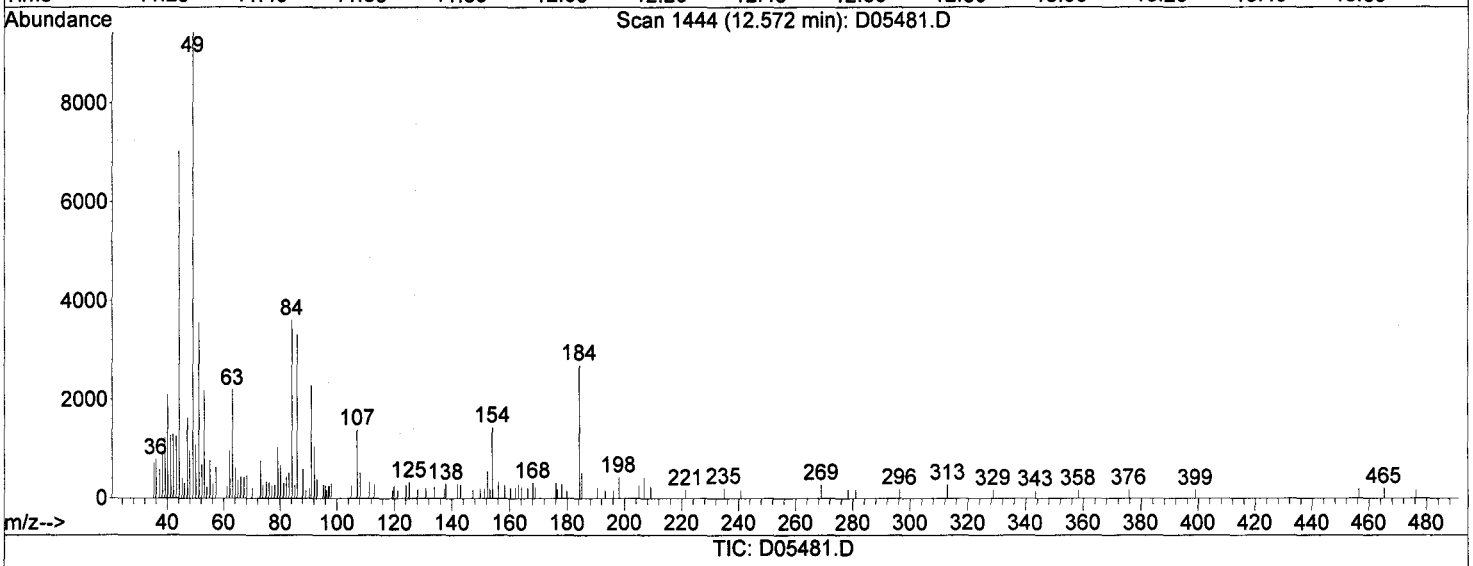
Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42
Sample : SSTD0108S
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

12/15/11





TIC: D05481.D

(47) 2,4-Dinitrophenol

12.572min (+0.029) 7.5811ug/L m

response 122306

Ion	Exp%	Act%
184.00	100	100
63.00	62.00	21.17#
154.00	52.60	33.49#
0.00	0.00	0.00

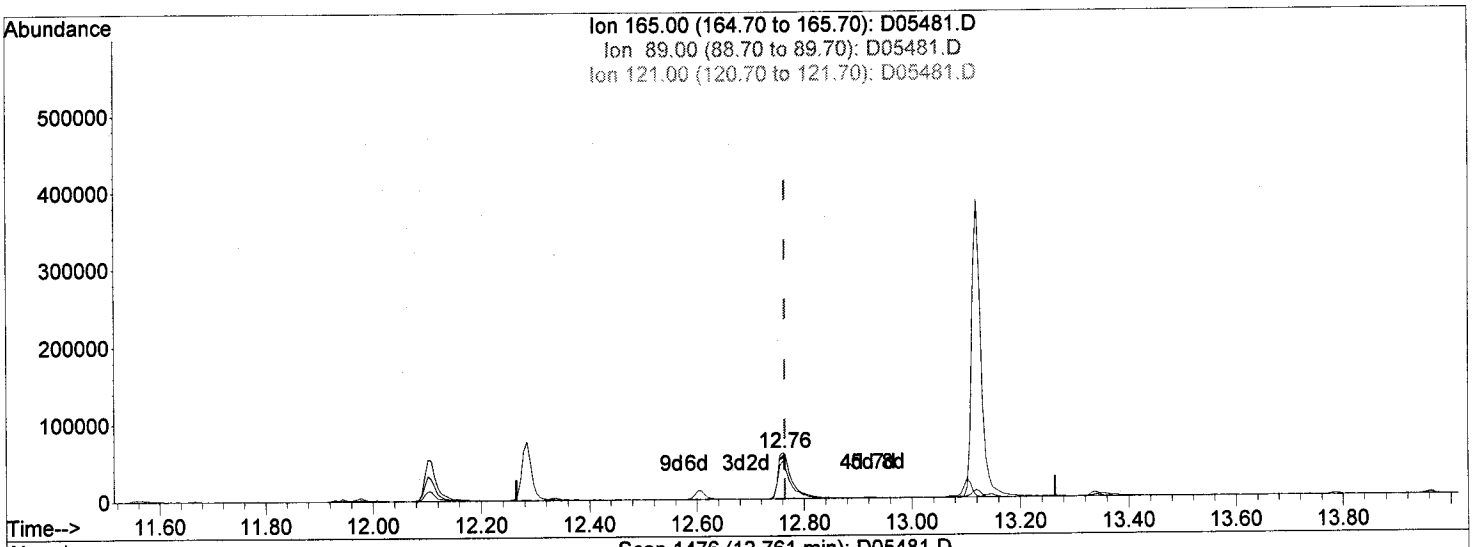
Quantitation Report (Qedit)

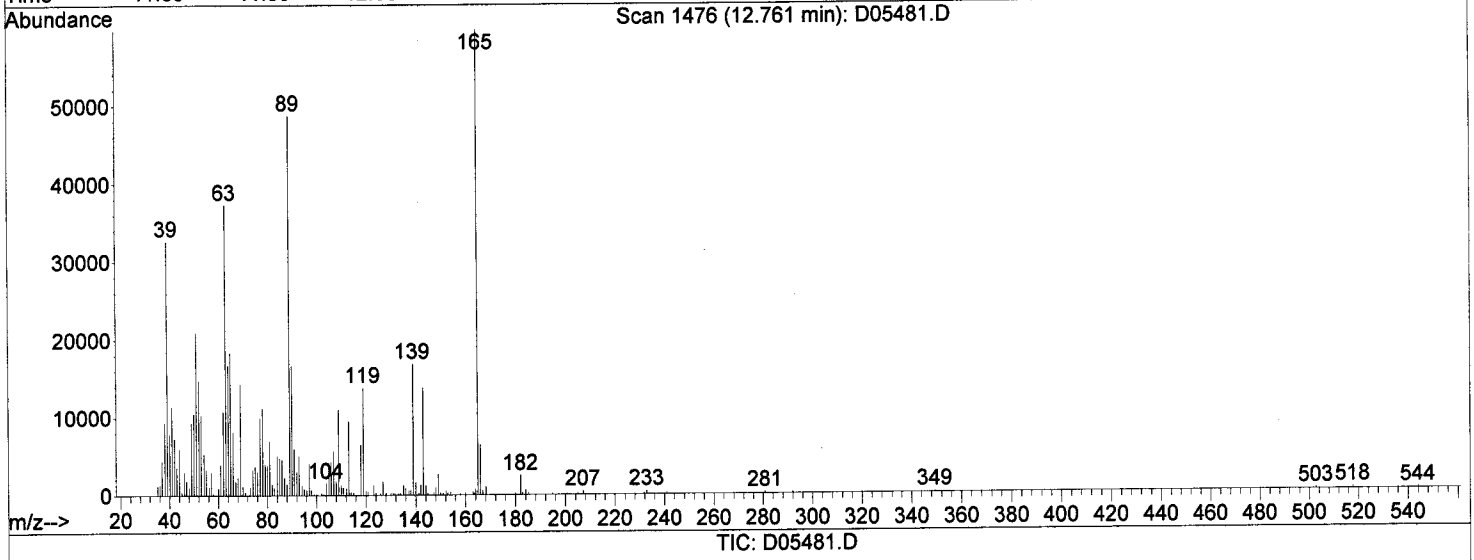
Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42
Sample : SSTD0108S
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

12/13/11





TIC: D05481.D

(52) 2,4-Dinitrotoluene

12.761min (-0.004) 6.4168ug/L m

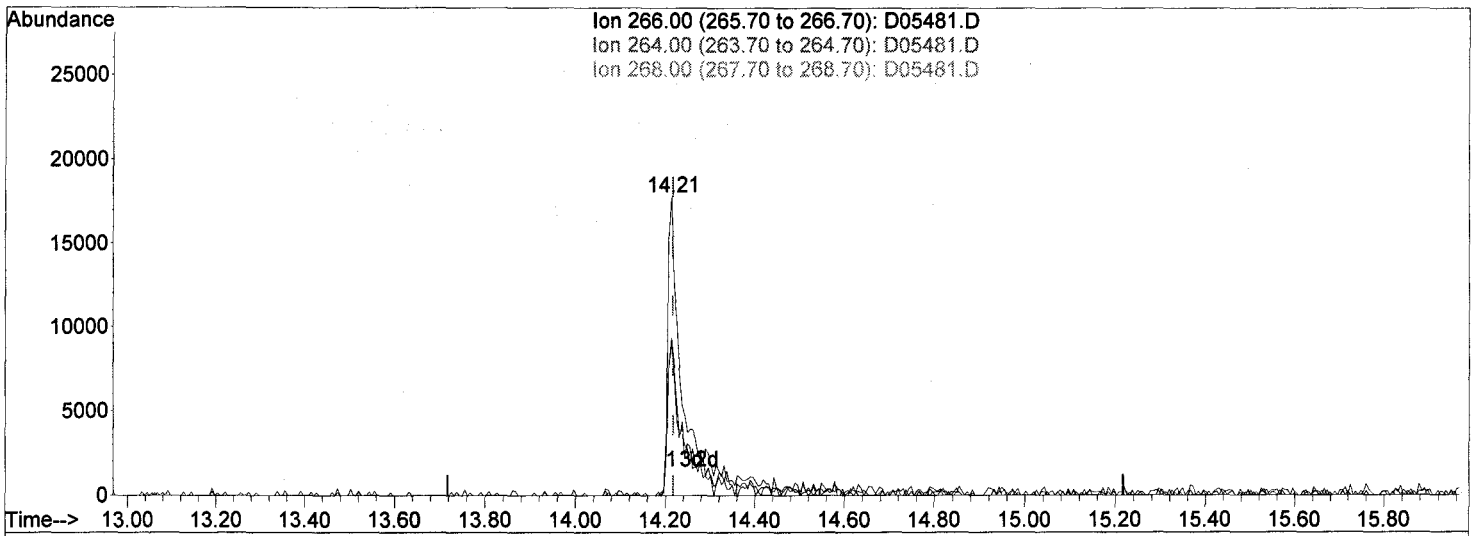
response 1044002

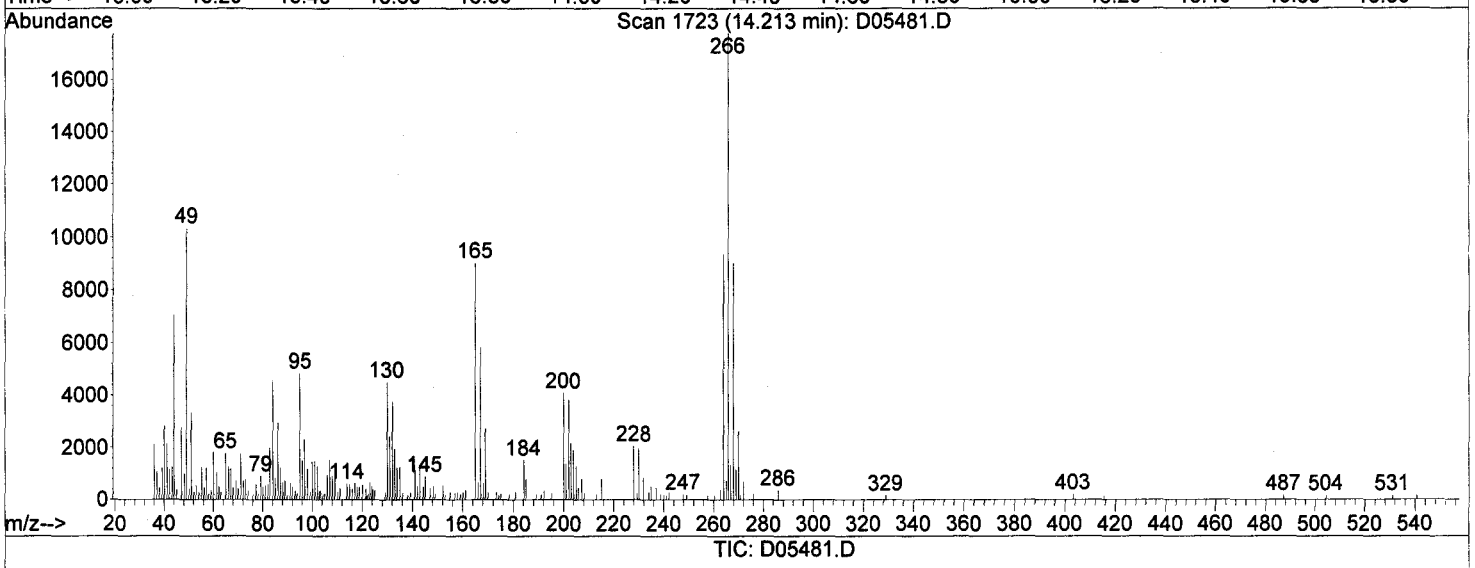
Ion	Exp%	Act%
165.00	100	100
89.00	68.20	78.68
121.00	0.70	2.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42 Operator: SV
Sample : SSTD0108S Inst : D-5973
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration





TIC: D05481.D

(66) Pentachlorophenol

14.213min (-0.004) 9.0810ug/L m

response 414426

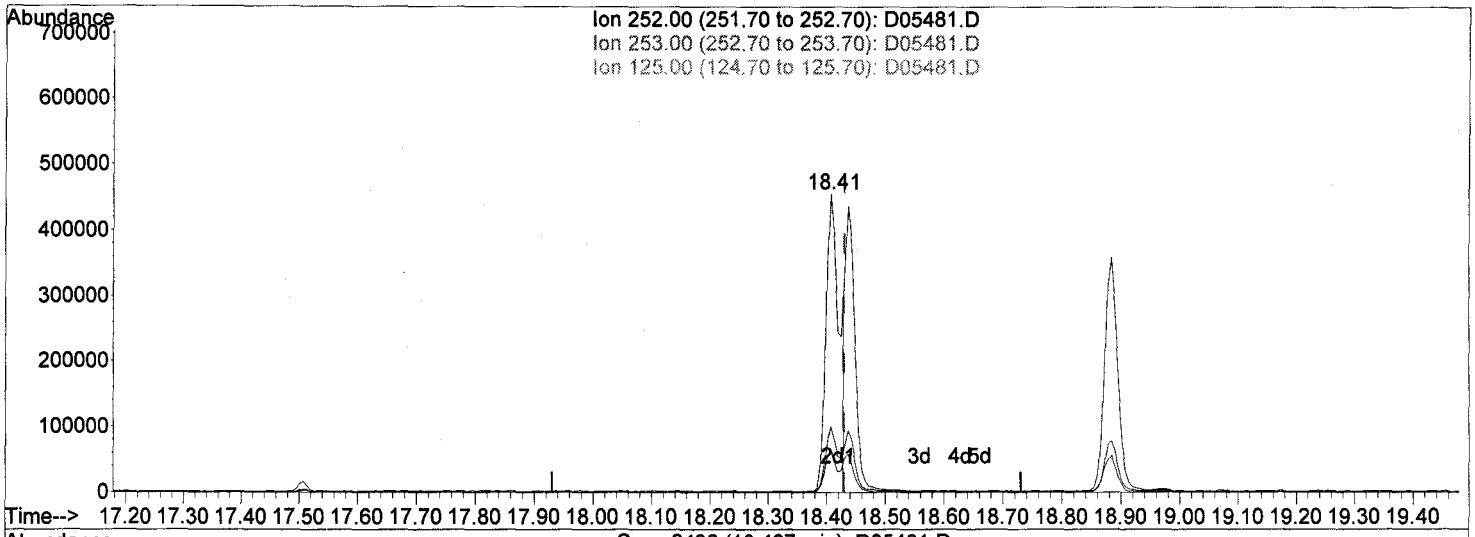
Ion	Exp%	Act%
266.00	100	100
264.00	62.80	43.84#
268.00	61.20	44.01#
0.00	0.00	0.00

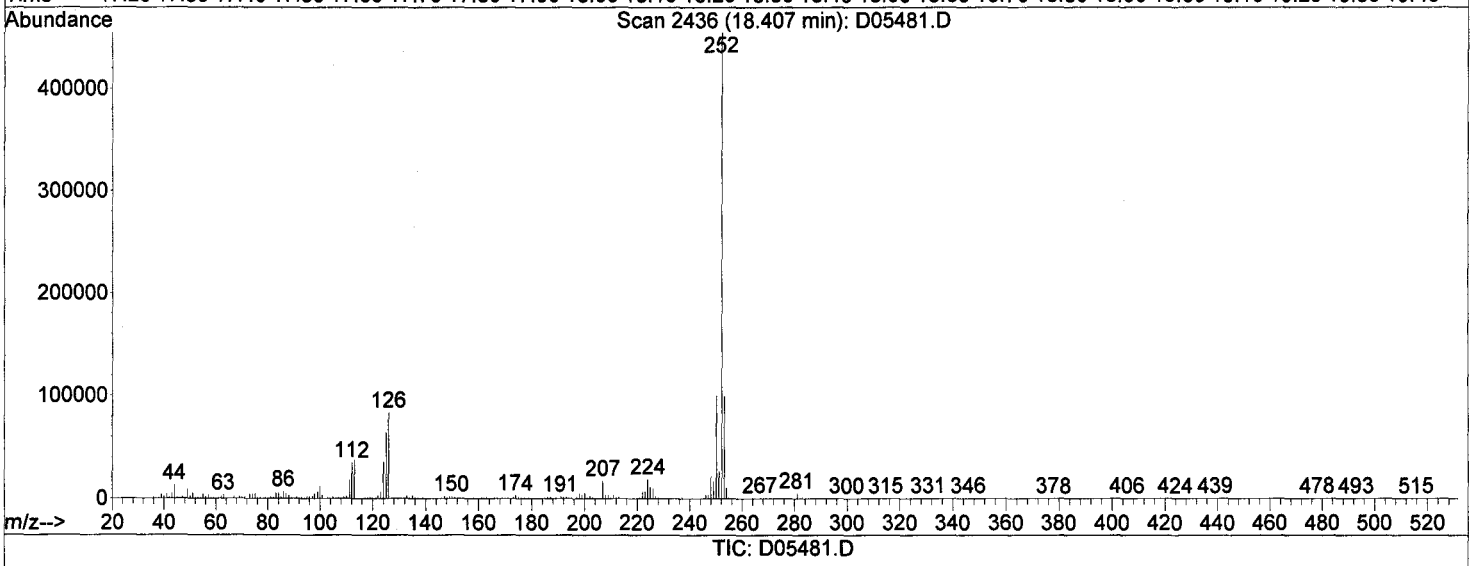
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05481.D
Acq On : 12/13/11 16:42 Operator: SV
Sample : SSTD0108S Inst : D-5973
Misc : SSTD0108S INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 11:21:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:17:02 2011
Response via : Initial Calibration

12/15/11





TIC: D05481.D

(83) Benzo(b)fluoranthene

18.407min (-0.023) 10.2989ug/L m

response 6590349

Ion	Exp%	Act%
252.00	100	100
253.00	21.00	20.04
125.00	14.40	12.84
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/19/11

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2694592	20.0000 ug/L	0.01
16) Naphthalene-d8	8.36	136	12486935	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7774996	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	13683132	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	12845354	20.0000 ug/L	0.00
81) Perylene-d12	18.97	264	10593197	20.0000 ug/L	-0.02
System Monitoring Compounds					
3) Phenol-d5	5.13	99	1903039	4.8341 ug/L	0.02
Spiked Amount 40.000	Range 39 - 106		Recovery = 12.09%#		
5) Bis(2-chloroethyl)ether-d8	5.12	67	790234	4.9031 ug/L	0.02
Spiked Amount 40.000	Range 40 - 105		Recovery = 12.26%#		
7) 2-Chlorophenol-d4	5.26	132	914273	4.9028 ug/L	0.01
Spiked Amount 40.000	Range 41 - 106		Recovery = 12.26%#		
12) 4-Methylphenol-d8	6.62	113	719336	4.2323 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 10.58%#		
17) Nitrobenzene-d5	6.85	128	450432	4.8361 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 12.09%#		
20) 2-Nitrophenol-d4	7.57	143	426578	4.8086 ug/L	0.01
Spiked Amount 40.000	Range 40 - 108		Recovery = 12.02%#		
24) 2,4-Dichlorophenol-d3	8.15	165	771194m	4.7989 ug/L	0.02
Spiked Amount 40.000	Range 37 - 105		Recovery = 12.00%#		
27) 4-Chloroaniline-d4	8.67	131	749611	4.1871 ug/L	0.02
Spiked Amount 40.000	Range 1 - 145		Recovery = 10.47%		
41) Acenaphthylene-d8	11.99	160	3365831	4.6688 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 11.67%#		
43) Dimethylphthalate-d6	11.94	166	2384990	4.8967 ug/L	-0.01
Spiked Amount 40.000	Range 47 - 114		Recovery = 12.24%#		
49) 4-Nitrophenol-d4	12.76	143	252143	3.6625 ug/L	0.02
Spiked Amount 40.000	Range 33 - 116		Recovery = 9.16%#		
56) Fluorene-d10	13.08	176	2280485	4.9020 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 12.26%#		
60) 4,6-Dinitro-2-methylphenol	13.35	200	102069	2.3410 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 5.85%#		
68) Anthracene-d10	14.38	188	4032613	5.4941 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 13.74%#		
79) Pyrene-d10	15.89	212	3915116	5.2861 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 13.22%#		
85) Benzo(a)pyrene-d12	18.85	264	2731530	5.5272 ug/L	-0.03
Spiked Amount 40.000	Range 32 - 121		Recovery = 13.82%#		
Target Compounds					Qvalue
2) Benzaldehyde	4.82	77	570237	4.7053 ug/L	90
4) Phenol	5.15	94	1055187	4.4468 ug/L #	94
6) Bis(2-chloroethyl)ether	5.20	93	849259	4.5886 ug/L #	96
8) 2-Chlorophenol	5.29	128	869395	4.7668 ug/L	97
9) 2-Methylphenol	6.34	108	757906	4.4839 ug/L	98
10) 2,2'-Oxybis(1-chloropropan	6.30	45	2494396	5.0502 ug/L #	67
11) Acetophenone	6.53	105	1216820	4.8456 ug/L	93
13) 4-Methylphenol	6.67	108	947550m	5.4316 ug/L	
14) N-Nitroso-di-n-propylamine	6.59	70	734104	4.7256 ug/L	97
15) Hexachloroethane	6.62	117	453526	4.9936 ug/L	94
18) Nitrobenzene	6.89	77	838020	3.7789 ug/L #	77
19) Isophorone	7.38	82	2124150	5.2297 ug/L	97
21) 2-Nitrophenol	7.60	139	426369	4.3319 ug/L #	87
22) 2,4-Dimethylphenol	7.82	107	860883	4.6948 ug/L	99

0449

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12 Operator: SV
Sample : SSTD0058S Inst : D-5973
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.98	93	1169595	4.7458	ug/L		92
25) 2,4-Dichlorophenol	8.17	162	748028m	4.7430	ug/L		
26) Naphthalene	8.41	128	3081415	5.0399	ug/L		99
28) 4-Chloroaniline	8.69	127	643768	4.0242	ug/L		95
29) Hexachlorobutadiene	8.86	225	533280	5.2349	ug/L		98
30) Caprolactam	9.34	113	274504m	4.5970	ug/L		
31) 4-Chloro-3-methylphenol	9.98	107	768424	4.7787	ug/L	#	69
32) 2-Methylnaphthalene	10.04	142	2378359	5.2859	ug/L		84
34) Hexachlorocyclopentadiene	10.58	237	123560	4.7524	ug/L		95
35) 2,4,6-Trichlorophenol	10.87	196	471148	4.1819	ug/L		88
36) 2,4,5-Trichlorophenol	10.98	196	629320m	4.8354	ug/L		
37) 2,3,4,6-Tetrachlorophenol	12.92	232	329528	3.9179	ug/L		93
38) 1,1'-Biphenyl	11.19	154	2621233	4.8330	UG/l		98
39) 2-Chloronaphthalene	11.18	162	2026769	4.7869	ug/L		97
40) 2-Nitroaniline	11.56	65	485092	3.7643	ug/L		94
42) Acenaphthylene	12.01	152	3270719	4.8937	ug/L		96
44) Dimethylphthalate	11.98	163	2325832	4.7237	ug/L		100
45) 3-Nitroaniline	12.35	138	471188	4.2306	ug/L	#	89
46) Acenaphthene	12.34	153	2234004	4.9439	ug/L		99
48) Dibenzofuran	12.61	168	2876678	4.9120	ug/L		100
51) 2,6-Dinitrotoluene	12.11	165	394976	4.4420	ug/L	#	92
52) 2,4-Dinitrotoluene	12.76	165	438702m	2.6173	ug/L		
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	839227	4.5720	ug/L		95
54) Diethylphthalate	13.10	149	2472404	4.8926	ug/L		97
55) 4-Chlorophenyl-phenylether	13.15	204	1164057	5.1032	ug/L		97
57) Fluorene	13.12	166	2474055	4.8300	ug/L		96
58) 4-Nitroaniline	13.28	138	515878	4.7389	ug/L	#	1
62) N-Nitrosodiphenylamine	13.34	169	1951581	4.8559	ug/L		98
63) 4-Bromophenyl-phenylether	13.79	248	647126	5.0225	ug/L		98
64) Hexachlorobenzene	13.96	284	704222	5.0377	ug/L		99
65) Atrazine	14.07	200	102837	5.3089	ug/L		98
67) Phenanthrene	14.35	178	3494235	5.0245	ug/L		100
69) Anthracene	14.40	178	3835083	5.1675	ug/L		98
70) Carbazole	14.62	167	3425407	5.2594	ug/L		100
71) Di-n-butylphthalate	15.04	149	4127968	5.0501	ug/L		97
72) Fluoranthene	15.67	202	4008849	5.2805	ug/L		97
74) Butylbenzylphthalate	16.58	149	2153785	5.5430	ug/L		99
75) bis(2-ethylhexyl)phthalate	17.15	149	2871782	5.3980	ug/L		97
76) 3,3'-Dichlorobenzidine	17.12	252	1311585	5.8700	ug/L		98
77) Benzo(a)anthracene	17.13	228	4009554	5.6300	ug/L		99
78) Chrysene	17.18	228	4145016	6.0082	ug/L		99
80) Pyrene	15.91	202	4247623	5.3184	ug/L		97
82) Di-n-octylphthalate	17.81	149	4368826	5.2643	ug/L		100
83) Benzo(b)fluoranthene	18.41	252	3033746m	4.7741	ug/L		
84) Benzo(k)fluoranthene	18.44	252	3605337	5.7068	ug/L		99
86) Benzo(a)pyrene	18.88	252	3124664	5.4721	ug/L		99
87) Dibenzo(a,h)anthracene	21.01	278	2595816	5.2560	ug/L		97
88) Indeno(1,2,3-cd)pyrene	21.00	276	3246840	5.4248	ug/L	#	97
89) Benzo(g,h,i)perylene	21.62	276	2785649	5.5431	ug/L		95

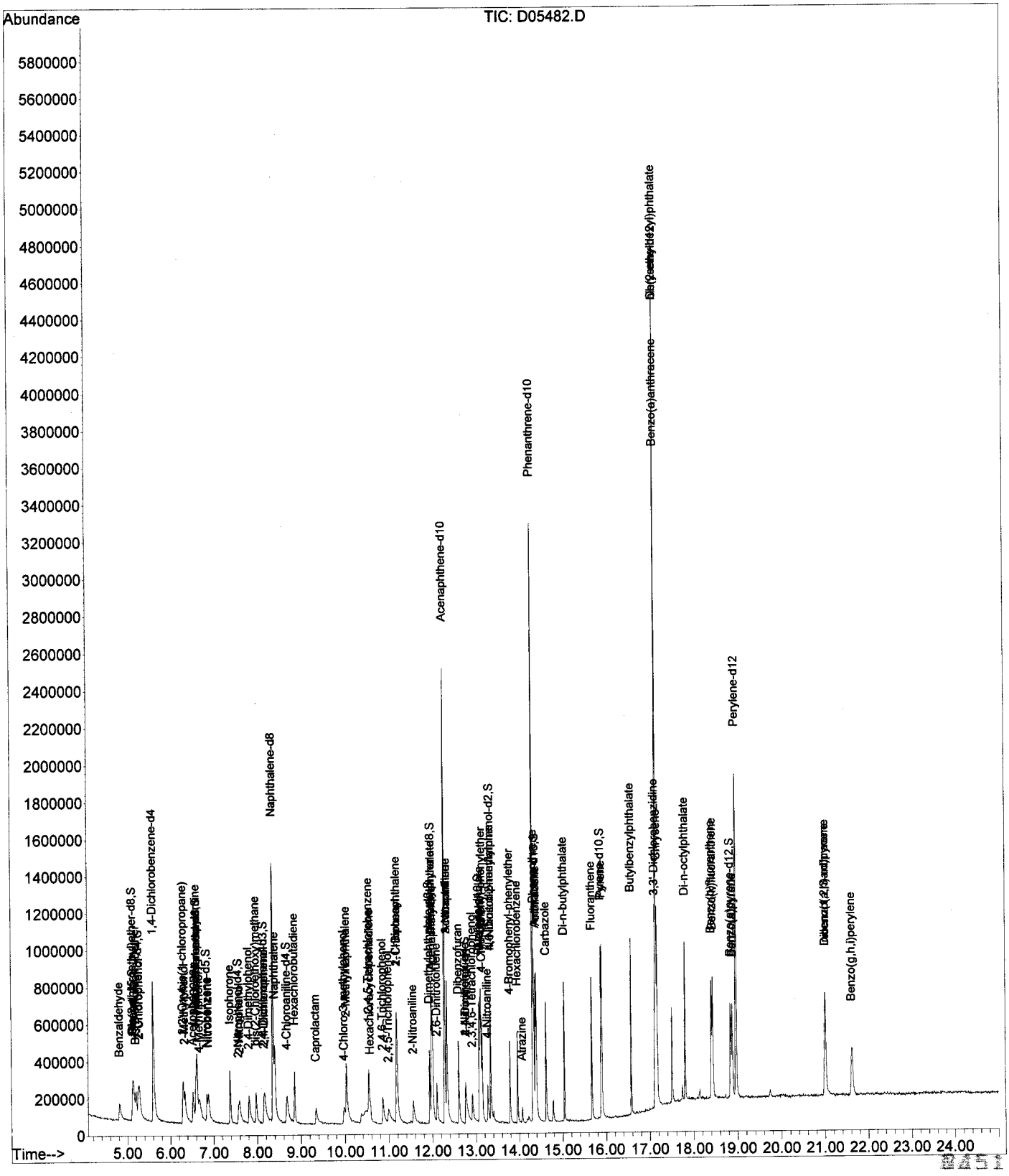
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BASE

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12 Operator: SV
Sample : SSTD0058S Inst : D-5973
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration



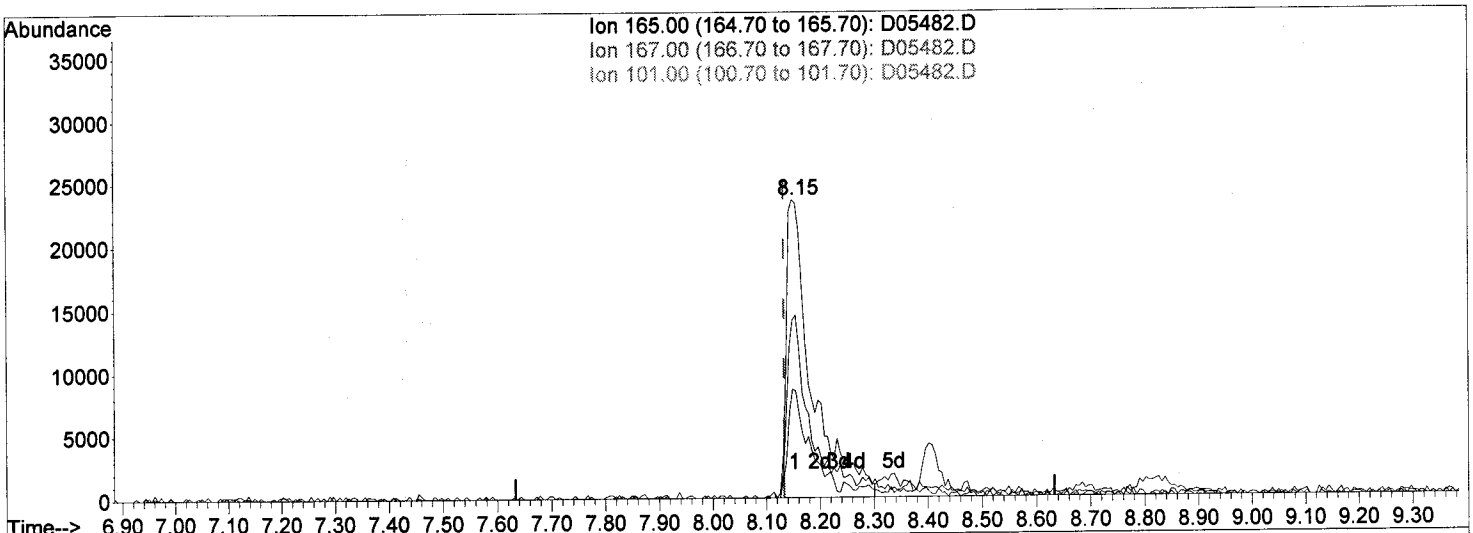
Quantitation Report (Qedit)

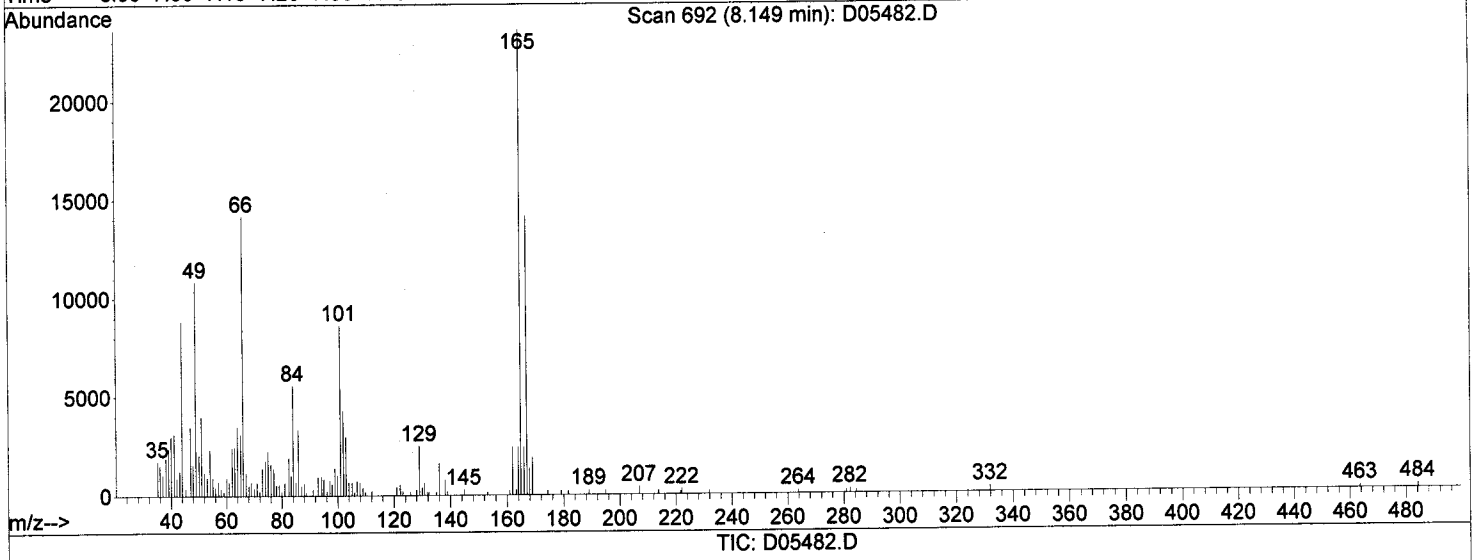
Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

12/15/11





TIC: D05482.D

(24) 2,4-Dichlorophenol-d3 (S)

8.149min (+0.015) 4.7989ug/L m

response 771194

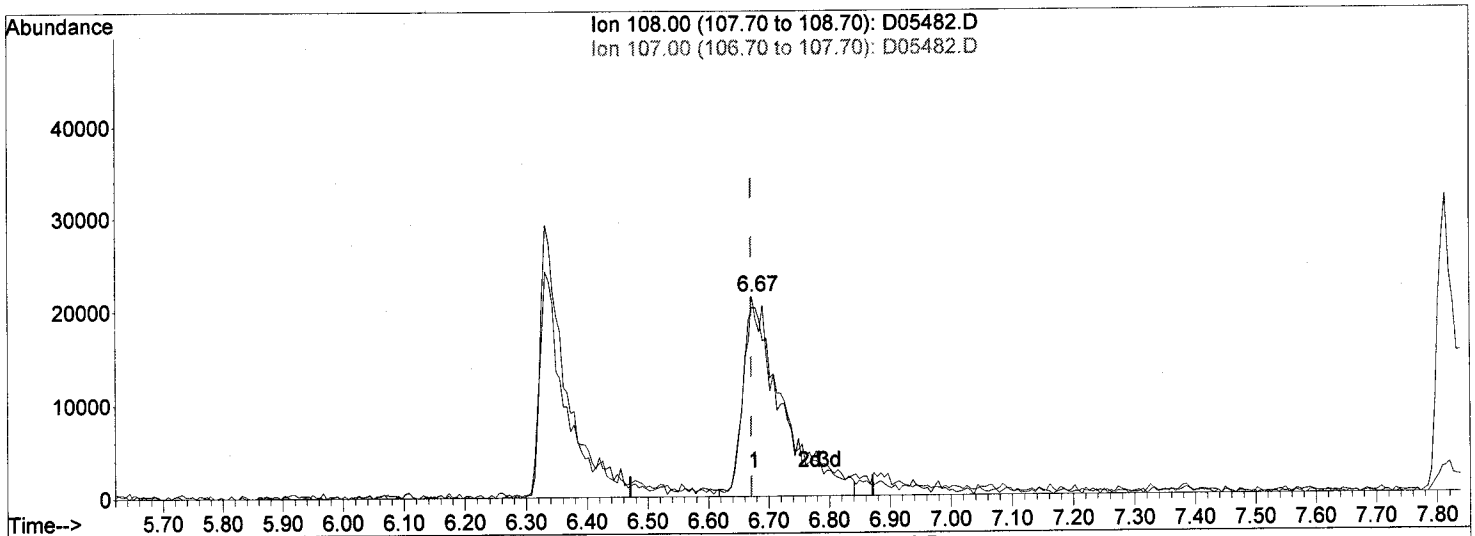
Ion	Exp%	Act%
165.00	100	100
167.00	61.40	52.75
101.00	36.10	28.60#
0.00	0.00	0.00

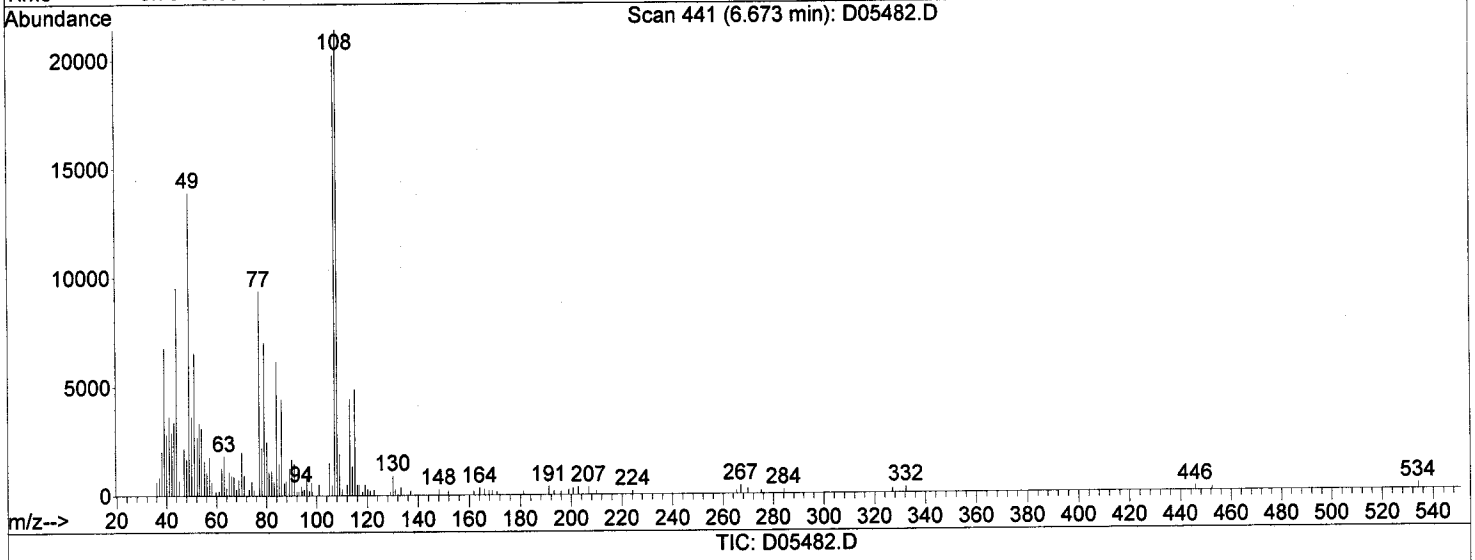
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration





TIC: D05482.D

(13) 4-Methylphenol

6.673min (+0.001) 5.4316ug/L m

response 947550

Ion	Exp%	Act%
108.00	100	100
107.00	106.20	77.62#
0.00	0.00	0.00
0.00	0.00	0.00

B453

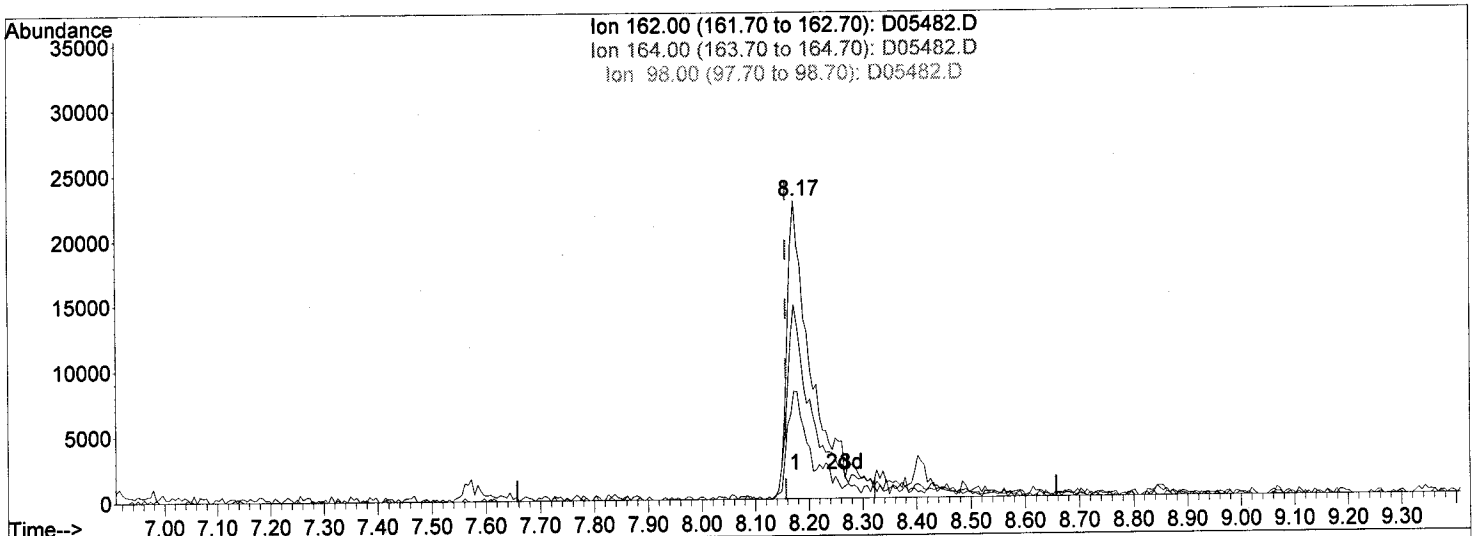
Quantitation Report (Qedit)

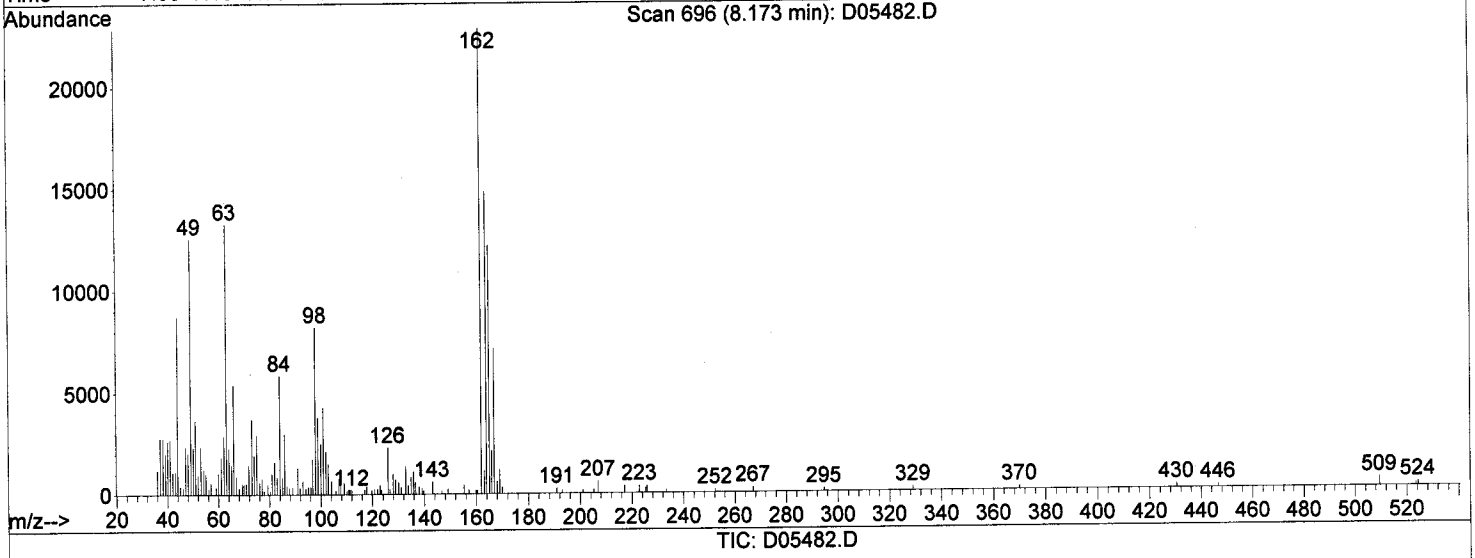
Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

12/15/11





TIC: D05482.D

(25) 2,4-Dichlorophenol

8.173min (+0.015) 4.7430ug/L m

response 748028

Ion	Exp%	Act%
162.00	100	100
164.00	68.80	62.03
98.00	35.90	26.65#
0.00	0.00	0.00

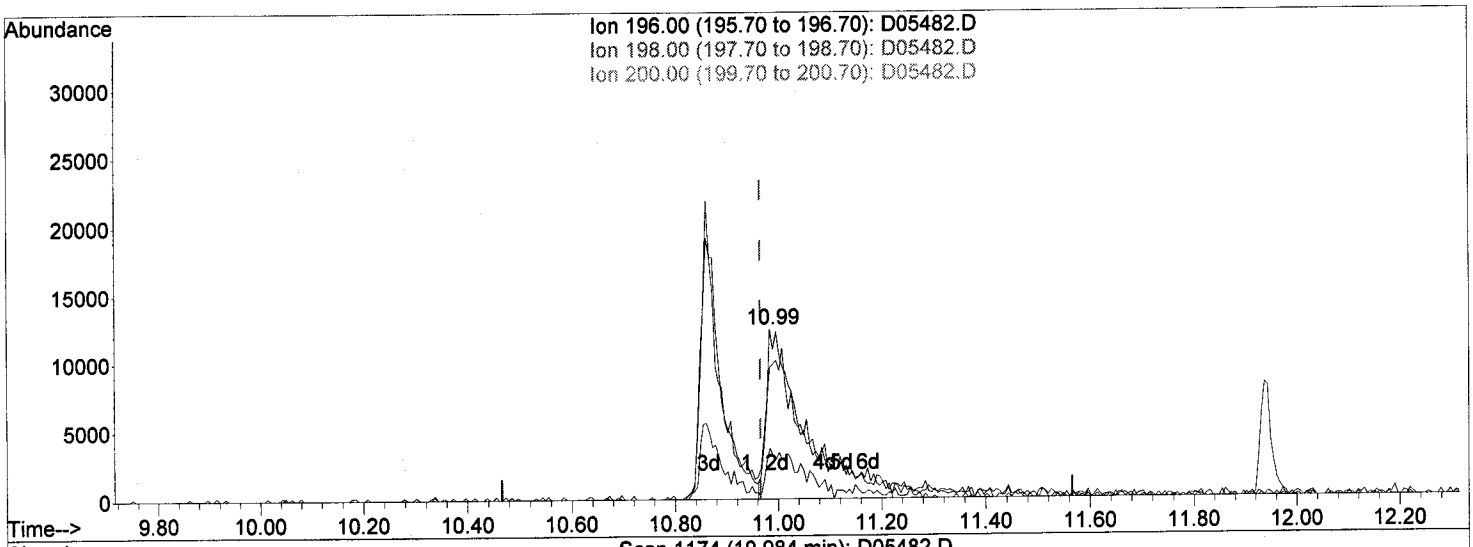
Quantitation Report (Qedit)

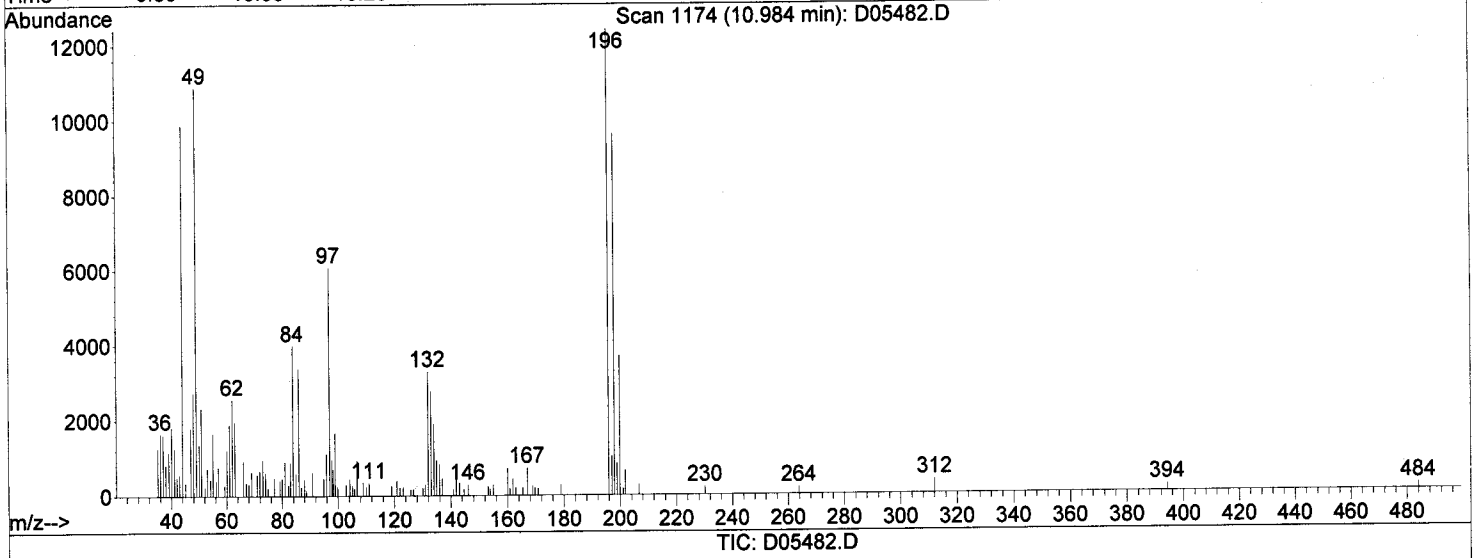
Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

12/14/11





TIC: D05482.D

(36) 2,4,5-Trichlorophenol

10.984min (+0.018) 4.8354ug/L m

response 629320

Ion	Exp%	Act%
196.00	100	100
198.00	92.10	0.00#
200.00	29.20	0.00#
0.00	0.00	0.00

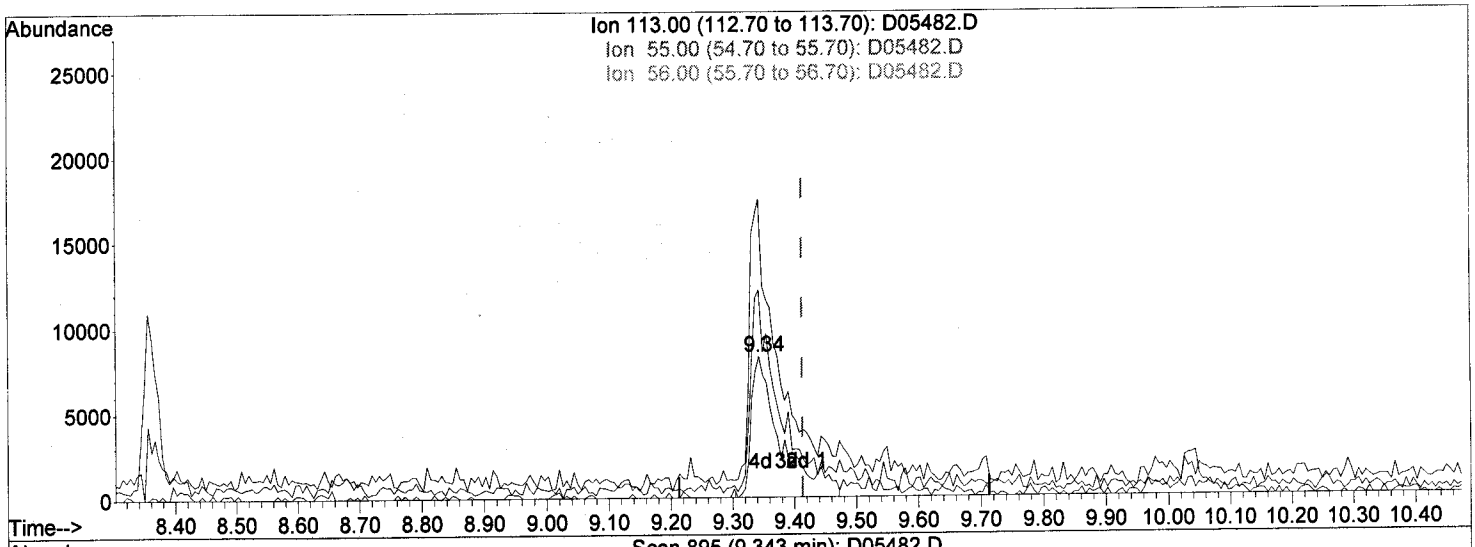
Quantitation Report (Qedit)

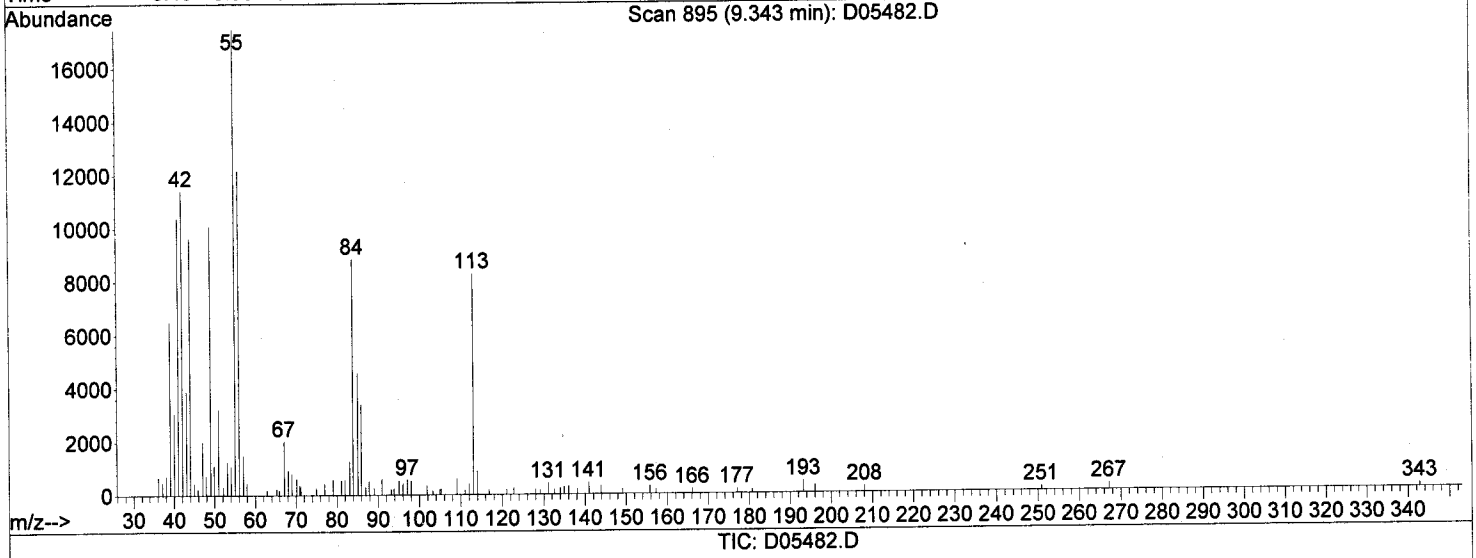
Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

12/14/11





TIC: D05482.D

(30) Caprolactam

9.343min (-0.070) 4.5970ug/L m

response 274504

Ion	Exp%	Act%
113.00	100	100
55.00	119.90	12.81#
56.00	82.10	8.88#
0.00	0.00	0.00

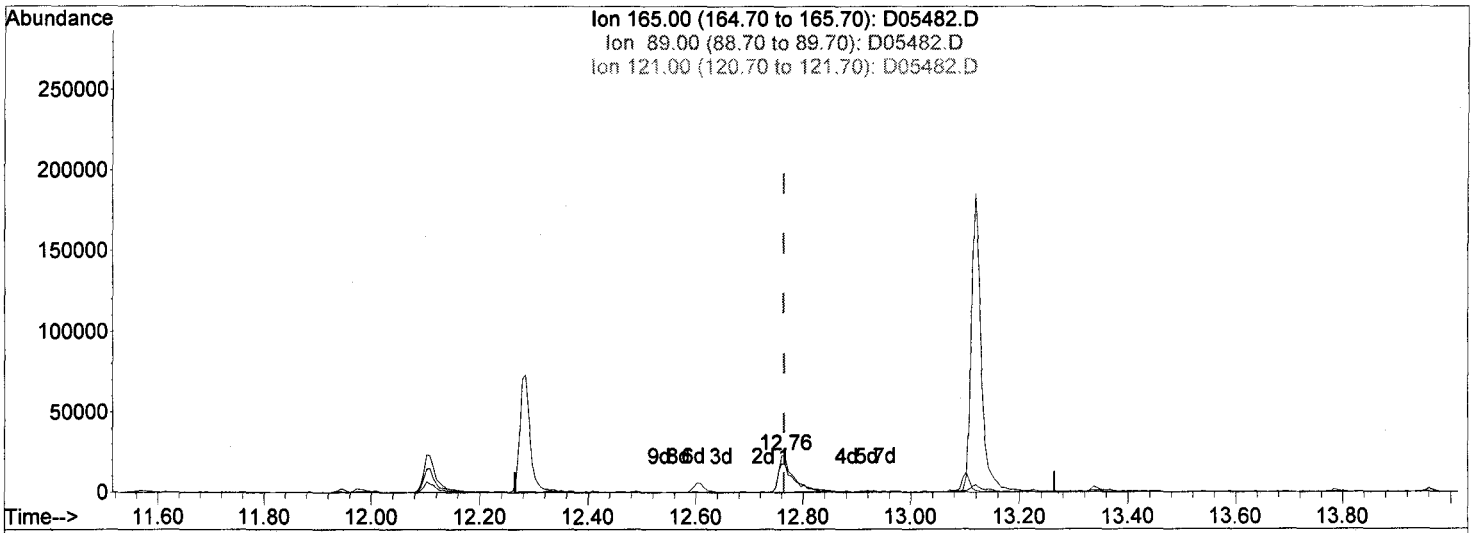
BASE

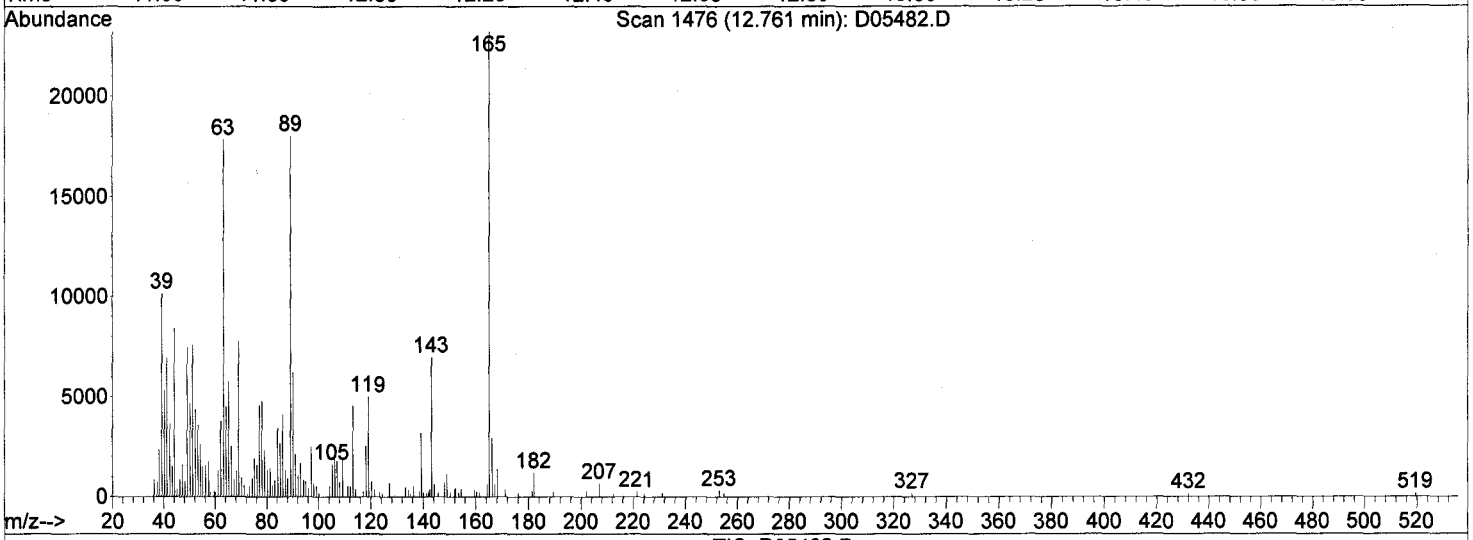
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12 Operator: SV
Sample : SSTD0058S Inst : D-5973
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

12/14/11





TIC: D05482.D

(52) 2,4-Dinitrotoluene

12.761min (-0.004) 2.6173ug/L m

response 438702

Ion	Exp%	Act%
165.00	100	100
89.00	68.20	87.31#
121.00	0.70	0.00#
0.00	0.00	0.00

8457

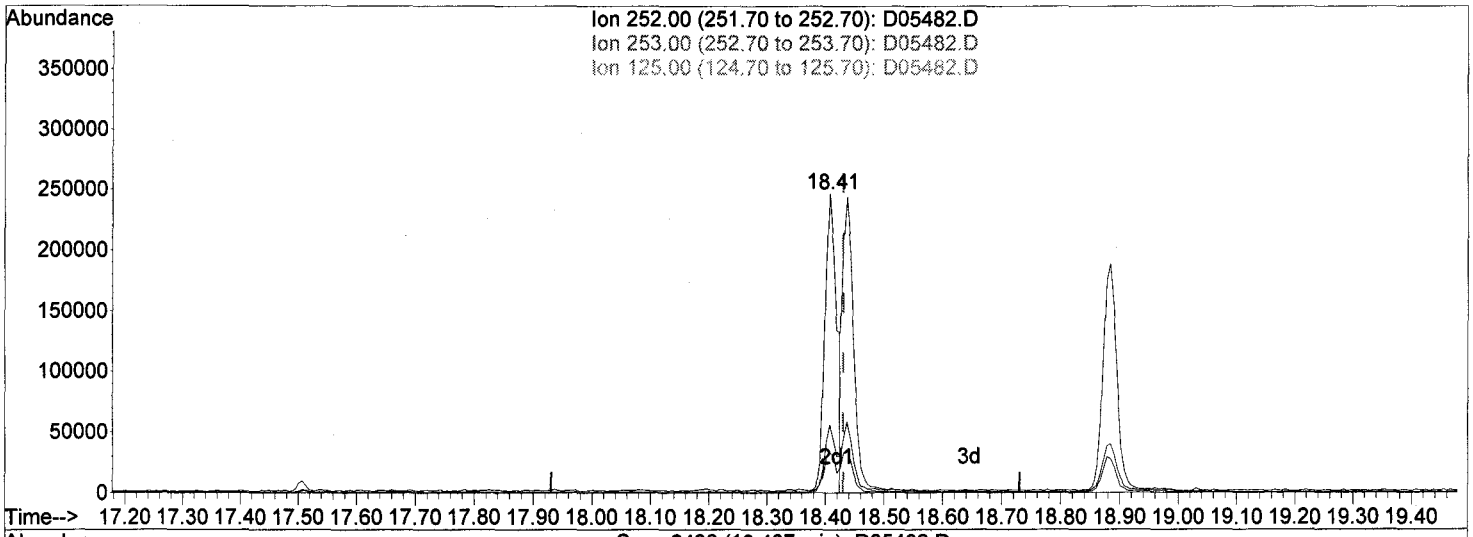
Quantitation Report (Qedit)

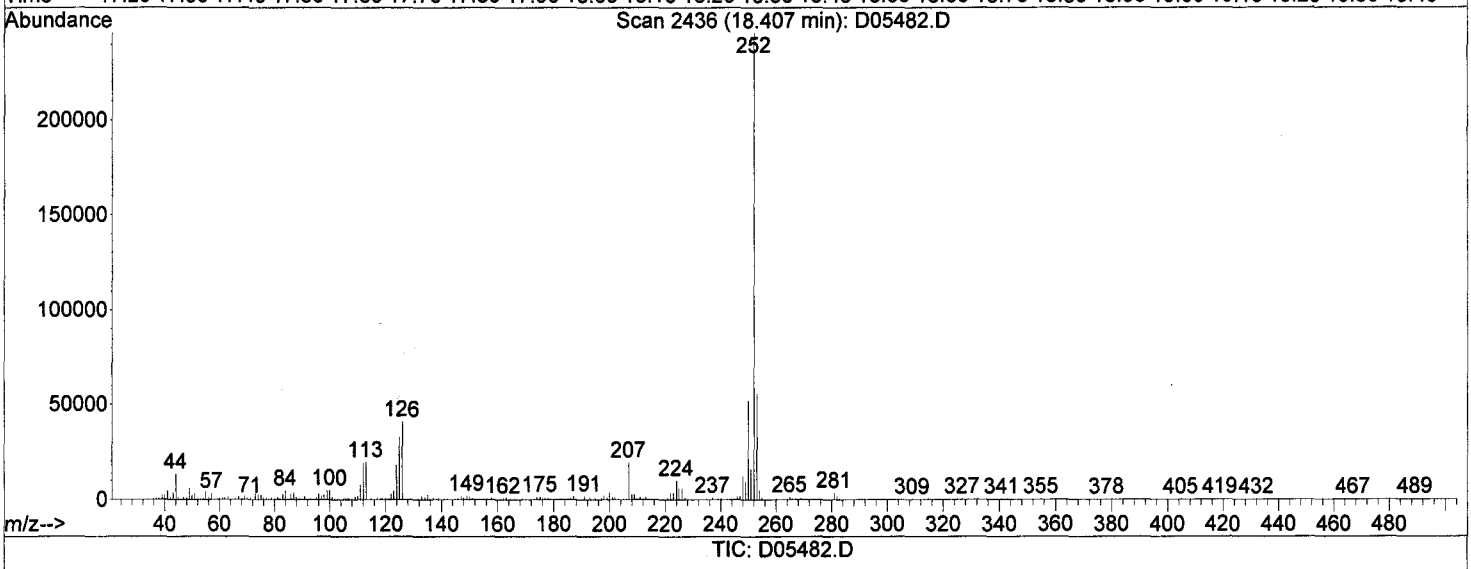
Data File: C:\MSDCHEM\1\DATA\D05482.D
Acq On : 12/13/11 17:12
Sample : SSTD0058S
Misc : SSTD0058S INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 14 11:20:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:18:46 2011
Response via : Initial Calibration

0 12/15/11





TIC: D05482.D

(83) Benzo(b)fluoranthene

18.407min (-0.023) 4.7741ug/L m

response 3033746

Ion	Exp%	Act%
252.00	100	100
253.00	21.00	26.14#
125.00	14.40	16.68
0.00	0.00	0.00

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/14/2011 Time: 1144

Lab File ID: D05484 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208T Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.8992	0.9520	0.010	5.9	40.0
Phenol	1.7612	1.8200	0.800	3.3	25.0
Bis(2-chloroethyl)ether	1.3738	1.4330	0.700	4.3	25.0
2-Chlorophenol	1.3538	1.4080	0.800	4.0	25.0
2-Methylphenol	1.2546	1.3040	0.700	3.9	25.0
2,2'-Oxybis(1-chloropropane)	3.6660	3.6800	0.010	0.4	40.0
Acetophenone	1.8636	1.8670	0.010	0.2	40.0
4-Methylphenol	1.3456	1.2700	0.600	-5.6	25.0
N-Nitroso-di-n-propylamine	1.1530	1.1680	0.500	1.3	25.0
Hexachloroethane	0.6742	0.6540	0.300	-3.0	25.0
Nitrobenzene	0.3552	0.3510	0.200	-1.2	25.0
Isophorone	0.6506	0.6430	0.400	-1.2	25.0
2-Nitrophenol	0.1578	0.1650	0.100	4.6	25.0
2,4-Dimethylphenol	0.2938	0.2960	0.200	0.7	25.0
Bis(2-chloroethoxy)methane	0.3948	0.3920	0.300	-0.7	25.0
2,4-Dichlorophenol	0.2528	0.2540	0.200	0.5	25.0
Naphthalene	0.9792	0.9690	0.700	-1.0	25.0
4-Chloroaniline	0.2562	0.2650	0.010	3.4	40.0
Hexachlorobutadiene	0.1630	0.1680	0.010	3.1	40.0
Caprolactam	0.0956	0.0920	0.010	-3.8	40.0
4-Chloro-3-methylphenol	0.2574	0.2600	0.200	1.0	25.0
2-Methylnaphthalene	0.7206	0.7330	0.400	1.7	25.0
Hexachlorocyclopentadiene	0.0670	0.0480	0.010	-28.4	40.0
2,4,6-Trichlorophenol	0.2898	0.2910	0.200	0.4	25.0
2,4,5-Trichlorophenol	0.3350	0.3290	0.200	-1.8	25.0
1,1'-Biphenyl	1.3954	1.3710	0.010	-1.7	40.0
2-Chloronaphthalene	1.0892	1.0470	0.800	-3.9	25.0
2-Nitroaniline	0.3315	0.3210	0.010	-3.2	40.0
Dimethylphthalate	1.2668	1.2450	0.010	-1.7	40.0
2,6-Dinitrotoluene	0.2288	0.2310	0.200	1.0	25.0
Acenaphthylene	1.7194	1.6990	0.900	-1.2	25.0
3-Nitroaniline	0.2863	0.2710	0.010	-5.3	40.0
Acenaphthene	1.1624	1.1360	0.900	-2.3	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/14/2011 Time: 1144

Lab File ID: D05484 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208T Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.0425	0.0350	0.010	-17.6	40.0
4-Nitrophenol	0.1148	0.1110	0.010	-3.3	40.0
Dibenzofuran	1.5064	1.5190	0.800	0.8	25.0
2,4-Dinitrotoluene	0.3102	0.3220	0.200	3.8	25.0
Diethylphthalate	1.3000	1.3360	0.010	2.8	40.0
Fluorene	1.3176	1.3080	0.900	-0.7	25.0
4-Chlorophenyl-phenylether	0.5868	0.5860	0.400	-0.1	25.0
4-Nitroaniline	0.2800	0.2950	0.010	5.4	40.0
4,6-Dinitro-2-methylphenol	0.0673	0.0560	0.010	-16.8	40.0
N-Nitrosodiphenylamine 1	0.5878	0.5660	0.010	-3.7	40.0
1,2,4,5-Tetrachlorobenzene	0.4722	0.4840	0.010	2.5	40.0
4-Bromophenyl-phenylether	0.1884	0.1870	0.100	-0.7	25.0
Hexachlorobenzene	0.2044	0.2080	0.100	1.8	25.0
Atrazine	0.0284	0.0250	0.010	-12.0	40.0
Pentachlorophenol	0.0680	0.0510	0.050	-25.0	25.0
Phenanthrene	1.0162	1.0050	0.700	-1.1	25.0
Anthracene	1.0846	1.0810	0.700	-0.3	25.0
Carbazole	0.9518	0.9340	0.010	-1.9	40.0
Di-n-butylphthalate	1.1946	1.2410	0.010	3.9	40.0
Fluoranthene	1.1096	1.1280	0.600	1.7	25.0
Pyrene	1.2436	1.2430	0.600	0.0	25.0
Butylbenzylphthalate	0.6050	0.5490	0.010	-9.3	40.0
3,3'-Dichlorobenzidine	0.3476	0.3570	0.010	2.7	40.0
Benzo(a)anthracene	1.1088	1.0120	0.800	-8.7	25.0
Chrysene	1.0740	0.9690	0.700	-9.8	25.0
Bis(2-ethylhexyl)phthalate	0.8282	0.7690	0.010	-7.1	40.0
Di-n-octylphthalate	1.5670	1.4520	0.010	-7.3	40.0
Benzo(b)fluoranthene	1.1368	1.0880	0.700	-4.3	25.0
Benzo(k)fluoranthene	1.1928	1.1420	0.700	-4.3	25.0
Benzo(a)pyrene	1.0782	1.0310	0.700	-4.4	25.0
Indeno(1,2,3-cd)pyrene	1.1300	1.0340	0.500	-8.5	25.0
Dibenzo(a,h)anthracene	0.9324	0.8540	0.400	-8.4	25.0
Benzo(g,h,i)perylene	0.9486	0.8820	0.500	-7.0	25.0
2,3,4,6-Tetrachlorophenol	0.2164	0.2250	0.100	4.0	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/14/2011 Time: 1144

Lab File ID: D05484 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208T Init. Calib Times: 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	2.9220	2.9210	0.010	0.0	25.0
Bis(2-chloroethyl)ether-d8	1.1960	1.2120	0.010	1.3	25.0
2-Chlorophenol-d4	1.3842	1.3890	0.010	0.3	25.0
4-Methylphenol-d8	1.2616	1.3020	0.010	3.2	25.0
Nitrobenzene-d5	0.1492	0.1490	0.010	-0.1	25.0
2-Nitrophenol-d4	0.1422	0.1460	0.010	2.7	25.0
2,4-Dichlorophenol-d3	0.2574	0.2430	0.010	-5.6	25.0
4-Chloroaniline-d4	0.2866	0.2780	0.010	-3.0	40.0
Dimethylphthalate-d6	1.2528	1.2650	0.010	1.0	40.0
Acenaphthylene-d8	1.8546	1.8260	0.010	-1.5	25.0
4-Nitrophenol-d4	0.1768	0.1740	0.010	-1.6	40.0
Fluorene-d10	1.1966	1.2230	0.010	2.2	25.0
4,6-Dinitro-2-methylphenol-d2	0.0638	0.0500	0.010	-21.6	40.0
Anthracene-d10	1.0728	1.0570	0.010	-1.5	25.0
Pyrene-d10	1.1532	1.1130	0.010	-3.5	25.0
Benzo(a)pyrene-d12	0.9330	0.9100	0.010	-2.5	25.0

Continuing Calibration Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 15 10:02:46 2011
Response Via : Initial Calibration

CC Data File: D05484.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77
2		Benzaldehyde	0.900	0.952	-5.8	72
3	S	Phenol-d5	2.922	2.921	0.0	76
4		Phenol	1.761	1.820	-3.3	76
5	S	Bis(2-chloroethyl)ether-d8	1.196	1.212	-1.3	77
6		Bis(2-chloroethyl)ether	1.374	1.433	-4.3	75
7	S	2-Chlorophenol-d4	1.384	1.389	-0.4	74
8		2-Chlorophenol	1.354	1.408	-4.0	76
9		2-Methylphenol	1.255	1.304	-3.9	76
10		2,2'-Oxybis(1-chloropropane)	3.666	3.680	-0.4	76
11		Acetophenone	1.864	1.867	-0.1	74
12	S	4-Methylphenol-d8	1.262	1.302	-3.2	76
13		4-Methylphenol	1.345	1.270	5.6	71
14		N-Nitroso-di-n-propylamine	1.153	1.168	-1.3	74
15		Hexachloroethane	0.674	0.654	2.9	73
16		Naphthalene-d8	1.000	1.000	0.0	78
17	S	Nitrobenzene-d5	0.149	0.149	0.2	77
18		Nitrobenzene	0.355	0.351	1.3	71
19		Isophorone	0.651	0.643	1.2	76
20	S	2-Nitrophenol-d4	0.142	0.146	-2.8	73
21		2-Nitrophenol	0.158	0.165	-4.9	75
22		2,4-Dimethylphenol	0.294	0.296	-0.9	79
23		bis(2-Chloroethoxy)methane	0.395	0.392	0.7	75
24	S	2,4-Dichlorophenol-d3	0.257	0.243	5.5	73
25		2,4-Dichlorophenol	0.253	0.254	-0.3	78
26		Naphthalene	0.979	0.969	1.1	75
27	S	4-Chloroaniline-d4	0.287	0.278	3.0	70
28		4-Chloroaniline	0.256	0.265	-3.5	72
29		Hexachlorobutadiene	0.163	0.168	-2.9	80
30		Caprolactam	0.095	0.092	3.1	73
31		4-Chloro-3-methylphenol	0.258	0.260	-1.1	71
32		2-Methylnaphthalene	0.721	0.733	-1.8	77
33		Acenaphthene-d10	1.000	1.000	0.0	76
34		Hexachlorocyclopentadiene	0.067	0.048	27.8#	71
35		2,4,6-Trichlorophenol	0.290	0.291	-0.4	74
36		2,4,5-Trichlorophenol	0.335	0.329	1.8	73
37		2,3,4,6-Tetrachlorophenol	0.216	0.225	-3.9	79
38		1,1'-Biphenyl	1.395	1.371	1.7	75
39		2-Chloronaphthalene	1.089	1.047	3.8	73
40		2-Nitroaniline	0.331	0.321	3.3	74
41	S	Acenaphthylene-d8	1.854	1.826	1.5	76
42		Acenaphthylene	1.719	1.699	1.2	76
43	S	Dimethylphthalate-d6	1.253	1.265	-0.9	77
44		Dimethylphthalate	1.267	1.245	1.7	75
45		3-Nitroaniline	0.286	0.271	5.3	75
46		Acenaphthene	1.162	1.136	2.2	75
47		2,4-Dinitrophenol	0.042	0.035	16.5	64
48		Dibenzofuran	1.506	1.519	-0.8	76
49	S	4-Nitrophenol-d4	0.177	0.174	1.8	84
50		4-Nitrophenol	0.115	0.111	3.7	78
51		2,6-Dinitrotoluene	0.229	0.231	-0.9	74
52		2,4-Dinitrotoluene	0.310	0.322	-3.7	77
53		1,2,4,5-Tetrachlorobenzene	0.472	0.484	-2.4	79
54		Diethylphthalate	1.300	1.336	-2.8	79
55		4-Chlorophenyl-phenylether	0.587	0.586	0.1	75

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 15 10:02:46 2011
Response Via : Initial Calibration

CC Data File: D05484.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
56	S	Fluorene-d10	1.197	1.223	-2.2	78
57		Fluorene	1.318	1.308	0.7	76
58		4-Nitroaniline	0.280	0.295	-5.3	80
59		Phenanthrene-d10	1.000	1.000	0.0	81
60	S	4,6-Dinitro-2-methylphenol-d2	0.064	0.050	22.0	68
61		4,6-Dinitro-2-methylphenol	0.067	0.056	17.1	75
62		N-Nitrosodiphenylamine	0.587	0.566	3.7	75
63		4-Bromophenyl-phenylether	0.188	0.187	0.8	78
64		Hexachlorobenzene	0.204	0.208	-1.7	80
65		Atrazine	0.028	0.025	13.2	69
66		Pentachlorophenol	0.068	0.051	24.6	80
67		Phenanthrene	1.016	1.005	1.1	78
68	S	Anthracene-d10	1.073	1.057	1.5	80
69		Anthracene	1.085	1.081	0.4	79
70		Carbazole	0.952	0.934	1.9	80
71		Di-n-butylphthalate	1.195	1.241	-3.9	84
72		Fluoranthene	1.110	1.128	-1.6	83
73		Chrysene-d12	1.000	1.000	0.0	83
74		Butylbenzylphthalate	0.605	0.549	9.3	79
75		bis(2-ethylhexyl)phthalate	0.828	0.769	7.1	81
76		3,3'-Dichlorobenzidine	0.348	0.357	-2.6	88
77		Benzo(a)anthracene	1.109	1.012	8.8	79
78		Chrysene	1.074	0.969	9.8	79
79	S	Pyrene-d10	1.153	1.113	3.5	87
80		Pyrene	1.244	1.243	0.0	88
81		Perylene-d12	1.000	1.000	0.0	87
82		Di-n-octylphthalate	1.567	1.452	7.3	87
83		Benzo(b)fluoranthene	1.137	1.088	4.3	88
84		Benzo(k)fluoranthene	1.193	1.142	4.2	87
85	S	Benzo(a)pyrene-d12	0.933	0.910	2.4	88
86		Benzo(a)pyrene	1.078	1.031	4.4	86
87		Dibenzo(a,h)anthracene	0.932	0.854	8.4	81
88		Indeno(1,2,3-cd)pyrene	1.130	1.034	8.5	82
89		Benzo(g,h,i)perylene	0.949	0.882	7.0	83

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05484.D
Acq On : 12/14/11 11:44
Sample : SSTD0208T
Misc : SSTD0208T INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG FLXP0
Episode 54460 Init/date 12/19/11

Quant Time: Dec 14 12:10:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:59:26 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2496537	20.0000	ug/L	0.01
16) Naphthalene-d8	8.37	136	11387230	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	6909419	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.33	188	12661137	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	12349977	20.0000	ug/L	0.00
81) Perylene-d12	18.98	264	11094988	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.12	99	7291491	19.9914	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 49.98%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	3026689	20.2691	ug/L	0.01
Spiked Amount 40.000	Range 40 - 105		Recovery = 50.67%			
7) 2-Chlorophenol-d4	5.25	132	3468045	20.0728	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 50.18%			
12) 4-Methylphenol-d8	6.61	113	3249885	20.6382	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 51.60%			
17) Nitrobenzene-d5	6.84	128	1696034	19.9682	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 49.92%			
20) 2-Nitrophenol-d4	7.57	143	1663872	20.5672	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 51.42%			
24) 2,4-Dichlorophenol-d3	8.15	165	2769674	18.9004	ug/L	0.01
Spiked Amount 40.000	Range 37 - 105		Recovery = 47.25%			
27) 4-Chloroaniline-d4	8.66	131	3166857	19.3974	ug/L	0.01
Spiked Amount 40.000	Range 1 - 145		Recovery = 48.49%			
41) Acenaphthylene-d8	11.99	160	12616086	19.6922	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 49.23%			
43) Dimethylphthalate-d6	11.95	166	8737205	20.1857	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 50.46%			
49) 4-Nitrophenol-d4	12.75	143	1201796	19.6438	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 49.11%			
56) Fluorene-d10	13.09	176	8447055	20.4318	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 51.08%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	629068	15.5927	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 38.98%			
68) Anthracene-d10	14.38	188	13378241	19.6980	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 49.24%			
79) Pyrene-d10	15.89	212	13740143	19.2959	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 48.24%#			
85) Benzo(a)pyrene-d12	18.86	264	10101195	19.5150	ug/L	-0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 48.79%			
Target Compounds						Qvalue
2) Benzaldehyde	4.81	77	2376013	21.1610	ug/L	99
4) Phenol	5.14	94	4543338	20.6657	ug/L	95
6) Bis(2-chloroethyl)ether	5.20	93	3576715	20.8585	ug/L	94
8) 2-Chlorophenol	5.28	128	3514307	20.7970	ug/L	99
9) 2-Methylphenol	6.33	108	3254689	20.7828	ug/L	95
10) 2,2'-Oxybis(1-chloropropan	6.30	45	9186854	20.0756	ug/L	97
11) Acetophenone	6.52	105	4660171	20.0298	ug/L	99
13) 4-Methylphenol	6.68	108	3170033	18.8769	ug/L	95
14) N-Nitroso-di-n-propylamine	6.59	70	2915128	20.2541	ug/L	98
15) Hexachloroethane	6.62	117	1633829	19.4166	ug/L	96
18) Nitrobenzene	6.88	77	3991463	19.7368	ug/L #	88
19) Isophorone	7.38	82	7320785	19.7646	ug/L	100
21) 2-Nitrophenol	7.60	139	1883655	20.9860	ug/L	98
22) 2,4-Dimethylphenol	7.81	107	3374675	20.1809	ug/L	96

B464

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05484.D
Acq On : 12/14/11 11:44 Operator: SV
Sample : SSTD0208T Inst : D-5973
Misc : SSTD0208T INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 12:10:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:59:26 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.98	93	4463592	19.8606	ug/L		99
25) 2,4-Dichlorophenol	8.17	162	2889322	20.0617	ug/L		96
26) Naphthalene	8.41	128	11033677	19.7894	ug/L		100
28) 4-Chloroaniline	8.68	127	3020330	20.7032	ug/L		99
29) Hexachlorobutadiene	8.86	225	1912502	20.5869	ug/L		99
30) Caprolactam	9.34	113	1052705m	19.3853	ug/L		
31) 4-Chloro-3-methylphenol	9.97	107	2964646	20.2173	ug/L	#	84
32) 2-Methylnaphthalene	10.04	142	8352292	20.3558	ug/L		95
34) Hexachlorocyclopentadiene	10.59	237	333564	14.4369	ug/L		99
35) 2,4,6-Trichlorophenol	10.86	196	2011408	20.0898	ug/L		98
36) 2,4,5-Trichlorophenol	10.98	196	2274900	19.6491	ug/L		92
37) 2,3,4,6-Tetrachlorophenol	12.92	232	1552771	20.7741	ug/L		96
38) 1,1'-Biphenyl	11.19	154	9472709	19.6537	UG/l		99
39) 2-Chloronaphthalene	11.18	162	7236227	19.2318	ug/L		98
40) 2-Nitroaniline	11.56	65	2214978	19.3415	ug/L		98
42) Acenaphthylene	12.02	152	11737889	19.7626	ug/L		99
44) Dimethylphthalate	11.99	163	8603933	19.6635	ug/L		100
45) 3-Nitroaniline	12.34	138	1874334	18.9370	ug/L		94
46) Acenaphthene	12.34	153	7851051	19.5510	ug/L		100
47) 2,4-Dinitrophenol	12.56	184	244900	16.7027	ug/L	#	69
48) Dibenzofuran	12.61	168	10495920	20.1672	ug/L		99
50) 4-Nitrophenol	12.76	109	764093	19.2686	ug/L		100
51) 2,6-Dinitrotoluene	12.11	165	1595209	20.1874	ug/L	#	98
52) 2,4-Dinitrotoluene	12.76	165	2222229	20.7485	ug/L	#	90
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	3341152	20.4822	ug/L		99
54) Diethylphthalate	13.11	149	9229338	20.5519	ug/L		98
55) 4-Chlorophenyl-phenylether	13.15	204	4051789	19.9882	ug/L		98
57) Fluorene	13.13	166	9035918	19.8504	ug/L		99
58) 4-Nitroaniline	13.27	138	2038294	21.0695	ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	704386	16.5786	ug/L	#	66
62) N-Nitrosodiphenylamine	13.35	169	7164595	19.2658	ug/L		99
63) 4-Bromophenyl-phenylether	13.79	248	2365532	19.8414	ug/L		99
64) Hexachlorobenzene	13.97	284	2632117	20.3488	ug/L		96
65) Atrazine	14.08	200	311039	17.3535	ug/L		100
66) Pentachlorophenol	14.22	266	647837m	15.0811	ug/L		
67) Phenanthrene	14.35	178	12726004	19.7764	ug/L		100
69) Anthracene	14.41	178	13686288	19.9298	ug/L		98
70) Carbazole	14.62	167	11824493	19.6209	ug/L		100
71) Di-n-butylphthalate	15.05	149	15713848	20.7760	ug/L		96
72) Fluoranthene	15.68	202	14276560	20.3231	ug/L		97
74) Butylbenzylphthalate	16.58	149	6779621	18.1479	ug/L		98
75) bis(2-ethylhexyl)phthalate	17.16	149	9498607	18.5704	ug/L		99
76) 3,3'-Dichlorobenzidine	17.12	252	4408071	20.5195	ug/L		99
77) Benzo(a)anthracene	17.14	228	12495508	18.2493	ug/L		99
78) Chrysene	17.18	228	11963970	18.0373	ug/L		100
80) Pyrene	15.91	202	15356046	19.9985	ug/L		96
82) Di-n-octylphthalate	17.82	149	16114489	18.5392	ug/L		100
83) Benzo(b)fluoranthene	18.42	252	12066395	19.1327	ug/L		97
84) Benzo(k)fluoranthene	18.45	252	12673405	19.1531	ug/L		99
86) Benzo(a)pyrene	18.90	252	11440900	19.1299	ug/L		99
87) Dibenzo(a,h)anthracene	21.03	278	9479102	18.3253	ug/L		99
88) Indeno(1,2,3-cd)pyrene	21.02	276	11475821	18.3064	ug/L	#	97
89) Benzo(g,h,i)perylene	21.64	276	9790759	18.6014	ug/L		98

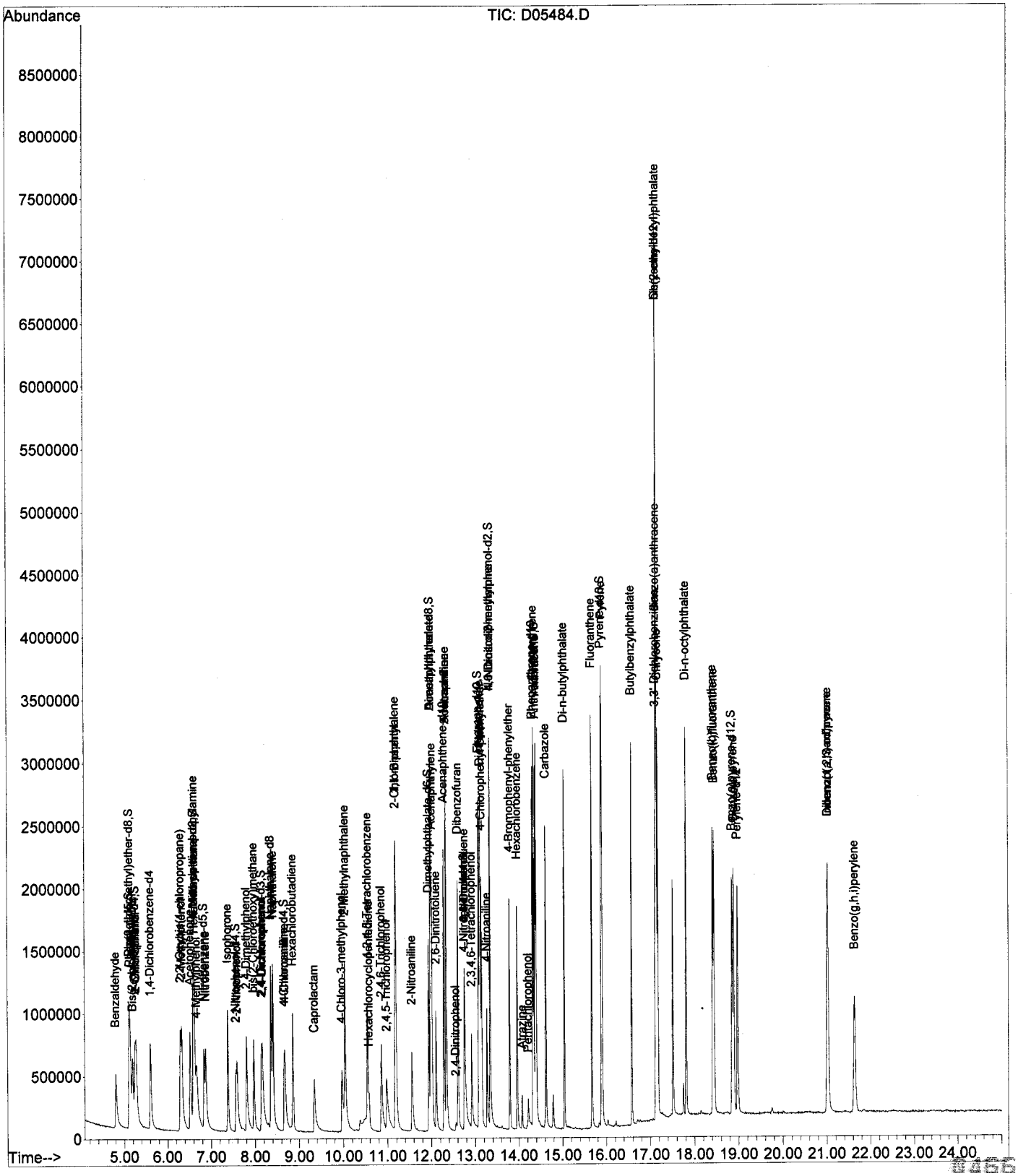
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0465

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05484.D
Acq On : 12/14/11 11:44 Operator: SV
Sample : SSTD0208T Inst : D-5973
Misc : SSTD0208T INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 12:10:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:59:26 2011
Response via : Initial Calibration

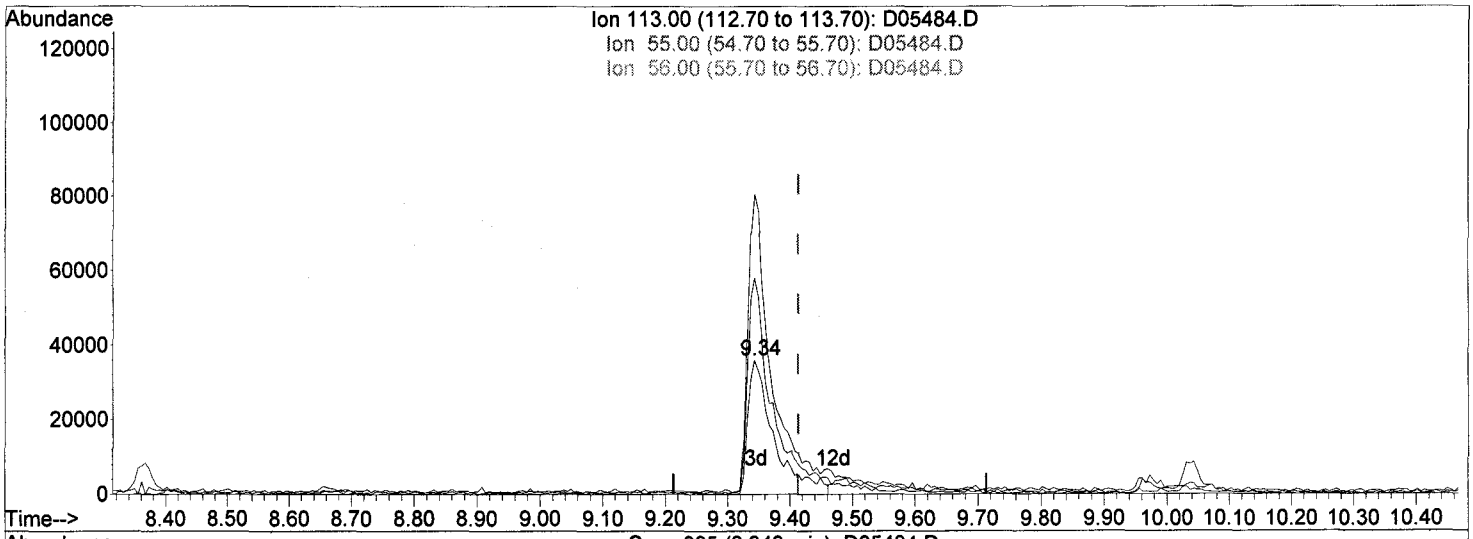


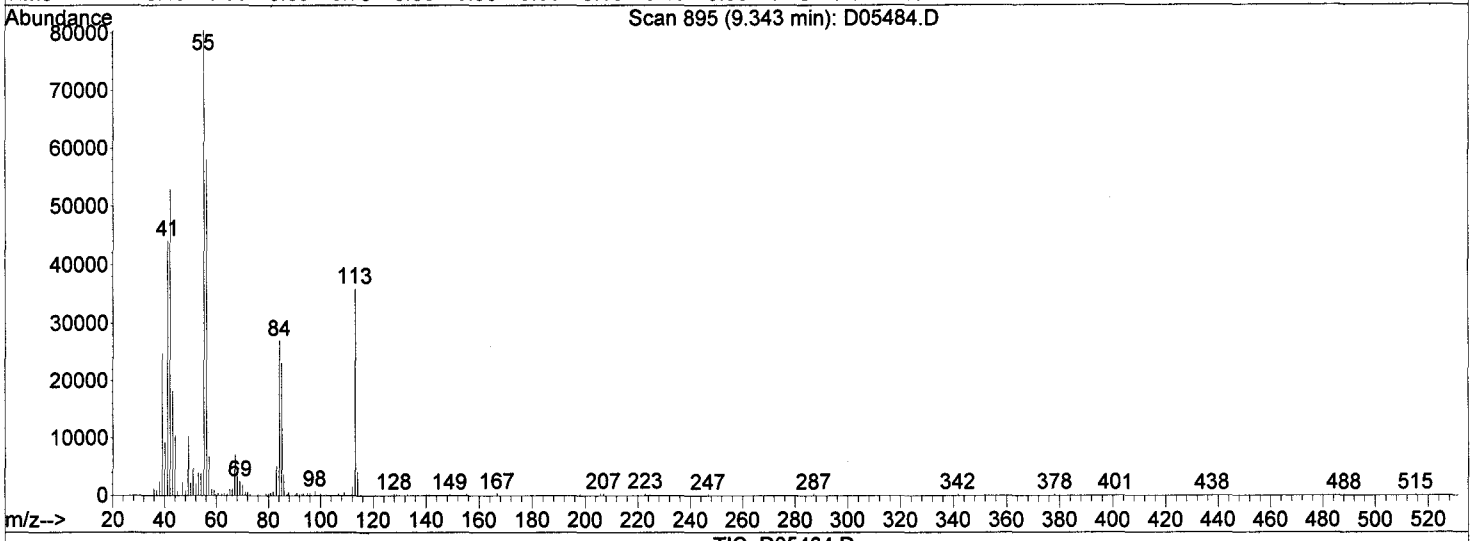
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05484.D
Acq On : 12/14/11 11:44 Operator: SV
Sample : SSTD0208T Inst : D-5973
Misc : SSTD0208T INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 12:10:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:59:26 2011
Response via : Initial Calibration

12/15/11





TIC: D05484.D

(30) Caprolactam

9.343min (-0.071) 19.3853ug/L m

response 1052705

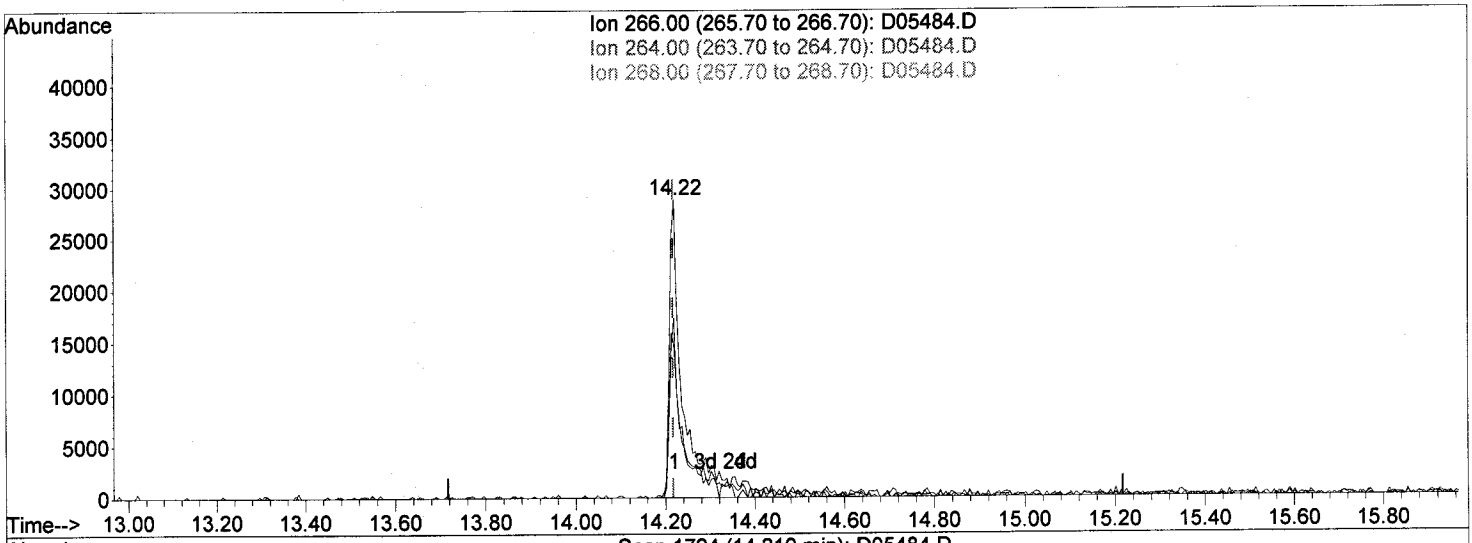
Ion	Exp%	Act%
113.00	100	100
55.00	119.90	0.00#
56.00	82.10	8.83#
0.00	0.00	0.00

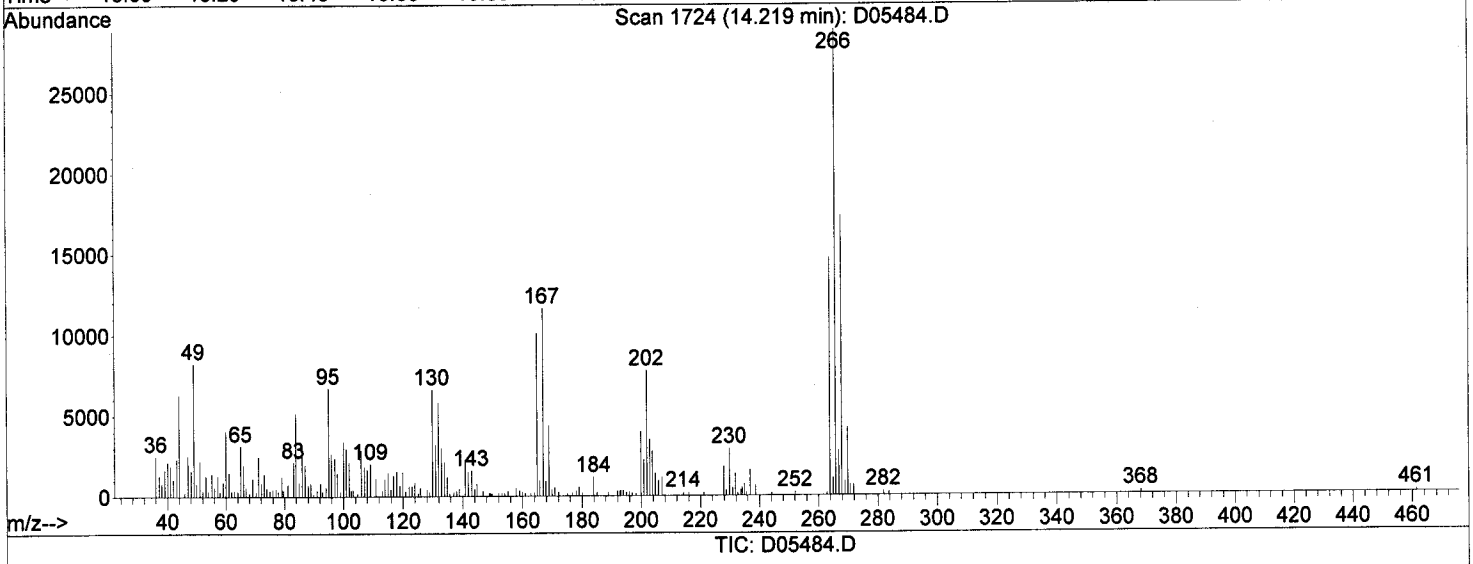
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05484.D
Acq On : 12/14/11 11:44 Operator: SV
Sample : SSTD0208T Inst : D-5973
Misc : SSTD0208T INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 12:10:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 11:59:26 2011
Response via : Initial Calibration

12/15/11





TIC: D05484.D

(66) Pentachlorophenol

14.219min (+0.002) 15.0811ug/L m

response 647837

Ion	Exp%	Act%
266.00	100	100
264.00	62.80	48.19#
268.00	61.20	41.00#
0.00	0.00	0.00

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/14/2011 Time: 2052

Lab File ID: D05498 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208U Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.8992	0.9450	0.010	5.1	50.0
Phenol	1.7612	1.7670	0.010	0.3	50.0
Bis(2-chloroethyl)ether	1.3738	1.3410	0.010	-2.4	50.0
2-Chlorophenol	1.3538	1.3650	0.010	0.8	50.0
2-Methylphenol	1.2546	1.2830	0.010	2.3	50.0
2,2'-Oxybis(1-chloropropane)	3.6660	3.5650	0.010	-2.8	50.0
Acetophenone	1.8636	1.8760	0.010	0.7	50.0
4-Methylphenol	1.3456	1.2970	0.010	-3.6	50.0
N-Nitroso-di-n-propylamine	1.1530	1.1630	0.010	0.9	50.0
Hexachloroethane	0.6742	0.6460	0.010	-4.2	50.0
Nitrobenzene	0.3552	0.3320	0.010	-6.5	50.0
Isophorone	0.6506	0.6210	0.010	-4.5	50.0
2-Nitrophenol	0.1578	0.1720	0.010	9.0	50.0
2,4-Dimethylphenol	0.2938	0.3050	0.010	3.8	50.0
Bis(2-chloroethoxy)methane	0.3948	0.3760	0.010	-4.8	50.0
2,4-Dichlorophenol	0.2528	0.2540	0.010	0.5	50.0
Naphthalene	0.9792	0.9410	0.010	-3.9	50.0
4-Chloroaniline	0.2562	0.2680	0.010	4.6	50.0
Hexachlorobutadiene	0.1630	0.1620	0.010	-0.6	50.0
Caprolactam	0.0956	0.0970	0.010	1.5	50.0
4-Chloro-3-methylphenol	0.2574	0.2640	0.010	2.6	50.0
2-Methylnaphthalene	0.7206	0.7070	0.010	-1.9	50.0
Hexachlorocyclopentadiene	0.0670	0.0970	0.010	44.8	50.0
2,4,6-Trichlorophenol	0.2898	0.2970	0.010	2.5	50.0
2,4,5-Trichlorophenol	0.3350	0.3320	0.010	-0.9	50.0
1,1'-Biphenyl	1.3954	1.3250	0.010	-5.0	50.0
2-Chloronaphthalene	1.0892	1.0410	0.010	-4.4	50.0
2-Nitroaniline	0.3315	0.3450	0.010	4.1	50.0
Dimethylphthalate	1.2668	1.2250	0.010	-3.3	50.0
2,6-Dinitrotoluene	0.2288	0.2580	0.010	12.8	50.0
Acenaphthylene	1.7194	1.6490	0.010	-4.1	50.0
3-Nitroaniline	0.2863	0.2960	0.010	3.4	50.0
Acenaphthene	1.1624	1.0980	0.010	-5.5	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/14/2011 Time: 2052

Lab File ID: D05498 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208U Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.0425	0.0570	0.010	34.1	50.0
4-Nitrophenol	0.1148	0.1280	0.010	11.5	50.0
Dibenzofuran	1.5064	1.4820	0.010	-1.6	50.0
2,4-Dinitrotoluene	0.3102	0.3420	0.010	10.3	50.0
Diethylphthalate	1.3000	1.2830	0.010	-1.3	50.0
Fluorene	1.3176	1.2920	0.010	-1.9	50.0
4-Chlorophenyl-phenylether	0.5868	0.5850	0.010	-0.3	50.0
4-Nitroaniline	0.2800	0.2880	0.010	2.9	50.0
4,6-Dinitro-2-methylphenol	0.0673	0.0750	0.010	11.4	50.0
N-Nitrosodiphenylamine 1	0.5878	0.5400	0.010	-8.1	50.0
1,2,4,5-Tetrachlorobenzene	0.4722	0.4520	0.010	-4.3	50.0
4-Bromophenyl-phenylether	0.1884	0.1720	0.010	-8.7	50.0
Hexachlorobenzene	0.2044	0.1950	0.010	-4.6	50.0
Atrazine	0.0284	0.0250	0.010	-12.0	50.0
Pentachlorophenol	0.0680	0.0560	0.010	-17.6	50.0
Phenanthrene	1.0162	0.9610	0.010	-5.4	50.0
Anthracene	1.0846	1.0250	0.010	-5.5	50.0
Carbazole	0.9518	0.8820	0.010	-7.3	50.0
Di-n-butylphthalate	1.1946	1.1620	0.010	-2.7	50.0
Fluoranthene	1.1096	1.0390	0.010	-6.4	50.0
Pyrene	1.2436	1.1000	0.010	-11.5	50.0
Butylbenzylphthalate	0.6050	0.5310	0.010	-12.2	50.0
3,3'-Dichlorobenzidine	0.3476	0.3360	0.010	-3.3	50.0
Benzo(a)anthracene	1.1088	0.9430	0.010	-15.0	50.0
Chrysene	1.0740	0.8960	0.010	-16.6	50.0
Bis(2-ethylhexyl)phthalate	0.8282	0.7110	0.010	-14.2	50.0
Di-n-octylphthalate	1.5670	1.3550	0.010	-13.5	50.0
Benzo(b)fluoranthene	1.1368	0.9930	0.010	-12.6	50.0
Benzo(k)fluoranthene	1.1928	1.0470	0.010	-12.2	50.0
Benzo(a)pyrene	1.0782	0.9650	0.010	-10.5	50.0
Indeno(1,2,3-cd)pyrene	1.1300	0.9920	0.010	-12.2	50.0
Dibenzo(a,h)anthracene	0.9324	0.8190	0.010	-12.2	50.0
Benzo(g,h,i)perylene	0.9486	0.8370	0.010	-11.8	50.0
2,3,4,6-Tetrachlorophenol	0.2164	0.2300	0.010	6.3	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/14/2011 Time: 2052

Lab File ID: D05498 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208U Init. Calib Times: 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	2.9220	2.8370	0.010	-2.9	50.0
Bis(2-chloroethyl)ether-d8	1.1960	1.1810	0.010	-1.3	50.0
2-Chlorophenol-d4	1.3842	1.3410	0.010	-3.1	50.0
4-Methylphenol-d8	1.2616	1.2890	0.010	2.2	50.0
Nitrobenzene-d5	0.1492	0.1440	0.010	-3.5	50.0
2-Nitrophenol-d4	0.1422	0.1590	0.010	11.8	50.0
2,4-Dichlorophenol-d3	0.2574	0.2550	0.010	-0.9	50.0
4-Chloroaniline-d4	0.2866	0.2940	0.010	2.6	50.0
Dimethylphthalate-d6	1.2528	1.2200	0.010	-2.6	50.0
Acenaphthylene-d8	1.8546	1.7880	0.010	-3.6	50.0
4-Nitrophenol-d4	0.1768	0.1990	0.010	12.6	50.0
Fluorene-d10	1.1966	1.1690	0.010	-2.3	50.0
4,6-Dinitro-2-methylphenol-d2	0.0638	0.0760	0.010	19.1	50.0
Anthracene-d10	1.0728	0.9600	0.010	-10.5	50.0
Pyrene-d10	1.1532	1.0620	0.010	-7.9	50.0
Benzo(a)pyrene-d12	0.9330	0.8780	0.010	-5.9	50.0

Continuing Calibration Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 15 10:20:29 2011
Response Via : Initial Calibration

CC Data File: D05498.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96
2		Benzaldehyde	0.900	0.945	-5.0	90
3	S	Phenol-d5	2.922	2.837	2.9	92
4		Phenol	1.761	1.767	-0.3	92
5	S	Bis(2-chloroethyl)ether-d8	1.196	1.181	1.3	94
6		Bis(2-chloroethyl)ether	1.374	1.341	2.4	88
7	S	2-Chlorophenol-d4	1.384	1.341	3.1	90
8		2-Chlorophenol	1.354	1.365	-0.9	92
9		2-Methylphenol	1.255	1.283	-2.3	93
10		2,2'-Oxybis(1-chloropropane)	3.666	3.565	2.8	92
11		Acetophenone	1.864	1.876	-0.7	93
12	S	4-Methylphenol-d8	1.262	1.289	-2.2	94
13		4-Methylphenol	1.345	1.297	3.6	91
14		N-Nitroso-di-n-propylamine	1.153	1.163	-0.9	92
15		Hexachloroethane	0.674	0.646	4.2	90
16		Naphthalene-d8	1.000	1.000	0.0	100
17	S	Nitrobenzene-d5	0.149	0.144	3.2	96
18		Nitrobenzene	0.355	0.332	6.5	87
19		Isophorone	0.651	0.621	4.5	94
20	S	2-Nitrophenol-d4	0.142	0.159	-11.8	102
21		2-Nitrophenol	0.158	0.172	-9.1	100
22		2,4-Dimethylphenol	0.294	0.305	-3.9	105
23		bis(2-Chloroethoxy)methane	0.395	0.376	4.8	92
24	S	2,4-Dichlorophenol-d3	0.257	0.255	0.9	98
25		2,4-Dichlorophenol	0.253	0.254	-0.3	100
26		Naphthalene	0.979	0.941	4.0	94
27	S	4-Chloroaniline-d4	0.287	0.294	-2.5	95
28		4-Chloroaniline	0.256	0.268	-4.6	94
29		Hexachlorobutadiene	0.163	0.162	0.8	99
30		Caprolactam	0.095	0.097	-1.6	99
31		4-Chloro-3-methylphenol	0.258	0.264	-2.4	92
32		2-Methylnaphthalene	0.721	0.707	2.0	96
33		Acenaphthene-d10	1.000	1.000	0.0	102
34		Hexachlorocyclopentadiene	0.067	0.097	-45.6#	192
35		2,4,6-Trichlorophenol	0.290	0.297	-2.6	100
36		2,4,5-Trichlorophenol	0.335	0.332	0.9	98
37		2,3,4,6-Tetrachlorophenol	0.216	0.230	-6.3	108
38		1,1'-Biphenyl	1.395	1.325	5.1	97
39		2-Chloronaphthalene	1.089	1.041	4.4	97
40		2-Nitroaniline	0.331	0.345	-4.1	106
41	S	Acenaphthylene-d8	1.854	1.788	3.6	99
42		Acenaphthylene	1.719	1.649	4.1	98
43	S	Dimethylphthalate-d6	1.253	1.220	2.6	100
44		Dimethylphthalate	1.267	1.225	3.3	99
45		3-Nitroaniline	0.286	0.296	-3.4	109
46		Acenaphthene	1.162	1.098	5.5	97
47		2,4-Dinitrophenol	0.042	0.057	-35.1#	139
48		Dibenzofuran	1.506	1.482	1.6	99
49	S	4-Nitrophenol-d4	0.177	0.199	-12.5	129
50		4-Nitrophenol	0.115	0.128	-11.7	121
51		2,6-Dinitrotoluene	0.229	0.258	-12.8	110
52		2,4-Dinitrotoluene	0.310	0.342	-10.4	109
53		1,2,4,5-Tetrachlorobenzene	0.472	0.452	4.2	99
54		Diethylphthalate	1.300	1.283	1.3	102
55		4-Chlorophenyl-phenylether	0.587	0.585	0.3	100

0472

Continuing Calibration Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 15 10:20:29 2011
Response Via : Initial Calibration

CC Data File: D05498.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
56	S	Fluorene-d10	1.197	1.169	2.3	99
57		Fluorene	1.318	1.292	2.0	100
58		4-Nitroaniline	0.280	0.288	-2.9	105
59		Phenanthrene-d10	1.000	1.000	0.0	112
60	S	4,6-Dinitro-2-methylphenol-d2	0.064	0.076	-19.5	145
61		4,6-Dinitro-2-methylphenol	0.067	0.075	-11.6	140
62		N-Nitrosodiphenylamine	0.587	0.540	8.1	100
63		4-Bromophenyl-phenylether	0.188	0.172	8.7	99
64		Hexachlorobenzene	0.204	0.195	4.4	104
65		Atrazine	0.028	0.025	12.4	96
66		Pentachlorophenol	0.068	0.056	17.9	121
67		Phenanthrene	1.016	0.961	5.4	103
68	S	Anthracene-d10	1.073	0.960	10.5	101
69		Anthracene	1.085	1.025	5.5	104
70		Carbazole	0.952	0.882	7.3	105
71		Di-n-butylphthalate	1.195	1.162	2.7	108
72		Fluoranthene	1.110	1.039	6.4	106
73		Chrysene-d12	1.000	1.000	0.0	112
74		Butylbenzylphthalate	0.605	0.531	12.3	103
75		bis(2-ethylhexyl)phthalate	0.828	0.711	14.2	101
76		3,3'-Dichlorobenzidine	0.348	0.336	3.4	112
77		Benzo(a)anthracene	1.109	0.943	15.0	99
78		Chrysene	1.074	0.896	16.6	98
79	S	Pyrene-d10	1.153	1.062	7.9	112
80		Pyrene	1.244	1.100	11.6	105
81		Perylene-d12	1.000	1.000	0.0	112
82		Di-n-octylphthalate	1.567	1.355	13.5	104
83		Benzo(b)fluoranthene	1.137	0.993	12.7	104
84		Benzo(k)fluoranthene	1.193	1.047	12.2	103
85	S	Benzo(a)pyrene-d12	0.933	0.878	5.9	109
86		Benzo(a)pyrene	1.078	0.965	10.5	104
87		Dibenzo(a,h)anthracene	0.932	0.819	12.2	100
88		Indeno(1,2,3-cd)pyrene	1.130	0.992	12.2	101
89		Benzo(g,h,i)perylene	0.949	0.837	11.8	102

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05498.D
Acq On : 12/14/11 20:52
Sample : SSTD0208U
Misc : SSTD0208U INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date 12/15/11

Quant Time: Dec 15 09:08:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 19:12:34 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	3116665	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	14635585	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	9229595	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.32	188	17526467	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	16653403	20.0000	ug/L	0.00
81) Perylene-d12	18.98	264	14281041	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.12	99	8841544	19.4179	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 48.54%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	3679905	19.7402	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 49.35%			
7) 2-Chlorophenol-d4	5.25	132	4180837	19.3836	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 48.46%			
12) 4-Methylphenol-d8	6.61	113	4017187	20.4349	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 51.09%			
17) Nitrobenzene-d5	6.85	128	2114243	19.3673	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 48.42%			
20) 2-Nitrophenol-d4	7.57	143	2324069	22.3517	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 55.88%			
24) 2,4-Dichlorophenol-d3	8.15	165	3732614	19.8181	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 49.55%			
27) 4-Chloroaniline-d4	8.66	131	4303086	20.5070	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 51.27%			
41) Acenaphthylene-d8	11.99	160	16500113	19.2803	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 48.20%			
43) Dimethylphthalate-d6	11.95	166	11262258	19.4785	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 48.70%			
49) 4-Nitrophenol-d4	12.75	143	1838923	22.5018	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 56.25%			
56) Fluorene-d10	13.09	176	10787886	19.5342	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 48.84%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	1334750	23.9002	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 59.75%			
68) Anthracene-d10	14.38	188	16824717	17.8957	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 44.74%			
79) Pyrene-d10	15.89	212	17685454	18.4184	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 46.05%#			
85) Benzo(a)pyrene-d12	18.86	264	12532429	18.8104	ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 47.03%			
Target Compounds						Qvalue
2) Benzaldehyde	4.81	77	2943882	21.0018	ug/L	96
4) Phenol	5.15	94	5506976	20.0648	ug/L	96
6) Bis(2-chloroethyl)ether	5.20	93	4178150	19.5178	ug/L	97
8) 2-Chlorophenol	5.28	128	4255643	20.1732	ug/L	97
9) 2-Methylphenol	6.34	108	3998179	20.4505	ug/L	99
10) 2,2'-Oxybis(1-chloropropan	6.30	45	11110142	19.4477	ug/L	99
11) Acetophenone	6.53	105	5847827	20.1334	ug/L	97
13) 4-Methylphenol	6.68	108	4043042	19.2852	ug/L	99
14) N-Nitroso-di-n-propylamine	6.60	70	3624247	20.1707	ug/L	99
15) Hexachloroethane	6.63	117	2013637	19.1688	ug/L	99
18) Nitrobenzene	6.88	77	4861405	18.7031	ug/L #	85
19) Isophorone	7.39	82	9089625	19.0934	ug/L	99
21) 2-Nitrophenol	7.60	139	2518263	21.8291	ug/L	98
22) 2,4-Dimethylphenol	7.81	107	4466459	20.7817	ug/L	93

GA7A

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05498.D
Acq On : 12/14/11 20:52 Operator: SV
Sample : SSTD0208U Inst : D-5973
Misc : SSTD0208U INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 15 09:08:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 19:12:34 2011
Response via : Initial Calibration

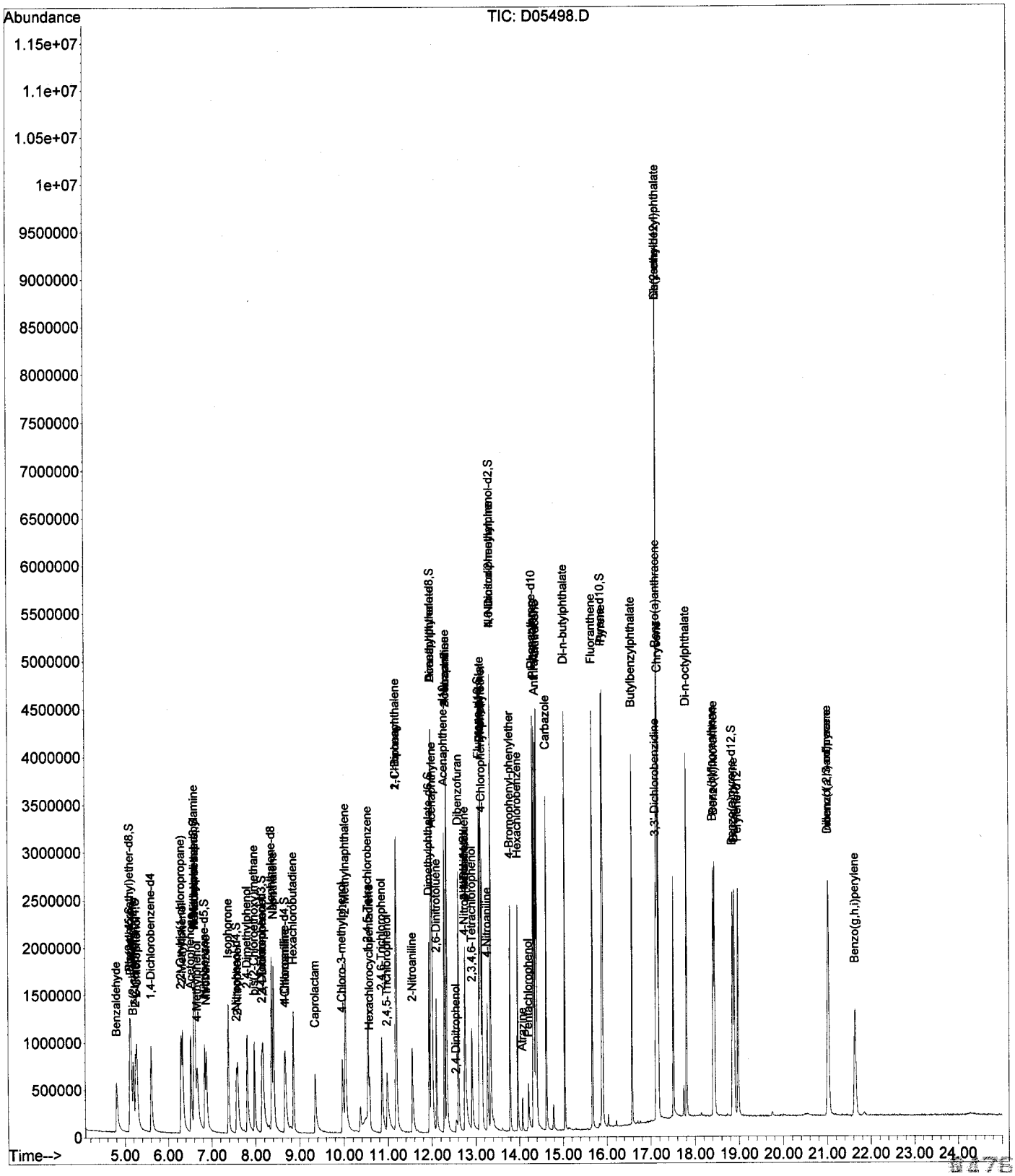
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.98	93	5499082	19.0374	ug/L		99
25) 2,4-Dichlorophenol	8.17	162	3714305	20.0659	ug/L		97
26) Naphthalene	8.41	128	13765732	19.2097	ug/L		100
28) 4-Chloroaniline	8.68	127	3924194	20.9287	ug/L		99
29) Hexachlorobutadiene	8.86	225	2368318	19.8352	ug/L		99
30) Caprolactam	9.36	113	1418461	20.3232	ug/L	#	20
31) 4-Chloro-3-methylphenol	9.97	107	3861679	20.4896	ug/L		90
32) 2-Methylnaphthalene	10.04	142	10341074	19.6090	ug/L		97
34) Hexachlorocyclopentadiene	10.59	237	898991	29.1279	ug/L		99
35) 2,4,6-Trichlorophenol	10.86	196	2744258	20.5191	ug/L		99
36) 2,4,5-Trichlorophenol	10.98	196	3064671	19.8163	ug/L		94
37) 2,3,4,6-Tetrachlorophenol	12.92	232	2121778	21.2507	ug/L		99
38) 1,1'-Biphenyl	11.20	154	12224773	18.9876	UG/l		99
39) 2-Chloronaphthalene	11.18	162	9610606	19.1213	ug/L		99
40) 2-Nitroaniline	11.56	65	3184702	20.8184	ug/L		98
42) Acenaphthylene	12.02	152	15223886	19.1884	ug/L		99
44) Dimethylphthalate	11.99	163	11304370	19.3405	ug/L		99
45) 3-Nitroaniline	12.34	138	2734380	20.6815	ug/L		99
46) Acenaphthene	12.34	153	10134114	18.8924	ug/L		99
47) 2,4-Dinitrophenol	12.56	184	529237	27.0214	ug/L		86
48) Dibenzofuran	12.61	168	13677324	19.6736	ug/L		100
50) 4-Nitrophenol	12.76	109	1182925	22.3316	ug/L		97
51) 2,6-Dinitrotoluene	12.11	165	2381268	22.5595	ug/L	#	93
52) 2,4-Dinitrotoluene	12.76	165	3158472	22.0767	ug/L	#	90
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	4174068	19.1557	ug/L		98
54) Diethylphthalate	13.11	149	11841811	19.7406	ug/L		99
55) 4-Chlorophenyl-phenylether	13.15	204	5401337	19.9474	ug/L		99
57) Fluorene	13.13	166	11920820	19.6048	ug/L		99
58) 4-Nitroaniline	13.27	138	2659979	20.5837	ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	1312208	22.3110	ug/L		93
62) N-Nitrosodiphenylamine	13.35	169	9461093	18.3787	ug/L		97
63) 4-Bromophenyl-phenylether	13.79	248	3013115	18.2573	ug/L		99
64) Hexachlorobenzene	13.97	284	3422567	19.1145	ug/L		98
65) Atrazine	14.08	200	434930	17.5295	ug/L		96
66) Pentachlorophenol	14.22	266	976887	16.4282	ug/L		92
67) Phenanthrene	14.35	178	16847526	18.9134	ug/L		99
69) Anthracene	14.40	178	17967692	18.9012	ug/L		98
70) Carbazole	14.62	167	15461271	18.5336	ug/L		100
71) Di-n-butylphthalate	15.05	149	20371400	19.4571	ug/L		96
72) Fluoranthene	15.68	202	18208592	18.7249	ug/L		97
74) Butylbenzylphthalate	16.58	149	8834821	17.5380	ug/L		98
75) bis(2-ethylhexyl)phthalate	17.16	149	11832448	17.1553	ug/L		99
76) 3,3'-Dichlorobenzidine	17.12	252	5595505	19.3162	ug/L		99
77) Benzo(a)anthracene	17.14	228	15703962	17.0085	ug/L		99
78) Chrysene	17.18	228	14923199	16.6848	ug/L		99
80) Pyrene	15.91	202	18314756	17.6881	ug/L		97
82) Di-n-octylphthalate	17.81	149	19350000	17.2950	ug/L		100
83) Benzo(b)fluoranthene	18.42	252	14174229	17.4608	ug/L		99
84) Benzo(k)fluoranthene	18.45	252	14950977	17.5542	ug/L		99
86) Benzo(a)pyrene	18.90	252	13779321	17.8997	ug/L		98
87) Dibenzo(a,h)anthracene	21.03	278	11692702	17.5616	ug/L		99
88) Indeno(1,2,3-cd)pyrene	21.02	276	14168680	17.5597	ug/L	#	95
89) Benzo(g,h,i)perylene	21.64	276	11946435	17.6334	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05498.D
Acq On : 12/14/11 20:52 Operator: SV
Sample : SSTD0208U Inst : D-5973
Misc : SSTD0208U INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 15 09:08:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 14 19:12:34 2011
Response via : Initial Calibration



7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/15/2011 Time: 1033

Lab File ID: D05500 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208V Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.8992	0.8160	0.010	-9.3	40.0
Phenol	1.7612	1.6370	0.800	-7.1	25.0
Bis(2-chloroethyl)ether	1.3738	1.3180	0.700	-4.1	25.0
2-Chlorophenol	1.3538	1.3060	0.800	-3.5	25.0
2-Methylphenol	1.2546	1.1430	0.700	-8.9	25.0
2,2'-Oxybis(1-chloropropane)	3.6660	3.3700	0.010	-8.1	40.0
Acetophenone	1.8636	1.6690	0.010	-10.4	40.0
4-Methylphenol	1.3456	1.1800	0.600	-12.3	25.0
N-Nitroso-di-n-propylamine	1.1530	1.0620	0.500	-7.9	25.0
Hexachloroethane	0.6742	0.6010	0.300	-10.9	25.0
Nitrobenzene	0.3552	0.3180	0.200	-10.5	25.0
Isophorone	0.6506	0.5940	0.400	-8.7	25.0
2-Nitrophenol	0.1578	0.1610	0.100	2.0	25.0
2,4-Dimethylphenol	0.2938	0.2930	0.200	-0.3	25.0
Bis(2-chloroethoxy)methane	0.3948	0.3630	0.300	-8.1	25.0
2,4-Dichlorophenol	0.2528	0.2310	0.200	-8.6	25.0
Naphthalene	0.9792	0.9170	0.700	-6.4	25.0
4-Chloroaniline	0.2562	0.2350	0.010	-8.3	40.0
Hexachlorobutadiene	0.1630	0.1560	0.010	-4.3	40.0
Caprolactam	0.0956	0.0910	0.010	-4.8	40.0
4-Chloro-3-methylphenol	0.2574	0.2410	0.200	-6.4	25.0
2-Methylnaphthalene	0.7206	0.6920	0.400	-4.0	25.0
Hexachlorocyclopentadiene	0.0670	0.0570	0.010	-14.9	40.0
2,4,6-Trichlorophenol	0.2898	0.2830	0.200	-2.3	25.0
2,4,5-Trichlorophenol	0.3350	0.3170	0.200	-5.4	25.0
1,1'-Biphenyl	1.3954	1.2950	0.010	-7.2	40.0
2-Chloronaphthalene	1.0892	1.0030	0.800	-7.9	25.0
2-Nitroaniline	0.3315	0.3210	0.010	-3.2	40.0
Dimethylphthalate	1.2668	1.1870	0.010	-6.3	40.0
2,6-Dinitrotoluene	0.2288	0.2470	0.200	8.0	25.0
Acenaphthylene	1.7194	1.5860	0.900	-7.8	25.0
3-Nitroaniline	0.2863	0.2770	0.010	-3.2	40.0
Acenaphthene	1.1624	1.0650	0.900	-8.4	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/15/2011 Time: 1033

Lab File ID: D05500 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208V Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.0425	0.0540	0.010	27.1	40.0
4-Nitrophenol	0.1148	0.1020	0.010	-11.1	40.0
Dibenzofuran	1.5064	1.4330	0.800	-4.9	25.0
2,4-Dinitrotoluene	0.3102	0.3640	0.200	17.3	25.0
Diethylphthalate	1.3000	1.2180	0.010	-6.3	40.0
Fluorene	1.3176	1.2290	0.900	-6.7	25.0
4-Chlorophenyl-phenylether	0.5868	0.5510	0.400	-6.1	25.0
4-Nitroaniline	0.2800	0.2760	0.010	-1.4	40.0
4,6-Dinitro-2-methylphenol	0.0673	0.0670	0.010	-0.4	40.0
N-Nitrosodiphenylamine 1	0.5878	0.5410	0.010	-8.0	40.0
1,2,4,5-Tetrachlorobenzene	0.4722	0.4480	0.010	-5.1	40.0
4-Bromophenyl-phenylether	0.1884	0.1790	0.100	-5.0	25.0
Hexachlorobenzene	0.2044	0.1930	0.100	-5.6	25.0
Atrazine	0.0284	0.0220	0.010	-22.5	40.0
Pentachlorophenol	0.0680	0.0580	0.050	-14.7	25.0
Phenanthrene	1.0162	0.9620	0.700	-5.3	25.0
Anthracene	1.0846	1.0240	0.700	-5.6	25.0
Carbazole	0.9518	0.8870	0.010	-6.8	40.0
Di-n-butylphthalate	1.1946	1.1550	0.010	-3.3	40.0
Fluoranthene	1.1096	1.0410	0.600	-6.2	25.0
Pyrene	1.2436	1.1420	0.600	-8.2	25.0
Butylbenzylphthalate	0.6050	0.5270	0.010	-12.9	40.0
3,3'-Dichlorobenzidine	0.3476	0.3400	0.010	-2.2	40.0
Benzo(a)anthracene	1.1088	0.9580	0.800	-13.6	25.0
Chrysene	1.0740	0.9030	0.700	-15.9	25.0
Bis(2-ethylhexyl)phthalate	0.8282	0.7070	0.010	-14.6	40.0
Di-n-octylphthalate	1.5670	1.3360	0.010	-14.7	40.0
Benzo(b)fluoranthene	1.1368	0.9710	0.700	-14.6	25.0
Benzo(k)fluoranthene	1.1928	1.0810	0.700	-9.4	25.0
Benzo(a)pyrene	1.0782	0.9670	0.700	-10.3	25.0
Indeno(1,2,3-cd)pyrene	1.1300	0.9820	0.500	-13.1	25.0
Dibenzo(a,h)anthracene	0.9324	0.8120	0.400	-12.9	25.0
Benzo(g,h,i)perylene	0.9486	0.8260	0.500	-12.9	25.0
2,3,4,6-Tetrachlorophenol	0.2164	0.2150	0.100	-0.6	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/15/2011 Time: 1033

Lab File ID: D05500 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208V Init. Calib Times: 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	2.9220	2.6910	0.010	-7.9	25.0
Bis(2-chloroethyl)ether-d8	1.1960	1.0780	0.010	-9.9	25.0
2-Chlorophenol-d4	1.3842	1.2720	0.010	-8.1	25.0
4-Methylphenol-d8	1.2616	1.1490	0.010	-8.9	25.0
Nitrobenzene-d5	0.1492	0.1360	0.010	-8.8	25.0
2-Nitrophenol-d4	0.1422	0.1520	0.010	6.9	25.0
2,4-Dichlorophenol-d3	0.2574	0.2240	0.010	-13.0	25.0
4-Chloroaniline-d4	0.2866	0.2620	0.010	-8.6	40.0
Dimethylphthalate-d6	1.2528	1.1670	0.010	-6.8	40.0
Acenaphthylene-d8	1.8546	1.7020	0.010	-8.2	25.0
4-Nitrophenol-d4	0.1768	0.1740	0.010	-1.6	40.0
Fluorene-d10	1.1966	1.1130	0.010	-7.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.0638	0.0650	0.010	1.9	40.0
Anthracene-d10	1.0728	0.9550	0.010	-11.0	25.0
Pyrene-d10	1.1532	1.0600	0.010	-8.1	25.0
Benzo(a)pyrene-d12	0.9330	0.8610	0.010	-7.7	25.0

Continuing Calibration Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Mon Dec 19 10:41:59 2011
Response Via : Initial Calibration

CC Data File: D05500.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83
2		Benzaldehyde	0.900	0.816	9.2	67
3	S	Phenol-d5	2.922	2.691	7.9	75
4		Phenol	1.761	1.637	7.0	73
5	S	Bis(2-chloroethyl)ether-d8	1.196	1.078	9.9	74
6		Bis(2-chloroethyl)ether	1.374	1.318	4.1	75
7	S	2-Chlorophenol-d4	1.384	1.272	8.1	74
8		2-Chlorophenol	1.354	1.306	3.5	76
9		2-Methylphenol	1.255	1.143	8.9	72
10		2,2'-Oxybis(1-chloropropane)	3.666	3.370	8.1	75
11		Acetophenone	1.864	1.669	10.5	71
12	S	4-Methylphenol-d8	1.262	1.149	8.9	72
13		4-Methylphenol	1.345	1.180	12.3	72
14		N-Nitroso-di-n-propylamine	1.153	1.062	7.9	73
15		Hexachloroethane	0.674	0.601	10.8	73
16		Naphthalene-d8	1.000	1.000	0.0	83
17	S	Nitrobenzene-d5	0.149	0.136	8.7	74
18		Nitrobenzene	0.355	0.318	10.5	69
19		Isophorone	0.651	0.594	8.7	74
20	S	2-Nitrophenol-d4	0.142	0.152	-6.7	80
21		2-Nitrophenol	0.158	0.161	-2.0	77
22		2,4-Dimethylphenol	0.294	0.293	0.3	83
23		bis(2-Chloroethoxy)methane	0.395	0.363	8.2	73
24	S	2,4-Dichlorophenol-d3	0.257	0.224	13.2	71
25		2,4-Dichlorophenol	0.253	0.231	8.7	75
26		Naphthalene	0.979	0.917	6.3	76
27	S	4-Chloroaniline-d4	0.287	0.262	8.7	70
28		4-Chloroaniline	0.256	0.235	8.2	68
29		Hexachlorobutadiene	0.163	0.156	4.1	79
30		Caprolactam	0.095	0.091	4.8	77
31		4-Chloro-3-methylphenol	0.258	0.241	6.3	70
32		2-Methylnaphthalene	0.721	0.692	4.0	78
33		Acenaphthene-d10	1.000	1.000	0.0	83
34		Hexachlorocyclopentadiene	0.067	0.057	14.3	92
35		2,4,6-Trichlorophenol	0.290	0.283	2.2	78
36		2,4,5-Trichlorophenol	0.335	0.317	5.4	76
37		2,3,4,6-Tetrachlorophenol	0.216	0.215	0.5	82
38		1,1'-Biphenyl	1.395	1.295	7.2	76
39		2-Chloronaphthalene	1.089	1.003	7.9	76
40		2-Nitroaniline	0.331	0.321	3.0	80
41	S	Acenaphthylene-d8	1.854	1.702	8.2	76
42		Acenaphthylene	1.719	1.586	7.8	76
43	S	Dimethylphthalate-d6	1.253	1.167	6.8	77
44		Dimethylphthalate	1.267	1.187	6.3	78
45		3-Nitroaniline	0.286	0.277	3.3	83
46		Acenaphthene	1.162	1.065	8.4	76
47		2,4-Dinitrophenol	0.042	0.054	-28.2#	107
48		Dibenzofuran	1.506	1.433	4.9	77
49	S	4-Nitrophenol-d4	0.177	0.174	1.8	91
50		4-Nitrophenol	0.115	0.102	11.0	78
51		2,6-Dinitrotoluene	0.229	0.247	-8.2	85
52		2,4-Dinitrotoluene	0.310	0.364	-17.4	94
53		1,2,4,5-Tetrachlorobenzene	0.472	0.448	5.2	79
54		Diethylphthalate	1.300	1.218	6.3	78
55		4-Chlorophenyl-phenylether	0.587	0.551	6.0	76

Continuing Calibration Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Mon Dec 19 10:41:59 2011
Response Via : Initial Calibration

CC Data File: D05500.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
56	S	Fluorene-d10	1.197	1.113	7.0	76
57		Fluorene	1.318	1.229	6.7	77
58		4-Nitroaniline	0.280	0.276	1.3	82
59		Phenanthrene-d10	1.000	1.000	0.0	87
60	S	4,6-Dinitro-2-methylphenol-d2	0.064	0.065	-1.7	96
61		4,6-Dinitro-2-methylphenol	0.067	0.067	-0.3	98
62		N-Nitrosodiphenylamine	0.587	0.541	7.9	77
63		4-Bromophenyl-phenylether	0.188	0.179	5.0	80
64		Hexachlorobenzene	0.204	0.193	5.5	80
65		Atrazine	0.028	0.022	22.9	66
66		Pentachlorophenol	0.068	0.058	14.9	97
67		Phenanthrene	1.016	0.962	5.4	80
68	S	Anthracene-d10	1.073	0.955	10.9	78
69		Anthracene	1.085	1.024	5.6	80
70		Carbazole	0.952	0.887	6.8	82
71		Di-n-butylphthalate	1.195	1.155	3.3	84
72		Fluoranthene	1.110	1.041	6.2	83
73		Chrysene-d12	1.000	1.000	0.0	85
74		Butylbenzylphthalate	0.605	0.527	12.9	78
75		bis(2-ethylhexyl)phthalate	0.828	0.707	14.7	77
76		3,3'-Dichlorobenzidine	0.348	0.340	2.2	86
77		Benzo(a)anthracene	1.109	0.958	13.6	77
78		Chrysene	1.074	0.903	15.9	75
79	S	Pyrene-d10	1.153	1.060	8.1	85
80		Pyrene	1.244	1.142	8.1	83
81		Perylene-d12	1.000	1.000	0.0	86
82		Di-n-octylphthalate	1.567	1.336	14.7	79
83		Benzo(b)fluoranthene	1.137	0.971	14.6	78
84		Benzo(k)fluoranthene	1.193	1.081	9.3	82
85	S	Benzo(a)pyrene-d12	0.933	0.861	7.7	83
86		Benzo(a)pyrene	1.078	0.967	10.3	80
87		Dibenzo(a,h)anthracene	0.932	0.812	12.9	77
88		Indeno(1,2,3-cd)pyrene	1.130	0.982	13.1	77
89		Benzo(g,h,i)perylene	0.949	0.826	12.9	77

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05500.D
Acq On : 12/15/11 10:33
Sample : SSTD0208V
Misc : SSTD0208V INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG FGXPO
Episode S-4460 Init/date 12/19/11

Quant Time: Dec 19 10:41:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 09:08:36 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2695886	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	12089776	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	7475948	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	13582454	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	12642118	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	11012667	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	7255460	18.4217 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 46.05%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	2907137	18.0289 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 45.07%		
7) 2-Chlorophenol-d4	5.25	132	3429070	18.3796 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 45.95%		
12) 4-Methylphenol-d8	6.61	113	3096982	18.2129 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 45.53%		
17) Nitrobenzene-d5	6.85	128	1645962	18.2526 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 45.63%		
20) 2-Nitrophenol-d4	7.57	143	1832450	21.3347 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 53.34%		
24) 2,4-Dichlorophenol-d3	8.15	165	2702084	17.3676 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 43.42%		
27) 4-Chloroaniline-d4	8.66	131	3163972	18.2535 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 45.63%		
41) Acenaphthylene-d8	11.99	160	12726573	18.3593 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 45.90%		
43) Dimethylphthalate-d6	11.94	166	8727970	18.6363 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 46.59%#		
49) 4-Nitrophenol-d4	12.75	143	1300042	19.6394 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 49.10%		
56) Fluorene-d10	13.08	176	8317284	18.5934 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 46.48%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	880028	20.3336 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 50.83%		
68) Anthracene-d10	14.38	188	12976814	17.8109 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 44.53%		
79) Pyrene-d10	15.89	212	13403359	18.3880 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 45.97%#		
85) Benzo(a)pyrene-d12	18.86	264	9484893	18.4613 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 46.15%		
Target Compounds					Qvalue
2) Benzaldehyde	4.81	77	2200911	18.1521 ug/L	98
4) Phenol	5.15	94	4413882	18.5923 ug/L	95
6) Bis(2-chloroethyl)ether	5.20	93	3552540	19.1856 ug/L	93
8) 2-Chlorophenol	5.28	128	3521887	19.3007 ug/L	99
9) 2-Methylphenol	6.33	108	3081946	18.2245 ug/L	95
10) 2,2'-Oxybis(1-chloropropan	6.30	45	9086340	18.3877 ug/L #	59
11) Acetophenone	6.53	105	4499249	17.9082 ug/L	97
13) 4-Methylphenol	6.68	108	3180279	17.5375 ug/L	100
14) N-Nitroso-di-n-propylamine	6.60	70	2863693	18.4254 ug/L	98
15) Hexachloroethane	6.63	117	1621113	17.8409 ug/L	98
18) Nitrobenzene	6.88	77	3841502	17.8914 ug/L #	87
19) Isophorone	7.38	82	7182908	18.2655 ug/L	98
21) 2-Nitrophenol	7.60	139	1944632	20.4063 ug/L	98
22) 2,4-Dimethylphenol	7.81	107	3539242	19.9351 ug/L	96

8462

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05500.D
Acq On : 12/15/11 10:33 Operator: SV
Sample : SSTD0208V Inst : D-5973
Misc : SSTD0208V INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 10:41:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 09:08:36 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.98	93	4383192	18.3696	ug/L		100
25) 2,4-Dichlorophenol	8.17	162	2791396	18.2555	ug/L		95
26) Naphthalene	8.41	128	11090870	18.7360	ug/L		99
28) 4-Chloroaniline	8.69	127	2842405	18.3514	ug/L		97
29) Hexachlorobutadiene	8.86	225	1891222	19.1748	ug/L		99
30) Caprolactam	9.35	113	1097551	19.0367	ug/L	#	33
31) 4-Chloro-3-methylphenol	9.97	107	2916463	18.7329	ug/L		86
32) 2-Methylnaphthalene	10.04	142	8364166	19.2001	ug/L		95
34) Hexachlorocyclopentadiene	10.59	237	428371	17.1353	ug/L		95
35) 2,4,6-Trichlorophenol	10.86	196	2118893	19.5596	ug/L		97
36) 2,4,5-Trichlorophenol	10.98	196	2370854	18.9261	ug/L		94
37) 2,3,4,6-Tetrachlorophenol	12.92	232	1610163	19.9095	ug/L		97
38) 1,1'-Biphenyl	11.19	154	9679967	18.5618	UG/l		98
39) 2-Chloronaphthalene	11.18	162	7499470	18.4211	ug/L		99
40) 2-Nitroaniline	11.56	65	2403422	19.3966	ug/L		99
42) Acenaphthylene	12.01	152	11854524	18.4465	ug/L		99
44) Dimethylphthalate	11.98	163	8870902	18.7373	ug/L		100
45) 3-Nitroaniline	12.34	138	2071325	19.3414	ug/L		96
46) Acenaphthene	12.34	153	7960361	18.3210	ug/L		98
47) 2,4-Dinitrophenol	12.56	184	406774m	25.6405	ug/L		
48) Dibenzofuran	12.61	168	10711105	19.0210	ug/L		100
50) 4-Nitrophenol	12.76	109	763844	17.8026	ug/L		89
51) 2,6-Dinitrotoluene	12.11	165	1849771	21.6349	ug/L	#	95
52) 2,4-Dinitrotoluene	12.76	165	2721792	23.4871	ug/L	#	99
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	3347954	18.9686	ug/L		100
54) Diethylphthalate	13.11	149	9107711	18.7442	ug/L		98
55) 4-Chlorophenyl-phenylether	13.15	204	4121356	18.7906	ug/L		98
57) Fluorene	13.12	166	9185736	18.6504	ug/L		100
58) 4-Nitroaniline	13.27	138	2066609	19.7433	ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	913897	20.0507	ug/L	#	84
62) N-Nitrosodiphenylamine	13.34	169	7349451	18.4223	ug/L		99
63) 4-Bromophenyl-phenylether	13.79	248	2429865	18.9985	ug/L		99
64) Hexachlorobenzene	13.97	284	2622655	18.9003	ug/L		100
65) Atrazine	14.08	200	296324	15.4111	ug/L		99
66) Pentachlorophenol	14.22	266	783962	17.0121	ug/L	#	86
67) Phenanthrene	14.35	178	13061217	18.9205	ug/L		99
69) Anthracene	14.40	178	13913185	18.8859	ug/L		97
70) Carbazole	14.62	167	12049116	18.6374	ug/L		99
71) Di-n-butylphthalate	15.05	149	15688674	19.3357	ug/L		96
72) Fluoranthene	15.67	202	14140370	18.7638	ug/L		96
74) Butylbenzylphthalate	16.58	149	6664881	17.4285	ug/L		100
75) bis(2-ethylhexyl)phthalate	17.15	149	8932995	17.0610	ug/L		98
76) 3,3'-Dichlorobenzidine	17.12	252	4301615	19.5613	ug/L		100
77) Benzo(a)anthracene	17.14	228	12113440	17.2825	ug/L		99
78) Chrysene	17.18	228	11421991	16.8222	ug/L		99
80) Pyrene	15.91	202	14442913	18.3746	ug/L		97
82) Di-n-octylphthalate	17.81	149	14710210	17.0501	ug/L		100
83) Benzo(b)fluoranthene	18.42	252	10690464	17.0777	ug/L		99
84) Benzo(k)fluoranthene	18.45	252	11908077	18.1310	ug/L		99
86) Benzo(a)pyrene	18.89	252	10650056	17.9407	ug/L		99
87) Dibenzo(a,h)anthracene	21.02	278	8945238	17.4224	ug/L		99
88) Indeno(1,2,3-cd)pyrene	21.02	276	10815689	17.3824	ug/L	#	97
89) Benzo(g,h,i)perylene	21.64	276	9097491	17.4135	ug/L		98

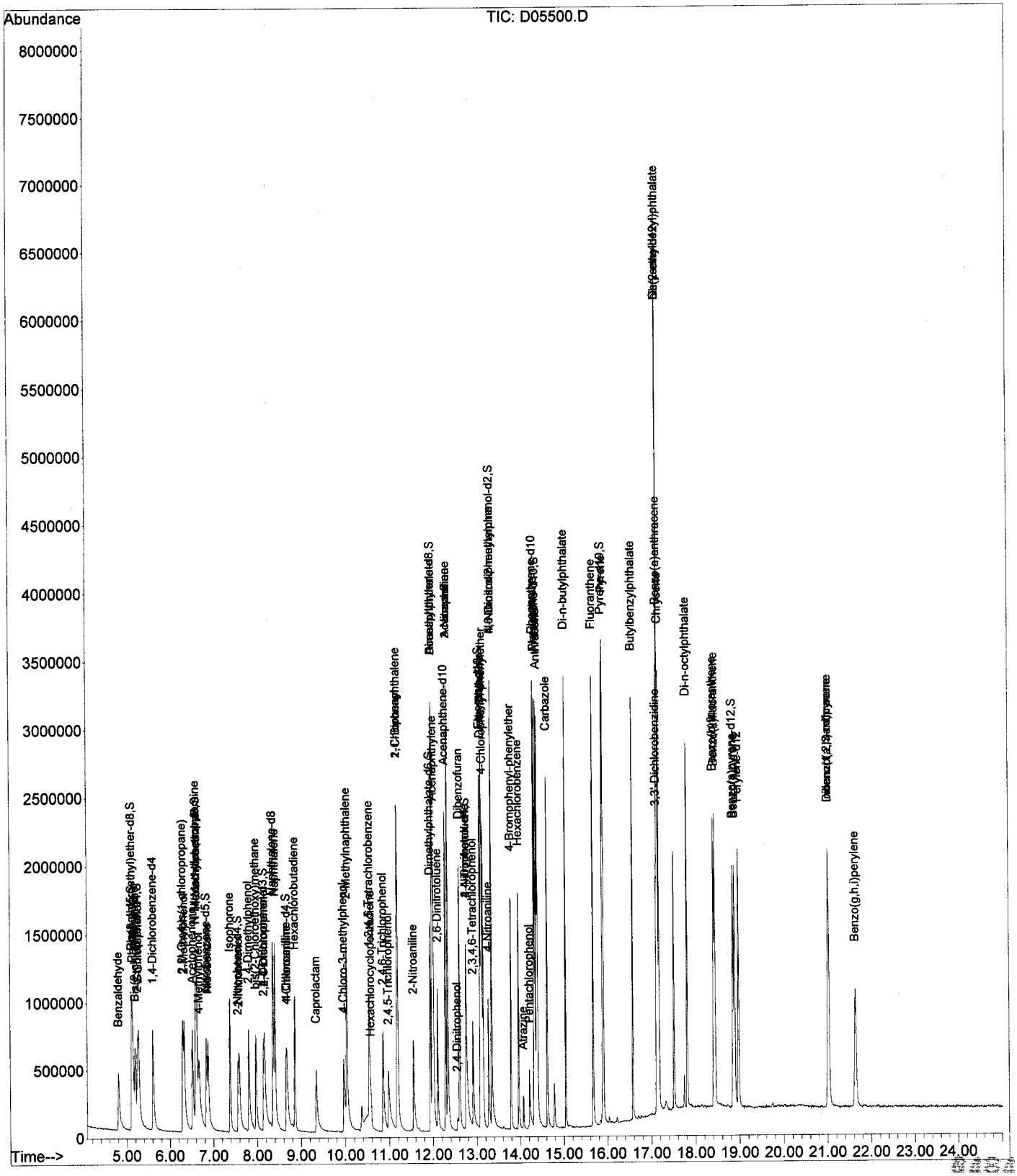
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0463

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05500.D
Acq On : 12/15/11 10:33 Operator: SV
Sample : SSTD0208V Inst : D-5973
Misc : SSTD0208V INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 10:41:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 09:08:36 2011
Response via : Initial Calibration

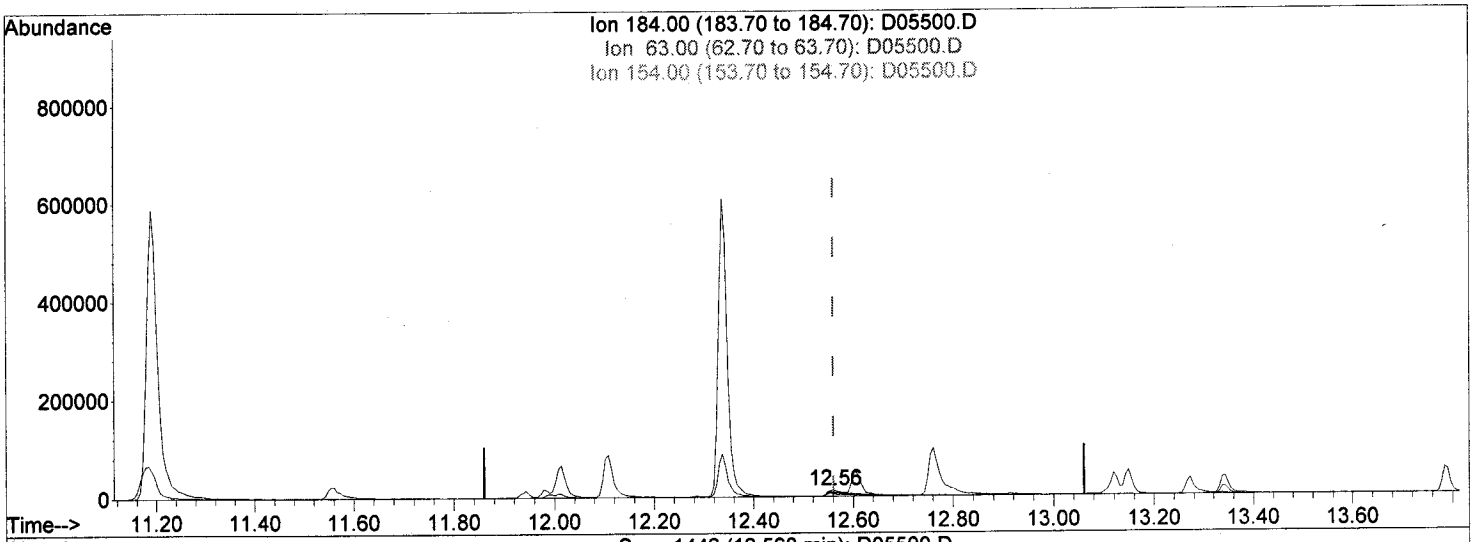


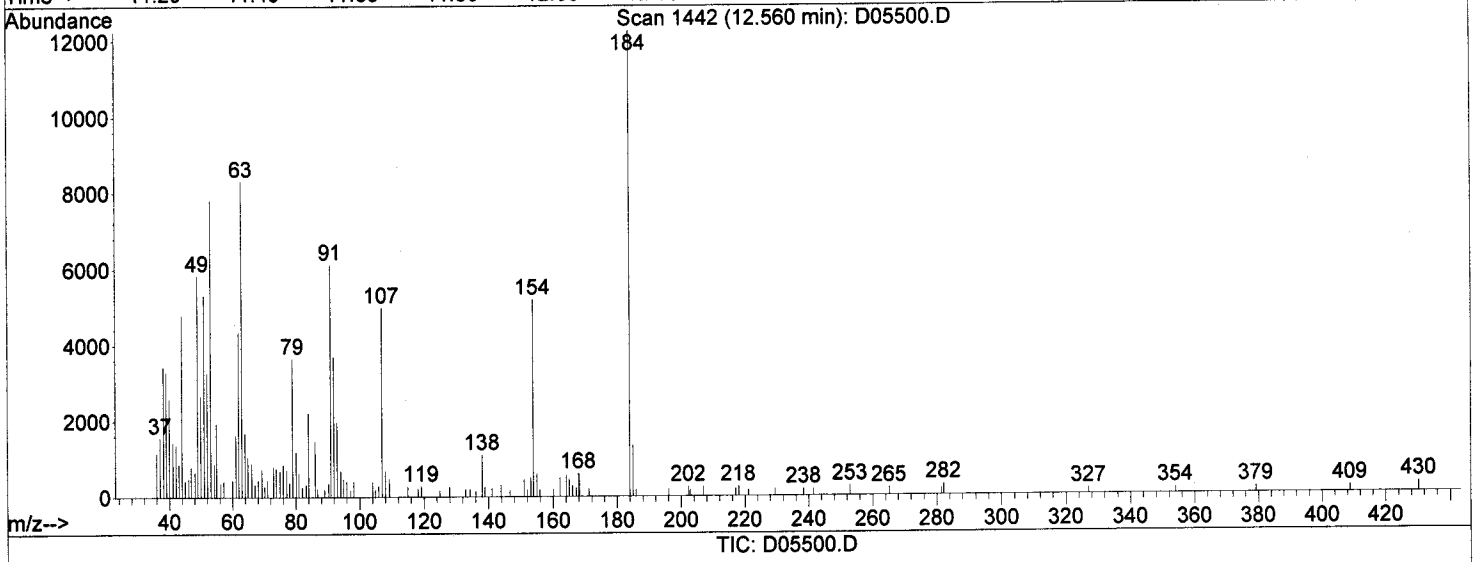
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05500.D
Acq On : 12/15/11 10:33 Operator: SV
Sample : SSTD0208V Inst : D-5973
Misc : SSTD0208V INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 10:41:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 09:08:36 2011
Response via : Initial Calibration

12/19/11





TIC: D05500.D

(47) 2,4-Dinitrophenol

12.560min (-0.000) 25.6405ug/L m

response 406774

Ion	Exp%	Act%
184.00	100	100
63.00	62.00	38.25#
154.00	52.60	29.39#
0.00	0.00	0.00

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/15/2011 Time: 1825

Lab File ID: D05513 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208W Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.8992	1.0270	0.010	14.2	50.0
Phenol	1.7612	1.8980	0.010	7.8	50.0
Bis(2-chloroethyl)ether	1.3738	1.4020	0.010	2.1	50.0
2-Chlorophenol	1.3538	1.4630	0.010	8.1	50.0
2-Methylphenol	1.2546	1.3380	0.010	6.6	50.0
2,2'-Oxybis(1-chloropropane)	3.6660	3.8690	0.010	5.5	50.0
Acetophenone	1.8636	1.9460	0.010	4.4	50.0
4-Methylphenol	1.3456	1.3700	0.010	1.8	50.0
N-Nitroso-di-n-propylamine	1.1530	1.2520	0.010	8.6	50.0
Hexachloroethane	0.6742	0.6600	0.010	-2.1	50.0
Nitrobenzene	0.3552	0.3550	0.010	-0.1	50.0
Isophorone	0.6506	0.6700	0.010	3.0	50.0
2-Nitrophenol	0.1578	0.1870	0.010	18.5	50.0
2,4-Dimethylphenol	0.2938	0.3310	0.010	12.7	50.0
Bis(2-chloroethoxy)methane	0.3948	0.4110	0.010	4.1	50.0
2,4-Dichlorophenol	0.2528	0.2800	0.010	10.8	50.0
Naphthalene	0.9792	1.0360	0.010	5.8	50.0
4-Chloroaniline	0.2562	0.2680	0.010	4.6	50.0
Hexachlorobutadiene	0.1630	0.1770	0.010	8.6	50.0
Caprolactam	0.0956	0.1030	0.010	7.7	50.0
4-Chloro-3-methylphenol	0.2574	0.2680	0.010	4.1	50.0
2-Methylnaphthalene	0.7206	0.7760	0.010	7.7	50.0
Hexachlorocyclopentadiene	0.0670	0.0390	0.010	-41.8	50.0
2,4,6-Trichlorophenol	0.2898	0.3310	0.010	14.2	50.0
2,4,5-Trichlorophenol	0.3350	0.3820	0.010	14.0	50.0
1,1'-Biphenyl	1.3954	1.4480	0.010	3.8	50.0
2-Chloronaphthalene	1.0892	1.1510	0.010	5.7	50.0
2-Nitroaniline	0.3315	0.3740	0.010	12.8	50.0
Dimethylphthalate	1.2668	1.3040	0.010	2.9	50.0
2,6-Dinitrotoluene	0.2288	0.2790	0.010	21.9	50.0
Acenaphthylene	1.7194	1.7990	0.010	4.6	50.0
3-Nitroaniline	0.2863	0.3310	0.010	15.6	50.0
Acenaphthene	1.1624	1.1970	0.010	3.0	50.0

BASE

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/15/2011 Time: 1825

Lab File ID: D05513 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208W Init. Calib Time(s): 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.0425	0.0480	0.010	12.9	50.0
4-Nitrophenol	0.1148	0.1470	0.010	28.0	50.0
Dibenzofuran	1.5064	1.5820	0.010	5.0	50.0
2,4-Dinitrotoluene	0.3102	0.3690	0.010	19.0	50.0
Diethylphthalate	1.3000	1.3620	0.010	4.8	50.0
Fluorene	1.3176	1.3730	0.010	4.2	50.0
4-Chlorophenyl-phenylether	0.5868	0.6290	0.010	7.2	50.0
4-Nitroaniline	0.2800	0.3350	0.010	19.6	50.0
4,6-Dinitro-2-methylphenol	0.0673	0.0870	0.010	29.3	50.0
N-Nitrosodiphenylamine 1	0.5878	0.6100	0.010	3.8	50.0
1,2,4,5-Tetrachlorobenzene	0.4722	0.5040	0.010	6.7	50.0
4-Bromophenyl-phenylether	0.1884	0.1960	0.010	4.0	50.0
Hexachlorobenzene	0.2044	0.2180	0.010	6.7	50.0
Atrazine	0.0284	0.0250	0.010	-12.0	50.0
Pentachlorophenol	0.0680	0.0730	0.010	7.4	50.0
Phenanthrene	1.0162	1.0560	0.010	3.9	50.0
Anthracene	1.0846	1.1220	0.010	3.4	50.0
Carbazole	0.9518	1.0080	0.010	5.9	50.0
Di-n-butylphthalate	1.1946	1.2880	0.010	7.8	50.0
Fluoranthene	1.1096	1.1910	0.010	7.3	50.0
Pyrene	1.2436	1.1630	0.010	-6.5	50.0
Butylbenzylphthalate	0.6050	0.5260	0.010	-13.1	50.0
3,3'-Dichlorobenzidine	0.3476	0.3430	0.010	-1.3	50.0
Benzo(a)anthracene	1.1088	0.9590	0.010	-13.5	50.0
Chrysene	1.0740	0.9120	0.010	-15.1	50.0
Bis(2-ethylhexyl)phthalate	0.8282	0.7270	0.010	-12.2	50.0
Di-n-octylphthalate	1.5670	1.3470	0.010	-14.0	50.0
Benzo(b)fluoranthene	1.1368	0.9670	0.010	-14.9	50.0
Benzo(k)fluoranthene	1.1928	1.0440	0.010	-12.5	50.0
Benzo(a)pyrene	1.0782	0.9630	0.010	-10.7	50.0
Indeno(1,2,3-cd)pyrene	1.1300	0.9940	0.010	-12.0	50.0
Dibenzo(a,h)anthracene	0.9324	0.8230	0.010	-11.7	50.0
Benzo(g,h,i)perylene	0.9486	0.8360	0.010	-11.9	50.0
2,3,4,6-Tetrachlorophenol	0.2164	0.2710	0.010	25.2	50.0

1 Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: D-5973 Calibration Date: 12/15/2011 Time: 1825

Lab File ID: D05513 Init. Calib Date(s): 12/13/2011 12/13/2011

EPA Sample No.(SSTD020##): SSTD0208W Init. Calib Times: 1217 1712

GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	2.9220	3.0160	0.010	3.2	50.0
Bis(2-chloroethyl)ether-d8	1.1960	1.2380	0.010	3.5	50.0
2-Chlorophenol-d4	1.3842	1.4670	0.010	6.0	50.0
4-Methylphenol-d8	1.2616	1.4040	0.010	11.3	50.0
Nitrobenzene-d5	0.1492	0.1670	0.010	11.9	50.0
2-Nitrophenol-d4	0.1422	0.1700	0.010	19.5	50.0
2,4-Dichlorophenol-d3	0.2574	0.2810	0.010	9.2	50.0
4-Chloroaniline-d4	0.2866	0.2880	0.010	0.5	50.0
Dimethylphthalate-d6	1.2528	1.3110	0.010	4.6	50.0
Acenaphthylene-d8	1.8546	1.9070	0.010	2.8	50.0
4-Nitrophenol-d4	0.1768	0.2410	0.010	36.3	50.0
Fluorene-d10	1.1966	1.2800	0.010	7.0	50.0
4,6-Dinitro-2-methylphenol-d2	0.0638	0.0890	0.010	39.5	50.0
Anthracene-d10	1.0728	1.0660	0.010	-0.6	50.0
Pyrene-d10	1.1532	1.0650	0.010	-7.6	50.0
Benzo(a)pyrene-d12	0.9330	1.0200	0.010	9.3	50.0

Continuing Calibration Report D-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Mon Dec 19 11:05:15 2011
Response Via : Initial Calibration

CC Data File: D05513.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	70
2		Benzaldehyde	0.900	1.027	-14.2	70
3	S	Phenol-d5	2.922	3.016	-3.2	70
4		Phenol	1.761	1.898	-7.8	71
5	S	Bis(2-chloroethyl)ether-d8	1.196	1.238	-3.5	71
6		Bis(2-chloroethyl)ether	1.374	1.402	-2.0	66
7	S	2-Chlorophenol-d4	1.384	1.467	-6.0	71
8		2-Chlorophenol	1.354	1.463	-8.1	71
9		2-Methylphenol	1.255	1.338	-6.6	70
10		2,2'-Oxybis(1-chloropropane)	3.666	3.869	-5.5	72
11		Acetophenone	1.864	1.946	-4.4	69
12	S	4-Methylphenol-d8	1.262	1.404	-11.3	73
13		4-Methylphenol	1.345	1.370	-1.8	69
14		N-Nitroso-di-n-propylamine	1.153	1.252	-8.6	72
15		Hexachloroethane	0.674	0.660	2.1	66
16		Naphthalene-d8	1.000	1.000	0.0	72
17	S	Nitrobenzene-d5	0.149	0.167	-12.3	80
18		Nitrobenzene	0.355	0.355	0.1	67
19		Isophorone	0.651	0.670	-3.0	73
20	S	2-Nitrophenol-d4	0.142	0.170	-19.4	78
21		2-Nitrophenol	0.158	0.187	-18.4	78
22		2,4-Dimethylphenol	0.294	0.331	-12.8	82
23		bis(2-Chloroethoxy)methane	0.395	0.411	-4.0	72
24	S	2,4-Dichlorophenol-d3	0.257	0.281	-9.3	78
25		2,4-Dichlorophenol	0.253	0.280	-10.8	79
26		Naphthalene	0.979	1.036	-5.8	74
27	S	4-Chloroaniline-d4	0.287	0.288	-0.4	67
28		4-Chloroaniline	0.256	0.268	-4.6	67
29		Hexachlorobutadiene	0.163	0.177	-8.4	78
30		Caprolactam	0.095	0.103	-8.5	76
31		4-Chloro-3-methylphenol	0.258	0.268	-4.0	67
32		2-Methylnaphthalene	0.721	0.776	-7.7	76
33		Acenaphthene-d10	1.000	1.000	0.0	73
34		Hexachlorocyclopentadiene	0.067	0.039	41.1#	55
35		2,4,6-Trichlorophenol	0.290	0.331	-14.1	80
36		2,4,5-Trichlorophenol	0.335	0.382	-14.0	81
37		2,3,4,6-Tetrachlorophenol	0.216	0.271	-25.3#	91
38		1,1'-Biphenyl	1.395	1.448	-3.8	75
39		2-Chloronaphthalene	1.089	1.151	-5.7	77
40		2-Nitroaniline	0.331	0.374	-13.0	82
41	S	Acenaphthylene-d8	1.854	1.907	-2.8	75
42		Acenaphthylene	1.719	1.799	-4.6	76
43	S	Dimethylphthalate-d6	1.253	1.311	-4.6	76
44		Dimethylphthalate	1.267	1.304	-2.9	75
45		3-Nitroaniline	0.286	0.331	-15.5	87
46		Acenaphthene	1.162	1.197	-3.0	76
47		2,4-Dinitrophenol	0.042	0.048	-12.9	83
48		Dibenzofuran	1.506	1.582	-5.0	75
49	S	4-Nitrophenol-d4	0.177	0.241	-35.8#	111
50		4-Nitrophenol	0.115	0.147	-28.0#	99
51		2,6-Dinitrotoluene	0.229	0.279	-21.9	85
52		2,4-Dinitrotoluene	0.310	0.369	-19.0	84
53		1,2,4,5-Tetrachlorobenzene	0.472	0.504	-6.7	78
54		Diethylphthalate	1.300	1.362	-4.7	77
55		4-Chlorophenyl-phenylether	0.587	0.629	-7.1	76

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
Last Update : Mon Dec 19 11:05:15 2011
Response Via : Initial Calibration

CC Data File: D05513.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%
56	S	Fluorene-d10	1.197	1.280	-6.9	77
57		Fluorene	1.318	1.373	-4.2	76
58		4-Nitroaniline	0.280	0.335	-19.5	87
59		Phenanthrene-d10	1.000	1.000	0.0	77
60	S	4,6-Dinitro-2-methylphenol-d2	0.064	0.089	-40.3#	118
61		4,6-Dinitro-2-methylphenol	0.067	0.087	-29.6#	113
62		N-Nitrosodiphenylamine	0.587	0.610	-3.8	78
63		4-Bromophenyl-phenylether	0.188	0.196	-4.3	78
64		Hexachlorobenzene	0.204	0.218	-6.9	80
65		Atrazine	0.028	0.025	12.6	66
66		Pentachlorophenol	0.068	0.073	-8.0	109
67		Phenanthrene	1.016	1.056	-3.9	78
68	S	Anthracene-d10	1.073	1.066	0.6	77
69		Anthracene	1.085	1.122	-3.4	78
70		Carbazole	0.952	1.008	-5.8	83
71		Di-n-butylphthalate	1.195	1.288	-7.8	83
72		Fluoranthene	1.110	1.191	-7.3	84
73		Chrysene-d12	1.000	1.000	0.0	90
74		Butylbenzylphthalate	0.605	0.526	13.0	82
75		bis(2-ethylhexyl)phthalate	0.828	0.727	12.3	83
76		3,3'-Dichlorobenzidine	0.348	0.343	1.5	92
77		Benzo(a)anthracene	1.109	0.959	13.5	81
78		Chrysene	1.074	0.912	15.1	80
79	S	Pyrene-d10	1.153	1.065	7.6	90
80		Pyrene	1.244	1.163	6.5	89
81		Perylene-d12	1.000	1.000	0.0	95
82		Di-n-octylphthalate	1.567	1.347	14.0	87
83		Benzo(b)fluoranthene	1.137	0.967	15.0	85
84		Benzo(k)fluoranthene	1.193	1.044	12.5	86
85	S	Benzo(a)pyrene-d12	0.933	1.020	-9.3	107
86		Benzo(a)pyrene	1.078	0.963	10.7	88
87		Dibenzo(a,h)anthracene	0.932	0.823	11.8	85
88		Indeno(1,2,3-cd)pyrene	1.130	0.994	12.0	85
89		Benzo(g,h,i)perylene	0.949	0.836	11.9	86

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05513.D
Acq On : 12/15/11 18:25
Sample : SSTD0208W
Misc : SSTD0208W INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Operator: SV
Inst : D-5973

ORIGINAL
Case 42040 SDG F4XP0
Episode S-44160 init/date 12/19/11

Quant Time: Dec 19 11:05:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2244966	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	10529393	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	6582910	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.33	188	12106334	20.0000 ug/L	0.00
73) Chrysene-d12	17.16	240	13371932	20.0000 ug/L	0.00
81) Perylene-d12	18.99	264	12050284	20.0000 ug/L	0.01
System Monitoring Compounds					
3) Phenol-d5	5.12	99	6770548	20.6433 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 51.61%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	2778733	20.6938 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 51.73%		
7) 2-Chlorophenol-d4	5.25	132	3294320	21.2040 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 53.01%		
12) 4-Methylphenol-d8	6.61	113	3152656	22.2642 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 55.66%		
17) Nitrobenzene-d5	6.84	128	1763440	22.4533 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 56.13%		
20) 2-Nitrophenol-d4	7.57	143	1786794	23.8860 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 59.71%		
24) 2,4-Dichlorophenol-d3	8.15	165	2963342	21.8695 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 54.67%		
27) 4-Chloroaniline-d4	8.66	131	3031771	20.0829 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 50.21%		
41) Acenaphthylene-d8	12.00	160	12551522	20.5631 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 51.41%		
43) Dimethylphthalate-d6	11.95	166	8627690	20.9214 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 52.30%		
49) 4-Nitrophenol-d4	12.76	143	1583389	27.1648 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 67.91%		
56) Fluorene-d10	13.09	176	8424356	21.3876 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 53.47%		
60) 4,6-Dinitro-2-methylphenol	13.35	200	1082106	28.0514 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 70.13%		
68) Anthracene-d10	14.38	188	12906770	19.8747 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 49.69%		
79) Pyrene-d10	15.90	212	14243457	18.4740 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 46.18%#		
85) Benzo(a)pyrene-d12	18.87	264	12288018	21.8579 ug/L	0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 54.64%		
Target Compounds					Qvalue
2) Benzaldehyde	4.81	77	2306306	22.8420 ug/L	95
4) Phenol	5.15	94	4260847	21.5526 ug/L	98
6) Bis(2-chloroethyl)ether	5.19	93	3146374	20.4051 ug/L	98
8) 2-Chlorophenol	5.28	128	3284259	21.6136 ug/L	100
9) 2-Methylphenol	6.33	108	3002975	21.3243 ug/L	96
10) 2,2'-Oxybis(1-chloropropan	6.30	45	8684809	21.1052 ug/L #	65
11) Acetophenone	6.52	105	4367710	20.8765 ug/L	98
13) 4-Methylphenol	6.68	108	3074508	20.3597 ug/L	97
14) N-Nitroso-di-n-propylamine	6.59	70	2811081	21.7198 ug/L	98
15) Hexachloroethane	6.63	117	1481768	19.5828 ug/L	98
18) Nitrobenzene	6.88	77	3736872	19.9833 ug/L #	85
19) Isophorone	7.38	82	7053194	20.5935 ug/L	100
21) 2-Nitrophenol	7.60	139	1965937	23.6871 ug/L	99
22) 2,4-Dimethylphenol	7.81	107	3489266	22.5662 ug/L	94

0491

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05513.D
Acq On : 12/15/11 18:25 Operator: SV
Sample : SSTD0208W Inst : D-5973
Misc : SSTD0208W INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 11:05:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
23) bis(2-Chloroethoxy)methane	7.98	93	4323522	20.8047 ug/L		99
25) 2,4-Dichlorophenol	8.18	162	2950064	22.1523 ug/L		97
26) Naphthalene	8.41	128	10904792	21.1517 ug/L		100
28) 4-Chloroaniline	8.68	127	2820875	20.9113 ug/L		99
29) Hexachlorobutadiene	8.86	225	1862239	21.6790 ug/L		98
30) Caprolactam	9.36	113	1089662	21.7007 ug/L	#	26
31) 4-Chloro-3-methylphenol	9.97	107	2820983	20.8049 ug/L		95
32) 2-Methylnaphthalene	10.04	142	8173638	21.5433 ug/L		97
34) Hexachlorocyclopentadiene	10.59	237	259191	11.7744 ug/L		99
35) 2,4,6-Trichlorophenol	10.87	196	2176555	22.8175 ug/L		98
36) 2,4,5-Trichlorophenol	10.99	196	2515863	22.8082 ug/L		98
37) 2,3,4,6-Tetrachlorophenol	12.92	232	1784513	25.0586 ug/L		99
38) 1,1'-Biphenyl	11.20	154	9529699	20.7527 UG/l		99
39) 2-Chloronaphthalene	11.18	162	7578384	21.1402 ug/L		100
40) 2-Nitroaniline	11.56	65	2465261	22.5947 ug/L		98
42) Acenaphthylene	12.02	152	11842889	20.9284 ug/L		99
44) Dimethylphthalate	11.99	163	8583451	20.5897 ug/L		100
45) 3-Nitroaniline	12.34	138	2177710	23.0935 ug/L		99
46) Acenaphthene	12.34	153	7878955	20.5937 ug/L		99
47) 2,4-Dinitrophenol	12.57	184	315528	22.5871 ug/L		86
48) Dibenzofuran	12.61	168	10412917	21.0001 ug/L		99
50) 4-Nitrophenol	12.77	109	967175	25.5996 ug/L		96
51) 2,6-Dinitrotoluene	12.11	165	1835319	24.3780 ug/L	#	96
52) 2,4-Dinitrotoluene	12.77	165	2429058m	23.8046 ug/L		
53) 1,2,4,5-Tetrachlorobenzene	10.55	216	3315613	21.3338 ug/L		99
54) Diethylphthalate	13.11	149	8963162	20.9492 ug/L		98
55) 4-Chlorophenyl-phenylether	13.16	204	4138468	21.4284 ug/L		98
57) Fluorene	13.13	166	9039907	20.8442 ug/L		99
58) 4-Nitroaniline	13.28	138	2202800	23.8993 ug/L	#	1
61) 4,6-Dinitro-2-methylphenol	13.35	198	1052665	25.9112 ug/L		93
62) N-Nitrosodiphenylamine	13.35	169	7380075	20.7547 ug/L		100
63) 4-Bromophenyl-phenylether	13.79	248	2378243	20.8622 ug/L		99
64) Hexachlorobenzene	13.97	284	2644393	21.3806 ug/L		98
65) Atrazine	14.08	200	299525	17.4769 ug/L		93
66) Pentachlorophenol	14.22	266	887266	21.6014 ug/L		97
67) Phenanthrene	14.35	178	12782554	20.7746 ug/L		99
69) Anthracene	14.41	178	13581839	20.6841 ug/L		98
70) Carbazole	14.63	167	12198640	21.1694 ug/L		100
71) Di-n-butylphthalate	15.05	149	15593984	21.5624 ug/L		96
72) Fluoranthene	15.68	202	14415077	21.4606 ug/L		97
74) Butylbenzylphthalate	16.59	149	7036578	17.3962 ug/L		99
75) bis(2-ethylhexyl)phthalate	17.16	149	9716192	17.5440 ug/L		98
76) 3,3'-Dichlorobenzidine	17.12	252	4580084	19.6908 ug/L		100
77) Benzo(a)anthracene	17.14	228	12829903	17.3057 ug/L		99
78) Chrysene	17.19	228	12194256	16.9794 ug/L		100
80) Pyrene	15.91	202	15547146	18.6999 ug/L		96
82) Di-n-octylphthalate	17.82	149	16228736	17.1905 ug/L		100
83) Benzo(b)fluoranthene	18.43	252	11649965	17.0080 ug/L		99
84) Benzo(k)fluoranthene	18.46	252	12577162	17.5008 ug/L		100
86) Benzo(a)pyrene	18.91	252	11600602	17.8592 ug/L		100
87) Dibenzo(a,h)anthracene	21.04	278	9911588	17.6423 ug/L		100
88) Indeno(1,2,3-cd)pyrene	21.04	276	11982276	17.5990 ug/L	#	97
89) Benzo(g,h,i)perylene	21.66	276	10075121	17.6242 ug/L		98

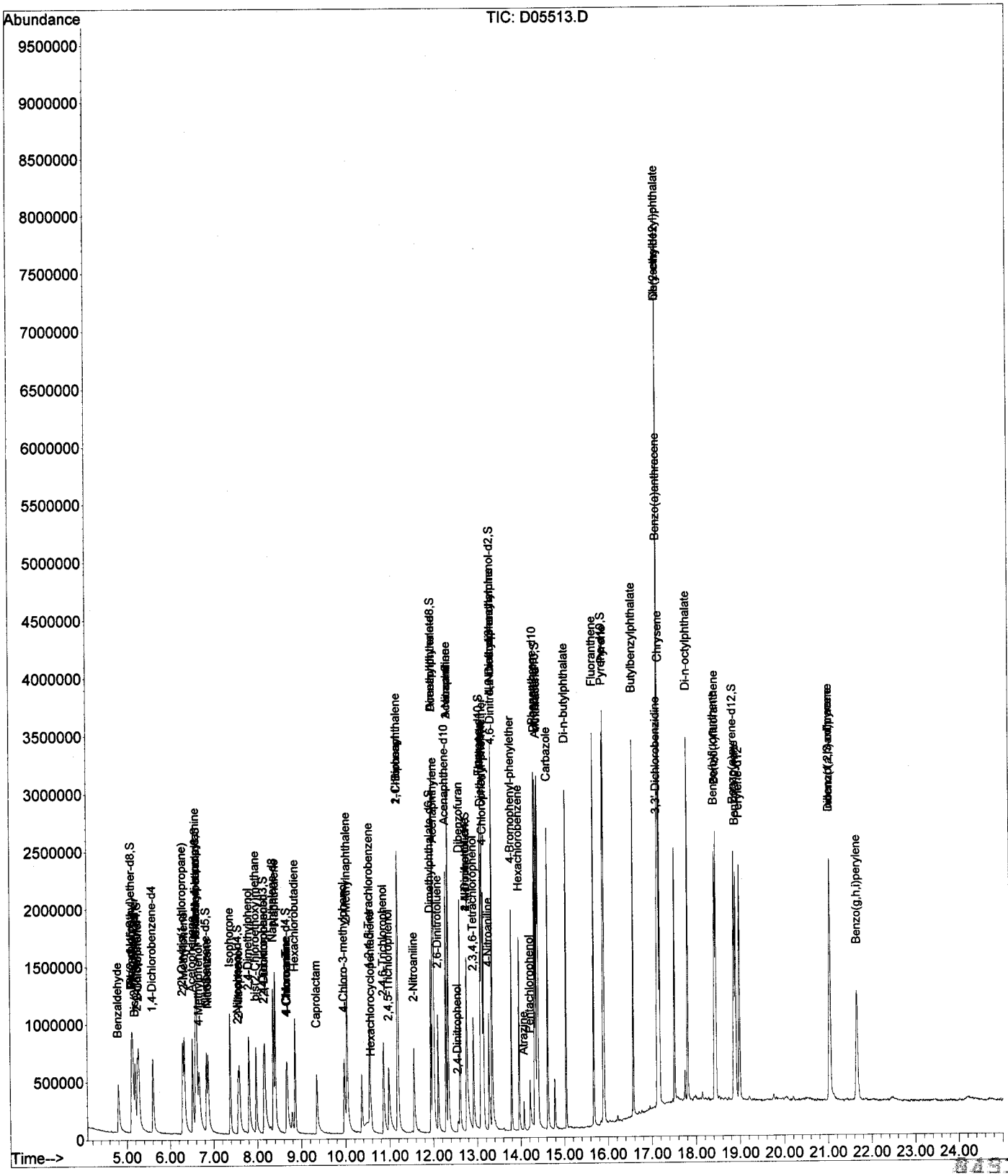
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8492

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05513.D
Acq On : 12/15/11 18:25 Operator: SV
Sample : SSTD0208W Inst : D-5973
Misc : SSTD0208W INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 11:05:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

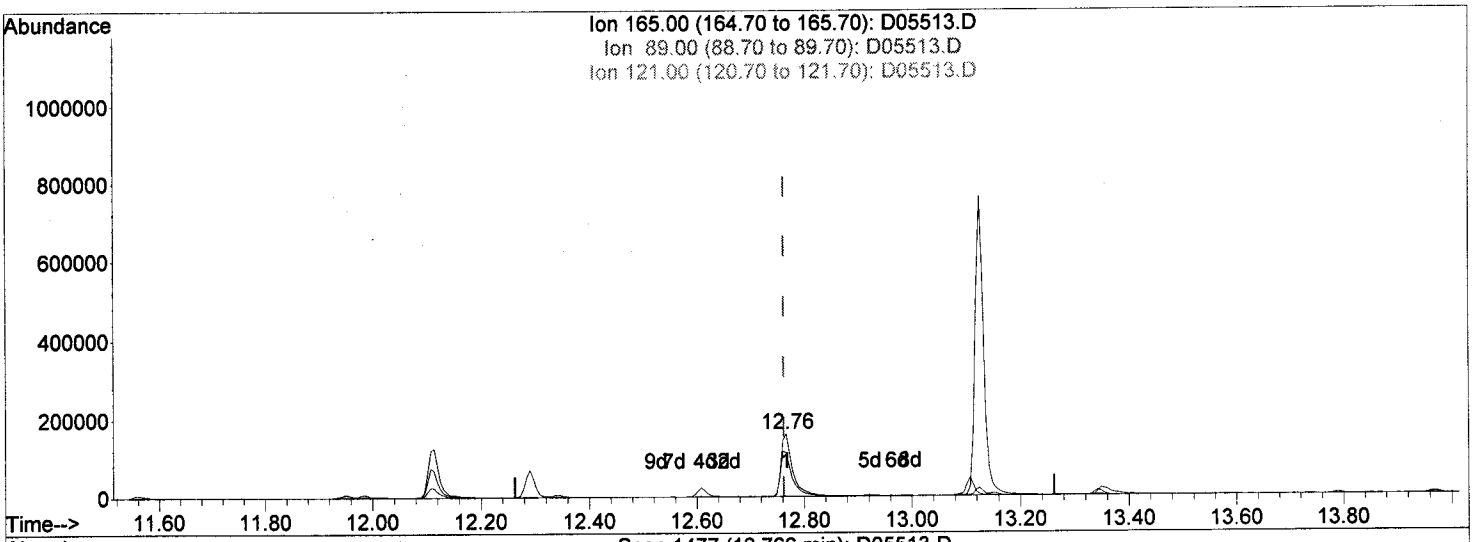


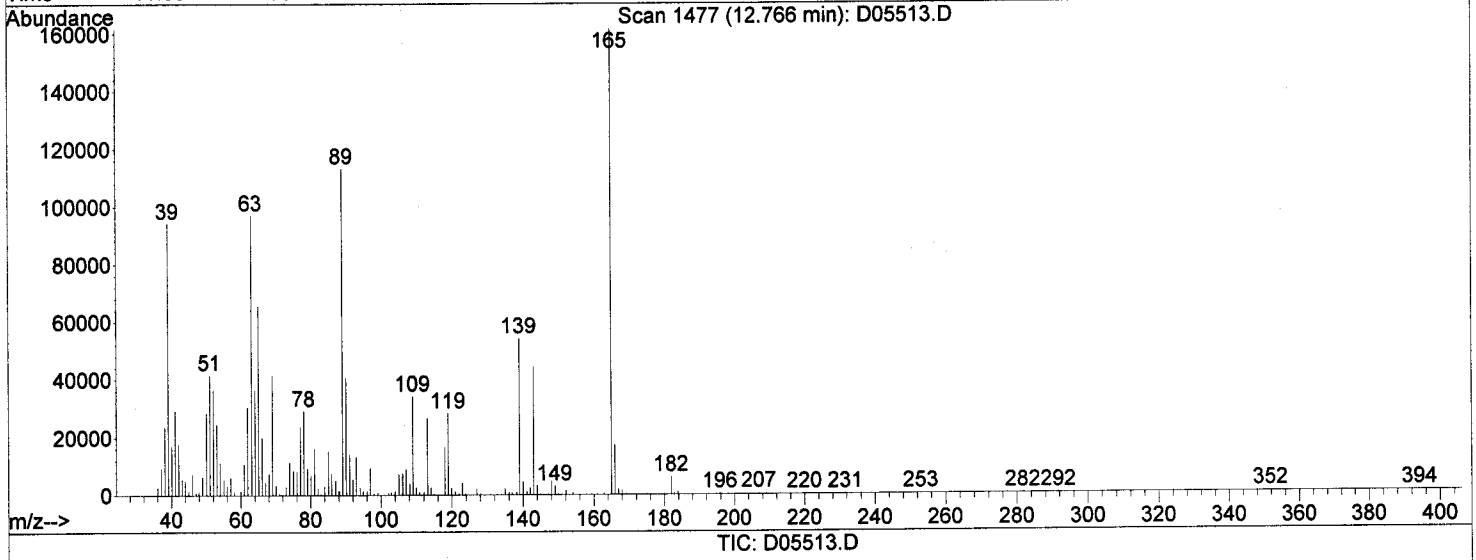
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\D05513.D
Acq On : 12/15/11 18:25 Operator: SV
Sample : SSTD0208W Inst : D-5973
Misc : SSTD0208W INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 11:05:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/15/11





TIC: D05513.D

(52) 2,4-Dinitrotoluene

12.766min (+0.003) 23.8046ug/L m

response 2429058

Ion	Exp%	Act%
165.00	100	100
89.00	68.20	74.44
121.00	0.70	1.13#
0.00	0.00	0.00

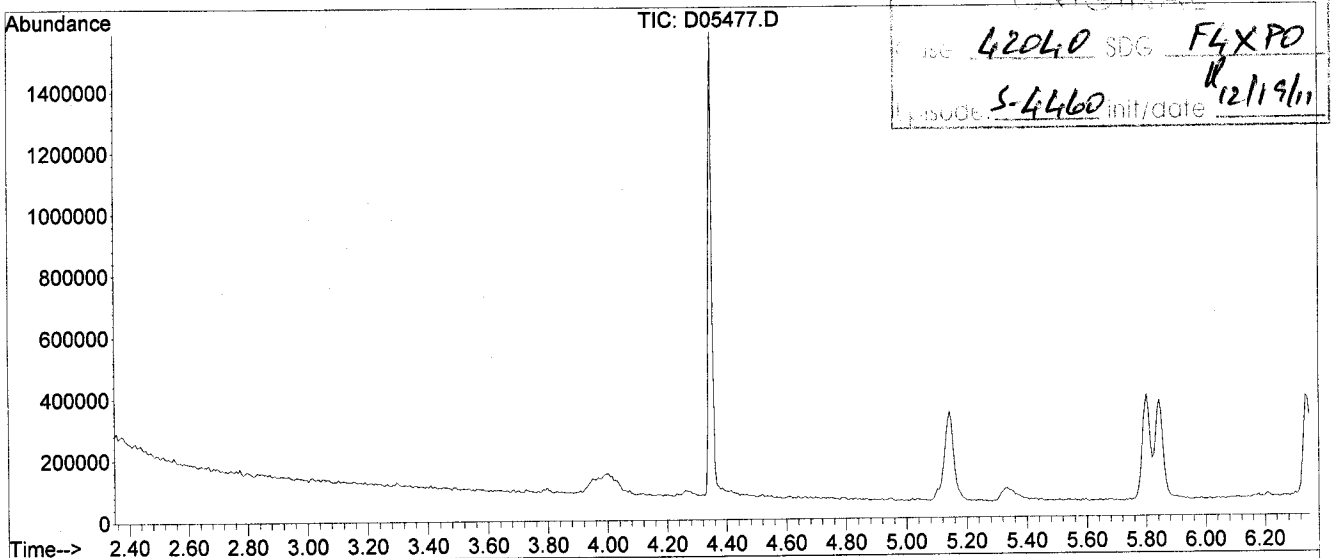
DFTPP

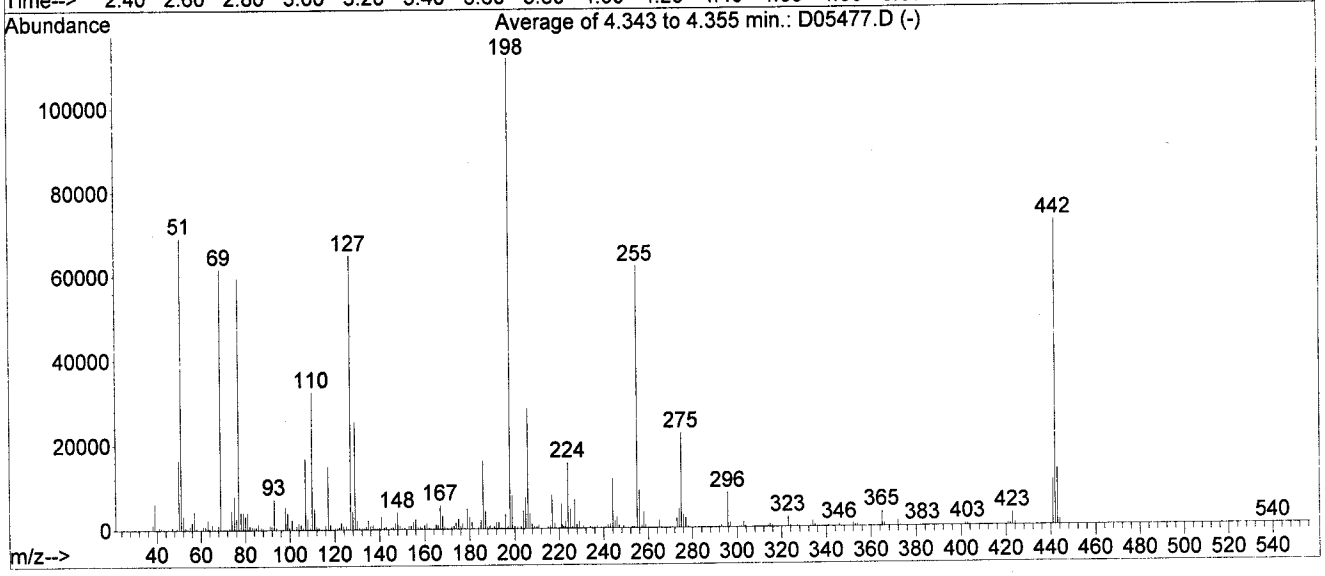
Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date 12/19/11





AutoFind: Scans 385, 386, 387; Background Corrected with Scan 380

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.0	69127	PASS
68	69	0.00	2	1.5	929	PASS
69	198	0.00	100	55.3	61674	PASS
70	69	0.00	2	0.2	140	PASS
127	198	10	80	58.2	64909	PASS
197	198	0.00	2	0.6	673	PASS
198	198	100	100	100.0	111541	PASS
199	198	5	9	7.1	7878	PASS
275	198	10	60	20.0	22359	PASS
365	198	1	100	3.1	3493	PASS
441	443	0.01	100	79.6	10605	PASS
442	198	50	100	64.8	72304	PASS
443	442	15	24	18.4	13329	PASS

8495

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 4.343 to 4.355 min.: D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	1093	51.05	69127	62.00	694	73.00	536
39.05	6130	52.10	3399	63.05	2380	74.00	4608
40.00	53	53.00	433	63.90	278	75.00	7926
41.05	445	53.20	118	64.10	58	76.00	2678
41.95	446	54.05	281	65.05	1206	77.05	59464
43.05	156	55.05	778	66.00	59	78.05	4063
45.00	168	56.00	1816	66.20	87	79.00	4173
47.00	508	57.00	4343	68.00	929	80.00	3237
48.00	84	58.00	288	69.00	61674	81.00	4167
49.00	471	60.10	58	70.00	140	82.00	984
50.05	16360	61.00	726	71.10	276	83.00	670
84.95	467	96.00	76	106.95	16762	119.00	29
85.95	1308	97.05	227	108.00	2554	119.60	52
87.00	470	98.00	5319	109.10	360	120.15	435
87.90	389	98.95	3895	109.95	32473	121.05	335
88.80	70	99.90	487	111.00	4885	121.80	318
89.00	86	101.00	2283	112.00	659	122.00	560
91.00	914	101.90	93	112.95	402	122.95	1570
91.90	802	102.95	763	114.95	105	123.95	822
92.95	7146	103.90	1505	116.00	972	125.00	804
93.95	433	105.00	1163	117.00	14913	125.80	86
127.00	64909	136.95	1018	144.70	104	155.00	1711
128.00	4231	137.90	137	145.05	314	156.00	2388
129.00	25424	138.05	226	145.90	536	156.95	433
129.95	2242	138.95	294	146.95	1410	158.05	638
130.95	505	139.95	394	147.95	4019	158.60	60
132.00	266	140.90	3051	148.95	773	158.85	362
133.05	259	141.85	408	149.80	225	159.90	911
134.00	704	142.10	391	150.00	152	160.95	1342
134.20	65	142.80	320	151.10	364	161.95	408
134.95	2215	143.00	546	153.00	753	163.00	151
164.10	87	175.95	626	184.95	2044	195.00	172
165.00	1106	176.20	145	186.00	16012	196.00	3562
165.90	935	176.90	1271	187.00	4286	196.80	276
166.95	5620	177.85	225	188.00	478	197.05	673
167.95	3136	178.10	88	189.00	758	197.90	111541
168.95	664	178.90	4756	189.85	253	198.90	7878
170.00	287	180.00	2761	190.95	564	200.05	600
171.95	557	180.95	1630	191.95	1561	201.10	102
172.95	739	181.80	120	193.00	1615	201.45	427
173.90	1387	182.05	214	194.00	93	202.10	58
203.10	447	213.90	50	224.00	15538	233.90	472
204.00	4176	215.00	309	225.00	4491	234.70	119
205.00	7430	215.95	688	225.95	474	234.90	239
206.00	28453	216.90	7907	227.00	6953	235.10	112
206.95	3491	218.00	1174	227.95	915	235.95	335
207.95	1140	219.00	67	228.95	1578	237.00	607
208.90	472	220.00	66	229.90	171	238.00	55
209.60	142	220.95	5835	230.95	661	238.85	266
210.10	464	221.60	835	231.70	77	239.95	210
210.60	245	221.95	390	231.90	90	240.80	124
241.95	906	252.80	257	262.90	63	273.00	2173
242.95	1039	253.10	262	263.90	79	274.00	4524
244.00	11762	253.60	138	264.90	1729	275.00	22359
245.00	1756	253.95	459	265.75	200	276.00	3112
245.90	2595	255.00	62040	266.00	54	276.95	2430
246.90	609	256.00	8828	269.70	54	277.90	314
247.80	78	256.95	680	270.00	146	278.80	74
248.95	519	257.95	3847	270.80	95	281.20	76
249.85	112	258.90	736	270.95	170	282.65	156

Base

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 4.343 to 4.355 min.: D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.00	75	259.90	62	271.70	118	283.00	126
284.90	154	301.90	73	315.85	426	332.85	221
285.10	181	303.00	1136	321.00	98	333.95	1377
292.00	221	303.90	284	321.20	93	334.95	480
292.90	518	307.70	50	322.90	2400	338.90	54
293.50	56	307.90	75	323.90	341	340.95	375
293.90	68	309.00	114	324.10	121	341.90	87
294.70	92	310.00	119	326.95	439	345.90	567
295.95	8202	313.70	108	327.85	224	352.00	773
296.95	1159	313.90	372	331.90	85	352.80	115
297.90	83	314.85	819	332.10	52	353.00	308
355.05	302	383.85	162	421.95	438	440.95	10605
358.20	51	387.70	73	422.90	2981	442.00	72304
359.00	75	389.95	181	423.95	666	443.00	13329
364.90	3493	390.90	72	428.80	73	444.00	1341
365.90	645	401.85	506	430.10	95	540.00	58
370.10	54	402.70	175	430.50	57		
371.00	136	402.95	510	433.80	86		
371.95	1289	403.80	147	434.60	67		
372.70	54	419.40	58	435.50	83		
373.00	281	420.85	512	436.70	52		

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 386 (4.349 min): D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	823	48.00	1227	58.90	286	70.00	831
36.90	878	49.00	15729	60.10	175	71.10	383
38.10	1629	50.10	22520	61.00	738	73.00	1597
39.10	9187	51.10	98992	62.00	977	74.00	6624
40.00	1230	52.10	4783	63.00	2832	75.00	10994
41.00	2664	53.20	356	63.90	389	76.00	4452
42.00	1660	54.00	317	65.00	1594	77.10	82600
43.00	1543	55.10	2536	66.20	263	78.10	6087
44.00	3323	56.10	2574	67.10	964	79.00	6327
45.10	401	57.00	7009	68.00	1234	80.00	4298
47.00	3090	58.00	372	69.00	87440	81.00	6816
83.10	1678	95.00	998	107.00	24448	119.00	776
84.00	8174	96.00	718	108.00	3713	119.60	156
84.90	1264	97.00	649	109.00	893	120.10	639
86.00	6776	98.00	7102	110.00	45952	121.00	329
87.00	450	99.00	5996	111.00	7437	122.00	1549
88.00	1040	99.90	657	112.00	982	122.90	2856
89.00	259	101.00	3980	112.90	353	123.90	1323
91.00	1841	102.90	941	115.00	339	125.00	1275
91.90	1248	104.00	2554	116.00	1546	126.10	452
93.00	10748	105.00	1979	117.00	20192	127.00	90192
129.00	36544	139.90	600	151.10	444	162.00	400
130.00	3221	140.90	4565	151.90	659	163.00	455
130.90	1027	142.10	1173	153.00	1400	163.80	327
131.90	293	143.00	1255	154.00	1209	165.00	1785
133.10	459	143.90	206	154.90	1997	165.90	1530
134.00	861	145.10	284	156.00	3624	167.00	8334
135.00	3601	145.80	591	157.00	851	168.00	4257
136.00	1091	147.00	2799	158.10	860	168.90	1129
137.00	1541	148.00	5980	158.80	425	169.90	353
138.10	405	149.00	1345	160.00	1475	171.00	345
172.90	1031	184.90	2903	196.00	6133	207.00	5110
173.90	2130	186.00	22336	197.00	1456	208.00	1825
175.00	3612	187.00	6415	197.90	162880	208.90	631
175.90	1064	188.00	1048	198.90	11715	210.10	521
176.90	1808	189.00	1153	200.10	764	210.90	1801
177.80	376	189.90	545	200.90	364	212.00	341
178.90	6872	190.90	776	201.50	701	213.90	151
180.00	3705	192.00	2756	203.10	1342	215.00	406
181.00	2091	193.00	2856	204.00	6370	216.00	623
182.00	430	194.20	585	205.00	11202	216.90	11635
220.90	9505	231.70	233	243.00	1584	253.60	415
221.60	2506	232.90	161	244.00	16576	254.00	677
222.90	2694	233.90	836	245.00	2487	255.00	92888
224.00	23256	234.90	718	245.90	3674	256.00	12767
225.00	5738	235.90	655	246.90	735	256.90	1062
225.90	516	237.00	822	247.80	235	258.00	5458
227.00	10328	238.00	166	249.00	718	258.90	1209
228.00	1364	238.80	480	249.80	174	260.10	297
229.00	2568	239.90	400	251.00	225	262.90	190
229.90	363	241.00	869	252.00	155	263.90	239
265.70	378	282.60	159	303.80	398	327.80	467
269.70	164	285.10	544	307.90	227	331.90	255
271.00	347	292.00	258	309.00	344	332.90	480
271.70	354	292.90	1026	310.10	178	334.00	1925
273.00	3013	294.70	278	313.90	780	335.00	670
274.00	6899	295.90	12171	314.90	1629	341.00	503
275.00	35224	297.00	1795	315.90	803	341.90	262
276.00	5226	297.90	251	321.00	295	345.90	782
277.00	3900	300.90	249	322.90	3831	352.00	1099

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 386 (4.349 min): D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	574	301.90	219	323.90	659	353.00	695
355.00	294	401.90	609	433.80	258		
358.20	153	402.90	900	435.50	249		
364.90	5373	403.90	254	436.70	157		
365.90	800	419.40	175	438.90	160		
371.00	177	420.90	979	441.00	14842		
371.90	1703	421.90	887	442.00	103784		
373.00	637	422.90	3962	443.00	18992		
382.90	694	424.00	927	444.00	2042		
383.80	257	428.80	221	540.00	176		
389.90	386	430.10	287				

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 385 (4.343 min): D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	656	48.00	1419	61.00	1095	73.10	1105
37.10	960	49.00	17664	62.00	833	74.00	5374
38.00	1480	50.10	22144	63.10	2819	75.00	9319
39.10	8481	51.10	93024	63.90	446	76.00	2496
40.10	1067	52.10	4210	65.10	1473	77.10	72712
41.10	3382	53.00	1311	66.00	177	78.10	5757
42.00	1171	54.00	193	67.20	489	79.00	4615
43.10	2089	55.10	2503	68.00	1539	80.00	4066
44.00	2355	56.00	3315	69.00	76616	81.00	5481
45.00	623	57.00	5965	70.10	747	82.00	1641
47.10	2987	58.00	294	71.10	485	83.00	2054
84.90	1179	97.10	815	108.00	2752	120.20	352
86.00	5932	98.00	7671	109.10	883	121.00	389
87.00	717	99.00	4616	110.00	37936	121.80	954
88.00	1256	99.90	596	111.00	5582	123.00	1980
88.80	210	101.00	2129	112.10	624	124.00	1174
91.00	1497	101.90	279	113.00	411	125.00	1156
91.90	1490	103.00	1067	115.00	353	126.10	423
93.00	8698	103.90	1758	116.00	965	127.00	73944
94.00	859	105.00	1821	117.00	17336	128.00	5561
95.10	764	106.00	452	118.00	1379	129.00	27984
131.00	540	141.90	1374	152.00	434	164.10	262
132.10	170	142.80	962	153.00	1396	164.90	1592
132.90	438	143.90	214	154.00	777	165.90	819
134.00	1026	144.70	314	155.00	1942	166.90	5259
134.90	1996	145.00	271	156.00	2149	167.90	3543
135.90	741	146.00	679	157.00	803	169.10	375
137.00	1031	146.90	1819	158.00	753	170.10	294
137.90	413	147.90	4342	158.90	661	170.90	495
139.00	579	148.90	843	159.90	802	171.90	432
140.00	390	149.80	430	160.90	1441	173.00	774
175.00	2554	187.00	4107	197.90	109816	208.80	398
176.00	814	188.00	387	198.90	7483	209.60	427
176.90	1185	189.00	1005	200.00	737	210.00	369
177.90	301	189.80	215	201.40	582	210.60	737
178.90	4765	191.00	511	202.10	176	211.10	981
180.00	2459	191.90	1376	202.90	1015	215.00	521
180.90	2331	193.00	1806	204.00	3964	215.90	951
182.10	213	194.00	280	205.00	7289	216.90	6818
183.80	332	195.00	235	206.00	26952	218.00	891
185.00	2259	196.00	2472	207.00	4005	219.00	201
221.90	1125	234.70	357	246.90	647	264.90	1417
222.90	1475	236.00	350	248.90	481	266.00	162
224.00	14585	237.00	335	249.90	162	267.00	182
225.00	4240	238.90	319	252.80	416	270.00	189
226.00	457	240.00	230	253.90	261	270.80	285
227.00	6472	240.80	372	255.00	51040	272.10	183
227.90	908	242.00	929	256.00	8093	273.00	2119
228.90	1041	242.90	951	257.00	670	274.00	3765
229.90	152	244.00	10189	257.90	3285	275.00	16936
230.90	556	245.00	1835	258.90	522	276.00	2372
277.90	185	307.70	150	338.90	164	372.70	163
278.80	223	313.70	325	340.90	180	383.90	229
282.70	311	314.80	828	345.80	307	387.70	220
283.80	313	315.90	241	352.00	421	390.00	157
284.90	462	322.90	1837	352.80	345	401.90	253
292.10	189	323.90	364	354.00	659	402.70	526
292.80	296	327.00	291	355.00	280	420.80	227
296.00	5915	327.90	205	359.00	225	421.70	181
296.90	798	332.70	192	364.90	1790	422.80	2087

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 385 (4.343 min): D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
302.90	463	334.00	908	365.90	703	423.90	403
442.00	38824						
443.00	7735						
443.90	646						

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 387 (4.355 min): D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	450	49.00	16424	62.00	274	75.00	3467
37.00	450	50.00	7153	63.00	1489	76.10	1088
38.10	720	51.10	30320	64.10	174	77.10	24320
39.10	2801	52.10	1206	65.10	552	78.00	1354
40.10	688	53.00	551	67.10	688	79.00	2239
41.00	3093	54.10	333	68.00	615	80.00	1347
42.10	983	55.00	1909	69.00	24064	81.00	2729
43.10	2201	56.00	1268	70.00	443	82.00	1138
44.00	2881	57.00	3321	71.10	704	83.10	1456
47.00	2906	58.00	198	73.10	1054	83.90	7421
48.00	1509	61.00	345	74.00	1827	85.00	593
87.00	245	99.90	210	111.90	373	125.10	731
87.90	955	100.90	740	112.90	443	125.80	260
90.90	764	103.00	282	115.00	436	127.00	30592
91.90	243	104.00	733	116.00	407	128.00	2305
93.00	3526	105.00	901	117.00	7787	129.00	11745
93.80	322	105.90	192	118.00	644	130.00	1068
95.10	903	107.00	7086	120.10	316	131.00	402
96.00	295	107.90	1199	121.10	289	132.10	336
97.10	749	109.00	481	122.00	644	133.00	318
98.00	1723	110.00	14302	123.00	1134	133.80	226
135.00	1050	148.00	1736	158.60	180	169.90	214
136.00	560	149.00	742	159.10	184	172.00	492
136.80	482	149.80	247	159.80	458	172.90	412
138.00	273	151.10	544	160.90	691	173.80	885
140.00	194	151.80	352	161.90	515	175.00	1099
141.00	1492	153.00	631	163.90	337	176.20	437
141.90	391	153.90	642	165.10	922	176.90	820
143.10	384	155.10	1196	165.90	458	178.10	264
145.00	387	156.00	1391	166.90	3268	179.00	2632
146.00	340	156.90	177	168.00	1608	180.00	2119
181.80	362	197.10	564	209.00	389	225.00	3495
183.90	227	197.90	61928	210.20	504	225.90	450
185.00	971	198.90	4436	211.20	723	227.00	4061
186.00	9124	200.00	299	216.00	491	227.90	473
187.00	2337	201.10	306	216.90	5269	228.90	1125
189.00	615	202.90	638	217.90	821	231.00	280
191.00	407	204.00	2196	220.00	198	231.90	271
191.90	552	205.00	3799	221.00	3140	233.90	388
193.00	804	206.00	16392	221.90	741	235.10	338
194.20	268	207.00	2404	222.90	1161	237.00	665
241.80	558	257.00	309	276.00	1739	303.00	931
242.90	584	258.00	2799	276.90	1501	309.90	181
244.00	8522	258.90	477	278.00	184	313.90	336
245.00	947	260.00	156	280.80	337	315.10	737
245.90	1744	265.00	1115	283.00	379	315.70	236
246.90	446	265.80	224	291.90	216	321.20	279
248.90	360	270.00	249	292.90	234	322.90	1533
252.80	355	270.90	165	293.50	168	324.10	363
253.90	439	272.90	1389	293.90	206	326.90	486
254.90	42192	273.90	2908	296.00	6522	332.10	158
333.90	1298	371.00	233	440.90	11702		
335.00	406	371.90	1341	442.00	74304		
340.90	442	372.90	206	443.00	13262		
346.00	612	401.80	657	444.00	1335		
352.00	799	403.00	631				
352.90	231	403.70	189				
353.80	341	420.70	330				
355.10	334	422.00	429				
364.90	3317	423.00	2894				

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 387 (4.355 min): D05477.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.90	434	423.90	670				

Data File : C:\MSDCHEM\1\DATA\D05477.D
Acq On : 12/13/11 10:03
Sample : DFTPP8S
Misc : DFTPP8S INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 380 (4.314 min): D05477.D

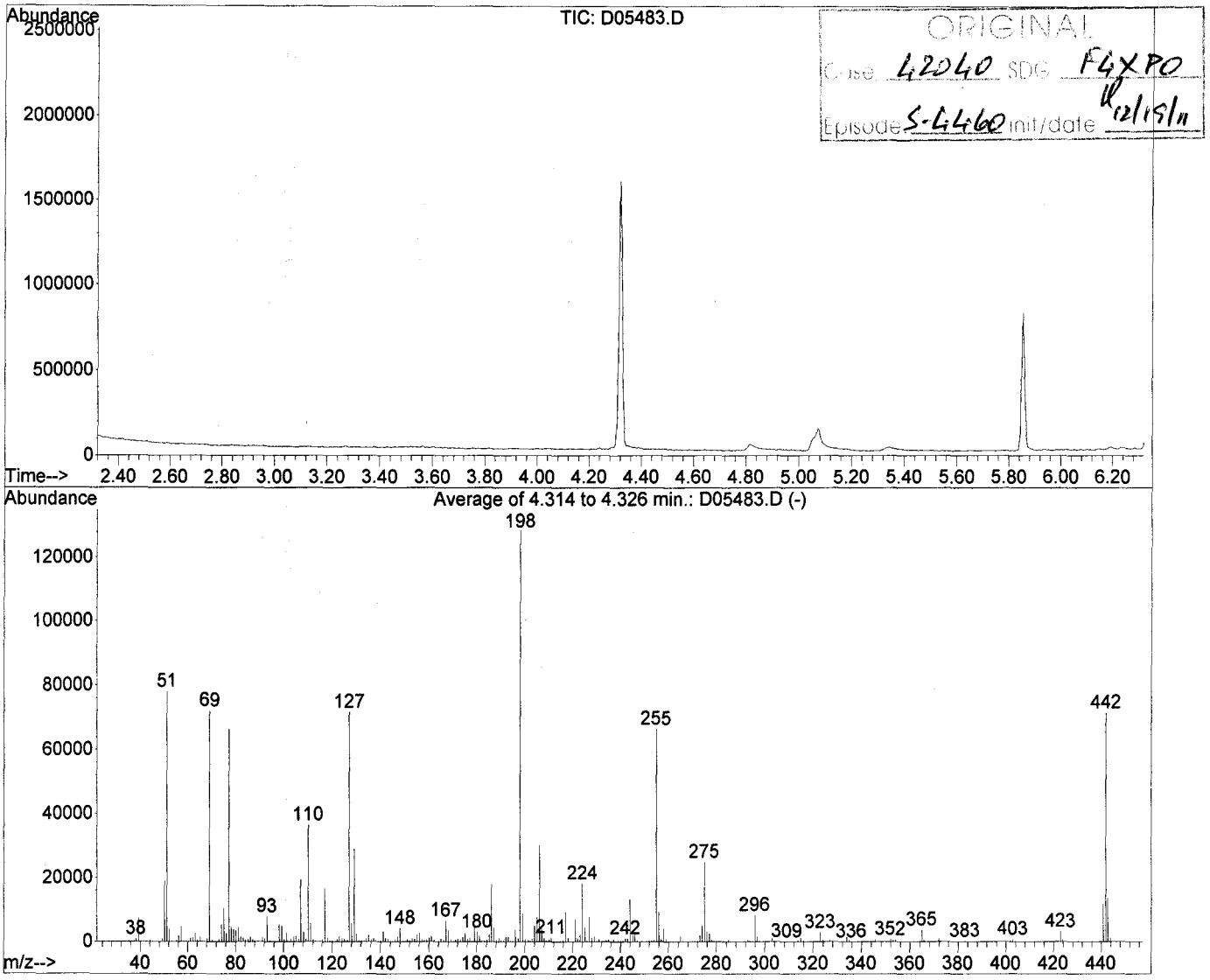
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	862	48.00	1301	69.00	1032	83.90	7265
37.10	971	49.00	16134	70.00	533	85.10	545
37.90	183	50.00	912	71.20	248	85.90	4674
39.00	693	51.00	4985	72.00	195	87.90	694
40.00	942	53.10	187	73.00	716	91.10	453
41.10	2601	55.10	1538	76.90	413	92.10	191
41.90	825	56.00	569	78.00	336	92.80	511
43.10	1788	57.10	1088	79.10	220	94.00	228
44.00	2863	59.00	194	81.00	841	95.00	859
45.00	173	67.10	1452	82.00	408	96.10	502
47.00	2486	68.10	200	83.00	1059	96.70	263
98.10	179	119.00	393	149.00	203	182.90	175
98.80	304	122.10	171	151.20	243	189.20	166
103.80	176	123.10	420	151.90	1975	193.10	207
105.00	404	124.10	194	153.10	389	200.90	183
106.90	168	125.00	250	156.90	177	206.90	348
109.20	392	128.10	244	159.00	221	211.20	261
109.90	257	131.00	151	159.40	228	211.80	292
111.00	279	132.90	234	165.10	327	213.00	200
114.90	271	141.10	201	171.10	294	222.10	232
117.00	192	141.80	180	177.20	235	239.10	241
281.00	334						

DFTPP

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2



ORIGINAL
Case 42040 SDG F4XP0
Episode S-44460 init/date 12/15/11

AutoFind: Scans 380, 381, 382; Background Corrected with Scan 375

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	60.7	78026	PASS
68	69	0.00	2	1.3	907	PASS
69	198	0.00	100	56.1	72042	PASS
70	69	0.00	2	0.8	607	PASS
127	198	10	80	55.7	71570	PASS
197	198	0.00	2	0.9	1118	PASS
198	198	100	100	100.0	128450	PASS
199	198	5	9	6.8	8743	PASS
275	198	10	60	19.4	24889	PASS
365	198	1	100	2.9	3728	PASS
441	443	0.01	100	85.1	11649	PASS
442	198	50	100	55.6	71418	PASS
443	442	15	24	19.2	13689	PASS

D05483.D DFTPP-TUNE.M Thu Dec 15 10:01:38 2011

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 4.314 to 4.326 min.: D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	172	51.05	78026	62.00	1181	75.00	10451
37.05	223	52.10	3959	63.00	2640	76.00	2660
38.00	862	53.05	204	63.90	425	77.05	66478
39.10	7222	54.20	81	65.05	1382	78.05	4681
40.00	80	55.05	297	65.90	102	79.05	3743
42.10	122	56.00	1744	68.00	907	80.05	3445
43.10	97	57.05	4877	69.00	72042	81.00	4531
44.00	362	58.00	116	70.05	607	81.95	1496
45.00	158	58.90	68	71.10	93	83.05	1078
49.00	974	59.10	55	72.95	721	83.95	575
50.05	18891	61.00	957	74.00	5321	84.95	620
86.95	536	99.00	4773	110.00	36504	119.90	158
87.80	105	99.95	537	111.00	5757	120.10	297
89.10	147	100.95	2773	111.80	88	121.00	122
91.05	1164	102.10	167	111.95	678	121.80	242
91.95	1109	102.90	778	112.90	276	121.95	835
92.95	7851	104.00	1395	114.85	203	122.95	1603
93.80	109	104.95	1597	116.00	695	124.00	1039
94.10	394	106.05	704	117.00	16600	124.95	922
96.00	145	106.95	19310	118.00	1305	126.10	465
97.10	11	108.05	2981	118.95	269	127.00	71570
129.00	29093	138.95	192	151.90	361	161.60	74
129.95	2343	139.95	335	152.90	1016	162.05	519
130.95	386	140.95	3258	153.95	823	163.20	74
131.90	303	141.90	1060	155.00	2203	163.95	176
133.05	316	143.00	848	156.00	2834	164.90	1023
133.95	887	144.00	289	157.05	575	165.90	562
135.00	2062	144.95	155	157.80	167	166.10	382
135.80	109	145.95	735	158.00	374	167.00	6602
135.95	663	146.95	1559	159.00	586	168.00	3584
137.05	1021	147.95	4140	159.95	1193	169.05	649
171.00	490	180.95	1889	192.00	1458	201.50	258
171.90	802	181.90	326	192.90	1459	201.95	211
172.80	154	182.95	209	193.95	370	202.95	928
173.00	742	183.95	523	194.80	92	204.00	4971
174.05	1431	185.00	2319	194.95	179	205.00	7671
174.95	2556	186.00	18013	195.95	3680	206.00	30120
175.95	932	187.00	4496	197.05	1118	207.00	4243
176.95	1221	187.90	577	197.90	128450	207.90	987
177.80	129	188.95	1146	198.95	8743	208.85	328
178.95	5438	189.95	500	200.00	738	210.00	556
211.95	298	225.80	282	234.85	669	244.00	13149
214.85	247	226.00	212	235.95	313	245.05	1908
215.85	576	226.95	7682	236.60	72	245.80	378
216.90	9278	228.00	1138	236.95	615	245.95	2198
217.95	1188	228.95	1539	237.90	78	246.95	398
218.85	125	229.95	239	238.95	435	248.80	166
220.95	6821	230.80	77	240.00	259	249.00	201
221.95	1140	230.95	596	240.95	354	249.80	68
222.95	2164	232.80	63	241.80	169	250.30	59
224.00	18198	233.00	120	242.00	985	250.70	54
251.80	266	263.80	58	275.90	3167	291.80	95
252.90	336	264.95	1622	276.95	2431	292.95	505
254.00	570	265.90	192	277.95	505	293.80	75
254.95	66437	267.80	82	282.80	80	294.00	80
255.95	9270	269.80	75	282.95	359	294.85	135
256.90	759	270.80	73	283.90	155	295.95	8281
258.00	4109	271.00	103	284.95	530	296.90	1509
258.90	779	271.95	203	288.70	71	297.70	95
260.70	54	273.00	1963	289.10	70	300.70	58

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 4.314 to 4.326 min.: D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.90	62	273.95	5007	289.90	58	300.90	60
302.95	1081	324.00	389	345.80	564	371.00	134
303.90	196	326.80	576	346.80	60	371.90	1193
307.70	69	327.85	335	351.60	58	372.20	182
307.90	65	328.30	82	351.95	749	372.85	261
309.10	53	331.85	215	353.00	428	382.90	220
313.75	467	332.90	255	353.80	89	389.80	92
314.85	1087	333.95	1584	354.00	605	390.70	105
315.95	330	334.90	555	354.95	141	400.80	75
321.00	85	335.80	63	364.95	3728	401.90	469
322.00	69	340.75	171	365.85	579	402.90	847
404.00	89	434.10	65				
414.90	82	435.20	61				
420.95	462	440.90	11649				
421.65	164	442.00	71418				
422.00	363	442.95	13689				
422.95	3232	443.60	146				
423.90	681	443.90	1151				
424.90	65						
426.10	71						
430.40	184						

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 381 (4.320 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	517	47.90	377	61.00	1443	74.00	7616
35.90	357	49.00	5690	62.00	1665	75.00	15198
37.10	453	50.10	28848	63.00	3304	76.00	4503
38.00	1341	51.10	115672	63.90	740	77.10	96272
39.10	11099	52.10	6027	65.00	2264	78.10	5854
40.00	1577	53.10	537	67.00	433	79.00	6066
41.10	2367	54.20	244	68.10	1914	80.00	4764
42.10	716	55.10	2010	69.00	103048	81.00	7461
43.10	1324	56.00	3115	70.10	928	81.90	2165
44.00	2472	57.10	8803	71.20	328	83.00	2375
47.00	1046	58.00	421	73.00	1970	84.00	2664
86.00	3531	98.00	7497	109.00	1105	122.00	1672
86.90	797	99.00	6274	110.00	51504	123.00	2724
88.10	498	100.00	673	111.00	8200	124.00	1522
89.20	204	101.00	4169	112.00	1479	124.90	1337
91.00	1936	102.10	502	112.80	353	126.10	609
92.00	1930	102.90	1252	116.10	1635	127.00	99048
93.00	11912	104.00	2367	117.00	23256	128.00	7677
94.10	647	105.00	2315	118.00	1516	129.00	39352
95.00	818	106.00	895	119.30	431	129.90	3861
96.00	647	107.00	28288	120.10	727	130.90	749
133.00	165	144.00	247	155.00	2997	166.10	1148
133.90	1381	145.00	265	156.00	3869	167.00	8825
135.00	3172	145.90	1141	157.00	702	168.00	5253
136.00	1320	146.90	2515	158.00	534	169.00	848
137.00	1443	148.00	6217	159.00	816	170.00	368
137.90	666	149.00	2656	160.00	1748	171.00	603
138.90	238	149.90	544	160.90	2353	171.90	1033
139.90	397	151.00	613	162.00	665	173.00	1404
141.00	4685	151.90	457	163.00	320	174.10	1684
141.90	1798	152.90	1167	163.90	215	175.00	3218
177.00	1930	187.90	615	198.90	12304	210.00	668
177.90	545	189.00	1577	200.00	918	210.90	1487
179.00	7558	190.00	604	201.30	846	214.80	387
180.00	4346	191.00	907	202.00	342	215.90	740
180.90	2592	192.00	1792	202.90	1217	216.90	10933
181.90	408	193.00	2119	204.00	6983	218.00	1587
183.00	370	193.90	397	205.00	9925	218.90	199
183.80	361	195.00	250	206.00	40544	220.90	9808
185.00	3635	196.00	4843	207.00	6231	222.00	1495
186.00	24104	197.00	1373	207.90	1403	223.00	3166
225.00	6348	236.90	895	250.30	178	262.80	167
225.80	642	238.90	711	250.90	395	265.00	2045
226.90	10374	240.00	532	251.70	319	265.90	380
228.00	1564	241.00	545	252.90	586	267.80	248
229.00	1530	242.00	1456	254.00	780	269.80	226
230.00	341	242.90	1207	255.00	84864	270.80	220
231.00	700	244.00	16872	256.00	12795	272.00	335
232.80	191	245.00	2064	256.90	1235	273.00	1970
233.90	705	246.00	3618	258.00	5327	273.90	5883
234.80	813	247.00	659	258.80	943	275.00	32704
277.00	3145	295.90	10039	321.00	255	340.70	310
277.90	605	296.90	2210	322.00	208	341.80	156
280.80	185	300.70	175	322.90	3948	345.80	698
283.00	563	301.80	156	324.00	531	351.90	994
283.90	267	303.00	1015	326.90	721	353.00	471
284.90	715	304.00	295	327.80	365	354.00	741
289.10	212	307.70	207	328.30	246	354.90	174
291.00	282	309.10	160	331.90	325	364.90	4071
292.80	506	313.70	532	332.90	308	365.80	545

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 381 (4.320 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
293.80	226	314.90	1362	333.90	2043	370.70	266
372.80	275	423.90	648				
382.90	191	426.10	215				
389.80	276	430.40	171				
400.80	227	440.90	12222				
401.90	654	442.00	79160				
402.90	1203	442.90	15074				
403.80	605	443.90	1836				
421.00	491						
421.60	320						
422.00	496						

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 380 (4.314 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	376	48.00	513	58.90	205	71.10	296
37.10	462	49.00	5274	61.00	820	73.00	943
37.90	913	50.10	15126	62.00	1075	74.00	3925
39.10	6645	51.10	55816	63.00	1978	75.10	7688
40.00	1273	52.10	2978	64.00	237	76.00	2031
41.00	2119	53.00	591	65.00	1390	77.10	48472
42.10	496	54.00	236	65.90	306	78.10	3783
43.10	1222	55.10	1347	66.90	399	79.00	2374
44.00	2115	56.10	2402	68.00	928	80.10	2258
45.10	199	57.10	4408	69.00	52008	81.00	3514
47.00	850	57.90	258	70.00	346	82.10	996
84.00	2558	97.10	608	108.90	891	121.10	155
84.90	842	98.00	3692	110.00	24616	121.80	727
86.00	2376	99.00	3493	111.00	4733	123.00	1364
87.00	228	99.90	416	111.80	264	123.90	592
87.80	316	100.90	1428	112.90	206	125.00	724
91.00	1659	102.90	478	114.90	229	126.10	434
91.90	996	104.00	1301	116.00	352	127.00	45608
92.90	5283	105.00	1320	117.00	10596	128.00	3540
93.80	328	106.10	678	118.00	906	129.00	18144
94.90	367	107.00	12607	118.90	494	130.00	1456
131.90	219	143.00	926	155.00	1455	167.00	3942
133.20	267	144.00	270	156.00	1367	168.00	2068
134.00	413	145.90	358	157.10	427	169.10	657
135.00	1266	146.90	958	157.80	503	170.20	164
135.80	327	147.90	2801	159.00	408	170.90	484
137.00	480	149.00	2453	160.10	556	171.80	611
137.90	513	150.00	405	160.90	840	172.80	463
138.90	172	151.00	503	161.60	224	174.00	1156
139.90	211	152.00	165	162.10	245	174.90	1835
140.90	1986	152.90	722	165.00	1145	176.00	762
178.90	3287	191.00	434	201.90	292	214.90	354
179.90	1706	192.00	1324	202.90	495	215.80	295
180.90	833	192.90	1231	204.00	3046	216.90	5741
181.80	263	194.00	393	205.00	4769	217.90	662
183.90	360	194.80	278	206.00	16680	221.00	3918
185.00	1070	195.90	1948	207.00	2460	221.90	462
186.00	10921	197.10	1000	207.90	728	222.90	1281
187.00	2167	197.90	74952	208.80	160	224.00	9306
187.90	524	199.00	5541	210.10	322	225.00	2368
189.00	832	200.00	670	211.10	840	225.90	204
228.00	575	244.00	6787	258.00	1919	285.00	358
228.90	1110	245.10	1272	259.00	404	289.90	174
230.80	232	245.80	1135	263.80	176	293.00	414
234.10	156	247.00	191	265.00	685	295.90	3962
234.80	447	250.70	164	272.90	909	297.00	449
236.60	217	251.90	208	273.90	2965	302.90	693
237.00	198	253.00	428	275.00	10699	313.80	219
237.90	235	254.00	417	275.90	1598	314.80	518
239.10	319	255.00	33912	277.00	1051	316.00	161
241.80	509	255.90	4342	278.10	269	322.90	1331
326.90	333	364.90	1669	443.60	439		
327.80	295	365.90	392				
334.10	571	372.20	548				
334.80	280	401.80	224				
345.80	244	402.80	393				
346.80	180	421.80	173				
351.60	174	422.90	1683				
351.90	174	423.80	331				
353.00	179	440.90	3166				

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 380 (4.314 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.80	267	442.00	25008				

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 382 (4.326 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	411	47.90	343	59.10	166	73.00	1056
37.00	430	49.00	5169	61.00	609	74.00	4950
38.10	1010	50.10	14553	62.10	803	75.00	8936
39.10	6646	51.10	67952	63.00	2640	76.10	2338
40.00	1101	52.10	2872	63.90	299	77.10	56560
41.10	2622	53.10	403	65.10	1868	78.00	4407
42.10	710	54.00	335	67.10	472	79.10	3537
43.10	1292	55.00	1863	68.10	831	80.00	3314
44.00	1918	56.10	2255	69.00	62784	81.00	4999
44.90	277	57.00	4602	70.00	547	82.00	1327
47.10	916	58.00	197	71.10	345	83.10	1519
85.00	675	97.10	374	109.00	635	121.90	1620
86.00	2927	98.00	5253	110.00	34040	123.00	1764
87.00	585	99.00	4553	111.00	5062	124.10	1005
88.10	298	99.90	524	111.90	555	125.00	707
89.00	238	101.00	2724	113.00	269	126.10	352
91.00	1732	102.90	604	114.80	381	127.00	70056
92.00	1219	104.00	1872	115.90	759	128.00	5613
93.00	7284	105.00	1935	117.00	15950	129.00	29784
94.10	535	106.10	541	118.00	1494	130.00	1712
95.00	576	107.00	17608	119.00	314	131.10	775
133.00	518	144.00	350	155.00	2157	165.90	1150
134.00	868	144.90	202	156.00	3266	167.00	7041
135.00	2355	146.00	708	157.00	596	168.00	3433
135.90	670	147.00	1848	158.00	588	169.00	444
137.10	1142	148.00	4333	159.00	536	170.10	408
138.00	271	149.00	3322	159.90	1276	171.10	383
139.00	168	149.90	467	161.00	1608	172.00	762
140.00	397	151.00	810	162.00	648	173.00	824
141.00	3781	151.80	461	163.20	224	174.00	1455
141.90	1027	152.90	1159	164.00	313	175.00	2616
176.90	1198	187.90	592	198.90	8384	210.90	1688
177.80	386	188.90	1506	200.00	626	211.90	643
178.90	5471	189.90	575	201.50	775	215.90	693
180.00	3029	190.90	520	203.00	1073	216.90	11160
181.00	2244	192.00	1772	204.00	4886	217.90	1316
182.00	309	192.90	1507	205.00	8880	218.80	176
182.90	259	194.00	321	206.00	33136	221.00	6739
184.00	850	194.90	287	207.00	4944	221.90	1464
185.00	2252	195.90	4249	207.90	1325	223.00	2582
186.00	19016	197.00	981	208.90	459	224.00	21576
226.00	638	239.00	276	250.80	310	265.90	198
227.00	8905	240.00	246	251.80	271	271.00	311
228.00	1275	240.90	519	253.00	462	271.90	276
229.00	1979	242.00	1501	254.00	514	273.00	3011
229.90	376	242.90	924	254.90	80536	274.00	6175
230.90	1090	244.00	15790	256.00	10674	275.00	31264
233.00	361	245.00	2390	256.90	628	275.90	3736
233.90	657	245.90	2976	258.00	5082	276.90	3098
234.90	749	246.80	344	259.00	992	278.00	643
236.00	532	249.00	603	260.90	188	282.90	516
284.90	517	302.90	1536	332.90	459	365.80	801
288.70	215	303.80	293	334.00	2138	371.00	403
291.80	287	307.90	195	334.90	928	371.90	2275
293.00	597	313.80	651	335.80	190	372.90	508
294.00	241	314.80	1383	340.80	205	382.90	469
294.90	166	315.90	489	341.80	190	390.70	316
296.00	10842	323.00	3323	345.80	752	402.00	531
296.90	1868	323.90	233	352.00	1079	402.90	947
297.70	285	326.70	675	353.00	634	404.00	267

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 382 (4.326 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.90	181	327.90	346	354.00	1075	414.90	246
422.00	595	443.90	1618				
423.00	4764						
423.90	1066						
424.90	197						
430.40	381						
433.60	253						
434.10	197						
435.20	183						
440.90	19560						
442.00	110088						

Data File : C:\MSDCHEM\1\DATA\D05483.D
Acq On : 12/14/11 09:53
Sample : DFTPP8T
Misc : DFTPP8T INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 375 (4.284 min): D05483.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	460	49.10	4403	68.00	317	82.90	298
37.10	225	49.90	618	69.00	571	83.20	298
38.00	226	51.00	1787	71.10	230	84.00	2115
39.10	908	53.10	306	72.90	602	85.00	375
40.00	1237	54.00	288	74.00	176	86.00	1577
41.10	2393	55.10	1443	74.90	156	88.00	265
42.10	518	55.90	846	75.90	297	91.20	611
43.10	1182	57.10	1060	77.00	623	92.00	272
44.00	1806	58.10	176	79.10	249	93.00	308
46.90	1191	65.10	458	81.00	793	95.00	612
47.90	632	67.10	826	82.20	210	96.00	368
104.00	451	135.00	202	189.00	159	411.90	164
104.90	259	141.10	226	191.10	177	461.80	211
106.90	191	147.00	214	192.00	171		
109.20	526	148.00	310	192.90	160		
110.10	216	149.00	6963	205.20	187		
111.00	241	150.00	860	207.00	302		
115.90	220	163.10	224	208.00	165		
122.00	262	164.90	173	223.00	179		
122.90	347	170.70	159	232.00	193		
127.70	174	172.40	159	252.90	156		

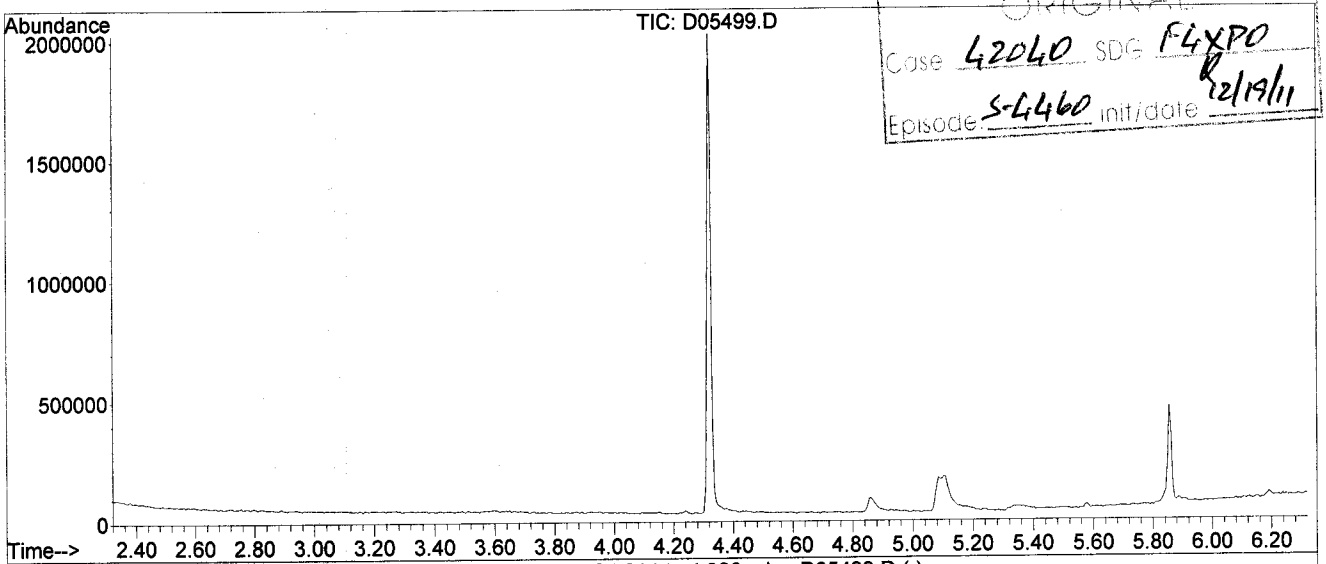
DFTPP

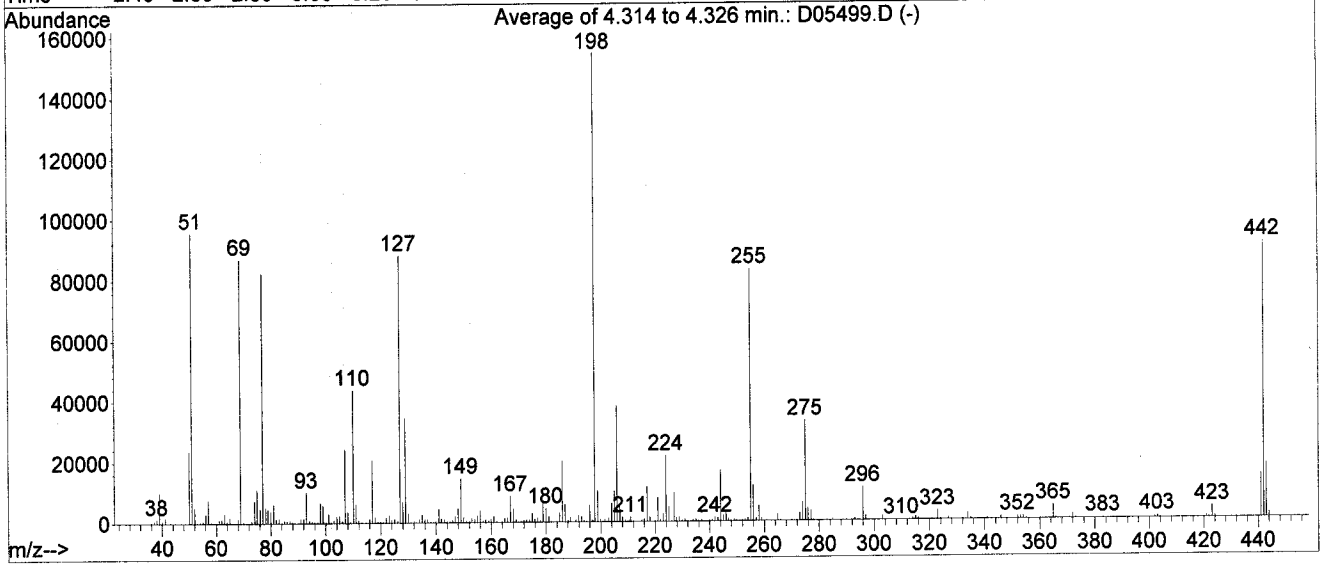
Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/19/11





AutoFind: Scans 380, 381, 382; Background Corrected with Scan 375

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	61.9	95640	PASS
68	69	0.00	2	1.6	1413	PASS
69	198	0.00	100	56.3	87022	PASS
70	69	0.00	2	0.5	440	PASS
127	198	10	80	57.0	88045	PASS
197	198	0.00	2	0.4	547	PASS
198	198	100	100	100.0	154565	PASS
199	198	5	9	6.7	10348	PASS
275	198	10	60	21.3	32965	PASS
365	198	1	100	2.9	4544	PASS
441	443	0.01	100	81.0	14377	PASS
442	198	50	100	58.8	90816	PASS
443	442	15	24	19.5	17740	PASS

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 4.314 to 4.326 min.: D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	409	52.10	5053	62.00	1288	73.00	759
37.05	560	53.00	183	63.05	3118	74.05	7406
38.00	1393	54.00	328	64.00	569	75.00	11122
39.10	10157	55.10	659	65.00	1838	76.05	4598
40.05	552	56.10	2883	66.00	62	77.05	82287
41.10	1788	57.00	7531	66.30	78	78.10	5356
43.05	263	58.10	340	67.05	137	79.00	4555
44.95	273	58.90	173	68.05	1413	80.00	3743
46.90	104	59.10	78	69.00	87022	81.00	6168
50.05	23632	59.90	58	70.00	440	81.95	1345
51.05	95640	61.05	1072	70.95	115	83.05	1577
85.00	793	95.10	403	106.00	697	117.00	20661
85.95	701	96.00	344	107.00	24355	117.95	1838
86.95	744	97.15	455	108.00	3587	118.95	427
87.90	326	98.00	6741	109.05	527	119.95	401
89.20	68	99.00	5705	110.00	43794	120.95	467
90.00	112	100.05	340	110.95	6132	121.95	1781
90.95	1391	101.00	3023	111.95	877	123.00	2508
91.95	1422	101.90	338	112.90	233	123.95	1029
92.95	10129	102.95	972	113.20	108	125.00	1079
94.05	761	104.00	2148	114.60	170	126.15	542
128.00	6786	137.95	240	147.95	4641	157.95	853
129.00	34413	138.20	175	149.00	14571	159.00	590
129.95	3019	139.00	306	150.00	1657	159.95	1222
130.95	344	139.90	337	150.95	516	161.00	2054
132.05	457	141.00	4462	151.90	356	161.85	328
132.75	203	141.95	1271	152.10	219	162.10	143
133.30	98	142.90	1192	152.95	1361	162.90	63
133.95	997	144.00	428	153.95	999	163.70	62
135.00	2675	145.05	465	155.00	2257	164.05	220
135.95	1064	145.95	806	156.00	3875	164.95	1427
167.00	8679	175.95	1052	186.95	5942	196.00	5569
168.00	4597	177.00	1455	187.95	605	196.85	547
169.10	793	177.95	511	188.20	203	197.10	491
169.90	193	178.95	6621	188.95	1542	197.90	154565
170.30	65	179.95	4608	189.80	112	198.95	10348
170.95	394	181.00	1902	190.00	73	199.95	787
171.95	692	181.90	285	190.90	652	200.80	170
172.95	833	182.85	231	191.95	2285	201.55	927
173.90	846	183.95	304	193.00	1823	202.10	132
174.10	512	185.00	3043	193.95	499	202.95	1305
205.00	10101	215.90	918	226.00	406	235.95	498
206.00	38136	216.95	11641	227.00	9553	237.05	512
207.00	4991	218.00	1536	227.95	1281	238.10	65
207.95	1506	219.20	161	228.85	1535	238.80	71
208.95	585	219.80	153	229.85	324	239.05	181
209.95	362	220.10	85	230.80	103	239.70	65
210.35	522	220.95	7929	230.95	814	239.95	297
210.95	1511	221.90	741	231.90	142	241.00	555
211.95	276	222.95	2637	232.95	145	241.95	1185
212.95	176	223.95	21728	233.90	569	243.00	1259
245.00	1986	256.00	11780	269.95	223	281.90	141
245.95	3214	256.95	929	270.90	110	282.60	71
246.85	833	258.00	4997	271.10	93	282.90	193
248.00	158	258.95	860	271.75	273	283.10	111
249.00	535	260.10	55	272.90	2632	284.00	71
249.95	301	261.00	237	274.00	6128	284.95	528
251.05	199	262.90	57	275.00	32965	286.10	78
251.95	331	263.90	67	275.95	4332	288.80	86
253.00	555	264.90	2044	277.00	3379	289.90	203

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 4.314 to 4.326 min.: D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.95	1000	265.95	274	277.85	387	290.80	55
292.95	641	303.80	113	315.95	598	329.70	81
294.00	130	304.10	112	316.90	87	331.80	112
294.70	129	307.80	55	320.95	346	332.00	150
294.90	51	308.00	53	321.95	165	332.80	78
295.95	10942	309.00	66	322.80	321	333.05	216
296.95	1448	309.80	137	323.00	2999	333.90	2092
297.95	152	310.10	50	323.80	84	334.95	452
300.70	93	312.80	128	324.05	298	340.80	65
301.10	83	313.80	97	325.90	93	340.95	420
301.90	71	313.95	544	326.80	745	345.90	908
349.70	65	372.00	1512	421.75	247	433.10	59
349.90	66	372.70	102	422.00	271	435.60	56
350.70	54	372.95	407	423.00	3835	441.00	14377
351.95	1070	382.95	352	424.00	831	442.00	90816
352.90	743	389.95	117	424.90	51	443.00	17740
354.00	982	391.00	70	429.10	51	444.00	1578
355.00	248	402.00	466	429.90	52	445.00	50
360.80	60	402.90	807	430.40	50		
364.90	4544	403.85	309	431.30	66		
365.85	501	414.80	60	431.60	86		

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 381 (4.320 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	648	47.90	368	58.90	193	70.00	846
37.10	781	49.10	5004	61.10	1304	71.10	549
38.10	2557	50.10	34576	62.00	2073	73.10	1452
39.10	14804	51.10	137856	63.10	4713	74.00	10073
40.10	1846	52.10	7245	64.00	765	75.00	14831
41.10	4066	53.00	493	65.00	3036	76.10	5924
42.10	544	54.00	496	65.90	166	77.10	118856
43.00	1459	55.10	1675	66.30	236	78.10	7544
44.00	2979	56.10	4510	67.10	929	79.00	6643
45.00	335	57.00	11330	68.10	1908	80.00	4539
47.00	755	58.10	599	69.00	123800	81.00	9111
83.10	2578	95.20	1078	105.90	936	117.90	2660
84.00	2964	96.10	734	107.00	34272	119.00	480
85.00	1403	97.20	700	108.00	5155	120.00	459
86.00	2850	98.00	9847	109.00	1317	121.00	548
87.00	976	99.00	8363	110.00	62376	122.00	2216
88.00	525	100.00	465	111.00	9363	123.00	4260
90.00	338	101.00	3941	112.00	1362	123.90	1653
91.00	2470	101.90	345	112.90	425	124.90	1250
92.00	1829	102.90	1260	114.60	511	126.00	534
93.00	13851	104.00	3029	116.00	2018	127.00	124056
129.00	49240	139.90	464	150.90	474	161.80	712
130.00	4073	141.00	6397	152.10	658	163.10	402
131.00	924	142.00	1482	153.00	2049	165.00	2176
131.90	546	143.00	2071	154.00	1096	166.00	2265
132.70	378	144.00	488	155.00	3602	167.00	10842
134.00	1526	145.00	564	156.00	6054	168.00	6247
135.00	4282	146.00	1273	157.10	493	169.10	1117
136.00	1319	147.00	2719	157.90	917	169.90	367
137.00	1952	147.90	6484	159.00	718	170.90	433
138.00	486	149.00	20432	159.90	1488	171.90	1168
173.90	1611	185.00	4124	194.90	472	206.00	52720
175.00	4004	186.00	27488	196.00	7726	207.00	7588
176.00	1446	187.00	8783	196.90	1499	207.90	1866
177.00	1753	187.90	755	197.90	212416	209.00	750
178.00	690	188.20	611	198.90	13154	210.30	991
178.90	9793	189.00	2197	199.90	1211	211.00	1911
180.00	7505	189.80	338	201.50	1288	211.90	446
181.00	2092	190.90	1604	202.10	398	212.90	180
181.90	468	192.00	3576	203.00	1523	215.00	654
182.80	277	193.00	2965	204.00	7706	215.90	1214
218.00	2126	228.90	2440	242.00	1471	253.00	810
219.20	485	229.90	383	243.00	1844	253.90	1350
219.80	460	231.00	1408	244.00	22048	255.00	108680
221.00	10705	231.90	267	245.00	2926	256.00	15889
221.90	2225	233.80	496	246.00	4012	256.90	1281
223.00	3149	235.00	724	246.80	1208	258.00	7191
224.00	30120	236.00	847	248.00	297	259.00	1055
225.00	6761	237.10	429	249.00	814	260.10	166
226.10	323	238.80	215	250.00	231	261.00	331
227.00	13597	239.90	344	251.00	386	263.90	203
266.00	485	279.00	236	296.00	14435	314.00	934
266.90	215	281.90	423	296.90	2214	314.90	1401
269.90	230	282.90	581	297.90	212	316.00	655
270.90	331	284.00	213	300.70	281	320.90	551
271.70	430	284.90	898	301.90	213	321.90	234
272.90	3690	289.90	179	303.00	1445	323.00	4626
274.00	7015	290.80	166	304.10	336	324.10	486
275.00	42800	291.80	318	307.80	166	325.90	280
275.90	5821	292.90	792	309.00	199	326.90	1038

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 381 (4.320 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	4344	294.00	218	310.10	152	327.90	533
332.80	235	364.90	5719	421.70	530		
333.90	2295	365.90	349	423.00	3961		
335.00	707	370.80	253	424.00	1042		
341.00	742	372.00	1503	424.90	155		
345.90	1032	373.00	588	431.30	198		
346.80	269	383.00	392	435.60	170		
350.70	163	390.00	158	441.00	17152		
352.00	1521	402.00	676	442.00	104224		
352.90	799	402.90	877	443.00	20832		
354.00	1794	403.80	590	444.00	2007		

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 380 (4.314 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	674	48.10	381	58.90	327	71.00	365
37.00	423	49.00	4533	61.00	1117	73.00	912
38.10	930	50.10	17064	62.00	830	74.10	4168
39.10	8714	51.10	71352	63.00	2121	75.00	7702
40.00	1222	52.10	3864	64.10	604	76.00	3433
41.10	2955	53.00	483	65.00	1507	77.10	58840
42.10	683	54.10	307	66.10	255	78.10	4046
43.00	1695	55.00	1370	67.10	445	79.00	3713
44.00	2766	56.10	2593	68.10	855	80.00	3020
44.90	244	57.00	5540	69.00	64872	81.00	3631
47.00	1015	58.10	243	70.00	318	81.90	884
83.90	1675	97.00	458	108.00	2569	119.90	306
85.00	900	98.00	4105	109.20	755	121.00	501
86.00	2018	99.00	3326	110.00	28984	122.00	873
87.00	425	100.10	225	110.90	4159	123.00	1638
87.90	463	101.00	2144	111.90	721	124.00	597
90.90	1679	101.90	393	112.90	275	125.00	600
91.90	908	103.00	622	115.10	320	126.20	631
93.00	7625	104.00	1539	116.00	690	127.00	55944
94.10	809	105.00	2075	117.00	13869	128.00	3967
95.00	827	106.10	613	118.00	971	129.00	22328
131.00	322	141.90	1011	152.90	710	163.70	187
132.10	422	142.90	951	153.90	672	164.10	240
133.30	296	143.90	195	155.00	1222	164.90	1111
134.00	599	145.10	355	156.00	2354	165.90	768
134.90	2080	145.90	308	157.00	246	167.00	5195
136.00	731	146.90	1170	158.00	570	168.00	3053
137.00	787	148.00	2385	159.00	405	169.10	501
137.90	235	149.00	11314	160.00	730	170.30	195
139.10	152	150.00	1418	161.00	902	170.90	293
139.90	233	151.00	366	161.90	273	171.90	322
173.90	929	186.90	3023	201.50	491	214.90	218
175.00	1916	187.90	348	202.90	658	215.90	308
175.90	654	188.90	729	204.00	3180	216.90	5504
177.00	1063	191.00	268	205.00	4837	217.90	695
177.90	186	192.00	1348	206.00	18752	220.90	3800
178.90	3676	193.00	731	207.00	2873	222.90	1540
180.00	2482	193.90	298	207.90	1093	224.00	10339
181.00	1069	196.00	3193	209.00	361	225.00	2850
182.90	217	196.80	655	210.00	320	226.00	313
185.00	1687	197.90	79120	210.90	863	227.00	4519
228.90	721	241.10	273	254.10	467	274.00	2730
229.90	244	241.90	543	255.00	36944	275.00	13465
230.80	310	242.90	379	256.00	4679	276.00	1599
232.90	159	244.00	8039	256.80	257	277.00	2074
234.00	395	244.90	826	257.90	2013	290.00	151
234.90	253	245.90	1652	259.00	346	291.70	157
236.00	213	247.00	354	259.90	151	292.90	282
237.00	510	248.90	154	260.90	216	296.00	4349
239.10	277	250.10	197	264.90	859	296.90	519
239.70	197	251.90	328	270.00	190	303.00	767
314.80	194	349.70	195	424.00	283		
315.90	376	352.00	278	440.90	3163		
321.00	210	353.10	232	442.00	23456		
322.80	964	365.00	1283	443.00	5141		
323.80	253	366.00	332	443.90	563		
326.90	296	371.90	424				
333.10	209	372.70	308				
333.80	921	402.90	404				
335.00	166	420.90	368				

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 380 (4.314 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
340.80	196	421.90	211				

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 382 (4.326 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	612	48.00	478	59.10	235	70.00	736
37.00	476	49.00	4862	59.90	175	71.00	605
38.00	1478	50.10	20000	61.00	795	73.10	1043
39.10	8609	51.10	82152	62.00	961	74.00	7977
40.00	1379	52.10	4051	63.10	2998	75.00	10833
41.10	3589	53.00	335	63.90	338	76.00	4437
41.90	450	53.90	182	65.00	1705	77.10	69824
43.10	1136	55.10	2084	66.10	221	78.10	4480
44.00	2852	56.10	2808	67.10	450	79.00	4029
44.90	242	57.00	7234	68.00	1477	80.00	3671
46.90	1122	58.00	178	69.00	73848	81.00	7240
83.00	1404	95.10	768	106.00	543	117.90	1883
83.90	2751	96.10	577	107.00	23208	119.00	520
85.00	1088	97.10	667	108.00	3037	120.00	438
86.00	2321	98.00	6271	109.00	773	120.90	354
86.90	832	99.00	5427	110.00	40728	121.90	2255
88.00	455	100.00	330	111.00	5823	123.00	2255
89.20	205	101.00	2985	112.00	549	123.90	1507
90.90	1525	101.90	277	113.20	326	125.10	1389
92.00	1530	103.00	1034	115.00	279	126.20	463
93.00	9603	104.00	2415	116.00	1301	127.00	84136
129.00	31672	139.90	314	151.00	709	162.10	430
129.90	3187	141.00	4472	151.90	686	164.00	420
130.90	729	142.00	1321	153.00	1326	165.00	1589
132.10	403	143.00	1022	154.00	1230	166.00	1480
132.80	233	144.10	602	155.00	2443	167.00	10002
133.90	868	145.10	478	156.00	3218	168.00	4491
135.10	2682	145.90	837	157.00	1103	169.10	763
135.90	1144	147.00	2747	157.90	1072	169.90	214
137.10	1492	148.00	5054	159.00	649	171.00	458
138.20	527	149.00	12444	160.00	1448	172.00	588
174.10	1537	185.00	3319	196.00	5788	207.00	5760
175.00	3151	186.00	22696	197.10	1474	208.00	1560
176.00	1057	187.00	6021	197.90	172160	208.80	645
177.00	1551	188.00	714	199.00	11705	209.90	768
177.90	657	188.90	1702	200.00	1152	210.40	575
179.00	6394	190.00	221	200.80	512	211.00	1759
180.00	4287	190.90	793	201.60	1004	212.00	156
181.00	2545	191.90	1931	202.90	1735	213.00	350
181.90	389	193.00	2791	204.00	7485	215.10	440
182.90	200	194.00	729	205.00	12251	215.90	1233
218.00	1788	230.90	1036	242.00	1542	253.00	693
220.10	257	231.90	161	243.00	1556	254.00	1183
220.90	9282	233.00	277	244.00	20400	255.00	103840
223.00	3224	233.90	818	245.00	2207	256.00	14773
224.00	25600	234.90	893	246.00	3980	257.00	1251
225.00	5375	235.90	434	246.90	939	258.00	5788
225.90	584	237.00	598	248.00	179	258.90	1181
227.00	10544	238.10	196	249.00	639	259.70	153
228.00	1559	239.00	267	249.90	476	261.10	164
228.90	1966	239.90	395	251.10	211	262.90	173
265.90	337	281.10	460	295.90	14042	316.00	763
270.00	251	282.60	215	297.00	1613	316.90	262
271.10	280	283.10	333	298.00	244	321.00	278
271.80	389	285.00	688	301.10	251	322.00	263
272.90	3270	286.10	234	303.10	1540	323.00	4372
274.00	8639	288.80	259	303.80	341	324.00	409
275.00	42632	289.80	281	308.00	159	326.70	902
276.00	5578	291.90	301	309.80	412	327.90	352
277.00	3721	293.00	849	312.80	181	329.70	244

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 382 (4.326 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	566	294.00	173	313.90	698	332.00	450
334.00	3060	365.80	822	420.90	1093	442.00	144768
334.90	484	370.80	565	422.00	815	443.00	27248
340.90	519	372.00	2610	423.00	6106	444.00	2164
345.90	1406	372.90	634	424.00	1169	445.00	150
349.90	198	382.90	664	429.10	153		
351.90	1412	389.90	195	429.90	157		
352.90	1200	391.00	212	430.40	150		
354.00	1154	402.00	722	431.60	258		
354.90	403	402.90	1142	432.20	282		
360.80	181	403.90	337	433.10	177		

Data File : C:\MSDCHEM\1\DATA\D05499.D
Acq On : 12/15/11 09:55
Sample : DFTPP8V
Misc : DFTPP8V INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SV
Inst : D-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 375 (4.284 min): D05499.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	235	50.00	248	70.00	193	87.80	155
38.00	262	51.00	1480	70.90	391	91.10	500
39.10	552	53.00	254	73.00	376	92.90	230
40.10	930	55.20	1050	77.00	219	93.30	228
41.10	1748	56.10	420	79.10	240	95.10	212
42.10	792	57.00	503	81.10	492	95.90	247
43.10	1167	63.20	159	82.20	161	97.00	198
44.10	3330	65.10	244	83.10	260	104.00	179
46.90	860	66.00	152	84.00	2188	109.10	421
48.20	471	67.00	471	85.20	337	110.10	235
49.00	5281	69.20	484	85.90	1695	111.10	316
117.00	151	155.10	165	232.20	306		
121.20	174	157.00	169	259.60	185		
123.10	209	163.10	161	281.00	249		
124.10	223	165.10	198				
131.00	314	179.90	150				
135.00	339	190.90	236				
136.20	193	193.00	339				
136.90	237	196.90	171				
142.80	156	207.00	416				
147.20	208	223.90	291				

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: SBLK67

Sample wt/vol: 30.00 (g/mL) G Lab File ID: D05486

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

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

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

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

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: SBLK67

Sample wt/vol: 30.00 (g/mL) G Lab File ID: D05486

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

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

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/14/2011

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

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine 1	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: SBLK67

Sample wt/vol: 30.00 (g/mL) G Lab File ID: D05486

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

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

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) Date Analyzed: 12/14/2011

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 15 10:10:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration

12/29/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2846222	20.0000 ug/L	0.00
16) Naphthalene-d8	8.37	136	13185852	20.0000 ug/L	0.00
33) Acenaphthene-d10	12.29	164	8066498	20.0000 ug/L	0.00
59) Phenanthrene-d10	14.32	188	15107236	20.0000 ug/L	0.00
73) Chrysene-d12	17.15	240	14844471	20.0000 ug/L	0.00
81) Perylene-d12	18.98	264	13285248	20.0000 ug/L	0.00
System Monitoring Compounds					
3) Phenol-d5	5.12	99	14939641	35.9283 ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 89.82%		
5) Bis(2-chloroethyl)ether-d8	5.11	67	5584549	32.8037 ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 82.01%		
7) 2-Chlorophenol-d4	5.25	132	7032449	35.7026 ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 89.26%		
12) 4-Methylphenol-d8	6.61	113	6153666	34.2773 ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 85.69%		
17) Nitrobenzene-d5	6.85	128	3405271	34.6232 ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 86.56%		
20) 2-Nitrophenol-d4	7.57	143	3516644	37.5399 ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 93.85%		
24) 2,4-Dichlorophenol-d3	8.15	165	5554582	32.7343 ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 81.84%		
27) 4-Chloroaniline-d4	8.66	131	8725374	46.1539 ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 115.38%		
41) Acenaphthylene-d8	12.00	160	25408421	33.9706 ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 84.93%		
43) Dimethylphthalate-d6	11.95	166	17283051	34.2018 ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 85.50%		
49) 4-Nitrophenol-d4	12.75	143	2272257	31.8133 ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 79.53%		
56) Fluorene-d10	13.09	176	15625545	32.3737 ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 80.93%		
60) 4,6-Dinitro-2-methylphenol	13.34	200	1065212	22.1283 ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 55.32%		
68) Anthracene-d10	14.38	188	26835765	33.1150 ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 82.79%		
79) Pyrene-d10	15.89	212	27890243	32.5857 ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 81.46%		
85) Benzo(a)pyrene-d12	18.86	264	19707930	31.7976 ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery = 79.49%		

Target Compounds	Qvalue

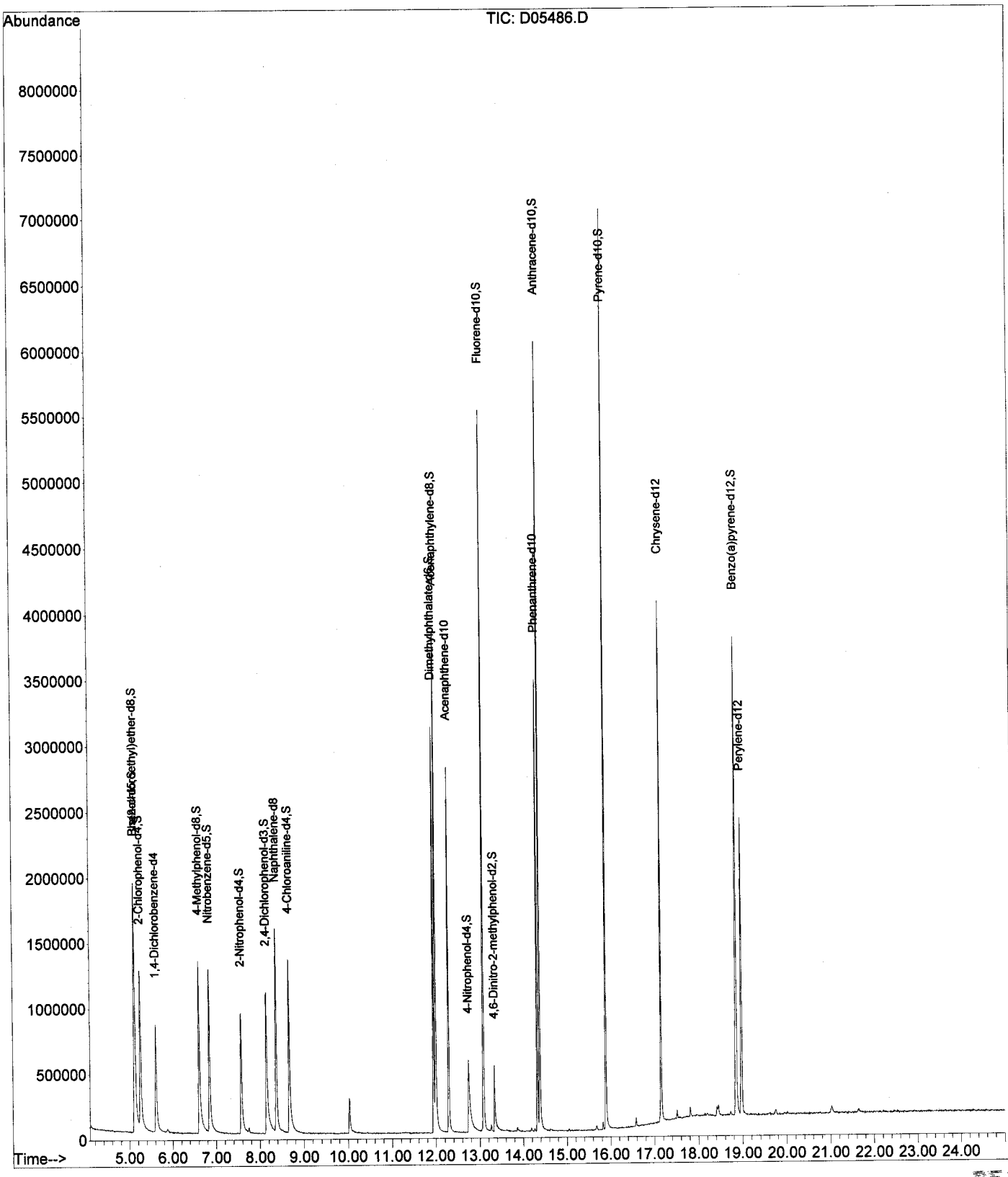
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0528

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 15 10:10:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:51 2011
Response via : Initial Calibration



0529

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	12	14	17	PV 4	5571	47664	0.07%	0.004%
2	4.196	17	20	22	PV 4	8194	64264	0.09%	0.005%
3	4.214	22	23	27	PV 4	4145	48938	0.07%	0.004%
4	4.249	27	29	31	VV 3	7491	65267	0.09%	0.005%
5	4.279	31	34	35	VV 3	4551	30387	0.04%	0.002%
6	4.296	35	37	40	VV 4	3260	33273	0.05%	0.002%
7	4.320	40	41	46	VV 4	6406	73237	0.10%	0.005%
8	4.355	46	47	52	VV 5	7406	91303	0.13%	0.007%
9	4.402	52	55	60	VV 7	6838	98597	0.14%	0.007%
10	4.443	60	62	65	VV 4	6389	42049	0.06%	0.003%
11	4.473	65	67	69	PV 3	6627	53438	0.08%	0.004%
12	4.496	69	71	79	VV 9	5279	161737	0.23%	0.012%
13	4.555	79	81	85	VV 5	6717	88179	0.13%	0.007%
14	4.590	85	87	95	VV 9	9944	226376	0.32%	0.017%
15	4.649	95	97	99	PV 3	5840	40968	0.06%	0.003%
16	4.679	99	102	114	PV 3	5281	205966	0.29%	0.015%
17	4.767	114	117	124	VV 8	7101	166138	0.24%	0.012%
18	4.820	124	126	129	VV 4	5928	73692	0.11%	0.005%
19	4.855	129	132	133	VV 3	4443	50695	0.07%	0.004%
20	4.873	133	135	137	VV 3	8604	89555	0.13%	0.007%
21	4.896	137	139	150	VV 3	10015	286067	0.41%	0.021%
22	4.979	150	153	155	VV 4	6202	66293	0.09%	0.005%
23	5.002	155	157	159	VV 3	7723	68813	0.10%	0.005%
24	5.026	159	161	164	VV 4	8190	73114	0.10%	0.005%
25	5.055	164	166	169	PV 3	7780	82860	0.12%	0.006%
26	5.120	169	177	194	VV 3	1878156	45039619	64.46%	3.352%
27	5.255	194	200	232	VV	1218469	31017157	44.39%	2.308%
28	5.449	232	233	246	VV	23365	889053	1.27%	0.066%
29	5.531	246	247	254	VV 7	13576	364962	0.52%	0.027%
30	5.614	254	261	279	VV	814383	19296868	27.62%	1.436%
31	5.731	279	281	290	VV 9	25879	779174	1.12%	0.058%
32	5.796	290	292	296	VV 5	17976	296358	0.42%	0.022%
33	5.878	296	306	315	VV 5	31313	1117722	1.60%	0.083%
34	5.943	315	317	323	VV 7	12056	280286	0.40%	0.021%
35	5.990	323	325	327	VV 3	10715	92524	0.13%	0.007%
36	6.014	327	329	334	VV 5	10615	143013	0.20%	0.011%
37	6.067	334	338	341	VV 6	8314	131248	0.19%	0.010%
38	6.108	341	345	351	VV 8	10005	185197	0.27%	0.014%
39	6.161	351	354	357	VV 5	7019	96500	0.14%	0.007%
40	6.196	357	360	366	VV 8	6031	104449	0.15%	0.008%
41	6.243	366	368	372	PV 5	6013	80234	0.11%	0.006%
42	6.278	372	374	379	VV 6	5507	100595	0.14%	0.007%
43	6.320	379	381	384	VV 3	6335	82959	0.12%	0.006%
44	6.349	384	386	388	VV 3	9236	82594	0.12%	0.006%

0538

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	6.373	388	390	391	VV	2	5831	52519	0.08%	0.004%
46	6.390	391	393	401	VV	9	9725	158842	0.23%	0.012%
47	6.449	401	403	405	VV	3	6376	61461	0.09%	0.005%
48	6.478	405	408	411	VV	5	7025	83404	0.12%	0.006%
49	6.508	411	413	414	VV	2	4188	35703	0.05%	0.003%
50	6.526	414	416	419	VV	4	6797	69462	0.10%	0.005%
51	6.567	419	423	425	VV	5	5279	80711	0.12%	0.006%
52	6.614	425	431	465	VV		1275675	31128440	44.55%	2.316%
53	6.849	465	471	505	VV		1214577	27160755	38.87%	2.021%
54	7.055	505	506	510	VV	4	17350	231643	0.33%	0.017%
55	7.090	510	512	515	VV	3	15998	228419	0.33%	0.017%
56	7.120	515	517	519	VV	3	14429	128361	0.18%	0.010%
57	7.155	519	523	526	VV	6	10955	221973	0.32%	0.017%
58	7.196	526	530	532	VV	4	8927	127439	0.18%	0.009%
59	7.225	532	535	544	VV	4	9692	303777	0.43%	0.023%
60	7.308	544	549	555	VV	9	5800	154200	0.22%	0.011%
61	7.361	555	558	560	VV	4	4919	47889	0.07%	0.004%
62	7.390	560	563	564	VV	3	4643	43990	0.06%	0.003%
63	7.408	564	566	568	VV	3	4565	40941	0.06%	0.003%
64	7.431	568	570	574	VV	5	4633	47019	0.07%	0.003%
65	7.467	574	576	586	VV	10	6369	186589	0.27%	0.014%
66	7.572	586	594	618	PV		914869	20485689	29.32%	1.524%
67	7.720	618	619	620	VV		24183	225690	0.32%	0.017%
68	7.749	620	624	633	VV	6	45033	979853	1.40%	0.073%
69	7.814	633	635	642	VV	8	11115	253624	0.36%	0.019%
70	7.867	642	644	661	VV	8	8368	411603	0.59%	0.031%
71	7.978	661	663	665	VV	3	6101	67396	0.10%	0.005%
72	8.008	665	668	670	VV	4	4798	74106	0.11%	0.006%
73	8.055	670	676	683	VV	4	6379	178210	0.26%	0.013%
74	8.149	683	692	722	VV		1085998	27992493	40.06%	2.083%
75	8.372	722	730	745	VV		1533855	29251444	41.87%	2.177%
76	8.467	745	746	760	VV	9	39368	1436977	2.06%	0.107%
77	8.561	760	762	766	VV	5	20472	383416	0.55%	0.029%
78	8.596	766	768	774	VV	7	18927	372362	0.53%	0.028%
79	8.667	774	780	822	VV		1275028	30298521	43.37%	2.255%
80	8.925	822	824	826	VV	3	15645	187841	0.27%	0.014%
81	8.943	826	827	832	VV	5	13534	229871	0.33%	0.017%
82	8.984	832	834	839	VV	6	10244	188524	0.27%	0.014%
83	9.019	839	840	849	VV	9	8951	223382	0.32%	0.017%
84	9.102	849	854	858	VV	8	9662	205874	0.29%	0.015%
85	9.137	858	860	866	VV	7	9166	169170	0.24%	0.013%
86	9.196	866	870	871	VV	4	6194	94023	0.13%	0.007%
87	9.214	871	873	877	VV	5	7901	99637	0.14%	0.007%
88	9.255	877	880	886	VV	8	7422	162299	0.23%	0.012%
89	9.308	886	889	891	VV	4	7450	89302	0.13%	0.007%
90	9.372	891	900	903	VV	9	8843	217125	0.31%	0.016%
91	9.414	903	907	910	VV	6	6482	108316	0.16%	0.008%

0531

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	9.449	910	913	920	VV	9	9532	201283	0.29%	0.015%
93	9.514	920	924	926	VV	4	8384	100767	0.14%	0.007%
94	9.531	926	927	931	VV	4	7816	99322	0.14%	0.007%
95	9.561	931	932	939	VV	6	6307	147376	0.21%	0.011%
96	9.614	939	941	944	VV	4	8017	90703	0.13%	0.007%
97	9.649	944	947	949	VV	3	8109	88265	0.13%	0.007%
98	9.684	949	953	958	VV	7	6471	142623	0.20%	0.011%
99	9.725	958	960	964	VV	4	4451	54188	0.08%	0.004%
100	9.772	964	968	969	PV	4	4638	38082	0.05%	0.003%
101	9.784	969	970	974	VV	4	3440	46003	0.07%	0.003%
102	9.825	974	977	979	VV	4	6417	86670	0.12%	0.006%
103	9.855	979	982	985	VV	3	9142	121772	0.17%	0.009%
104	9.890	985	988	990	VV	4	4909	76236	0.11%	0.006%
105	9.914	990	992	996	VV	5	10261	124553	0.18%	0.009%
106	9.955	996	999	1000	VV	3	8497	90738	0.13%	0.007%
107	9.966	1000	1001	1004	VV	3	6695	75396	0.11%	0.006%
108	10.031	1004	1012	1023	VV		269397	5587089	8.00%	0.416%
109	10.108	1023	1025	1032	VV	8	25642	631390	0.90%	0.047%
110	10.161	1032	1034	1036	VV	3	16195	193501	0.28%	0.014%
111	10.184	1036	1038	1042	VV	5	11599	172469	0.25%	0.013%
112	10.237	1042	1047	1049	VV	6	11533	263380	0.38%	0.020%
113	10.266	1049	1052	1054	VV	4	11611	145641	0.21%	0.011%
114	10.284	1054	1055	1057	VV	2	9566	85806	0.12%	0.006%
115	10.313	1057	1060	1062	VV	4	9586	107526	0.15%	0.008%
116	10.337	1062	1064	1066	VV	3	6017	71936	0.10%	0.005%
117	10.361	1066	1068	1072	VV	5	7474	106649	0.15%	0.008%
118	10.431	1072	1080	1084	VV	5	10527	266887	0.38%	0.020%
119	10.455	1084	1084	1087	VV		4539	44539	0.06%	0.003%
120	10.484	1087	1089	1093	VV	5	6064	98968	0.14%	0.007%
121	10.537	1093	1098	1100	VV	6	4776	81857	0.12%	0.006%
122	10.584	1100	1106	1110	VV	9	6845	138292	0.20%	0.010%
123	10.661	1110	1119	1122	VV	9	7162	160415	0.23%	0.012%
124	10.690	1122	1124	1127	VV	4	6709	68074	0.10%	0.005%
125	10.713	1127	1128	1132	VV	3	5227	72261	0.10%	0.005%
126	10.755	1132	1135	1139	VV	5	5313	74425	0.11%	0.006%
127	10.796	1139	1142	1146	VV	5	6203	93026	0.13%	0.007%
128	10.825	1146	1147	1152	VV	4	3817	68305	0.10%	0.005%
129	10.902	1152	1160	1162	VV	8	8700	161400	0.23%	0.012%
130	10.931	1162	1165	1168	VV	5	6738	82373	0.12%	0.006%
131	10.972	1168	1172	1175	VV	6	4732	78638	0.11%	0.006%
132	11.031	1175	1182	1184	VV	8	7454	126691	0.18%	0.009%
133	11.055	1184	1186	1189	VV	4	6353	71498	0.10%	0.005%
134	11.084	1189	1191	1193	VV	3	5550	45288	0.06%	0.003%
135	11.119	1193	1197	1199	PV	5	5749	56979	0.08%	0.004%
136	11.161	1199	1204	1206	VV	5	5846	104766	0.15%	0.008%
137	11.178	1206	1207	1209	VV	2	7236	51774	0.07%	0.004%
138	11.202	1209	1211	1213	VV	3	6517	74776	0.11%	0.006%
139	11.243	1213	1218	1220	VV	5	7456	136789	0.20%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.266	1220	1222	1225	VV	3	7845	132116	0.19%	0.010%
141	11.302	1225	1228	1232	VV	6	13200	193304	0.28%	0.014%
142	11.355	1232	1237	1245	VV	6	9188	288833	0.41%	0.021%
143	11.408	1245	1246	1250	VV	4	7529	41940	0.06%	0.003%
144	11.466	1250	1256	1261	PV	10	6327	124324	0.18%	0.009%
145	11.502	1261	1262	1264	VV	2	7876	69663	0.10%	0.005%
146	11.531	1264	1267	1269	VV	4	6446	73930	0.11%	0.006%
147	11.549	1269	1270	1274	VV	4	8917	80497	0.12%	0.006%
148	11.578	1274	1275	1280	VV	5	5827	66890	0.10%	0.005%
149	11.619	1280	1282	1289	PV	8	7016	130654	0.19%	0.010%
150	11.672	1289	1291	1294	VV	4	5793	73572	0.11%	0.005%
151	11.713	1294	1298	1306	VV	9	5542	157533	0.23%	0.012%
152	11.778	1306	1309	1313	VV	6	4013	110432	0.16%	0.008%
153	11.819	1313	1316	1318	VV	4	5399	64331	0.09%	0.005%
154	11.843	1318	1320	1322	VV	3	5585	49518	0.07%	0.004%
155	11.860	1322	1323	1325	VV	2	3510	28662	0.04%	0.002%
156	11.896	1325	1329	1332	VV	5	5401	78385	0.11%	0.006%
157	11.949	1332	1338	1342	VV		2958118	37365640	53.48%	2.781%
158	11.996	1342	1346	1372	VV		3872076	57381674	82.13%	4.270%
159	12.160	1372	1374	1378	VV	5	16270	257126	0.37%	0.019%
160	12.190	1378	1379	1382	VV	3	13701	176949	0.25%	0.013%
161	12.219	1382	1384	1386	VV	2	14425	169076	0.24%	0.013%
162	12.243	1386	1388	1390	VV	3	10762	124700	0.18%	0.009%
163	12.290	1390	1396	1417	VV		2674134	34922682	49.98%	2.599%
164	12.437	1417	1421	1425	VV	7	12378	286360	0.41%	0.021%
165	12.472	1425	1427	1431	VV	5	9864	136887	0.20%	0.010%
166	12.502	1431	1432	1434	VV	2	6501	57074	0.08%	0.004%
167	12.525	1434	1436	1440	VV	4	9055	137615	0.20%	0.010%
168	12.566	1440	1443	1447	VV	6	5133	95034	0.14%	0.007%
169	12.602	1447	1449	1451	VV	3	6045	71053	0.10%	0.005%
170	12.619	1451	1452	1455	VV	3	9554	73559	0.11%	0.005%
171	12.655	1455	1458	1462	VV	5	4908	108044	0.15%	0.008%
172	12.684	1462	1463	1468	VV	5	6583	80801	0.12%	0.006%
173	12.749	1468	1474	1505	VV		544180	17636450	25.24%	1.312%
174	12.937	1505	1506	1516	VV	9	27140	851035	1.22%	0.063%
175	13.007	1516	1518	1519	VV	2	16174	151123	0.22%	0.011%
176	13.025	1519	1521	1523	VV	3	19619	185310	0.27%	0.014%
177	13.084	1523	1531	1554	VV		5209959	62425782	89.35%	4.645%
178	13.260	1554	1561	1570	VV	4	57249	1277689	1.83%	0.095%
179	13.337	1570	1574	1598	VV		483729	9603710	13.75%	0.715%
180	13.484	1598	1599	1602	VV	3	20741	271931	0.39%	0.020%
181	13.513	1602	1604	1608	VV	4	18781	333410	0.48%	0.025%
182	13.554	1608	1611	1613	VV	4	16958	245558	0.35%	0.018%
183	13.578	1613	1615	1618	VV	4	13384	195213	0.28%	0.015%
184	13.619	1618	1622	1624	VV	5	18174	340669	0.49%	0.025%
185	13.637	1624	1625	1631	VV	6	16451	319468	0.46%	0.024%
186	13.684	1631	1633	1635	VV	3	12733	165867	0.24%	0.012%

0533

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	13.713	1635	1638	1641	VV	4	11829	169831	0.24%	0.013%
188	13.743	1641	1643	1648	VV	5	9189	200837	0.29%	0.015%
189	13.790	1648	1651	1652	VV	3	11800	123045	0.18%	0.009%
190	13.807	1652	1654	1658	VV	5	10116	181611	0.26%	0.014%
191	13.866	1658	1664	1678	VV	5	35350	955889	1.37%	0.071%
192	13.966	1678	1681	1683	VV	4	10700	114831	0.16%	0.009%
193	13.990	1683	1685	1691	VV	7	9331	170396	0.24%	0.013%
194	14.078	1691	1700	1705	VV	7	10006	306474	0.44%	0.023%
195	14.119	1705	1707	1710	VV	4	8557	120894	0.17%	0.009%
196	14.190	1710	1719	1727	VV	3	30305	632757	0.91%	0.047%
197	14.260	1727	1731	1737	VV	8	23417	435738	0.62%	0.032%
198	14.325	1737	1742	1748	VV		3477361	37968295	54.34%	2.825%
199	14.384	1748	1752	1782	VV		5787316	67197397	96.18%	5.000%
200	14.572	1782	1784	1790	VV	7	12954	241241	0.35%	0.018%
201	14.619	1790	1792	1797	VV	5	20265	339078	0.49%	0.025%
202	14.660	1797	1799	1801	VV	3	14311	181167	0.26%	0.013%
203	14.684	1801	1803	1805	VV	3	9854	90804	0.13%	0.007%
204	14.707	1805	1807	1809	VV	3	9599	116785	0.17%	0.009%
205	14.731	1809	1811	1812	VV	2	8588	70455	0.10%	0.005%
206	14.760	1812	1816	1820	VV	7	7289	132541	0.19%	0.010%
207	14.819	1820	1826	1831	VV	10	8556	197791	0.28%	0.015%
208	14.860	1831	1833	1835	VV	3	6429	72389	0.10%	0.005%
209	14.884	1835	1837	1839	VV	3	7002	82788	0.12%	0.006%
210	14.907	1839	1841	1851	VV	9	6496	180576	0.26%	0.013%
211	14.978	1851	1853	1856	VV	4	5998	70383	0.10%	0.005%
212	15.001	1856	1857	1862	VV	5	5203	68455	0.10%	0.005%
213	15.048	1862	1865	1870	VV		17139	274212	0.39%	0.020%
214	15.084	1870	1871	1875	VV	4	7087	85556	0.12%	0.006%
215	15.113	1875	1876	1882	VV	6	8109	125622	0.18%	0.009%
216	15.178	1882	1887	1890	VV	7	9589	105967	0.15%	0.008%
217	15.207	1890	1892	1894	VV	3	6331	52453	0.08%	0.004%
218	15.260	1894	1901	1909	VV	3	7011	259973	0.37%	0.019%
219	15.331	1909	1913	1916	VV	5	5960	91210	0.13%	0.007%
220	15.354	1916	1917	1920	VV	3	3802	34085	0.05%	0.003%
221	15.390	1920	1923	1926	VV	5	7188	96753	0.14%	0.007%
222	15.425	1926	1929	1932	VV	5	5478	71866	0.10%	0.005%
223	15.454	1932	1934	1938	PV	5	5270	92106	0.13%	0.007%
224	15.490	1938	1940	1942	VV	3	8107	81489	0.12%	0.006%
225	15.513	1942	1944	1951	VV	7	8022	183860	0.26%	0.014%
226	15.572	1951	1954	1957	VV	5	9722	117916	0.17%	0.009%
227	15.613	1957	1961	1965	VV	7	7432	146365	0.21%	0.011%
228	15.678	1965	1972	1981	VV	3	36907	841185	1.20%	0.063%
229	15.743	1981	1983	1985	VV	3	8783	111947	0.16%	0.008%
230	15.766	1985	1987	1990	VV	3	10277	116191	0.17%	0.009%
231	15.790	1990	1991	1993	VV	2	9665	75287	0.11%	0.006%
232	15.825	1993	1997	2002	VV		62180	833268	1.19%	0.062%
233	15.895	2002	2009	2024	VV		6530612	69868107	100.00%	5.199%
234	16.001	2024	2027	2031	VV	6	24922	525582	0.75%	0.039%

0534

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	16.031	2031	2032	2038	VV	6	22844	548829	0.79%	0.041%
236	16.084	2038	2041	2043	VV	4	22574	349734	0.50%	0.026%
237	16.113	2043	2046	2050	VV	5	22022	423503	0.61%	0.032%
238	16.148	2050	2052	2054	VV	3	19490	227929	0.33%	0.017%
239	16.272	2054	2073	2075	VV	3	22828	1398607	2.00%	0.104%
240	16.301	2075	2078	2082	VV	6	19289	451724	0.65%	0.034%
241	16.413	2082	2097	2101	VV	6	27197	1464939	2.10%	0.109%
242	16.454	2101	2104	2111	VV	9	29140	815120	1.17%	0.061%
243	16.513	2111	2114	2116	VV	4	29892	513856	0.74%	0.038%
244	16.584	2116	2126	2138	VV	2	92519	2968719	4.25%	0.221%
245	16.737	2138	2152	2157	VV	2	39014	2330951	3.34%	0.173%
246	16.784	2157	2160	2163	VV	5	41024	812731	1.16%	0.060%
247	16.913	2163	2182	2185	VV	5	49439	3219887	4.61%	0.240%
248	16.942	2185	2187	2189	VV	3	46197	704972	1.01%	0.052%
249	17.037	2189	2203	2206	VV	3	53957	2944541	4.21%	0.219%
250	17.154	2206	2223	2236	VV		3924929	49163091	70.37%	3.658%
251	17.242	2236	2238	2259	VV		80739	5843603	8.36%	0.435%
252	17.419	2259	2268	2271	VV		79174	3355306	4.80%	0.250%
253	17.478	2271	2278	2280	VV	8	85717	2582594	3.70%	0.192%
254	17.513	2280	2284	2290	VV	9	144092	3652758	5.23%	0.272%
255	17.560	2290	2292	2303	VV	9	92162	3860352	5.53%	0.287%
256	17.725	2303	2320	2322	VV	9	97650	6260230	8.96%	0.466%
257	17.760	2322	2326	2328	VV	5	98061	1859470	2.66%	0.138%
258	17.813	2328	2335	2343	VV		164798	5968206	8.54%	0.444%
259	17.960	2343	2360	2369	VV		107912	9300406	13.31%	0.692%
260	18.084	2369	2381	2382	VV		103609	4618299	6.61%	0.344%
261	18.113	2382	2386	2388	VV	5	105575	1884779	2.70%	0.140%
262	18.148	2388	2392	2395	VV	5	117070	2779104	3.98%	0.207%
263	18.201	2395	2401	2408	VV	5	114748	4808216	6.88%	0.358%
264	18.260	2408	2411	2415	VV	6	108363	2616998	3.75%	0.195%
265	18.301	2415	2418	2433	VV	6	104172	6406751	9.17%	0.477%
266	18.419	2433	2438	2440	VV		164583	3464660	4.96%	0.258%
267	18.448	2440	2443	2459	VV	2	176207	8134395	11.64%	0.605%
268	18.578	2459	2465	2474	VV	2	105132	5294880	7.58%	0.394%
269	18.642	2474	2476	2479	VV	4	106941	1867787	2.67%	0.139%
270	18.672	2479	2481	2487	VV	7	106223	2644747	3.79%	0.197%
271	18.731	2487	2491	2496	VV	6	127470	3738320	5.35%	0.278%
272	18.778	2496	2499	2504	VV	6	105650	2999108	4.29%	0.223%
273	18.854	2504	2512	2527	VV	2	3653853	67109757	96.05%	4.994%
274	18.978	2527	2533	2556	VV		2313546	46484870	66.53%	3.459%
275	19.131	2556	2559	2565	VV	8	105642	3401304	4.87%	0.253%
276	19.172	2565	2566	2568	VV	2	107739	1032622	1.48%	0.077%
277	19.207	2568	2572	2574	VV	5	108158	2305111	3.30%	0.172%
278	19.242	2574	2578	2583	VV	8	105524	3010909	4.31%	0.224%
279	19.284	2583	2585	2595	VV	8	106251	4448866	6.37%	0.331%
280	19.360	2595	2598	2604	VV	8	105136	3227447	4.62%	0.240%
281	19.413	2604	2607	2610	VV	5	101899	1894006	2.71%	0.141%

0535

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	19.448	2610	2613	2626	VV	5	104490	5663406	8.11%	0.421%
283	19.607	2626	2640	2643	VV	5	109305	6475216	9.27%	0.482%
284	19.631	2643	2644	2654	VV	10	114153	3880937	5.55%	0.289%
285	19.754	2654	2665	2676	VV	10	136056	8544553	12.23%	0.636%
286	19.836	2676	2679	2705	VV	10	108924	10322788	14.77%	0.768%
287	20.013	2705	2709	2718	VV	10	117146	4919950	7.04%	0.366%
288	20.072	2718	2719	2724	VV	5	107019	2505634	3.59%	0.186%
289	20.119	2724	2727	2733	VV	8	107395	2975071	4.26%	0.221%
290	20.160	2733	2734	2742	VV	7	106171	3250513	4.65%	0.242%
291	20.213	2742	2743	2746	VV	3	105972	1674731	2.40%	0.125%
292	20.248	2746	2749	2768	VV	3	106306	7694402	11.01%	0.573%
293	20.372	2768	2770	2780	VV	3	104930	4515882	6.46%	0.336%
294	20.454	2780	2784	2787	VV	6	106974	2660297	3.81%	0.198%
295	20.489	2787	2790	2798	VV	10	108021	3749078	5.37%	0.279%
296	20.548	2798	2800	2801	VV	2	105940	1258275	1.80%	0.094%
297	20.566	2801	2803	2806	VV	4	104901	1905817	2.73%	0.142%
298	20.619	2806	2812	2816	VV	9	108549	3625775	5.19%	0.270%
299	20.672	2816	2821	2826	VV	9	108155	3499707	5.01%	0.260%
300	20.713	2826	2828	2830	VV	3	109689	1599396	2.29%	0.119%
301	20.766	2830	2837	2841	VV	10	110948	4171474	5.97%	0.310%
302	20.825	2841	2847	2851	VV	9	105350	3502154	5.01%	0.261%
303	20.878	2851	2856	2868	VV	9	108530	5965514	8.54%	0.444%
304	21.030	2868	2882	2891	VV	9	154906	10007845	14.32%	0.745%
305	21.101	2891	2894	2910	VV	9	113737	7101378	10.16%	0.528%
306	21.207	2910	2912	2915	VV	4	106858	1789845	2.56%	0.133%
307	21.272	2915	2923	2926	VV	10	110305	4357124	6.24%	0.324%
308	21.348	2926	2936	2946	VV	10	112269	7093125	10.15%	0.528%
309	21.419	2946	2948	2958	VV	10	109658	4762536	6.82%	0.354%
310	21.513	2958	2964	2967	VV	8	107930	3104497	4.44%	0.231%
311	21.548	2967	2970	2975	VV	7	111412	3022917	4.33%	0.225%
312	21.595	2975	2978	2980	VV	4	110633	1893876	2.71%	0.141%
313	21.648	2980	2987	3000	VV	4	130882	8233936	11.78%	0.613%
314	21.736	3000	3002	3014	VV	4	107085	5045135	7.22%	0.375%
315	21.819	3014	3016	3018	VV	3	104346	1700661	2.43%	0.127%
316	21.842	3018	3020	3027	VV	8	107930	3096467	4.43%	0.230%
317	21.895	3027	3029	3032	VV	4	111722	1833497	2.62%	0.136%
318	21.924	3032	3034	3035	VV	2	108638	1261841	1.81%	0.094%
319	21.942	3035	3037	3042	VV	6	111043	2741751	3.92%	0.204%
320	21.989	3042	3045	3052	VV	9	109988	3610877	5.17%	0.269%
321	22.060	3052	3057	3068	VV	9	108395	6105866	8.74%	0.454%
322	22.142	3068	3071	3076	VV	7	112953	2716436	3.89%	0.202%
323	22.207	3076	3082	3111	VV	7	116026	13157607	18.83%	0.979%
324	22.389	3111	3113	3117	VV	5	106399	2312314	3.31%	0.172%
325	22.466	3117	3126	3133	VV	5	109337	6005835	8.60%	0.447%
326	22.554	3133	3141	3146	VV	5	112601	4675363	6.69%	0.348%
327	22.607	3146	3150	3154	VV	7	107816	2924375	4.19%	0.218%
328	22.701	3154	3166	3177	VV	7	106630	8589212	12.29%	0.639%
329	22.807	3177	3184	3197	VV	7	109326	7105427	10.17%	0.529%

4526

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

330	22.930	3197	3205	3219	VV	7	109491	8391515	12.01%	0.624%
331	23.019	3219	3220	3230	VV	10	108387	3974063	5.69%	0.296%
332	23.089	3230	3232	3252	VV	10	109451	8281480	11.85%	0.616%
333	23.260	3252	3261	3279	VV	10	111110	9885026	14.15%	0.736%
334	23.389	3279	3283	3303	VV	10	107571	8971420	12.84%	0.668%
335	23.554	3303	3311	3321	VV	10	110495	6508794	9.32%	0.484%
336	23.642	3321	3326	3335	VV	10	109210	5300984	7.59%	0.394%
337	23.760	3335	3346	3351	VV	10	108480	5785698	8.28%	0.431%
338	23.807	3351	3354	3358	VV	6	105957	2702308	3.87%	0.201%
339	23.866	3358	3364	3387	VV	6	110654	10383052	14.86%	0.773%
340	24.030	3387	3392	3398	VV	10	107573	4250435	6.08%	0.316%
341	24.089	3398	3402	3407	VV	8	101374	2975618	4.26%	0.221%
342	24.142	3407	3411	3423	VV	8	106157	6127774	8.77%	0.456%
343	24.277	3423	3434	3452	VV	8	109908	10376800	14.85%	0.772%
344	24.407	3452	3456	3464	VV	8	107241	4309160	6.17%	0.321%
345	24.477	3464	3468	3478	VV	8	101058	5059517	7.24%	0.376%
346	24.577	3478	3485	3517	VV	8	108000	13898068	19.89%	1.034%
347	24.795	3517	3522	3534	VV	8	106093	5893976	8.44%	0.439%
348	24.895	3534	3539	3552	VBA	8	103635	6529985	9.35%	0.486%

Sum of corrected areas: 1343833553

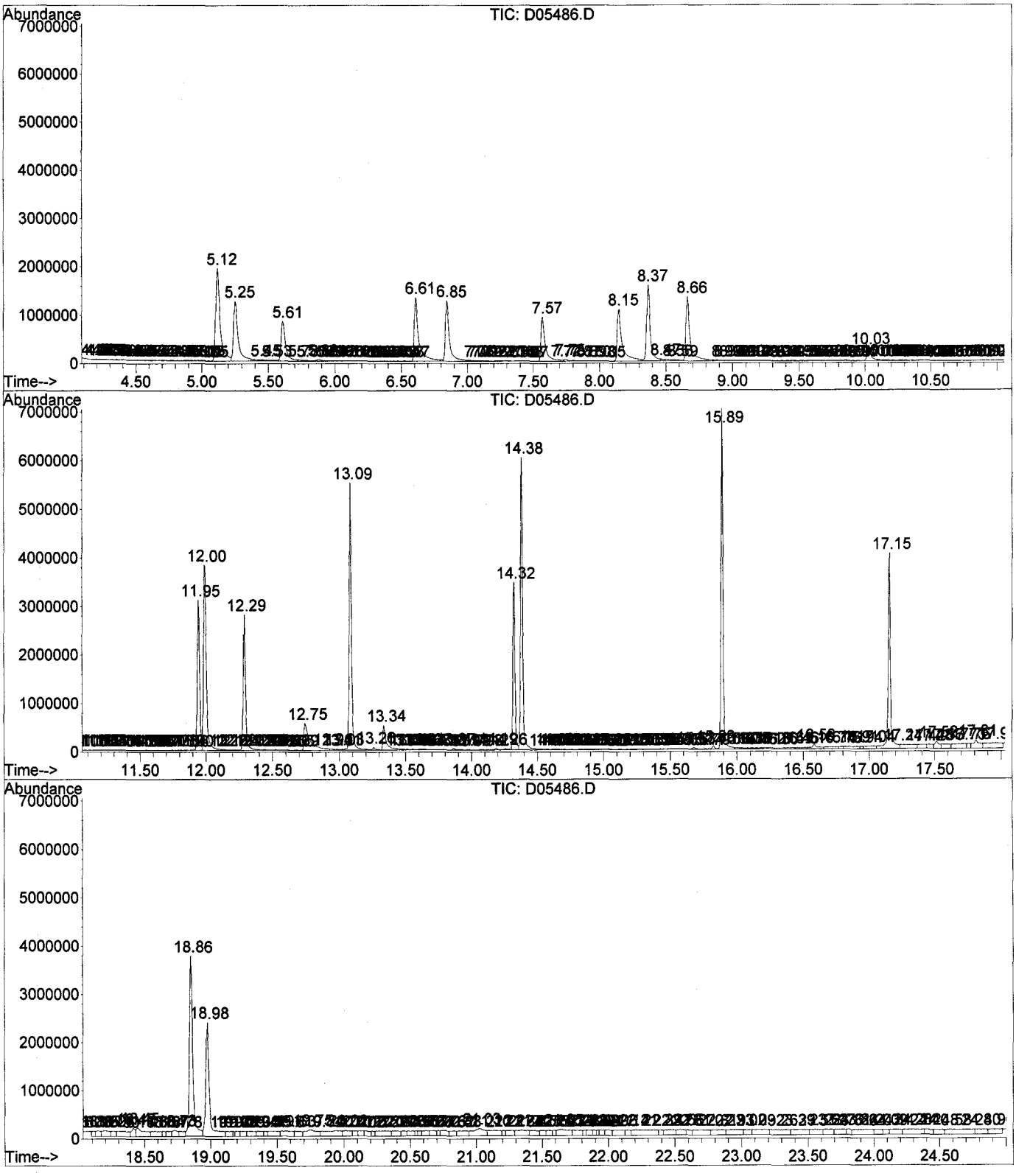
A537

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

12/29/11

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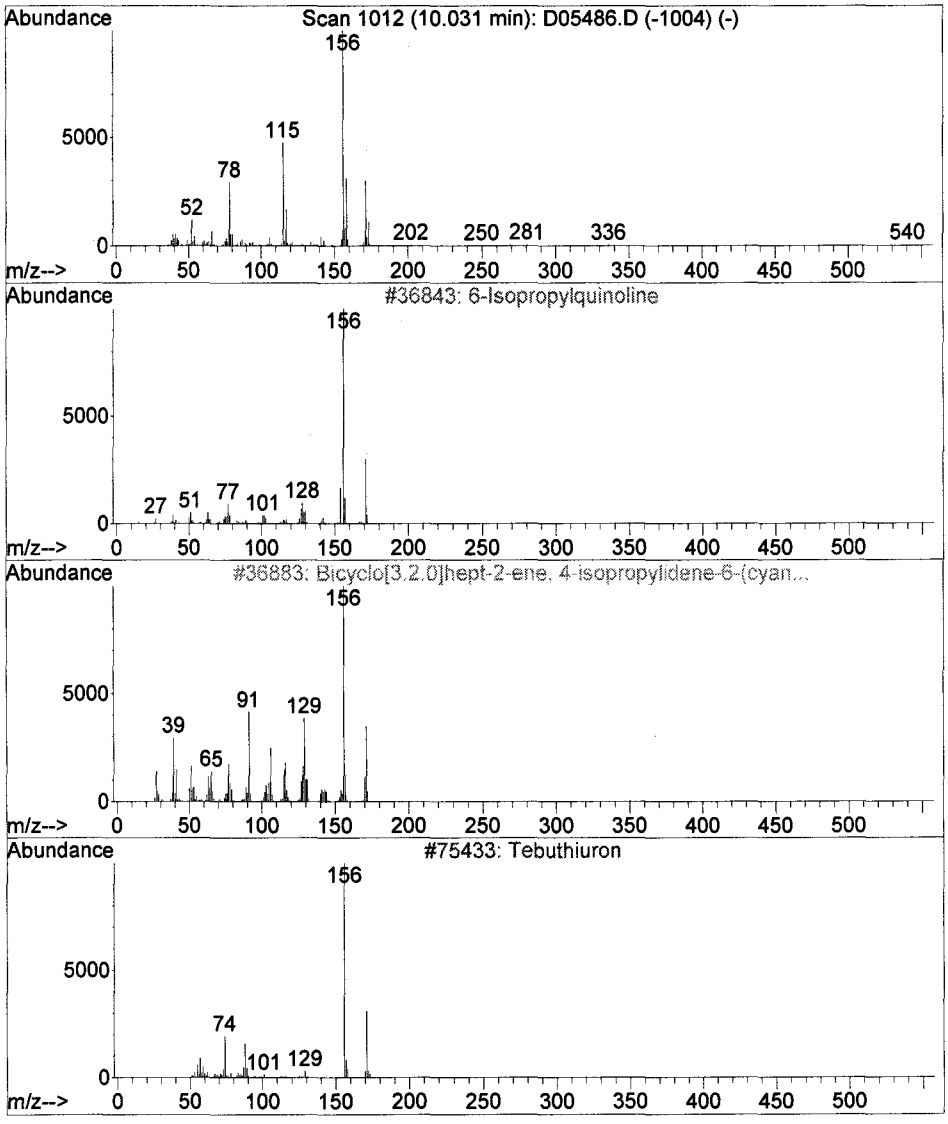
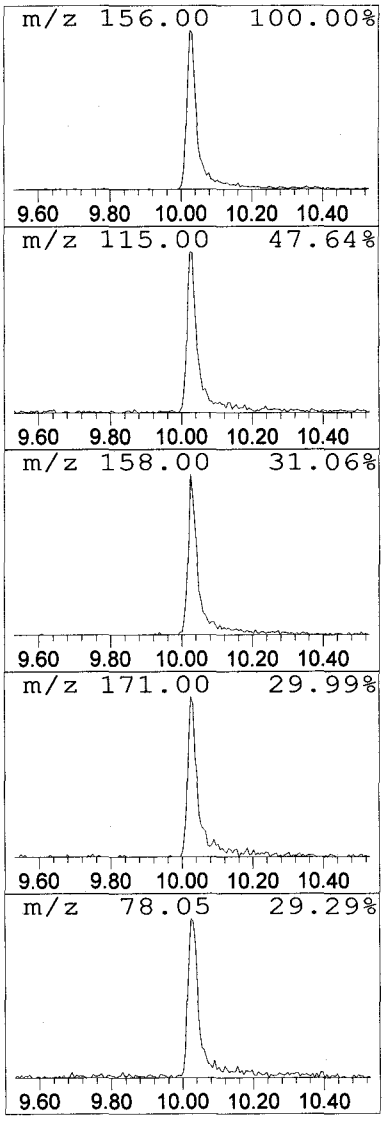
Peak Number 1 6-Isopropylquinoline Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.03	3.82 ug/L	5587090	Naphthalene-d8	8.37

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Isopropylquinoline	171	C12H13N	000135-79-5	32
2	Bicyclo[3.2.0]hept-2-ene, 4-isop...	171	C12H13N	1000217-15-6	23
3	Tebuthiuron	228	C9H16N4OS	034014-18-1	23
4	Chloroxylenol	156	C8H9ClO	000088-04-0	17
5	Benzene, 1-chloro-4-methoxy-2-me...	156	C8H9ClO	013334-71-9	17





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

12/29/11

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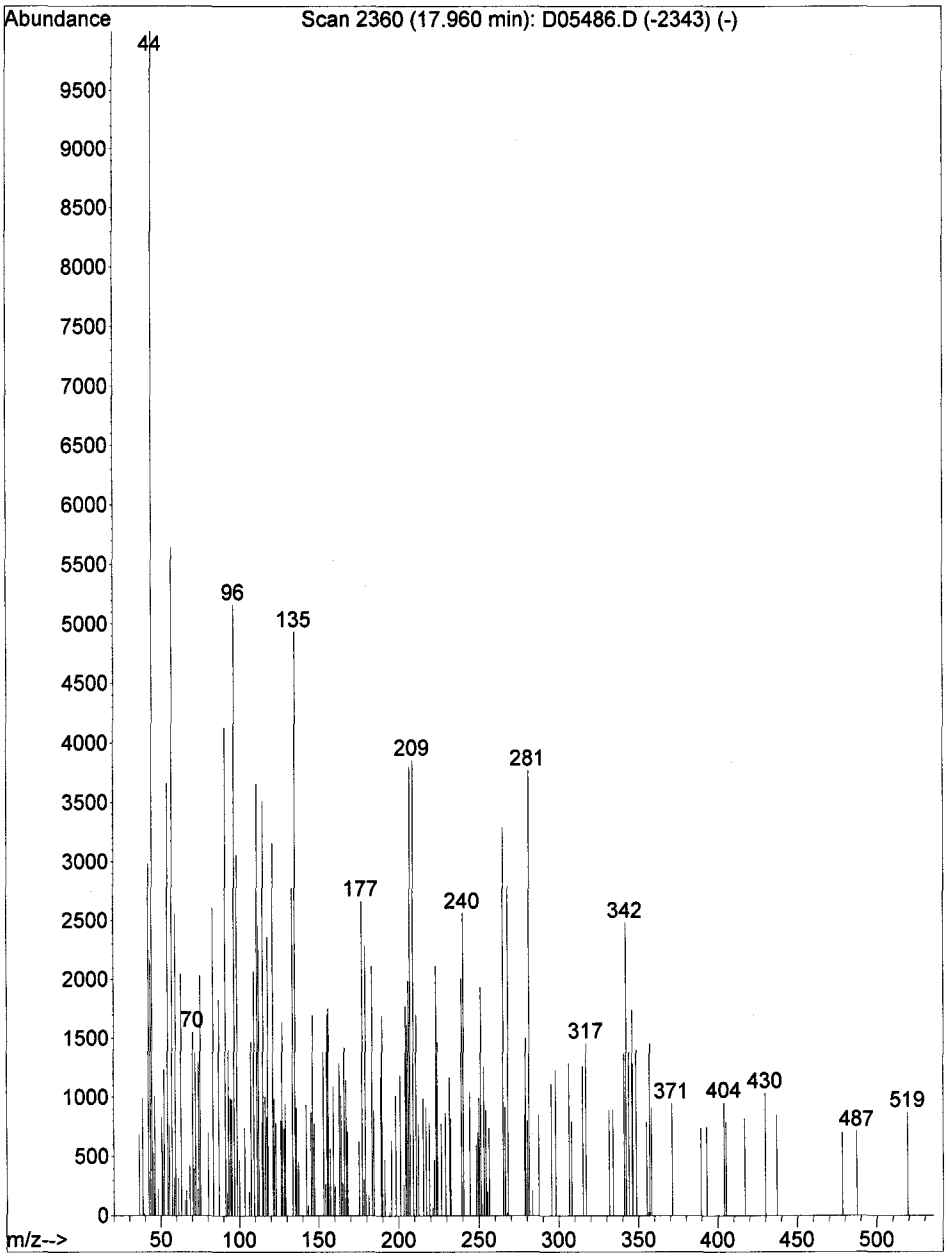
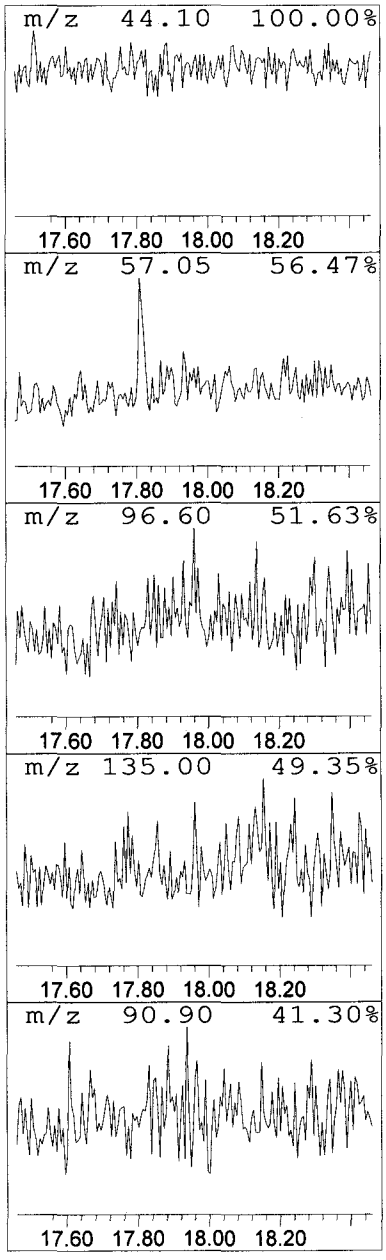
Peak Number 2 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	3.78 ug/L	9300410	Chrysene-d12	17.15

NDUSE

Hit# of 1	Tentative ID	MW	MolForm	CAS#	Qual
1	No Hits From C:\DATABASE\NIST02.L	0			0





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

12/29/11

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

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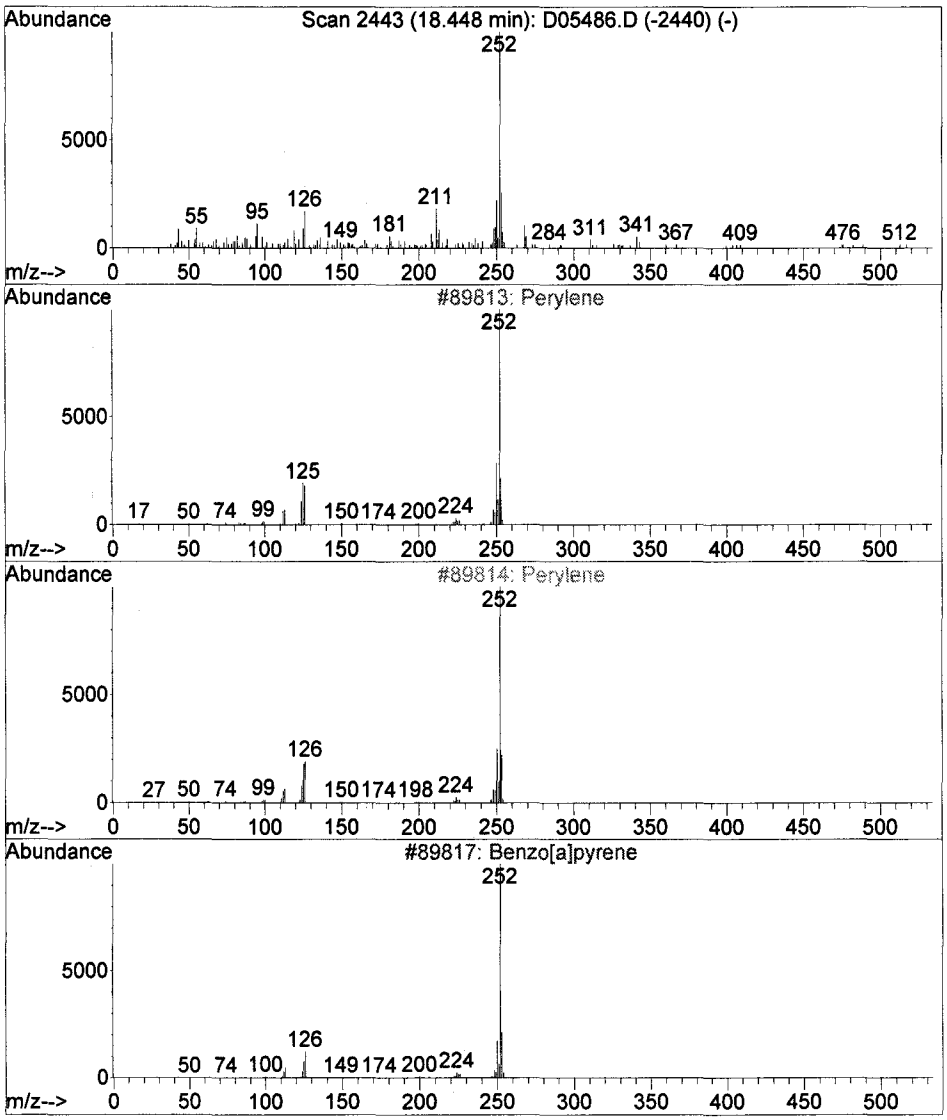
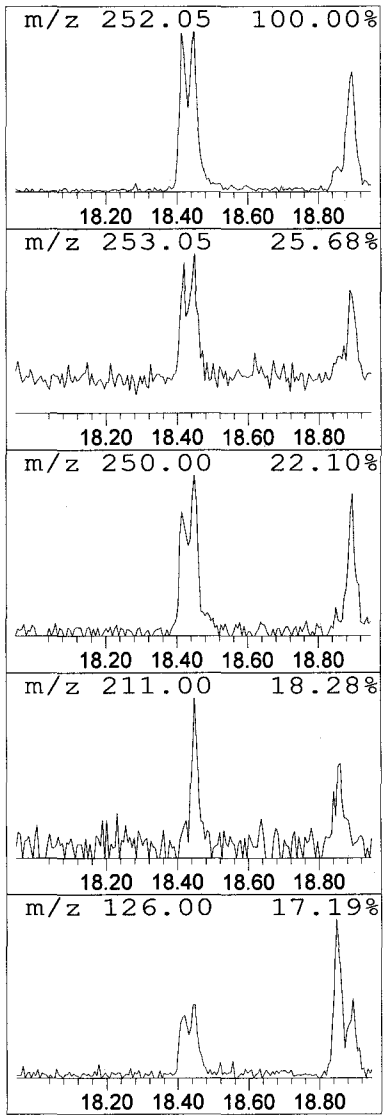
Peak Number 3 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	3.17 ug/L	7371920	Perylene-d12	18.98

UNKNOWN

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	52
2	Perylene	252	C20H12	000198-55-0	52
3	Benzo[a]pyrene	252	C20H12	000050-32-8	50
4	Benzo[a]pyrene	252	C20H12	000050-32-8	50
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	50





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05486.D
Acq On : 12/14/11 12:45 Operator: SV
Sample : SBLK67 Inst : D-5973
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
6-Isopropylquinoline	10.03	3.8	ug/L	5587090	2	8.37	29251400	20.0
No Hits From C:\D...	17.96	3.8	ug/L	9300410	5	17.15	49163100	20.0
Perylene	18.45	3.2	ug/L	7371920	6	18.98	46484900	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05511

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	1100	
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	850	
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	1200	
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	270	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	270	U
83-32-9	Acenaphthene	780	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 60.30 (g/mL) G Lab File ID: D05511

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	270	U
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	900	
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	270	U
534-52-1	4,6-Dinitro-2-methylphenol	270	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	760	
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05511.D
Acq On : 12/15/11 16:12 Operator: SV
Sample : F4XP2MS Inst : D-5973
Misc : S-4460.03MS 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 10:48:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2259849	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	10604733	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	7010491	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.33	188	12421200	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	13236100	20.0000	ug/L	0.00
81) Perylene-d12	18.99	264	13047636	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	5.13	99	10812388	32.7497	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 81.87%			
5) Bis(2-chloroethyl)ether-d8	5.11	67	4057171	30.0157	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 75.04%			
7) 2-Chlorophenol-d4	5.26	132	5082695	32.4995	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 81.25%			
12) 4-Methylphenol-d8	6.62	113	5188259	36.3985	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 91.00%			
17) Nitrobenzene-d5	6.85	128	2569826	32.4883	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 81.22%			
20) 2-Nitrophenol-d4	7.58	143	2841454	37.7149	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 94.29%			
24) 2,4-Dichlorophenol-d3	8.16	165	4145824	30.3788	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 75.95%			
27) 4-Chloroaniline-d4	8.67	131	6271735	41.2497	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 103.12%			
41) Acenaphthylene-d8	12.00	160	20707344	31.8556	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 79.64%			
43) Dimethylphthalate-d6	11.95	166	14220926	32.3812	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 80.95%			
49) 4-Nitrophenol-d4	12.75	143	2904558	46.7916	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 116.98%#			
56) Fluorene-d10	13.09	176	12950470	30.8731	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 77.18%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	1597992	40.3745	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 100.94%			
68) Anthracene-d10	14.39	188	21346582	32.0376	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 80.09%			
79) Pyrene-d10	15.90	212	23248012	30.4625	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 76.16%			
85) Benzo(a)pyrene-d12	18.87	264	18914208	31.0727	ug/L	0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 77.68%			
Target Compounds						Qvalue
4) Phenol	5.15	94	7843465	39.4132	ug/L	97
8) 2-Chlorophenol	5.29	128	6064522	39.6475	ug/L	98
14) N-Nitroso-di-n-propylamine	6.60	70	4071993	31.2551	ug/L	100
31) 4-Chloro-3-methylphenol	9.97	107	6064343	44.4070	ug/L #	84
46) Acenaphthene	12.35	153	11727683	28.7837	ug/L	99
50) 4-Nitrophenol	12.76	109	2209559	54.9165	ug/L	97
52) 2,4-Dinitrotoluene	12.77	165	3578590	32.9309	ug/L #	88
66) Pentachlorophenol	14.22	266	1921966	45.6061	ug/L	94
75) bis(2-ethylhexyl)phthalate	17.16	149	3156649	5.7583	ug/L	100
80) Pyrene	15.92	202	22934059	27.8679	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

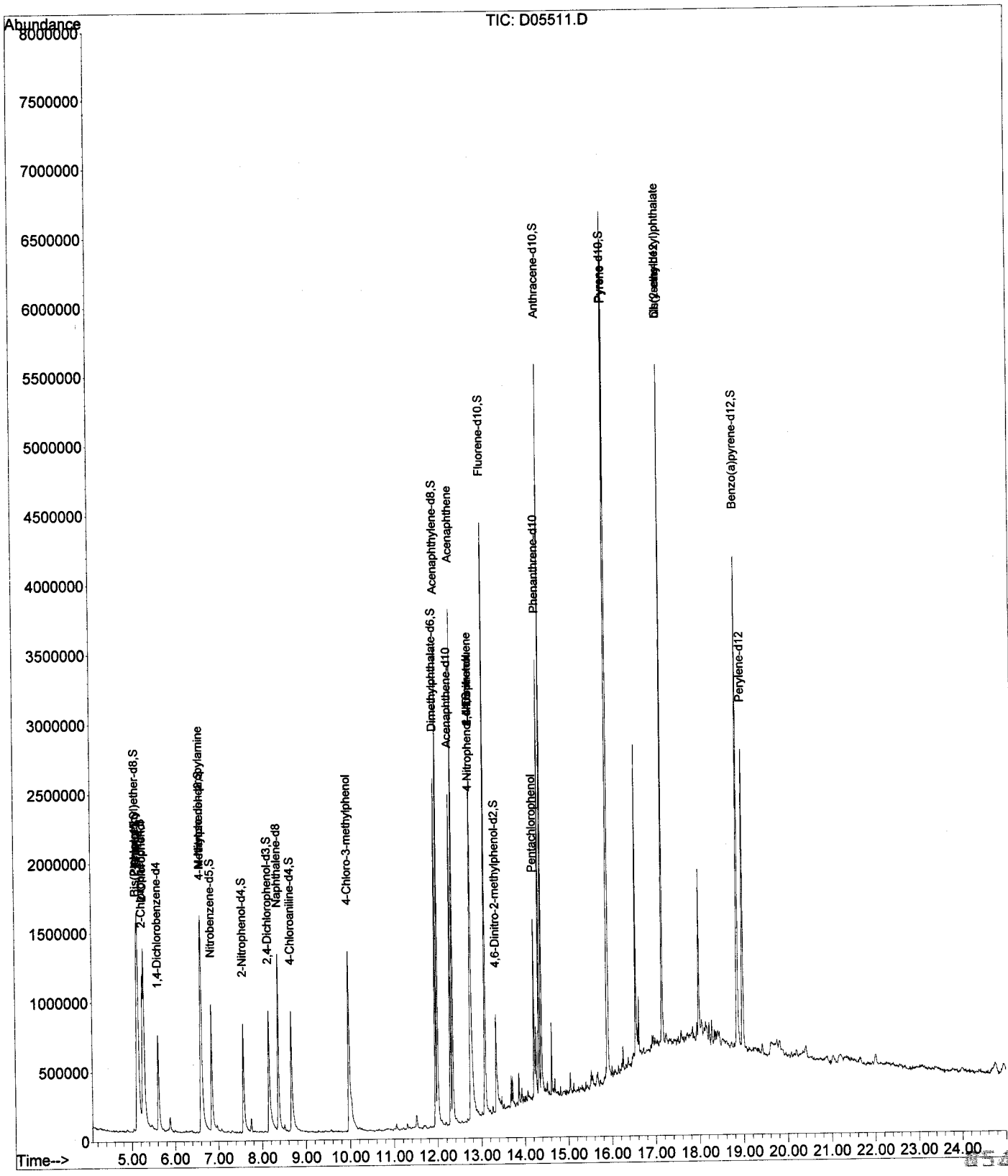
0545

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05511.D
Acq On : 12/15/11 16:12
Sample : F4XP2MS
Misc : S-4460.03MS 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 19 10:48:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05512

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	U
108-95-2	Phenol	1100	
111-44-4	Bis(2-chloroethyl)ether	140	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	140	U
108-60-1	2,2'-Oxybis(1-chloropropane)	140	U
98-86-2	Acetophenone	140	U
106-44-5	4-Methylphenol	140	U
621-64-7	N-Nitroso-di-n-propylamine	840	
67-72-1	Hexachloroethane	140	U
98-95-3	Nitrobenzene	140	U
78-59-1	Isophorone	140	U
88-75-5	2-Nitrophenol	140	U
105-67-9	2,4-Dimethylphenol	140	U
111-91-1	Bis(2-chloroethoxy)methane	140	U
120-83-2	2,4-Dichlorophenol	140	U
91-20-3	Naphthalene	140	U
106-47-8	4-Chloroaniline	140	U
87-68-3	Hexachlorobutadiene	140	U
105-60-2	Caprolactam	140	U
59-50-7	4-Chloro-3-methylphenol	1200	
91-57-6	2-Methylnaphthalene	140	U
77-47-4	Hexachlorocyclopentadiene	140	U
88-06-2	2,4,6-Trichlorophenol	140	U
95-95-4	2,4,5-Trichlorophenol	140	U
92-52-4	1,1'-Biphenyl	140	U
91-58-7	2-Chloronaphthalene	140	U
88-74-4	2-Nitroaniline	270	U
131-11-3	Dimethylphthalate	140	U
606-20-2	2,6-Dinitrotoluene	140	U
208-96-8	Acenaphthylene	140	U
99-09-2	3-Nitroaniline	270	U
83-32-9	Acenaphthene	780	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 60.60 (g/mL) G Lab File ID: D05512

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

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	270	U
100-02-7	4-Nitrophenol	1600	
132-64-9	Dibenzofuran	140	U
121-14-2	2,4-Dinitrotoluene	940	
84-66-2	Diethylphthalate	140	U
86-73-7	Fluorene	140	U
7005-72-3	4-Chlorophenyl-phenylether	140	U
100-01-6	4-Nitroaniline	270	U
534-52-1	4,6-Dinitro-2-methylphenol	270	U
86-30-6	N-Nitrosodiphenylamine 1	140	U
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U
101-55-3	4-Bromophenyl-phenylether	140	U
118-74-1	Hexachlorobenzene	140	U
1912-24-9	Atrazine	140	U
87-86-5	Pentachlorophenol	1300	
85-01-8	Phenanthrene	140	U
120-12-7	Anthracene	140	U
86-74-8	Carbazole	140	U
84-74-2	Di-n-butylphthalate	140	U
206-44-0	Fluoranthene	140	U
129-00-0	Pyrene	760	
85-68-7	Butylbenzylphthalate	140	U
91-94-1	3,3'-Dichlorobenzidine	140	U
56-55-3	Benzo(a)anthracene	140	U
218-01-9	Chrysene	140	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	140	U
205-99-2	Benzo(b)fluoranthene	140	U
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	U
193-39-5	Indeno(1,2,3-cd)pyrene	140	U
53-70-3	Dibenzo(a,h)anthracene	140	U
191-24-2	Benzo(g,h,i)perylene	140	U
58-90-2	2,3,4,6-Tetrachlorophenol	140	U

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05512.D
Acq On : 12/15/11 16:43 Operator: SV
Sample : F4XP2MSD Inst : D-5973
Misc : S-4460.03MSD 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 10:49:04 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	2306377	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	11301901	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	7335102	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.33	188	13543085	20.0000	ug/L	0.00
73) Chrysene-d12	17.16	240	14406917	20.0000	ug/L	0.00
81) Perylene-d12	18.99	264	14275383	20.0000	ug/L	0.01
System Monitoring Compounds						
3) Phenol-d5	5.13	99	11039232	32.7623	ug/L	0.00
Spiked Amount 40.000	Range 39 - 106		Recovery = 81.91%			
5) Bis(2-chloroethyl)ether-d8	5.12	67	4283674	31.0520	ug/L	0.00
Spiked Amount 40.000	Range 40 - 105		Recovery = 77.63%			
7) 2-Chlorophenol-d4	5.26	132	5255883	32.9289	ug/L	0.00
Spiked Amount 40.000	Range 41 - 106		Recovery = 82.32%			
12) 4-Methylphenol-d8	6.62	113	5441124	37.4024	ug/L	0.00
Spiked Amount 40.000	Range 25 - 111		Recovery = 93.51%			
17) Nitrobenzene-d5	6.85	128	2570732	30.4950	ug/L	0.00
Spiked Amount 40.000	Range 43 - 108		Recovery = 76.24%			
20) 2-Nitrophenol-d4	7.58	143	3050933	37.9974	ug/L	0.00
Spiked Amount 40.000	Range 40 - 108		Recovery = 94.99%			
24) 2,4-Dichlorophenol-d3	8.16	165	4829534	33.2058	ug/L	0.00
Spiked Amount 40.000	Range 37 - 105		Recovery = 83.01%			
27) 4-Chloroaniline-d4	8.67	131	6565255	40.5166	ug/L	0.00
Spiked Amount 40.000	Range 1 - 145		Recovery = 101.29%			
41) Acenaphthylene-d8	12.00	160	22330228	32.8320	ug/L	0.00
Spiked Amount 40.000	Range 41 - 107		Recovery = 82.08%			
43) Dimethylphthalate-d6	11.95	166	15044014	32.7394	ug/L	0.00
Spiked Amount 40.000	Range 47 - 114		Recovery = 81.85%			
49) 4-Nitrophenol-d4	12.75	143	3053222	47.0098	ug/L	0.00
Spiked Amount 40.000	Range 33 - 116		Recovery = 117.52%#			
56) Fluorene-d10	13.09	176	13510690	30.7832	ug/L	0.00
Spiked Amount 40.000	Range 42 - 111		Recovery = 76.96%			
60) 4,6-Dinitro-2-methylphenol	13.34	200	1798720	41.6814	ug/L	0.00
Spiked Amount 40.000	Range 22 - 104		Recovery = 104.20%#			
68) Anthracene-d10	14.39	188	22850283	31.4535	ug/L	0.00
Spiked Amount 40.000	Range 44 - 110		Recovery = 78.63%			
79) Pyrene-d10	15.90	212	24797693	29.8524	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery = 74.63%			
85) Benzo(a)pyrene-d12	18.87	264	20231565	30.3784	ug/L	0.01
Spiked Amount 40.000	Range 32 - 121		Recovery = 75.95%			
Target Compounds						Qvalue
4) Phenol	5.15	94	8028419	39.5287	ug/L	97
8) 2-Chlorophenol	5.29	128	6117416	39.1865	ug/L	98
14) N-Nitroso-di-n-propylamine	6.60	70	4139850	31.1349	ug/L	98
31) 4-Chloro-3-methylphenol	9.97	107	6576120	45.1841	ug/L	86
46) Acenaphthene	12.35	153	12274469	28.7925	ug/L	99
50) 4-Nitrophenol	12.76	109	2416010	57.3902	ug/L	98
52) 2,4-Dinitrotoluene	12.77	165	3933166	34.5920	ug/L	91
66) Pentachlorophenol	14.22	266	2208016	48.0535	ug/L	96
75) bis(2-ethylhexyl)phthalate	17.16	149	3443975	5.7719	ug/L	98
80) Pyrene	15.92	202	25084288	28.0036	ug/L	97

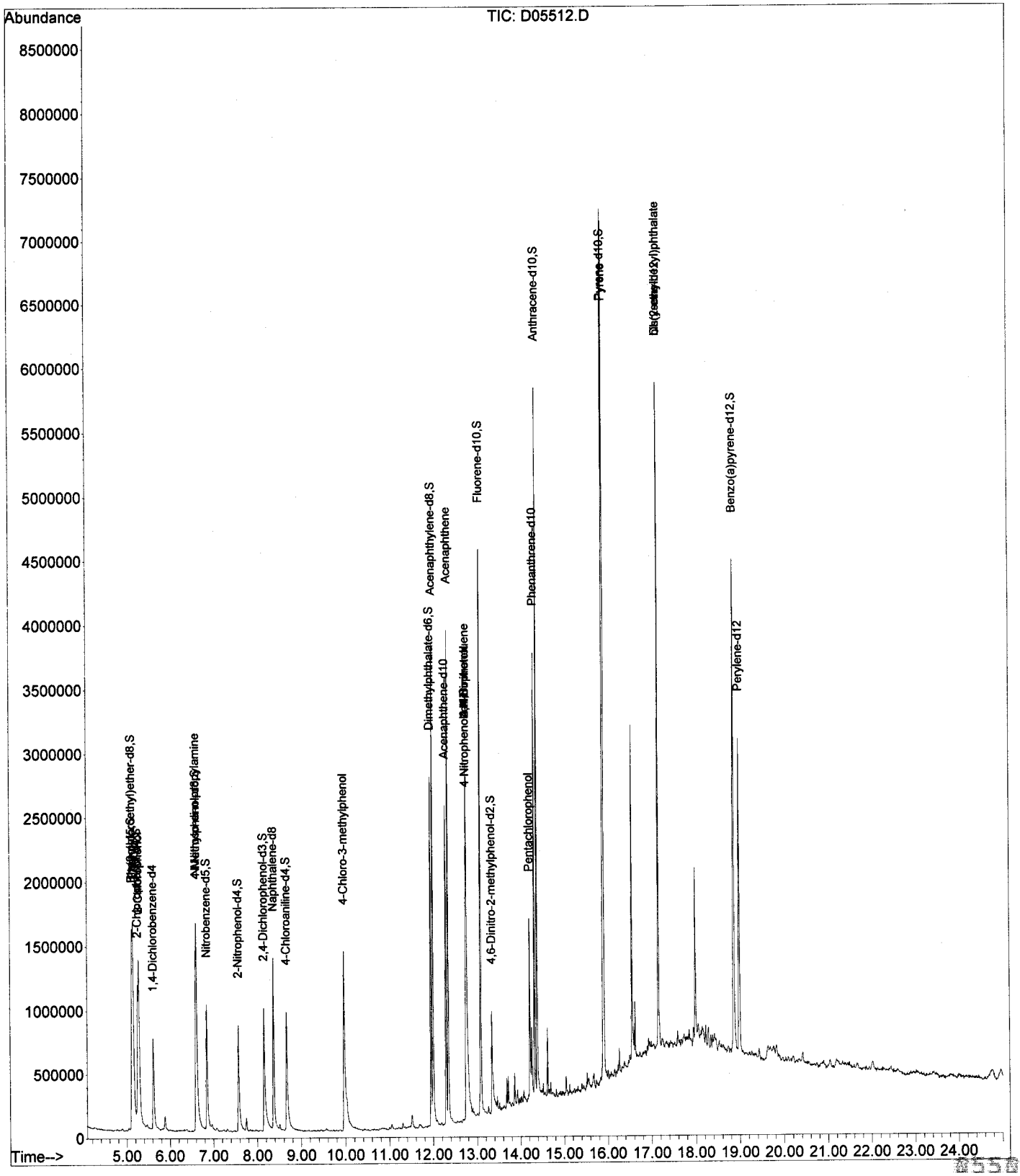
(#) = qualifier out of range (m) = manual integration (+) = signals summed

B549

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05512.D
Acq On : 12/15/11 16:43 Operator: SV
Sample : F4XP2MSD Inst : D-5973
Misc : S-4460.03MSD 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 10:49:04 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 10:42:08 2011
Response via : Initial Calibration



O·I·CORPORATION

	Name	Date
Approval 1:	RAO ALSAKANI	12/15/11
Approval 2:		

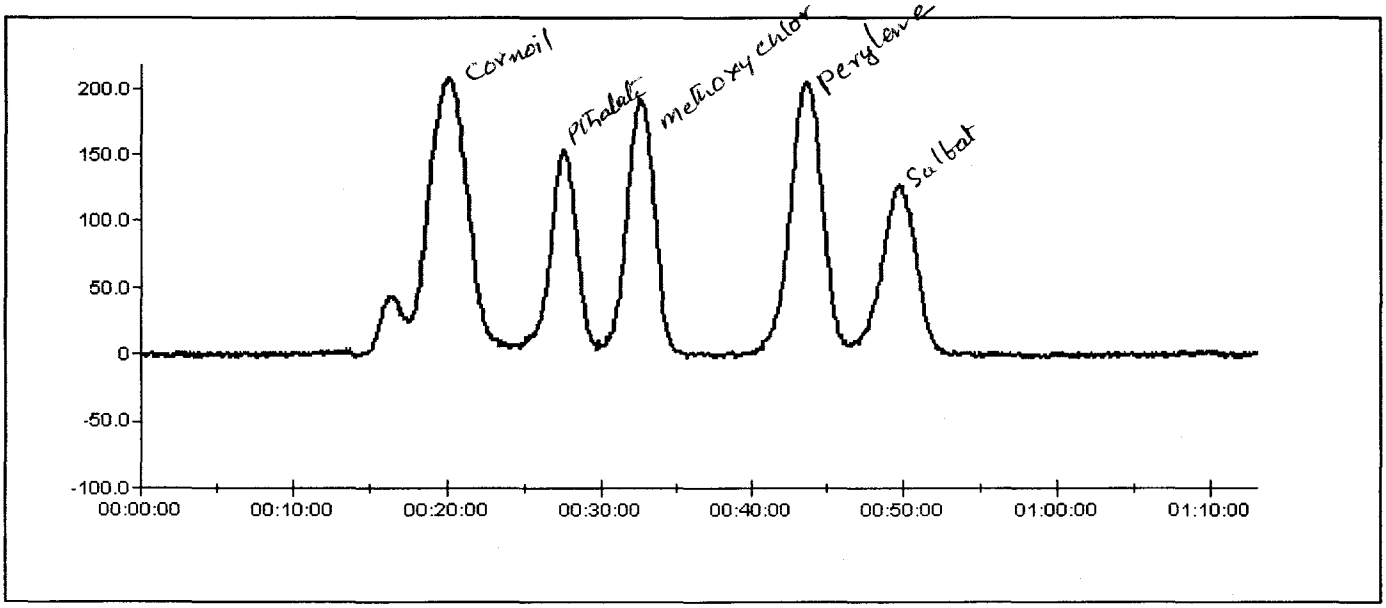
KAP Technologies
The Woodlands,TX 77380
Phone: (281) 367 0065
Fax: (281) 367 6772
WWW: http://oico.com

Sequence:	CCV-12092011	**Date of Sample:**	12/9/2011 9:22:24AM
Operator:	RAO ALSAKANI	**Sample Results:**	Completed run
Sample ID:	3640A Standard	**Sample Type:**	Calibration

Configuration Details:

Syringe Size (mL):	10.00	**Sample Tray:**	60 16 * 100 mm tubes
Loop Size (mL):	5.00	**Collect Tray:**	TurboVap 200 mL tubes
Flow Rate (mL/min):	5.00	**Column Type:**	Methylene chloride - glass
Bypass Valve:	Yes	**Solvent Type:**	Methylene chloride
Using UV Detector:	Yes	**Detector Type:**	OI UV-1000 254 nm
Plotting UV Data:	Yes		

Chromatograph:



SVOA	0.22 min	23.47min	10min
Pest	6.28 Min	29.47 Min	10Min.

O·I·CORPORATION

KAP Technologies
The Woodlands,TX 77380
Phone: (281) 367 0065
Fax: (281) 367 6772
WWW: http://oico.com

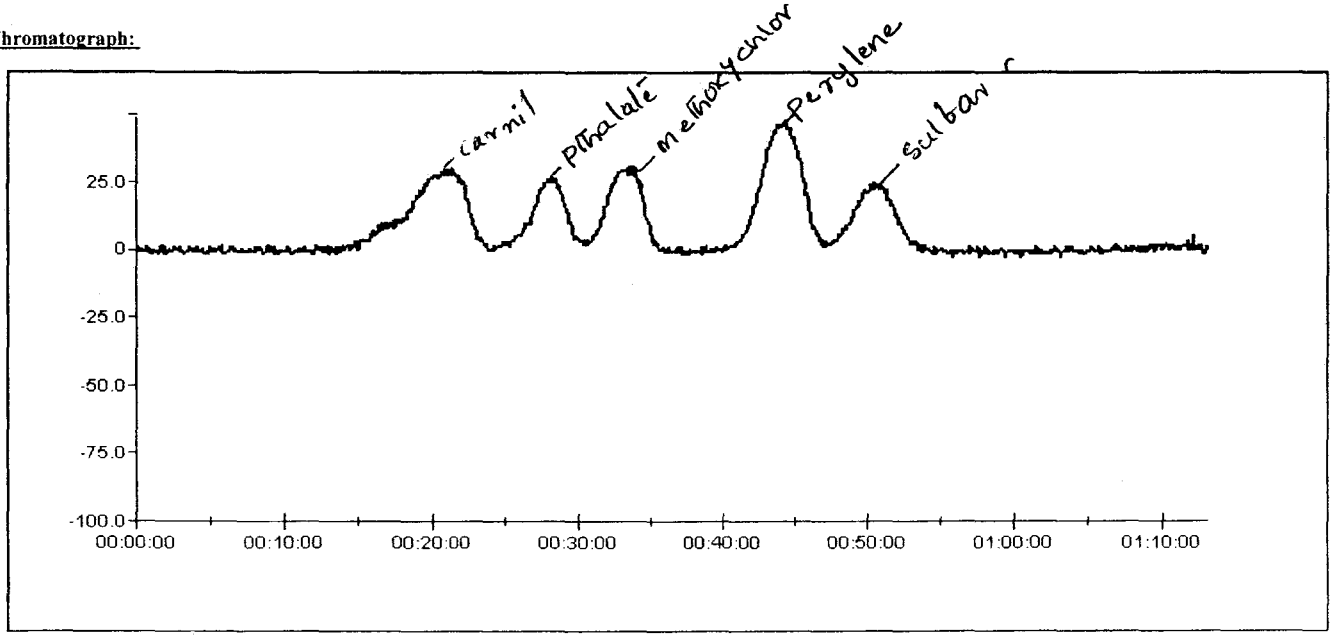
	Name	Date
Approval 1:	M.A. Billow	11/2/11
Approval 2:		

Sequence:	CCV-10182011	**Date of Sample:**	10/18/2011 10:04:43AM
Operator:	RAO ALSAKANI	**Sample Results:**	Completed run
Sample ID:	3640A Standard	**Sample Type:**	Calibration

Configuration Details:

Syringe Size (mL):	10.00	**Sample Tray:**	60 16 * 100 mm tubes
Loop Size (mL):	5.00	**Collect Tray:**	TurboVap 200 mL tubes
Flow Rate (mL/min):	5.00	**Column Type:**	Methylene chloride - glass
Bypass Valve:	Yes	**Solvent Type:**	Methylene chloride
Using UV Detector:	Yes	**Detector Type:**	OI UV-1000 254 nm
Plotting UV Data:	Yes		

Chromatograph:



SVOA	0.22 min	23.47 min	10 min
Pest	0.28 min	29.47 min	10 min

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 10:10:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:46 2011
Response via : Initial Calibration

12/15/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	2655520	20.0000	ug/L	0.00
16) Naphthalene-d8	8.37	136	11861569	20.0000	ug/L	0.00
33) Acenaphthene-d10	12.29	164	7445899	20.0000	ug/L	0.00
59) Phenanthrene-d10	14.32	188	13939329	20.0000	ug/L	0.00
73) Chrysene-d12	17.15	240	14438673	20.0000	ug/L	0.00
81) Perylene-d12	18.98	264	12665585	20.0000	ug/L	0.00
System Monitoring Compounds						
3) Phenol-d5	0.00	99	0	0.0000	ug/L	
Spiked Amount 40.000	Range 39 - 106		Recovery =	0.00%#		
5) Bis(2-chloroethyl)ether-d8	0.00	67	0	0.0000	ug/L	
Spiked Amount 40.000	Range 40 - 105		Recovery =	0.00%#		
7) 2-Chlorophenol-d4	0.00	132	0	0.0000	ug/L	
Spiked Amount 40.000	Range 41 - 106		Recovery =	0.00%#		
12) 4-Methylphenol-d8	0.00	113	0	0.0000	ug/L	
Spiked Amount 40.000	Range 25 - 111		Recovery =	0.00%#		
17) Nitrobenzene-d5	0.00	128	0	0.0000	ug/L	
Spiked Amount 40.000	Range 43 - 108		Recovery =	0.00%#		
20) 2-Nitrophenol-d4	0.00	143	0	0.0000	ug/L	
Spiked Amount 40.000	Range 40 - 108		Recovery =	0.00%#		
24) 2,4-Dichlorophenol-d3	0.00	165	0	0.0000	ug/L	
Spiked Amount 40.000	Range 37 - 105		Recovery =	0.00%#		
27) 4-Chloroaniline-d4	0.00	131	0	0.0000	ug/L	
Spiked Amount 40.000	Range 1 - 145		Recovery =	0.00%#		
41) Acenaphthylene-d8	0.00	160	0	0.0000	ug/L	
Spiked Amount 40.000	Range 41 - 107		Recovery =	0.00%#		
43) Dimethylphthalate-d6	0.00	166	0	0.0000	ug/L	
Spiked Amount 40.000	Range 47 - 114		Recovery =	0.00%#		
49) 4-Nitrophenol-d4	0.00	143	0	0.0000	ug/L	
Spiked Amount 40.000	Range 33 - 116		Recovery =	0.00%#		
56) Fluorene-d10	0.00	176	0	0.0000	ug/L	
Spiked Amount 40.000	Range 42 - 111		Recovery =	0.00%#		
60) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.0000	ug/L	
Spiked Amount 40.000	Range 22 - 104		Recovery =	0.00%#		
68) Anthracene-d10	0.00	188	0d	0.0000	ug/L	
Spiked Amount 40.000	Range 44 - 110		Recovery =	0.00%#		
79) Pyrene-d10	15.89	212	536880	0.6449	ug/L	0.00
Spiked Amount 40.000	Range 52 - 119		Recovery =	1.61%#		
85) Benzo(a)pyrene-d12	18.86	264	501740	0.8491	ug/L	0.00
Spiked Amount 40.000	Range 32 - 121		Recovery =	2.12%#		

Target Compounds	Qvalue

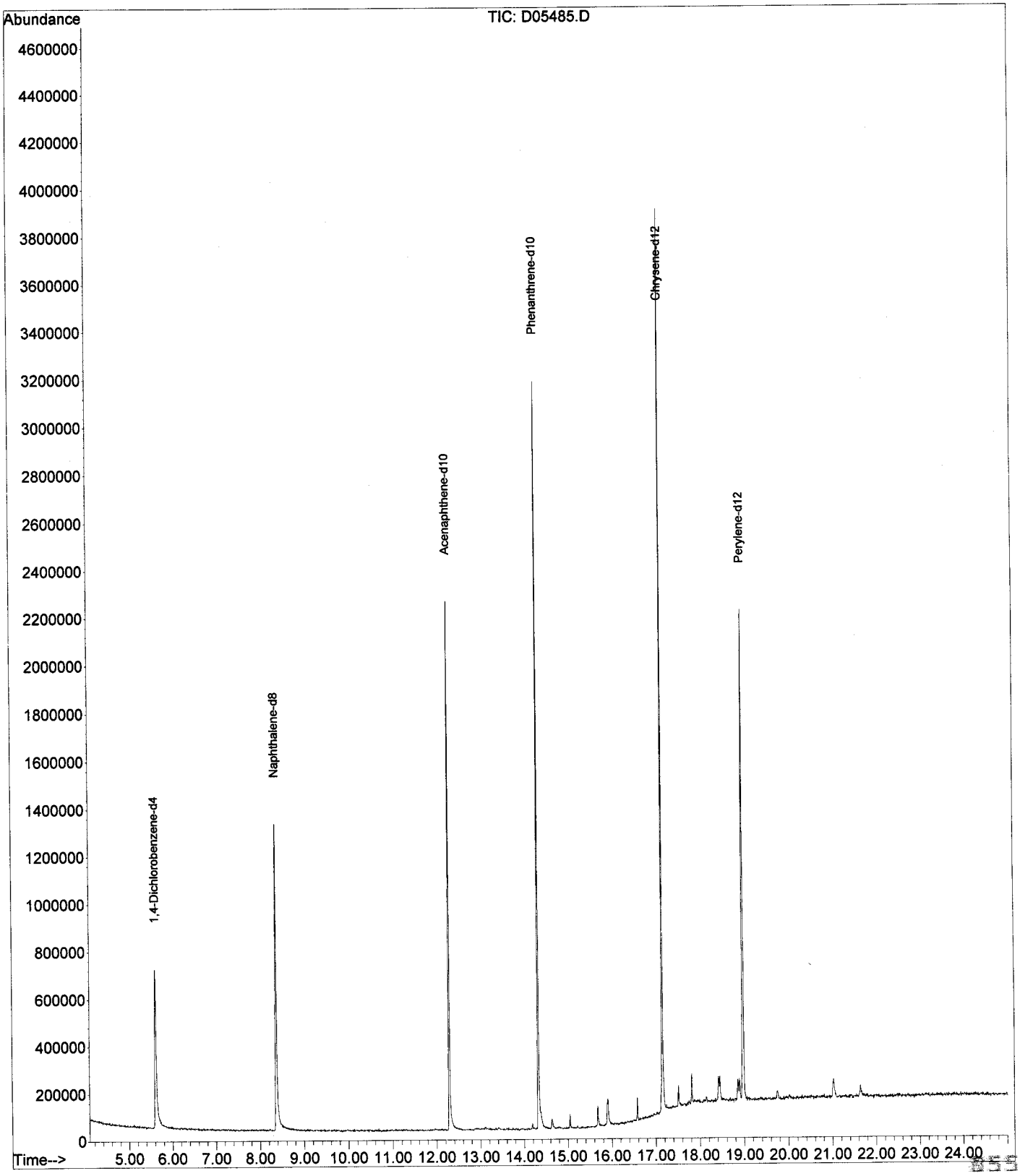
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\D05485.D
Acq On : 12/14/11 12:14
Sample : GPCBLK67
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Operator: SV
Inst : D-5973

Quant Time: Dec 15 10:10:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 15 10:02:46 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.126	3	8	10	BV 4	5733	40260	0.08%	0.008%
2	4.149	10	12	14	VV 3	5855	48162	0.10%	0.010%
3	4.167	14	15	17	VV 3	4472	26303	0.05%	0.006%
4	4.208	17	22	27	PV 8	5836	110868	0.22%	0.023%
5	4.249	27	29	31	VV 3	3772	29598	0.06%	0.006%
6	4.273	31	33	37	VV 5	7733	74078	0.15%	0.016%
7	4.308	37	39	43	PV 5	8742	90027	0.18%	0.019%
8	4.337	43	44	46	VV 2	5252	52454	0.10%	0.011%
9	4.361	46	48	55	VV 8	7797	89436	0.18%	0.019%
10	4.426	55	59	72	VV 8	4103	187048	0.37%	0.039%
11	4.508	72	73	76	VV 3	6467	48646	0.10%	0.010%
12	4.543	76	79	82	VV 5	9064	90643	0.18%	0.019%
13	4.567	82	83	86	VV 3	3763	22076	0.04%	0.005%
14	4.602	86	89	93	PV 5	8818	111991	0.22%	0.023%
15	4.643	93	96	98	VV 4	5813	66457	0.13%	0.014%
16	4.679	98	102	104	VV 4	6121	68484	0.14%	0.014%
17	4.702	104	106	113	VV 8	5847	115019	0.23%	0.024%
18	4.761	113	116	119	VV 5	7222	75628	0.15%	0.016%
19	4.796	119	122	124	VV 4	5383	54869	0.11%	0.011%
20	4.820	124	126	129	VV 4	5913	66041	0.13%	0.014%
21	4.843	129	130	132	VV 2	5335	43053	0.09%	0.009%
22	4.861	132	133	135	VV 2	5283	50957	0.10%	0.011%
23	4.884	135	137	142	VV 6	5926	80972	0.16%	0.017%
24	4.937	142	146	148	VV 4	4583	54282	0.11%	0.011%
25	4.961	148	150	155	PV 6	6503	71854	0.14%	0.015%
26	5.020	155	160	162	VV 6	5661	69364	0.14%	0.015%
27	5.043	162	164	166	VV 3	4452	52484	0.10%	0.011%
28	5.084	166	171	172	VV 5	5423	73877	0.15%	0.015%
29	5.108	172	175	183	VV 8	10567	204610	0.41%	0.043%
30	5.184	183	188	190	VV 5	7487	126834	0.25%	0.027%
31	5.208	190	192	195	VV 4	6107	69229	0.14%	0.015%
32	5.231	195	196	201	VV 5	7747	121796	0.24%	0.026%
33	5.267	201	202	204	VV 2	5206	41561	0.08%	0.009%
34	5.296	204	207	210	VV 5	6779	108410	0.22%	0.023%
35	5.326	210	212	214	VV 3	5751	50801	0.10%	0.011%
36	5.349	214	216	218	VV 3	9071	87161	0.17%	0.018%
37	5.373	218	220	223	VV 4	7308	98982	0.20%	0.021%
38	5.414	223	227	228	PV 4	5397	60452	0.12%	0.013%
39	5.431	228	230	236	VV 7	6910	129671	0.26%	0.027%
40	5.490	236	240	243	VV 6	6144	115500	0.23%	0.024%
41	5.549	243	250	251	VV 7	6072	92654	0.18%	0.019%
42	5.614	251	261	280	VV	673186	17414645	34.54%	3.648%
43	5.731	280	281	287	VV 4	29559	599923	1.19%	0.126%
44	5.773	287	288	290	VV 2	19230	170213	0.34%	0.036%

8555

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

45	5.796	290	292	294	VV	3	17501	217062	0.43%	0.045%
46	5.820	294	296	304	VV	8	14343	462399	0.92%	0.097%
47	5.879	304	306	308	VV	3	10106	105598	0.21%	0.022%
48	5.896	308	309	312	VV	3	11768	122327	0.24%	0.026%
49	5.926	312	314	321	VV	8	11067	274227	0.54%	0.057%
50	5.979	321	323	325	VV	3	12013	105421	0.21%	0.022%
51	5.996	325	326	329	VV	3	10346	91127	0.18%	0.019%
52	6.020	329	330	332	VV	2	7189	62690	0.12%	0.013%
53	6.043	332	334	335	VV	2	6665	62946	0.12%	0.013%
54	6.061	335	337	340	VV	4	7813	96248	0.19%	0.020%
55	6.102	340	344	348	VV	7	7771	140340	0.28%	0.029%
56	6.131	348	349	354	VV	5	5771	101698	0.20%	0.021%
57	6.196	354	360	362	PV	6	8623	164309	0.33%	0.034%
58	6.220	362	364	366	VV	3	6688	61344	0.12%	0.013%
59	6.243	366	368	370	VV	3	6494	56728	0.11%	0.012%
60	6.290	370	376	378	VV	7	7439	165503	0.33%	0.035%
61	6.314	378	380	385	VV	5	8077	101920	0.20%	0.021%
62	6.361	385	388	391	VV	5	5775	83611	0.17%	0.018%
63	6.384	391	392	397	VV	5	7373	110999	0.22%	0.023%
64	6.431	397	400	402	VV	4	8811	93679	0.19%	0.020%
65	6.461	402	405	408	VV	4	5535	86428	0.17%	0.018%
66	6.502	408	412	414	VV	5	6326	88660	0.18%	0.019%
67	6.531	414	417	421	VV	6	6515	109733	0.22%	0.023%
68	6.567	421	423	425	VV	3	5592	73549	0.15%	0.015%
69	6.608	425	430	434	VV	7	6102	113761	0.23%	0.024%
70	6.643	434	436	445	VV	10	3730	98855	0.20%	0.021%
71	6.714	445	448	455	VV	9	8304	120561	0.24%	0.025%
72	6.790	455	461	470	VV	10	5428	161423	0.32%	0.034%
73	6.867	470	474	478	VV	6	6032	83776	0.17%	0.018%
74	6.908	478	481	485	VV	6	7748	113892	0.23%	0.024%
75	6.943	485	487	495	VV	9	4765	72868	0.14%	0.015%
76	7.008	495	498	501	VV	5	5646	58665	0.12%	0.012%
77	7.037	501	503	512	VV	10	5338	102836	0.20%	0.022%
78	7.096	512	513	515	VV	2	3702	20313	0.04%	0.004%
79	7.137	515	520	527	VV	2	4752	137406	0.27%	0.029%
80	7.190	527	529	532	VV	4	5285	56354	0.11%	0.012%
81	7.214	532	533	535	VV	2	5827	30592	0.06%	0.006%
82	7.237	535	537	538	VV	2	5665	39827	0.08%	0.008%
83	7.273	538	543	551	VV	2	6768	172058	0.34%	0.036%
84	7.325	551	552	558	VV	5	5665	82865	0.16%	0.017%
85	7.396	558	564	570	VV	10	6640	119795	0.24%	0.025%
86	7.443	570	572	578	VV	7	5299	91571	0.18%	0.019%
87	7.490	578	580	590	VV	10	4382	112323	0.22%	0.024%
88	7.561	590	592	597	VV	6	6586	98492	0.20%	0.021%
89	7.614	597	601	603	VV	4	5387	83120	0.16%	0.017%
90	7.649	603	607	615	PV	8	6902	140370	0.28%	0.029%
91	7.708	615	617	619	VV	3	6763	59466	0.12%	0.012%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

92	7.749	619	624	626	VV	6	5348	86209	0.17%	0.018%
93	7.767	626	627	630	VV	3	4098	45276	0.09%	0.009%
94	7.820	630	636	639	VV	7	7183	145303	0.29%	0.030%
95	7.861	639	643	645	VV	5	6640	71713	0.14%	0.015%
96	7.878	645	646	648	VV	2	5212	41790	0.08%	0.009%
97	7.920	648	653	655	VV	6	6723	104696	0.21%	0.022%
98	7.943	655	657	666	VV	10	3434	139110	0.28%	0.029%
99	8.078	666	680	684	VV	10	6799	274735	0.54%	0.058%
100	8.114	684	686	693	VV	8	6016	93789	0.19%	0.020%
101	8.167	693	695	697	VV	3	6048	62824	0.12%	0.013%
102	8.220	697	704	707	VV	9	8392	170347	0.34%	0.036%
103	8.249	707	709	712	VV	4	4813	54872	0.11%	0.011%
104	8.290	712	716	719	VV	6	4032	80128	0.16%	0.017%
105	8.367	719	729	772	VV		1256654	26657345	52.87%	5.584%
106	8.637	772	775	803	VV		14876	1027039	2.04%	0.215%
107	8.820	803	806	808	VV	4	9822	120907	0.24%	0.025%
108	8.849	808	811	835	VV	4	7005	465152	0.92%	0.097%
109	9.002	835	837	841	VV	4	7694	75248	0.15%	0.016%
110	9.078	841	850	870	VV	4	8918	436441	0.87%	0.091%
111	9.219	870	874	877	VV	6	4972	89140	0.18%	0.019%
112	9.302	877	888	892	VV	6	6183	238767	0.47%	0.050%
113	9.349	892	896	898	VV	5	4979	71370	0.14%	0.015%
114	9.372	898	900	902	VV	3	6518	53728	0.11%	0.011%
115	9.419	902	908	912	VV	9	5395	120751	0.24%	0.025%
116	9.449	912	913	920	VV	5	8217	92161	0.18%	0.019%
117	9.549	920	930	941	VV	5	6920	273225	0.54%	0.057%
118	9.684	941	953	956	VV	5	7617	235945	0.47%	0.049%
119	9.731	956	961	963	VV	5	5505	89735	0.18%	0.019%
120	9.761	963	966	985	VV	5	6103	238364	0.47%	0.050%
121	9.890	985	988	992	VV	6	5448	63807	0.13%	0.013%
122	9.925	992	994	997	VV	4	5027	68064	0.13%	0.014%
123	9.972	997	1002	1008	VV	9	9047	206111	0.41%	0.043%
124	10.025	1008	1011	1020	VV	8	6173	158854	0.32%	0.033%
125	10.084	1020	1021	1031	VV	9	6424	151659	0.30%	0.032%
126	10.178	1031	1037	1050	VV	9	6775	279107	0.55%	0.058%
127	10.272	1050	1053	1058	VV	6	7901	121152	0.24%	0.025%
128	10.319	1058	1061	1064	VV	5	6125	99634	0.20%	0.021%
129	10.355	1064	1067	1078	VV	5	7720	217958	0.43%	0.046%
130	10.437	1078	1081	1084	VV	5	7817	92272	0.18%	0.019%
131	10.472	1084	1087	1106	VV	5	7558	309373	0.61%	0.065%
132	10.608	1106	1110	1113	VV	6	6288	124889	0.25%	0.026%
133	10.637	1113	1115	1119	VV	5	7501	75179	0.15%	0.016%
134	10.672	1119	1121	1131	VV	10	10776	184889	0.37%	0.039%
135	10.743	1131	1133	1136	PV	3	5216	46884	0.09%	0.010%
136	10.772	1136	1138	1140	VV	3	5736	52624	0.10%	0.011%
137	10.796	1140	1142	1146	VV	5	6281	79035	0.16%	0.017%
138	10.861	1146	1153	1167	VV	5	7193	282759	0.56%	0.059%
139	10.978	1167	1173	1178	VV	10	8252	224980	0.45%	0.047%

0557

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

140	11.061	1178	1187	1197	VV	10	9557	334347	0.66%	0.070%
141	11.249	1197	1219	1245	VV	10	8350	852490	1.69%	0.179%
142	11.419	1245	1248	1258	VV	10	7500	183854	0.36%	0.039%
143	11.490	1258	1260	1261	VV	2	4180	40781	0.08%	0.009%
144	11.513	1261	1264	1267	VV	5	5347	84831	0.17%	0.018%
145	11.555	1267	1271	1289	VV	5	4939	321804	0.64%	0.067%
146	11.672	1289	1291	1296	VV	6	6213	99358	0.20%	0.021%
147	11.737	1296	1302	1310	VV	6	4964	144968	0.29%	0.030%
148	11.802	1310	1313	1320	VV	8	4843	115444	0.23%	0.024%
149	11.960	1320	1340	1356	VV	8	9259	684498	1.36%	0.143%
150	12.102	1356	1364	1373	VV	8	8830	273708	0.54%	0.057%
151	12.166	1373	1375	1377	VV	3	6949	63368	0.13%	0.013%
152	12.190	1377	1379	1387	VV	8	8138	172742	0.34%	0.036%
153	12.290	1387	1396	1430	VV		2241805	32539212	64.54%	6.817%
154	12.502	1430	1432	1447	VV		10303	410725	0.81%	0.086%
155	12.602	1447	1449	1454	VV	6	6385	115030	0.23%	0.024%
156	12.684	1454	1463	1467	VV	5	5901	209298	0.42%	0.044%
157	12.731	1467	1471	1475	VV	7	7196	126239	0.25%	0.026%
158	12.766	1475	1477	1483	VV	7	6861	125330	0.25%	0.026%
159	12.819	1483	1486	1488	VV	4	4492	62689	0.12%	0.013%
160	12.860	1488	1493	1496	VV	7	7792	154614	0.31%	0.032%
161	12.896	1496	1499	1501	VV	4	8649	133475	0.26%	0.028%
162	12.919	1501	1503	1513	VV	10	9957	328176	0.65%	0.069%
163	13.019	1513	1520	1525	VV	9	9361	277775	0.55%	0.058%
164	13.060	1525	1527	1531	VV	5	9584	177522	0.35%	0.037%
165	13.107	1531	1535	1539	VV	6	13398	300527	0.60%	0.063%
166	13.160	1539	1544	1564	VV	6	10885	535991	1.06%	0.112%
167	13.302	1564	1568	1571	VV	6	6124	134360	0.27%	0.028%
168	13.343	1571	1575	1581	VV	9	10658	207744	0.41%	0.044%
169	13.407	1581	1586	1595	VV	9	12138	382763	0.76%	0.080%
170	13.496	1595	1601	1611	VV	10	6103	255471	0.51%	0.054%
171	13.596	1611	1618	1624	VV	10	8704	227845	0.45%	0.048%
172	13.637	1624	1625	1638	VV	10	11010	226143	0.45%	0.047%
173	13.743	1638	1643	1650	VV	10	7115	185799	0.37%	0.039%
174	13.819	1650	1656	1660	VV	9	7498	164087	0.33%	0.034%
175	13.854	1660	1662	1667	VV	5	7269	79005	0.16%	0.017%
176	13.937	1667	1676	1691	PV	5	7425	357277	0.71%	0.075%
177	14.049	1691	1695	1697	VV	4	5255	77744	0.15%	0.016%
178	14.084	1697	1701	1708	VV	9	6976	153509	0.30%	0.032%
179	14.190	1708	1719	1725	VV	4	25272	485799	0.96%	0.102%
180	14.237	1725	1727	1734	VV	6	8644	152037	0.30%	0.032%
181	14.325	1734	1742	1769	VV		2968262	37799125	74.97%	7.918%
182	14.507	1769	1773	1781	VV	9	11317	304910	0.60%	0.064%
183	14.566	1781	1783	1788	VV	6	6890	95076	0.19%	0.020%
184	14.637	1788	1795	1812	VV		41830	1122058	2.23%	0.235%
185	14.790	1812	1821	1839	VV		9220	448165	0.89%	0.094%
186	14.913	1839	1842	1847	VV	7	4641	82247	0.16%	0.017%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

187	15.049	1847	1865	1877	VV		57478	972848	1.93%	0.204%
188	15.137	1877	1880	1887	VV	7	6281	124468	0.25%	0.026%
189	15.213	1887	1893	1905	VV	7	9330	211257	0.42%	0.044%
190	15.301	1905	1908	1924	VV	7	4545	205855	0.41%	0.043%
191	15.460	1924	1935	1941	PV	7	8571	239536	0.48%	0.050%
192	15.566	1941	1953	1959	VV	7	5657	244619	0.49%	0.051%
193	15.678	1959	1972	1982	VV		86222	1623885	3.22%	0.340%
194	15.754	1982	1985	1996	VV		9358	336281	0.67%	0.070%
195	15.913	1996	2012	2026	VV	2	119632	3564386	7.07%	0.747%
196	16.001	2026	2027	2034	VV	7	10615	283682	0.56%	0.059%
197	16.066	2034	2038	2042	VV	7	12002	251840	0.50%	0.053%
198	16.101	2042	2044	2050	VV	7	11094	244542	0.49%	0.051%
199	16.148	2050	2052	2058	VV	5	9573	193544	0.38%	0.041%
200	16.207	2058	2062	2065	VV	6	11860	243577	0.48%	0.051%
201	16.360	2065	2088	2096	VV	6	15815	1178244	2.34%	0.247%
202	16.525	2096	2116	2119	VV	6	19414	1246708	2.47%	0.261%
203	16.584	2119	2126	2133	VV		105402	1748623	3.47%	0.366%
204	16.637	2133	2135	2144	VV	10	25078	850080	1.69%	0.178%
205	16.707	2144	2147	2154	VV	9	27304	817103	1.62%	0.171%
206	16.766	2154	2157	2161	VV	6	28683	618302	1.23%	0.130%
207	16.901	2161	2180	2185	VV	6	33585	2298881	4.56%	0.482%
208	16.954	2185	2189	2196	VV	10	37817	1304408	2.59%	0.273%
209	17.031	2196	2202	2208	VV	10	41266	1630429	3.23%	0.342%
210	17.154	2208	2223	2249	VV		3871504	50420405	100.00%	10.562%
211	17.331	2249	2253	2257	VV	7	60119	1496236	2.97%	0.313%
212	17.390	2257	2263	2267	VV	9	66688	2278684	4.52%	0.477%
213	17.460	2267	2275	2278	VV	10	64677	2247538	4.46%	0.471%
214	17.513	2278	2284	2300	VV	10	147112	6363658	12.62%	1.333%
215	17.642	2300	2306	2316	VV	10	71188	3711420	7.36%	0.777%
216	17.754	2316	2325	2329	VV	10	81838	3387680	6.72%	0.710%
217	17.813	2329	2335	2341	VV		193477	4465928	8.86%	0.936%
218	17.872	2341	2345	2354	VV		83167	3446452	6.84%	0.722%
219	17.948	2354	2358	2363	VV	8	82725	2535582	5.03%	0.531%
220	17.990	2363	2365	2369	VV	5	83794	1783082	3.54%	0.374%
221	18.037	2369	2373	2376	VV	6	72930	1699237	3.37%	0.356%
222	18.078	2376	2380	2389	VV	6	79377	3383976	6.71%	0.709%
223	18.142	2389	2391	2396	VV	6	93000	2211040	4.39%	0.463%
224	18.189	2396	2399	2407	VV	10	78448	2795411	5.54%	0.586%
225	18.260	2407	2411	2414	VV	6	77698	1967369	3.90%	0.412%
226	18.284	2414	2415	2417	VV	2	74111	690070	1.37%	0.145%
227	18.419	2417	2438	2440	VV		174490	7499383	14.87%	1.571%
228	18.448	2440	2443	2465	VV	3	175315	8125171	16.11%	1.702%
229	18.595	2465	2468	2477	VV	3	77542	3312813	6.57%	0.694%
230	18.684	2477	2483	2486	VV	8	80553	2084556	4.13%	0.437%
231	18.707	2486	2487	2492	VV	5	72391	1586999	3.15%	0.332%
232	18.748	2492	2494	2497	VV	4	71850	1219034	2.42%	0.255%
233	18.860	2497	2513	2516	VV	2	158046	6117242	12.13%	1.281%
234	18.895	2516	2519	2525	VV	2	157360	3898237	7.73%	0.817%

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

235	18.978	2525	2533	2545	VV		2120163	39195328	77.74%	8.211%
236	19.060	2545	2547	2549	VV	3	79365	1107168	2.20%	0.232%
237	19.095	2549	2553	2558	VV	7	75349	2305444	4.57%	0.483%
238	19.136	2558	2560	2575	VV	7	71468	4013531	7.96%	0.841%
239	19.242	2575	2578	2580	VV	4	72009	1357760	2.69%	0.284%
240	19.272	2580	2583	2586	VV	5	66359	1318500	2.62%	0.276%
241	19.313	2586	2590	2597	VV	10	69364	2445161	4.85%	0.512%
242	19.384	2597	2602	2624	VV	10	73028	6248601	12.39%	1.309%
243	19.554	2624	2631	2642	VV	10	68135	4062060	8.06%	0.851%
244	19.748	2642	2664	2684	VV	10	94226	9961494	19.76%	2.087%
245	19.954	2684	2699	2705	VV	10	70166	4521096	8.97%	0.947%
246	20.019	2705	2710	2724	VV	10	70362	4316449	8.56%	0.904%
247	20.201	2724	2741	2753	VV	10	64521	5839265	11.58%	1.223%
248	20.307	2753	2759	2764	VV	10	66832	2409166	4.78%	0.505%
249	20.378	2764	2771	2785	VV	10	64636	4349063	8.63%	0.911%
250	20.513	2785	2794	2809	VV	10	66293	4927957	9.77%	1.032%
251	20.654	2809	2818	2828	VV	10	60166	3807494	7.55%	0.798%
252	20.807	2828	2844	2850	VV	10	63404	4197755	8.33%	0.879%
253	20.866	2850	2854	2863	VV	10	55124	2434477	4.83%	0.510%
254	20.925	2863	2864	2872	VV	8	58344	1625765	3.22%	0.341%
255	21.025	2872	2881	2895	VV	5	126422	6226636	12.35%	1.304%
256	21.160	2895	2904	2912	VV	5	54952	3068319	6.09%	0.643%
257	21.301	2912	2928	2938	VV	5	56493	4478716	8.88%	0.938%
258	21.430	2938	2950	2958	VV	5	53721	3352933	6.65%	0.702%
259	21.542	2958	2969	2976	VV	5	53023	3023381	6.00%	0.633%
260	21.642	2976	2986	3019	VV	5	84012	7923872	15.72%	1.660%
261	21.860	3019	3023	3037	VV	5	45144	2562077	5.08%	0.537%
262	21.989	3037	3045	3064	VV	5	45332	3943315	7.82%	0.826%
263	22.125	3064	3068	3073	VV	8	41524	1239268	2.46%	0.260%
264	22.183	3073	3078	3089	VV	8	40354	2094301	4.15%	0.439%
265	22.325	3089	3102	3122	VV	8	41804	4193910	8.32%	0.879%
266	22.525	3122	3136	3151	VV	8	44462	3621043	7.18%	0.759%
267	22.630	3151	3154	3167	VV	8	36510	1930933	3.83%	0.405%
268	22.724	3167	3170	3188	VV	8	38894	2228799	4.42%	0.467%
269	22.848	3188	3191	3195	VV	6	32235	712312	1.41%	0.149%
270	22.907	3195	3201	3221	VV	6	35421	2719194	5.39%	0.570%
271	23.148	3221	3242	3257	VV	6	34574	3762964	7.46%	0.788%
272	23.289	3257	3266	3273	VV	6	33890	1539988	3.05%	0.323%
273	23.389	3273	3283	3293	VV	6	32736	1909395	3.79%	0.400%
274	23.483	3293	3299	3305	VV	6	30952	1083292	2.15%	0.227%
275	23.619	3305	3322	3344	VV	6	29619	3185617	6.32%	0.667%
276	23.789	3344	3351	3359	VV	6	25890	1219123	2.42%	0.255%
277	23.848	3359	3361	3369	VV	8	27019	694562	1.38%	0.146%
278	23.977	3369	3383	3388	VV	8	23626	1322448	2.62%	0.277%
279	24.024	3388	3391	3410	VV	8	24358	1442343	2.86%	0.302%
280	24.183	3410	3418	3449	VV	8	21437	2133728	4.23%	0.447%
281	24.448	3449	3463	3471	VV	8	17885	1031917	2.05%	0.216%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

282	24.507	3471	3473	3486	VV	8	14338	647269	1.28%	0.136%
283	24.607	3486	3490	3493	VV	6	12003	209428	0.42%	0.044%
284	24.660	3493	3499	3520	VV	6	11767	768692	1.52%	0.161%
285	24.801	3520	3523	3527	VV	6	9769	184266	0.37%	0.039%
286	24.848	3527	3531	3543	VV	6	6726	323317	0.64%	0.068%

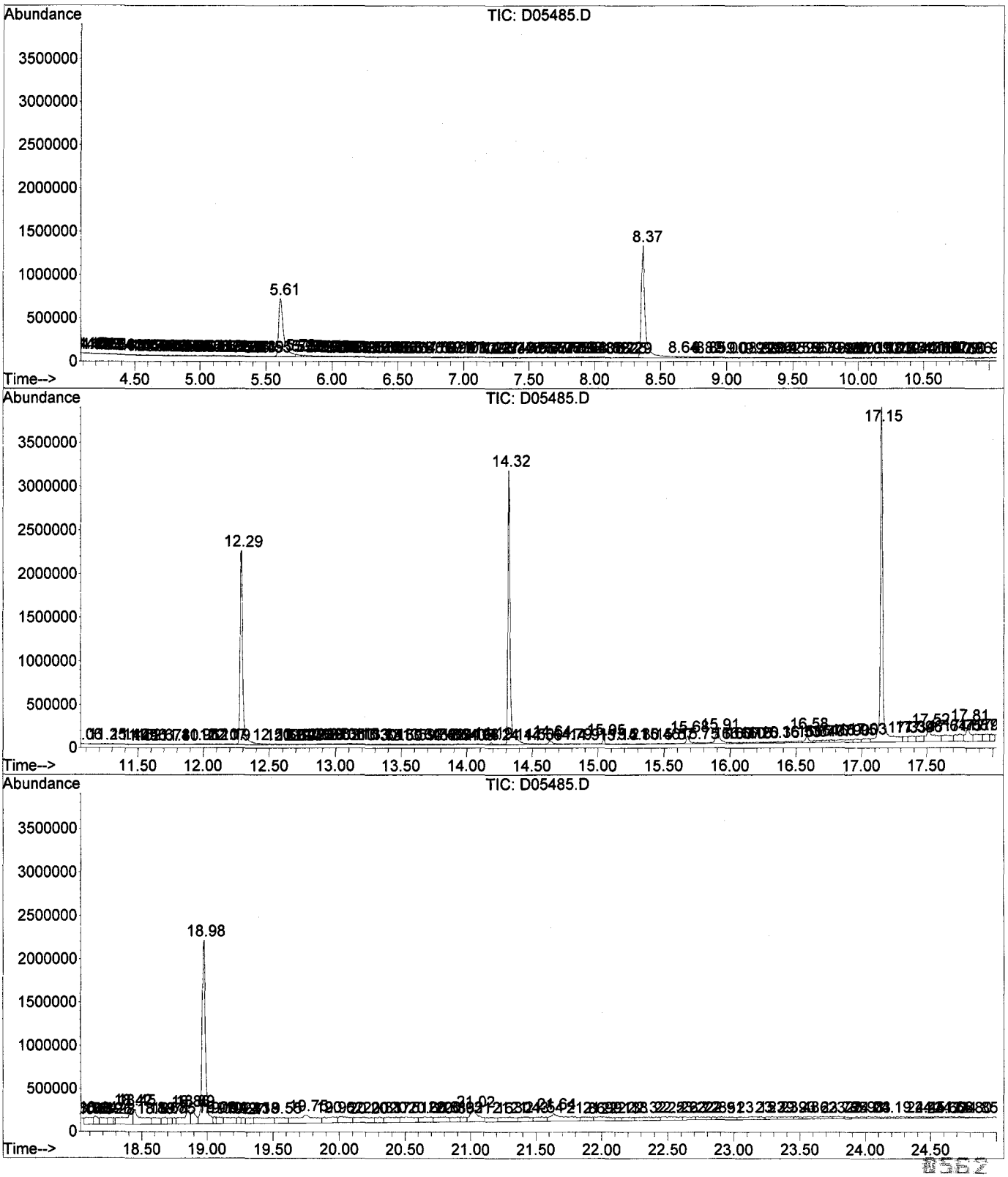
Sum of corrected areas: 477353610

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SV
Sample : GPCBLK67 Inst : D-5973
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.M
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.1

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\\
Data File : D05485.D
Acq On : 12/14/11 12:14 Operator: SVV
Sample : GPCBLK67 Inst : D-59733
Misc : GPCBLK67 10ML/1ML INJ VOL: 1ULL
ALS Vial : 3 Sample Multiplier: 11

Quant Method : C:\MSDCHEM\1\METHODS\CLPBD05480.MM
Quant Title : SEMI- VOLATILES ANALYSIS BY CLP SOM1.11

TIC Library : C:\DATABASE\NIST02.LL
TIC Integration Parameters: LSCINT.ee

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

2M - FORM II SV-SIM2

SOIL SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	SBLK67	78	90	0
02	F4XP0	87	90	0
03	F4XP1	87	88	0
04	F4XP2	88	91	0
05	F4XP3	81	83	0
06	F4XP4	82	85	0
07	F4XP5	93	90	0
08	F4XP6	81	77	0
09	F4XQ5	86	84	0
10	F4XP7	78	82	0
11	F4XP8	84	87	0
12	F4XP9	89	87	0
13	F4XQ6	96	87	0
14	F4XQ0	94	98	0
15	F4XQ1	91	92	0
16	F4XQ2	95	92	0
17	F4XQ3	96	96	0
18	F4XQ4	105	94	0
19	F4XP2MS	92	94	0
20	F4XP2MSD	93	93	0
21	F4XQ7	107	99	0
22	F4XQ8	93	96	0
23	F4XQ9	98	97	0
24	F4XP5DL	117	85	0
25	F4XQ6DL	112	89	0
26	F4XQ3DL	114	98	0
27	F4XQ7DL	118	91	0
28				
29				
30				

	QC LIMITS
SDMC17 (FLN) = Fluoranthene-d10	(50-150)
SDMC18 (2MN) = 2-Methylnapthalene-d10	(50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

3F - FORM III SV-SIM2

SOIL SEMIVOLATILE SIM MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix Spike - EPA Sample No.: F4XP2

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC LIMITS REC.
Acenaphthene	10.9	0	11	101	31-137
Pentachlorophenol	10.9	0	14	129 *	17-109
Pyrene	10.9	16	25	83	35-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	10.9	11	101	0	0-19	31-137
Pentachlorophenol	10.9	14	128 *	1	0-47	17-109
Pyrene	10.9	25	82	1	0-36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 3 outside limits

Spike Recovery: 2 out of 6 outside limits

COMMENTS: _____

_____

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: C14917 Lab Sample ID: SBLK67

Instrument ID: C-5975 Date Extracted: 12/13/2011

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/15/2011

Time Analyzed: 1139 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F4XP0	S-4460.01	C14918	12/15/2011
02	F4XP1	S-4460.02	C14919	12/15/2011
03	F4XP2	S-4460.03	C14920	12/15/2011
04	F4XP3	S-4460.04	C14921	12/15/2011
05	F4XP4	S-4460.05	C14922	12/15/2011
06	F4XP5	S-4460.06	C14923	12/15/2011
07	F4XP6	S-4460.07	C14924	12/15/2011
08	F4XQ5	S-4460.08	C14925	12/15/2011
09	F4XP7	S-4465.01	C14926	12/15/2011
10	F4XP8	S-4465.02	C14927	12/15/2011
11	F4XP9	S-4465.03	C14931	12/19/2011
12	F4XQ6	S-4465.04	C14932	12/19/2011
13	F4XQ0	S-4476.01	C14933	12/19/2011
14	F4XQ1	S-4476.02	C14934	12/19/2011
15	F4XQ2	S-4476.03	C14935	12/19/2011
16	F4XQ3	S-4476.04	C14936	12/19/2011
17	F4XQ4	S-4476.05	C14937	12/19/2011
18	F4XP2MS	S-4460.03MS	C14938	12/19/2011
19	F4XP2MSD	S-4460.03MSD	C14939	12/19/2011
20	F4XQ7	S-4476.06	C14941	12/19/2011
21	F4XQ8	S-4476.07	C14942	12/19/2011
22	F4XQ9	S-4476.08	C14943	12/19/2011
23	F4XP5DL	S-4460.06DL	C14947	12/20/2011
24	F4XQ6DL	S-4465.04DL	C14948	12/20/2011
25	F4XQ3DL	S-4476.04DL	C14949	12/20/2011
26	F4XQ7DL	S-4476.06DL	C14950	12/20/2011
27				
28				
29				
30				

COMMENTS: _____

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPYJ

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: C14871 DFTPP Injection Date: 12/09/2011

Instrument ID: C-5975 DFTPP Injection Time: 0957

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	47.55	
68	Less than 2.0% of mass 69	0.26	(0.59)1
69	Mass 69 relative abundance	44.19	
70	Less than 2.0% of mass 69	0.21	(0.48)1
127	10.0 - 80.0% of mass 198	51.67	
197	Less than 2.0% of mass 198	0.00	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.42	
275	10.0 - 60.0% of mass 198	24.61	
365	Greater than 1.0% of mass 198	2.71	
441	Present, but less than mass 443	75.07	
442	50.0 - 100.0% of mass 198	80.57	
443	15.0 - 24.0% of mass 442	15.62	(19.38)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	SSTD001YJ	SSTD001YJ	C14872	12/09/2011	1115
02	SSTD0.8YJ	SSTD0.8YJ	C14873	12/09/2011	1149
03	SSTD0.4YJ	SSTD0.4YJ	C14874	12/09/2011	1220
04	SSTD0.2YJ	SSTD0.2YJ	C14875	12/09/2011	1251
05	SSTD0.1YJ	SSTD0.1YJ	C14876	12/09/2011	1322
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPYP

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: C14914 DFTPP Injection Date: 12/15/2011

Instrument ID: C-5975 DFTPP Injection Time: 0956

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	49.28	
68	Less than 2.0% of mass 69	0.50	(1.08)1
69	Mass 69 relative abundance	46.42	
70	Less than 2.0% of mass 69	0.20	(0.43)1
127	10.0 - 80.0% of mass 198	52.50	
197	Less than 2.0% of mass 198	0.00	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.62	
275	10.0 - 60.0% of mass 198	24.09	
365	Greater than 1.0% of mass 198	2.55	
441	Present, but less than mass 443	76.69	
442	50.0 - 100.0% of mass 198	81.69	
443	15.0 - 24.0% of mass 442	15.74	(19.27)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	SSTD0.4YP	SSTD0.4YP	C14915	12/15/2011	1036
02	SBLK67	SBLK67	C14917	12/15/2011	1139
03	F4XP0	S-4460.01	C14918	12/15/2011	1210
04	F4XP1	S-4460.02	C14919	12/15/2011	1241
05	F4XP2	S-4460.03	C14920	12/15/2011	1312
06	F4XP3	S-4460.04	C14921	12/15/2011	1342
07	F4XP4	S-4460.05	C14922	12/15/2011	1414
08	F4XP5	S-4460.06	C14923	12/15/2011	1444
09	F4XP6	S-4460.07	C14924	12/15/2011	1516
10	F4XQ5	S-4460.08	C14925	12/15/2011	1547
11	F4XP7	S-4465.01	C14926	12/15/2011	1618
12	F4XP8	S-4465.02	C14927	12/15/2011	1649
13	SSTD0.4YQ	SSTD0.4YQ	C14928	12/15/2011	1901
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPYR

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: C14929 DFTPP Injection Date: 12/19/2011

Instrument ID: C-5975 DFTPP Injection Time: 0944

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	45.61	
68	Less than 2.0% of mass 69	0.00	(0.00)1
69	Mass 69 relative abundance	43.42	
70	Less than 2.0% of mass 69	0.21	(0.48)1
127	10.0 - 80.0% of mass 198	50.25	
197	Less than 2.0% of mass 198	0.00	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.69	
275	10.0 - 60.0% of mass 198	25.44	
365	Greater than 1.0% of mass 198	2.70	
441	Present, but less than mass 443	77.24	
442	50.0 - 100.0% of mass 198	86.89	
443	15.0 - 24.0% of mass 442	16.81	(19.34)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	SSTD0.4YR	SSTD0.4YR	C14930	12/19/2011	1108
02	F4XP9	S-4465.03	C14931	12/19/2011	1146
03	F4XQ6	S-4465.04	C14932	12/19/2011	1217
04	F4XQ0	S-4476.01	C14933	12/19/2011	1248
05	F4XQ1	S-4476.02	C14934	12/19/2011	1319
06	F4XQ2	S-4476.03	C14935	12/19/2011	1350
07	F4XQ3	S-4476.04	C14936	12/19/2011	1421
08	F4XQ4	S-4476.05	C14937	12/19/2011	1452
09	F4XP2MS	S-4460.03MS	C14938	12/19/2011	1523
10	F4XP2MSD	S-4460.03MSD	C14939	12/19/2011	1554
11	F4XQ7	S-4476.06	C14941	12/19/2011	1741
12	F4XQ8	S-4476.07	C14942	12/19/2011	1812
13	F4XQ9	S-4476.08	C14943	12/19/2011	1844
14	SSTD0.4YS	SSTD0.4YS	C14944	12/19/2011	1915
15					
16					
17					
18					
19					
20					
21					
22					

SOM01.1 (5/2005)

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPYT

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab File ID: C14945 DFTPP Injection Date: 12/20/2011

Instrument ID: C-5975 DFTPP Injection Time: 0944

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	43.34	
68	Less than 2.0% of mass 69	0.00	(0.00)1
69	Mass 69 relative abundance	41.27	
70	Less than 2.0% of mass 69	0.21	(0.50)1
127	10.0 - 80.0% of mass 198	49.20	
197	Less than 2.0% of mass 198	0.00	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.51	
275	10.0 - 60.0% of mass 198	25.10	
365	Greater than 1.0% of mass 198	2.72	
441	Present, but less than mass 443	78.07	
442	50.0 - 100.0% of mass 198	86.84	
443	15.0 - 24.0% of mass 442	16.32	(18.79)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	SSTD0.4YT	SSTD0.4YT	C14946	12/20/2011	0958
02	F4XP5DL	S-4460.06DL	C14947	12/20/2011	1112
03	F4XQ6DL	S-4465.04DL	C14948	12/20/2011	1143
04	F4XQ3DL	S-4476.04DL	C14949	12/20/2011	1214
05	F4XQ7DL	S-4476.06DL	C14950	12/20/2011	1244
06	SSTD0.4YU	SSTD0.4YU	C14963	12/20/2011	1929
07					
08					
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8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s) 12/09/2011 12/09/2011

EPA Sample No.(SSTD0.4##): SSTD0.4YP Date Analyzed: 12/15/2011

Lab File ID: C14915 Time Analyzed: 1036

Instrument ID: C-5975

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD			0.00		190451		6.39		114215		9.18	
	UPPER LIMIT	0		0.00		380902		6.89		228430		9.68	
	LOWER LIMIT	0		0.00		95225		5.89		57107		8.68	
	EPA SAMPLE												
01	SBLK67	0		0.00		189425		6.39		127885		9.18	
02	F4XP0	0		0.00		192185		6.39		136590		9.18	
03	F4XP1	0		0.00		212511		6.39		154270		9.19	
04	F4XP2	0		0.00		179833		6.39		129163		9.19	
05	F4XP3	0		0.00		174588		6.39		121953		9.19	
06	F4XP4	0		0.00		177460		6.39		129705		9.19	
07	F4XP5	0		0.00		145958		6.39		106714		9.19	
08	F4XP6	0		0.00		166204		6.39		116304		9.19	
09	F4XQ5	0		0.00		174983		6.39		127795		9.19	
10	F4XP7	0		0.00		167341		6.39		119099		9.19	
11	F4XP8	0		0.00		168154		6.39		124133		9.19	
12	SSTD0.4YQ	0		0.00		167619		6.39		100119		9.19	
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene
IS2 (NPT) = Naphthalene-d8
IS3 (DCB) = Acenapthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s) 12/09/2011 12/09/2011

EPA Sample No.(SSTD0.4##): SSTD0.4YP Date Analyzed: 12/15/2011

Lab File ID: C14915 Time Analyzed: 1036

Instrument ID: C-5975

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	184004	11.58	92602	15.87	97241	18.14
	UPPER LIMIT	368008	12.08	185204	16.37	194482	18.64
	LOWER LIMIT	92002	11.08	46301	15.37	48620	17.64
	EPA SAMPLE						
01	SBLK67	212405	11.58	99782	15.87	112434	18.14
02	F4XP0	246294	11.59	139552	15.87	147770	18.14
03	F4XP1	268074	11.59	150244	15.88	145923	18.15
04	F4XP2	231884	11.59	135262	15.88	140872	18.15
05	F4XP3	221216	11.59	128778	15.88	139313	18.15
06	F4XP4	239071	11.59	137801	15.88	154061	18.15
07	F4XP5	200158	11.59	120148	15.88	142443	18.15
08	F4XP6	207248	11.59	121724	15.88	130351	18.15
09	F4XQ5	219574	11.59	132025	15.88	145552	18.15
10	F4XP7	212090	11.59	116501	15.88	133323	18.15
11	F4XP8	225224	11.59	132980	15.88	142915	18.15
12	SSTD0.4YQ	163767	11.59	90123	15.88	109226	18.15
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s) 12/09/2011 12/09/2011

EPA Sample No.(SSTD0.4##): SSTD0.4YR Date Analyzed: 12/19/2011

Lab File ID: C14930 Time Analyzed: 1108

Instrument ID: C-5975

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD			0.00		167882		6.39		107099		9.19	
	UPPER LIMIT	0		0.00		335764		6.89		214198		9.69	
	LOWER LIMIT	0		0.00		83941		5.89		53549		8.69	
	EPA SAMPLE												
01	F4XP9	0		0.00		170581		6.39		128177		9.19	
02	F4XQ6	0		0.00		186327		6.40		140279		9.19	
03	F4XQ0	0		0.00		154338		6.40		115557		9.19	
04	F4XQ1	0		0.00		150567		6.40		108182		9.19	
05	F4XQ2	0		0.00		151318		6.40		109763		9.20	
06	F4XQ3	0		0.00		144297		6.40		113277		9.20	
07	F4XQ4	0		0.00		158188		6.40		122031		9.20	
08	F4XP2MS	0		0.00		135011		6.40		105059		9.20	
09	F4XP2MSD	0		0.00		126145		6.40		97692		9.20	
10	F4XQ7	0		0.00		130492		6.40		99902		9.20	
11	F4XQ8	0		0.00		125668		6.40		97278		9.20	
12	F4XQ9	0		0.00		144958		6.40		115893		9.20	
13	SSTD0.4YS	0		0.00		156539		6.40		99730		9.20	
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene
IS2 (NPT) = Naphthalene-d8
IS3 (DCB) = Acenapthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s) 12/09/2011 12/09/2011

EPA Sample No.(SSTD0.4##): SSTD0.4YR Date Analyzed: 12/19/2011

Lab File ID: C14930 Time Analyzed: 1108

Instrument ID: C-5975

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	180916		11.59		96565		15.88		91213		18.15	
	UPPER LIMIT	361832		12.09		193130		16.38		182426		18.65	
	LOWER LIMIT	90458		11.09		48282		15.38		45606		17.65	
	EPA SAMPLE												
01	F4XP9	232377		11.59		129934		15.88		137556		18.16	
02	F4XQ6	246041		11.59		142475		15.89		141193		18.16	
03	F4XQ0	206044		11.59		113006		15.89		120052		18.16	
04	F4XQ1	200715		11.60		115930		15.89		126472		18.16	
05	F4XQ2	195719		11.60		117877		15.89		130790		18.16	
06	F4XQ3	214543		11.60		133226		15.89		136971		18.17	
07	F4XQ4	238659		11.60		147405		15.89		167378		18.17	
08	F4XP2MS	201259		11.60		122399		15.89		135836		18.17	
09	F4XP2MSD	179805		11.60		112230		15.89		127835		18.17	
10	F4XQ7	204098		11.59		131845		15.90		139095		18.18	
11	F4XQ8	186621		11.60		118713		15.89		138047		18.17	
12	F4XQ9	232888		11.60		146748		15.89		173810		18.18	
13	SSTD0.4YS	182656		11.60		120452		15.89		130455		18.17	
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s) 12/09/2011 12/09/2011

EPA Sample No.(SSTD0.4##): SSTD0.4YT Date Analyzed: 12/20/2011

Lab File ID: C14946 Time Analyzed: 0958

Instrument ID: C-5975

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD			0.00		156298		6.40		101062		9.19	
	UPPER LIMIT	0		0.00		312596		6.90		202124		9.69	
	LOWER LIMIT	0		0.00		78149		5.90		50531		8.69	
	EPA SAMPLE												
01	F4XP5DL	0		0.00		164771		6.40		104319		9.19	
02	F4XQ6DL	0		0.00		151292		6.40		101259		9.19	
03	F4XQ3DL	0		0.00		130880		6.40		86997		9.19	
04	F4XQ7DL	0		0.00		133170		6.40		85980		9.19	
05	SSTD0.4YU	0		0.00		137452		6.40		89533		9.19	
06													
07													
08													
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20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene
IS2 (NPT) = Naphthalene-d8
IS3 (DCB) = Acenapthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-5MS ID: 0.25 (mm) Init. Calib. Date(s) 12/09/2011 12/09/2011

EPA Sample No.(SSTD0.4##): SSTD0.4YT Date Analyzed: 12/20/2011

Lab File ID: C14946 Time Analyzed: 0958

Instrument ID: C-5975

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	177028		11.60		103259		15.89		91578		18.17	
	UPPER LIMIT	354056		12.10		206518		16.39		183156		18.67	
	LOWER LIMIT	88514		11.10		51629		15.39		45789		17.67	
	EPA SAMPLE												
01	F4XP5DL	180956		11.60		105982		15.89		139956		18.17	
02	F4XQ6DL	176067		11.60		107996		15.89		134666		18.17	
03	F4XQ3DL	156819		11.60		101923		15.89		135991		18.17	
04	F4XQ7DL	159231		11.60		106754		15.89		137200		18.17	
05	SSTD0.4YU	157728		11.60		96309		15.89		101916		18.17	
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18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.01

Sample wt/vol: 60.40 (g/mL) G Lab File ID: C14918

Extraction: (Type) SONC

% Moisture: 34 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.6	
91-57-6	2-Methylnaphthalene	2.3	J
208-96-8	Acenaphthylene	3.0	
83-32-9	Acenaphthene	2.5	U
86-73-7	Fluorene	2.5	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	4.0	
120-12-7	Anthracene	2.5	U
206-44-0	Fluoranthene	20	
129-00-0	Pyrene	16	
56-55-3	Benzo(a)anthracene	6.1	
218-01-9	Chrysene	11	
205-99-2	Benzo(b)fluoranthene	8.5	
207-08-9	Benzo(k)fluoranthene	3.4	
50-32-8	Benzo(a)pyrene	6.5	
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	
53-70-3	Dibenzo(a,h)anthracene	2.5	U
191-24-2	Benzo(g,h,i)perylene	6.8	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10 Operator: SK
Sample : F4XP0 Inst : C5975
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 09:39:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

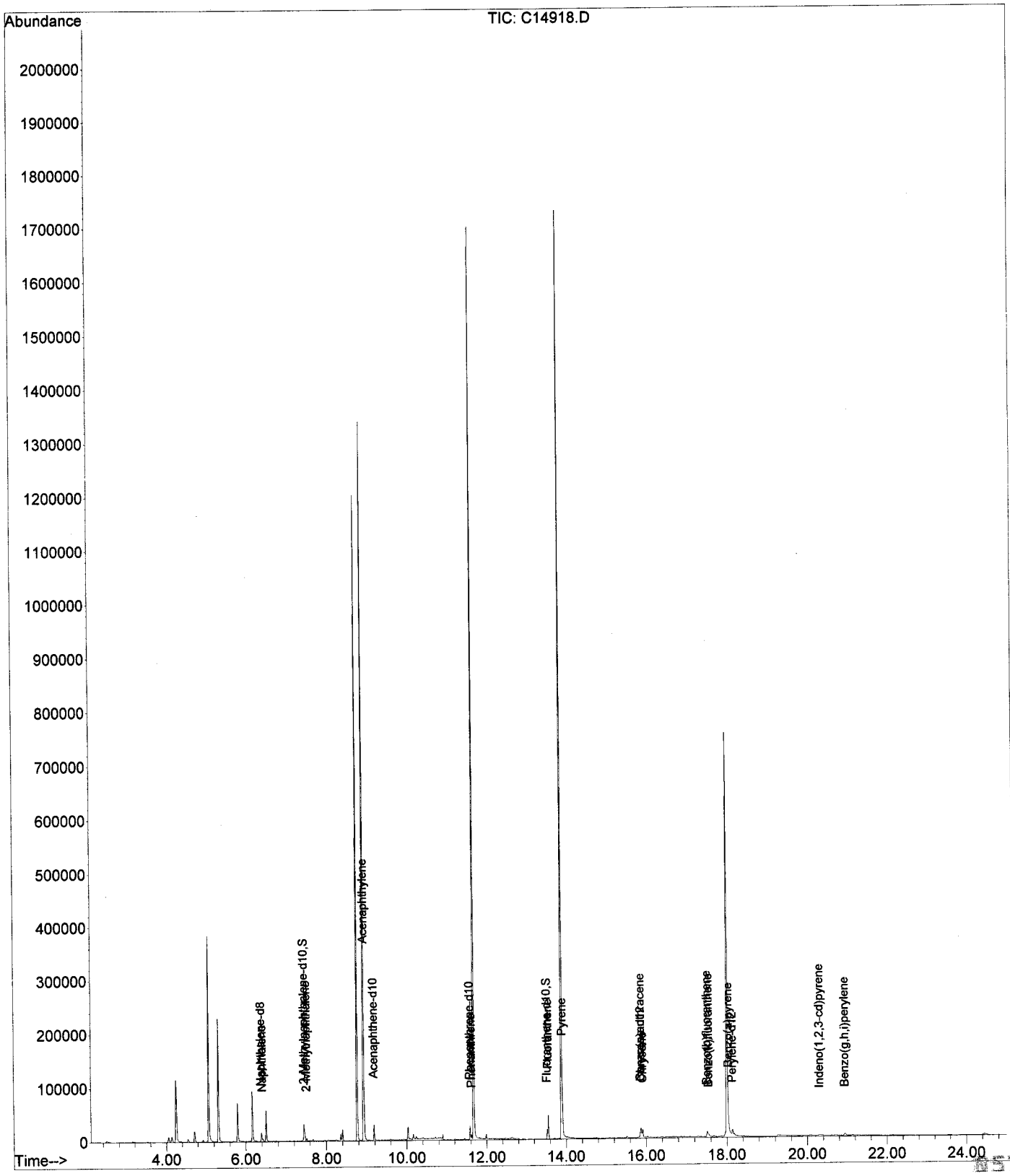
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	192185	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	136590	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	246294	0.4000	ug/mL	0.00
15) Chrysene-d12	15.87	240	139552	0.4000	ug/mL	0.00
19) Perylene-d12	18.14	264	147770m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	106666	0.3593	ug/mL	0.00
Spiked Amount 0.400			Recovery =	89.83%		
13) Fluoranthene-d10	13.52	212	188057	0.3467	ug/mL	0.00
Spiked Amount 0.400			Recovery =	86.67%		
Target Compounds						Qvalue
2) Naphthalene	6.42	128	52336	0.1053	ug/mL#	92
4) 2-Methylnaphthalene	7.52	142	27516	0.0909	ug/mL	98
6) Acenaphthylene	8.95	152	67715	0.1214	ug/mL#	78
11) Phenanthrene	11.62	178	89791	0.1602	ug/mL#	93
14) Fluoranthene	13.55	202	432478	0.8079	ug/mL	98
16) Benzo(a)anthracene	15.86	228	95379	0.2440	ug/mL#	71
17) Chrysene	15.91	228	174826	0.4324	ug/mL#	90
18) Pyrene	13.91	202	382277	0.6426	ug/mL	94
20) Benzo(b)fluoranthene	17.52	252	137212	0.3400	ug/mL	98
21) Benzo(k)fluoranthene	17.55	252	64405	0.1356	ug/mL	98
22) Benzo(a)pyrene	18.05	252	108675	0.2596	ug/mL	97
24) Indeno(1,2,3-cd)pyrene	20.30	276	61707	0.1848	ug/mL#	87
25) Benzo(g,h,i)perylene	20.95	276	100949	0.2695	ug/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

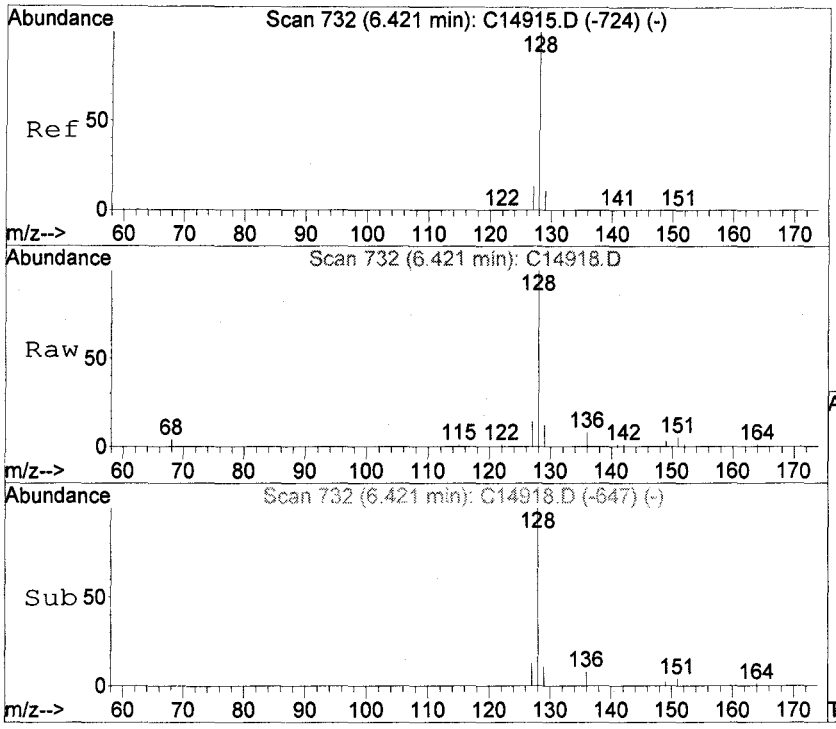
Data File: C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10 Operator: SK
Sample : F4XP0 Inst : C5975
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 09:39:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



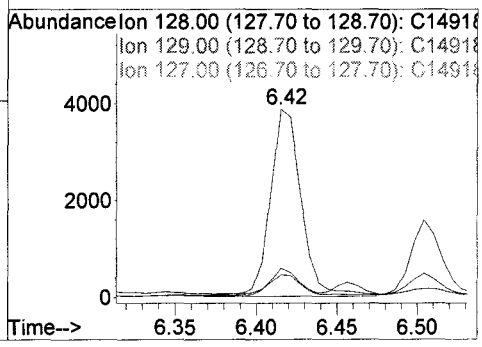
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

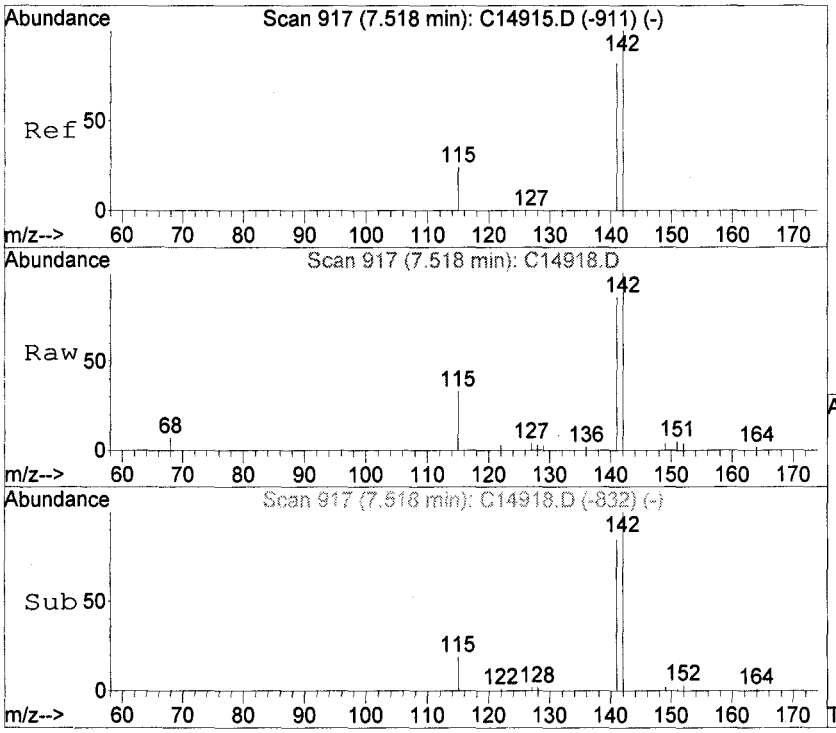
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.11 ug/mL
RT: 6.42 min Scan# 732
Delta R.T. 0.00 min
Integration Range:
Scan=723 to 741
R.T.= 6.37 to 6.47 (min)
Tgt Ion:128 Resp: 52336

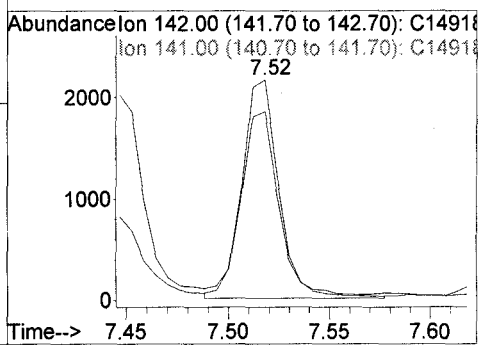
Ion	Ratio	Lower	Upper
128	100		
129	14.3	8.8	13.2#
127	16.0	10.7	16.1





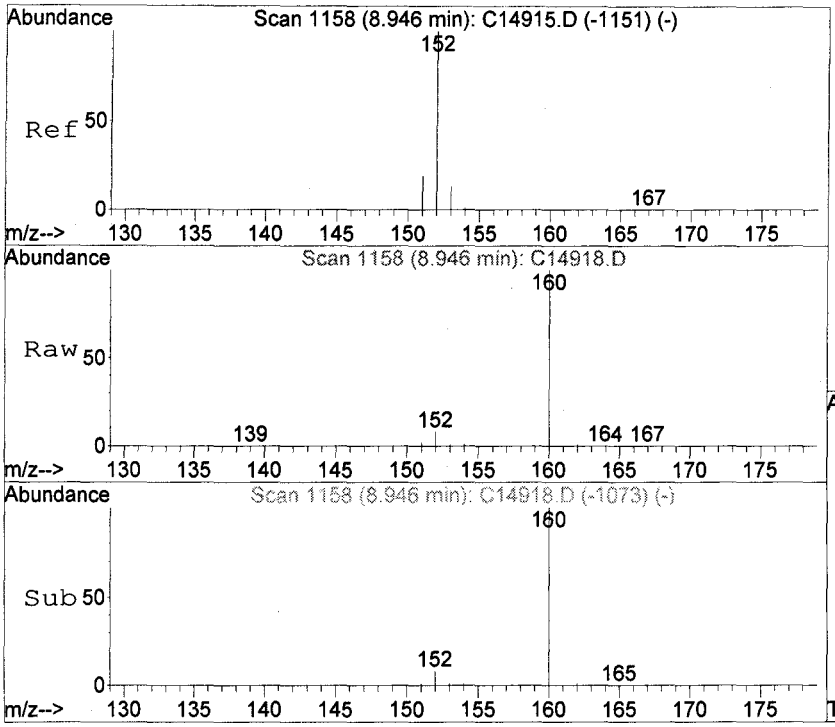
#4
2-Methylnaphthalene
Concen: 0.09 ug/mL
RT: 7.52 min Scan# 917
Delta R.T. 0.00 min
Integration Range:
Scan=912 to 927
R.T.= 7.49 to 7.58 (min)
Tgt Ion:142 Resp: 27516

Ion	Ratio	Lower	Upper
142	100		
141	87.1	67.9	101.9



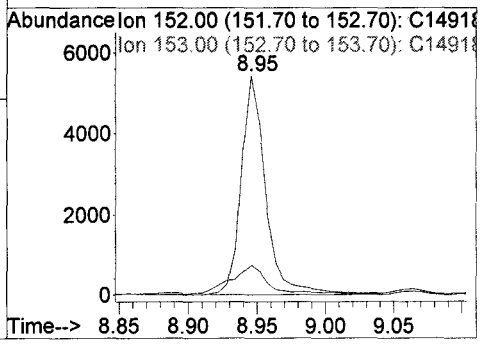
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

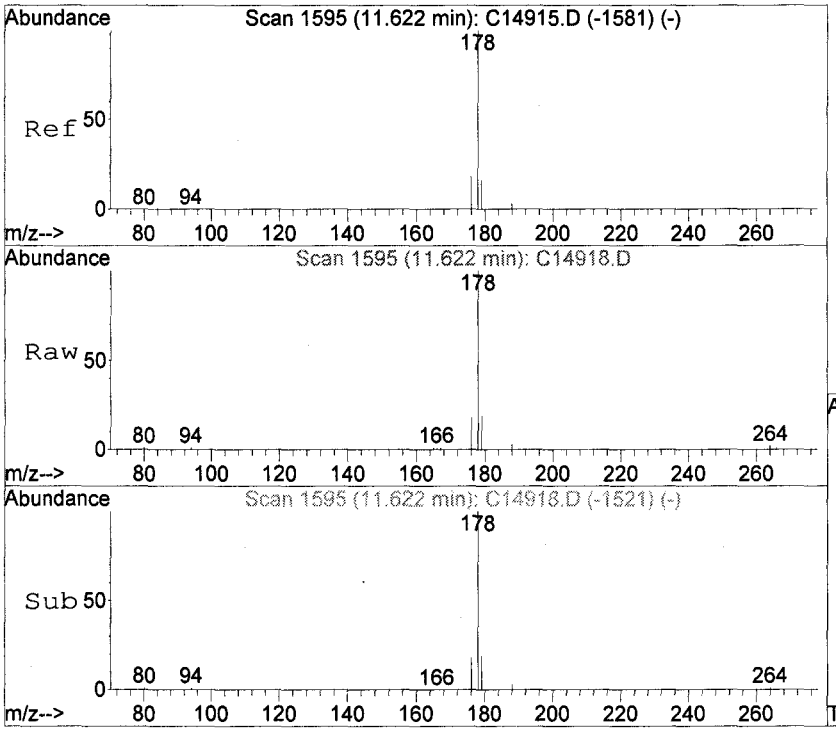
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.12 ug/mL
RT: 8.95 min Scan# 1158
Delta R.T. 0.00 min
Integration Range:
Scan=1152 to 1174
R.T.= 8.91 to 9.04 (min)
Tgt Ion:152 Resp: 67715

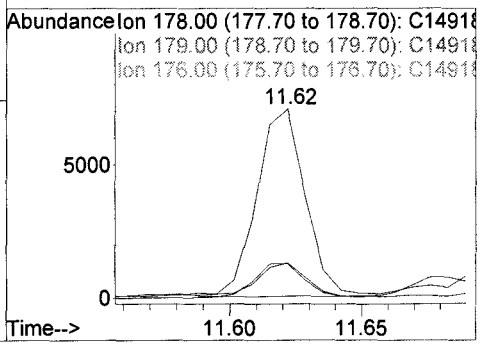
Ion	Ratio	Lower	Upper
152	100		
153	21.8	10.5	15.7#





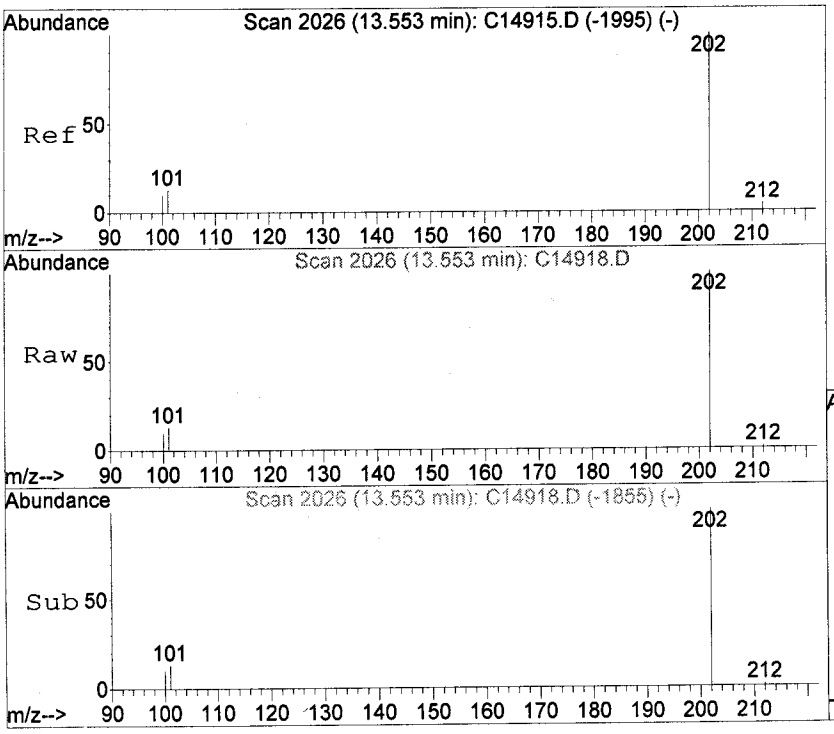
#11
Phenanthrene
Concen: 0.16 ug/mL
RT: 11.62 min Scan# 1595
Delta R.T. 0.00 min
Integration Range:
Scan=1590 to 1600
R.T.= 11.59 to 11.66 (min)
Tgt Ion:178 Resp: 89791

Ion	Ratio	Lower	Upper
178	100		
179	19.3	12.2	18.4#
176	19.9	14.5	21.7



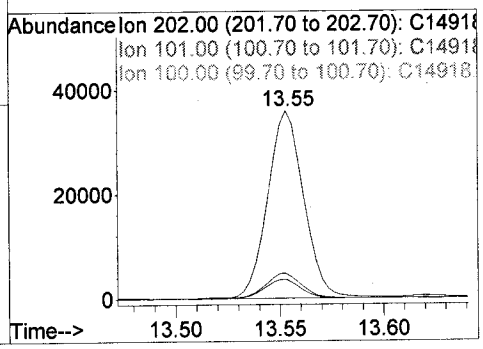
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

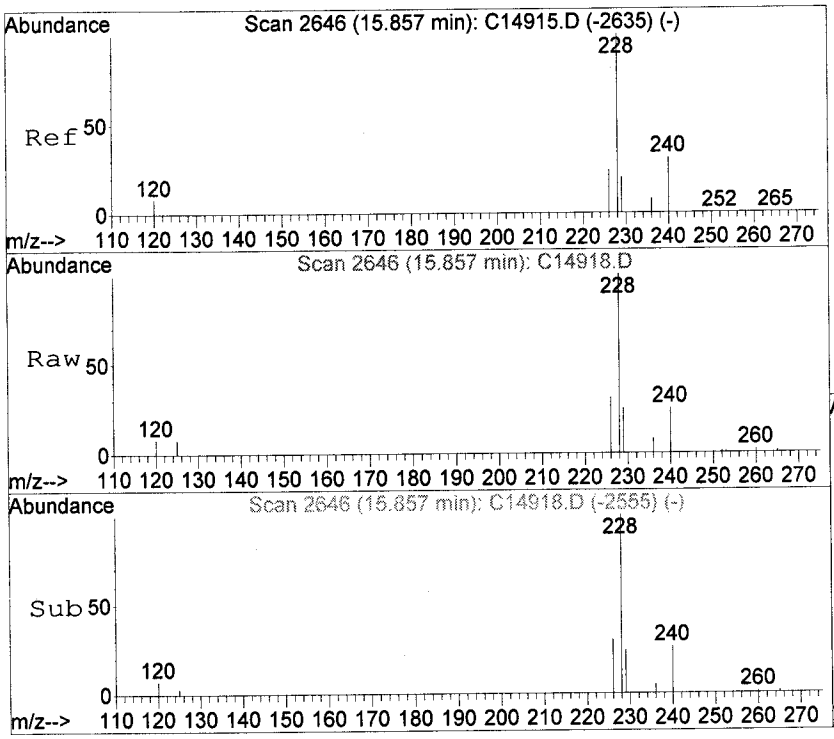
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#14
Fluoranthene
Concen: 0.81 ug/mL
RT: 13.55 min Scan# 2026
Delta R.T. 0.00 min
Integration Range:
Scan=2013 to 2042
R.T.= 13.51 to 13.60 (min)
Tgt Ion:202 Resp: 432478

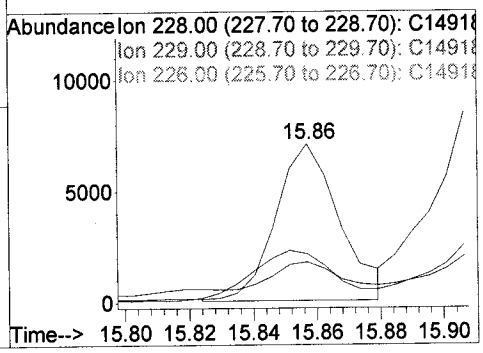
Ion	Ratio	Lower	Upper
202	100		
101	13.4	11.5	17.3
100	10.6	8.8	13.2





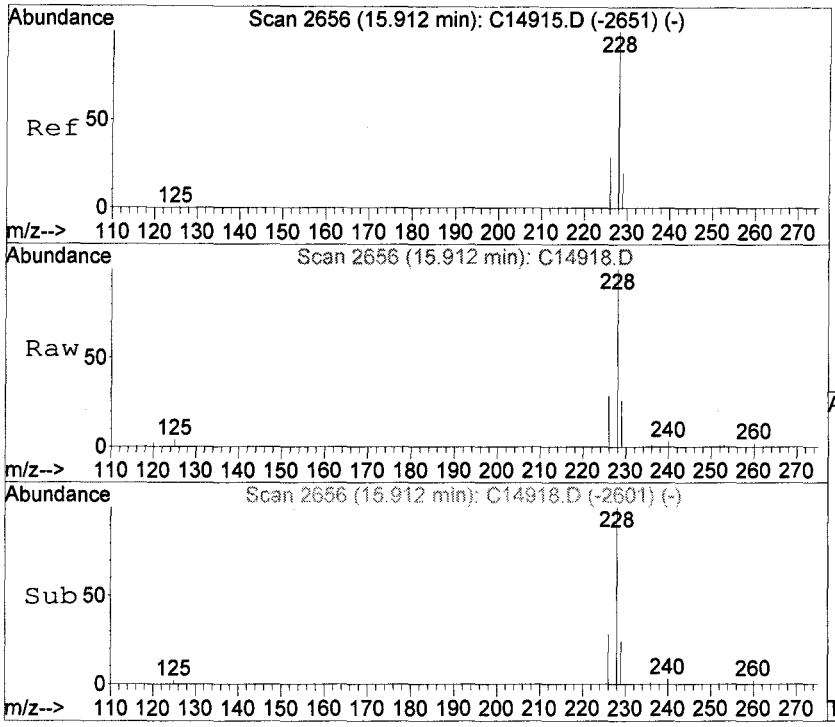
#16
Benzo(a)anthracene
Concen: 0.24 ug/mL
RT: 15.86 min Scan# 2646
Delta R.T. 0.00 min
Integration Range:
Scan=2640 to 2650
R.T.= 15.82 to 15.88 (min)
Tgt Ion:228 Resp: 95379

Ion	Ratio	Lower	Upper
228	100		
229	29.7	15.8	23.8#
226	43.1	20.5	30.7#



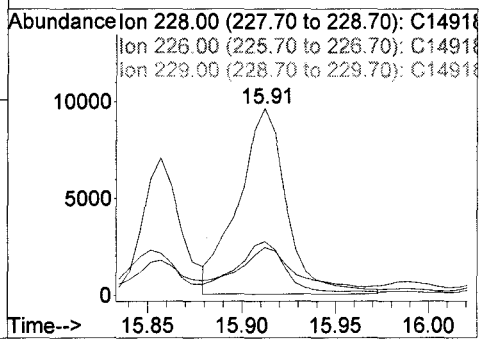
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

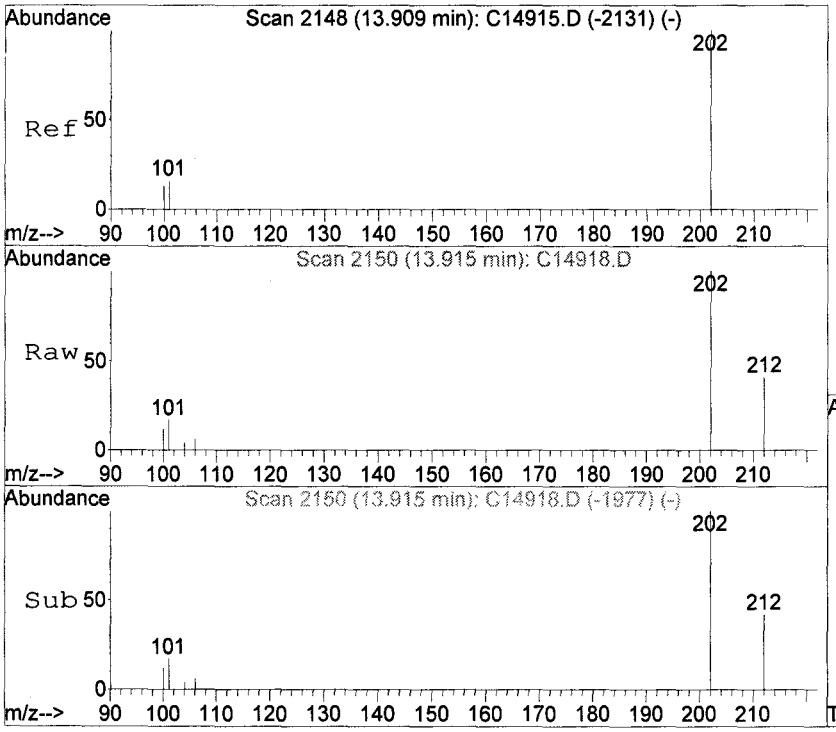
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#17
Chrysene
Concen: 0.43 ug/mL
RT: 15.91 min Scan# 2656
Delta R.T. 0.00 min
Integration Range:
Scan=2650 to 2667
R.T.= 15.88 to 15.97 (min)
Tgt Ion:228 Resp: 174826

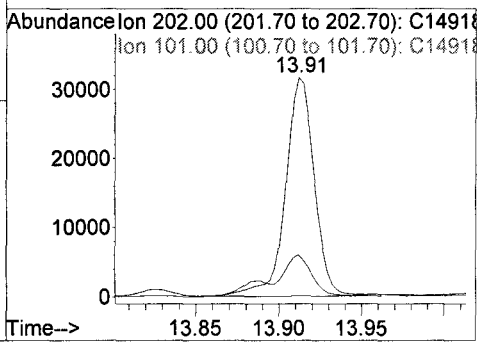
Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.8	34.2
229	30.1	15.9	23.9#





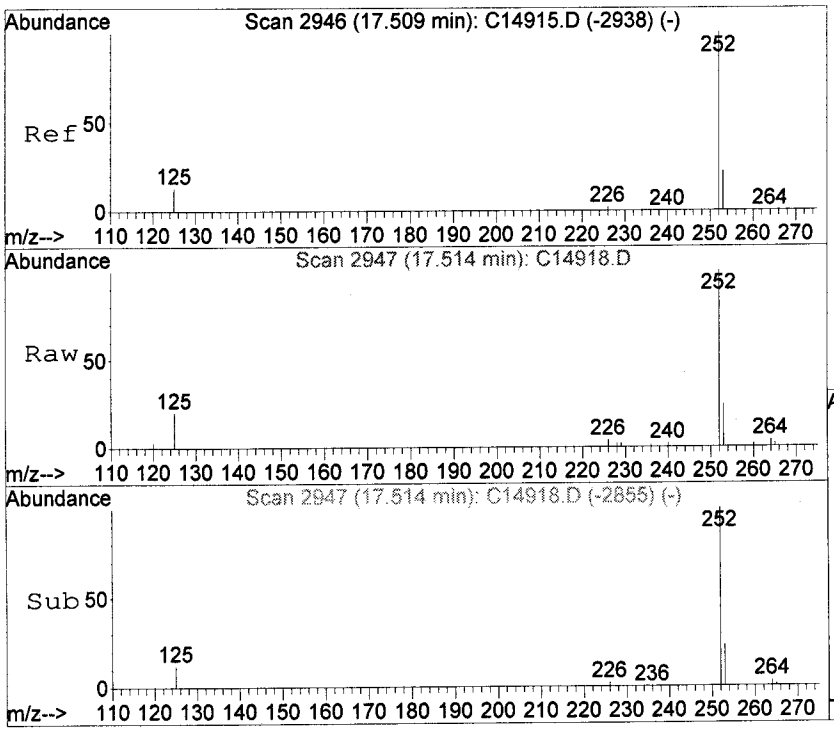
#18
Pyrene
Concen: 0.64 ug/mL
RT: 13.91 min Scan# 2150
Delta R.T. 0.00 min
Integration Range:
Scan=2129 to 2166
R.T.= 13.85 to 13.96 (min)
Tgt Ion:202 Resp: 382277

Ion	Ratio	Lower	Upper
202	100		
101	19.0	13.2	19.8



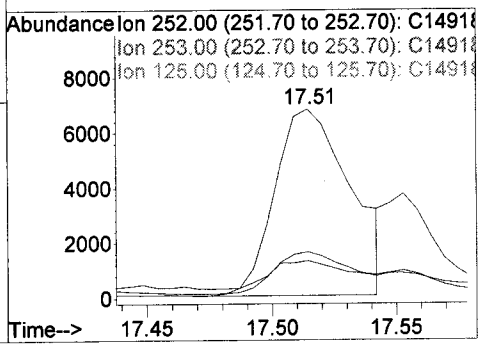
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

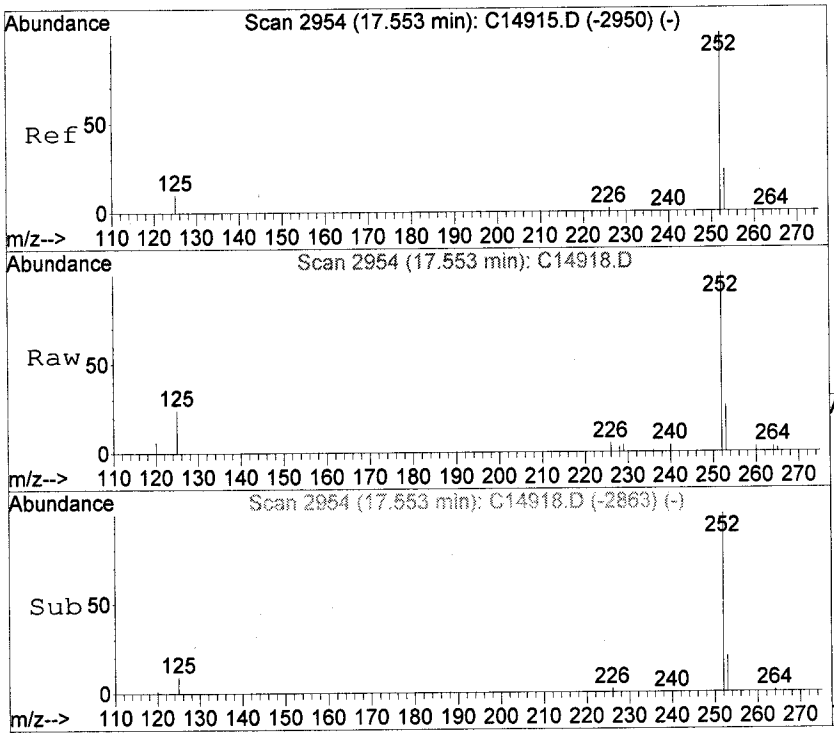
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#20
Benzo(b)fluoranthene
Concen: 0.34 ug/mL
RT: 17.52 min Scan# 2947
Delta R.T. 0.01 min
Integration Range:
Scan=2939 to 2952
R.T.= 17.47 to 17.54 (min)
Tgt Ion:252 Resp: 137212

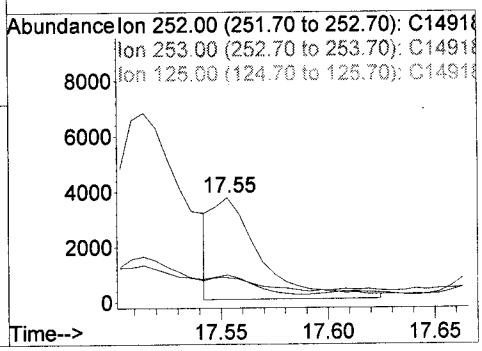
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	15.9	12.3	18.5





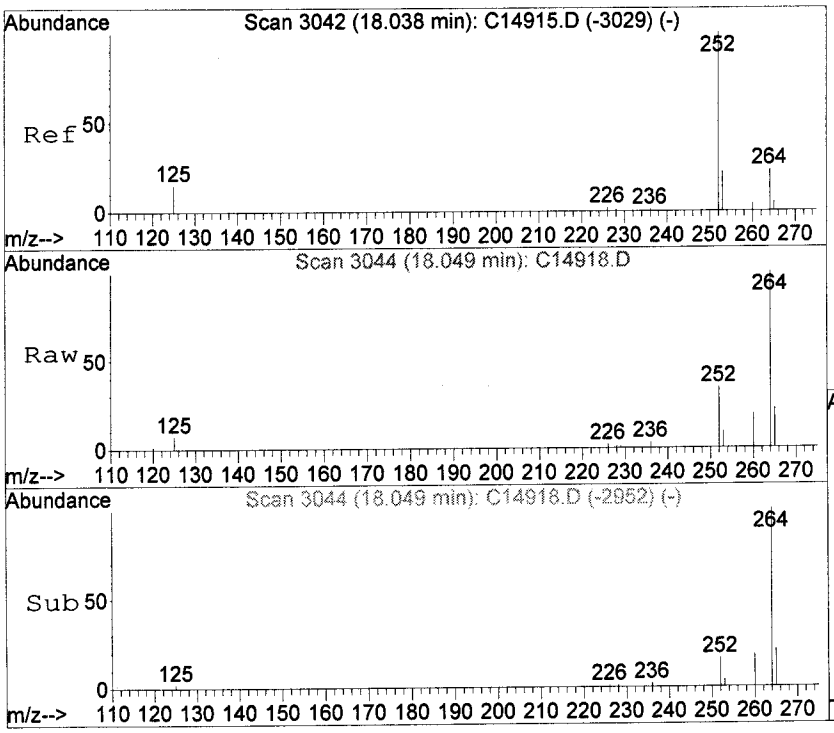
#21
Benzo(k)fluoranthene
Concen: 0.14 ug/mL
RT: 17.55 min Scan# 2954
Delta R.T. 0.00 min
Integration Range:
Scan=2952 to 2967
R.T.= 17.54 to 17.62 (min)
Tgt Ion:252 Resp: 64405

Ion	Ratio	Lower	Upper
252	100		
253	20.3	17.7	26.5
125	15.5	12.4	18.6



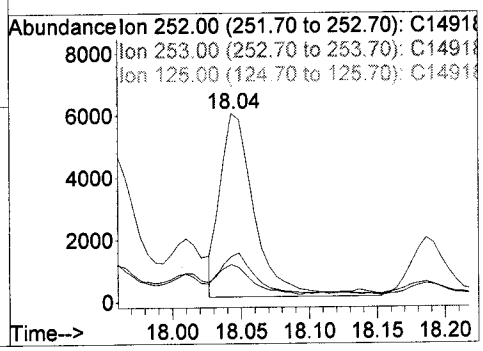
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

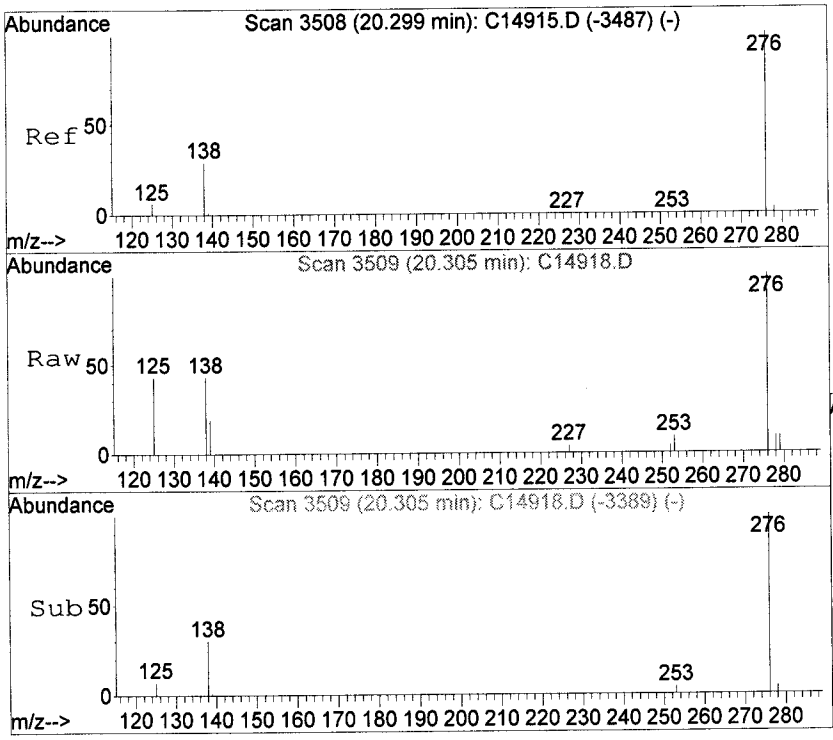
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#22
Benzo(a)pyrene
Concen: 0.26 ug/mL
RT: 18.05 min Scan# 3044
Delta R.T. 0.01 min
Integration Range:
Scan=3040 to 3063
R.T.= 18.03 to 18.15 (min)
Tgt Ion:252 Resp: 108675

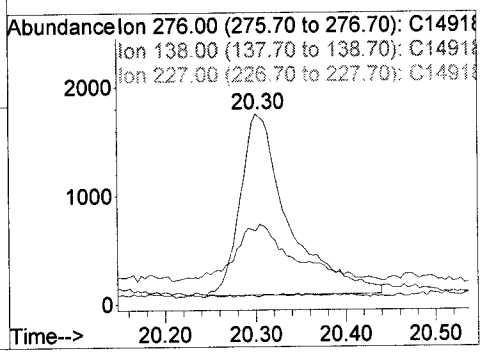
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	17.0	13.1	19.7





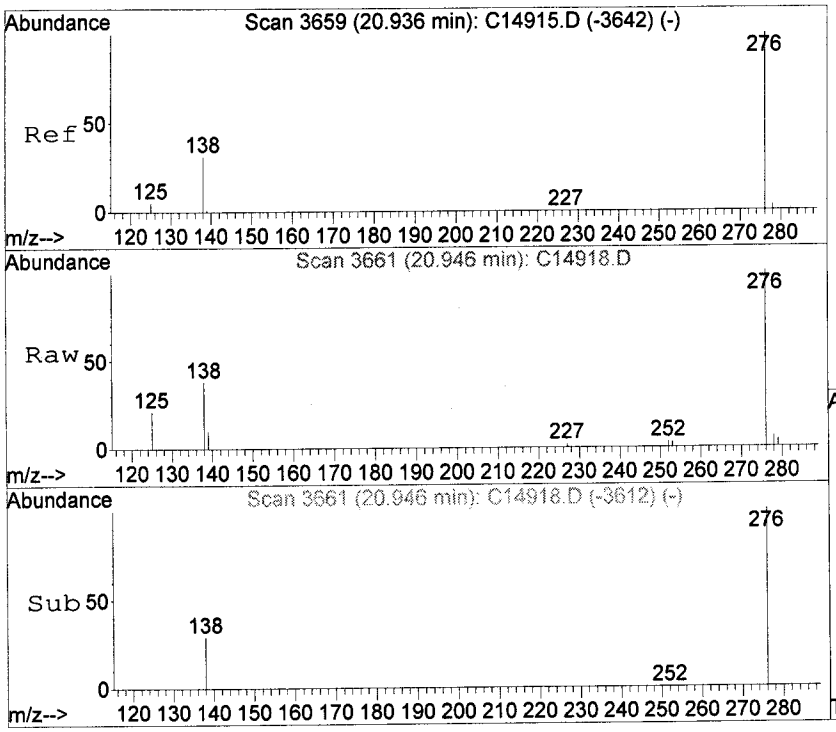
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.18 ug/mL
RT: 20.30 min Scan# 3509
Delta R.T. 0.01 min
Integration Range:
Scan=3495 to 3541
R.T.= 20.25 to 20.44 (min)
Tgt Ion:276 Resp: 61707

Ion	Ratio	Lower	Upper
276	100		
138	36.5	23.7	35.5#
227	0.2	0.0	0.0#



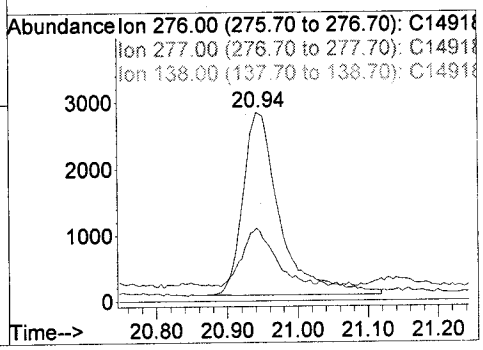
Data File : C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.27 ug/mL
RT: 20.95 min Scan# 3661
Delta R.T. 0.01 min
Integration Range:
Scan=3643 to 3702
R.T.= 20.87 to 21.12 (min)
Tgt Ion:276 Resp: 100949

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.3	26.2	39.2



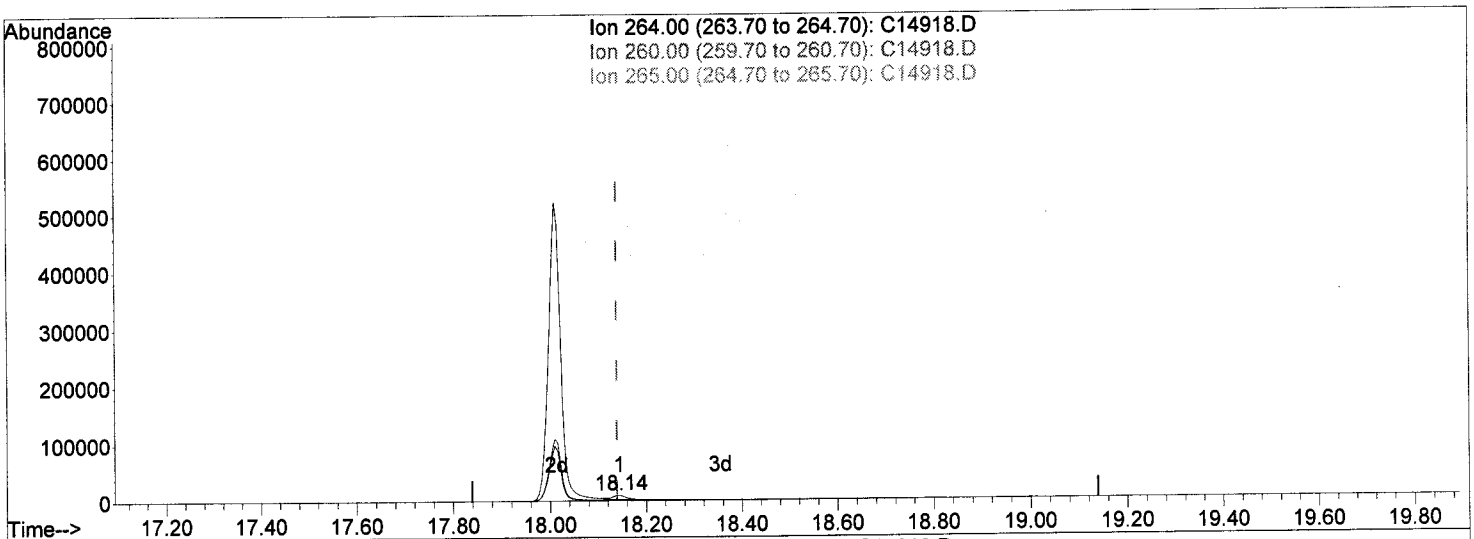
Quantitation Report (Qedit)

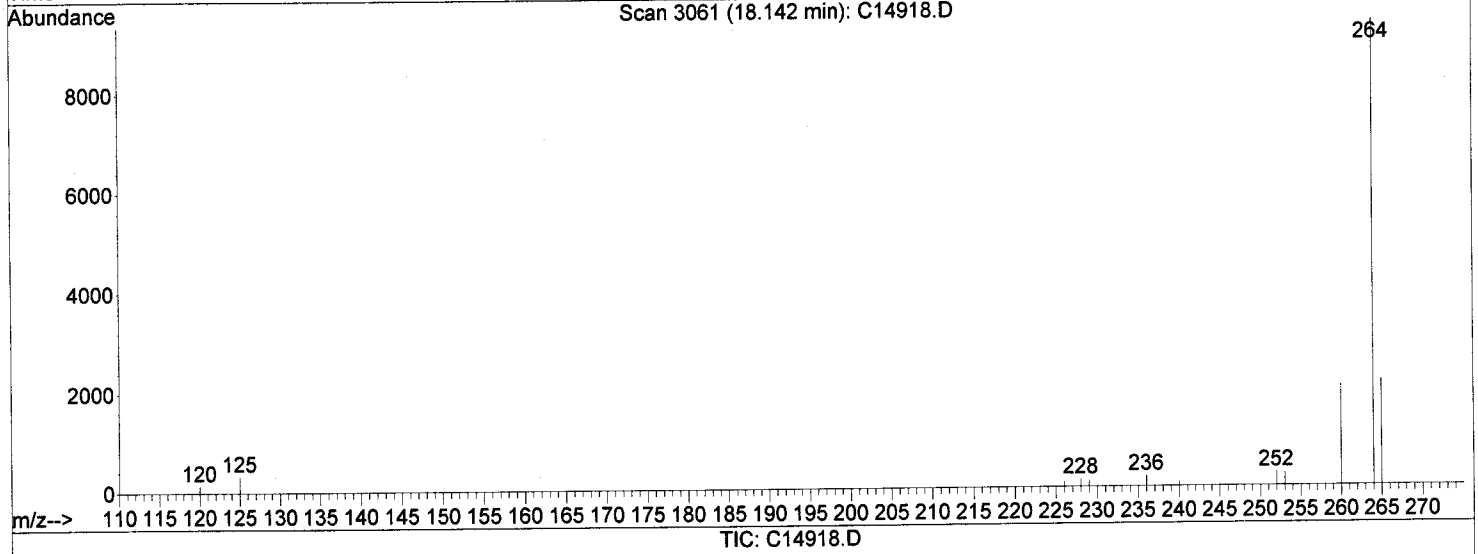
Data File: C:\MSDCHEM\1\DATA\C14918.D
Acq On : 12/15/11 12:10
Sample : F4XP0
Misc : S-4460.01 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:39:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/15/11





TIC: C14918.D

(19) Perylene-d12

18.142min (+0.003) 0.4000ug/mL m

response 147770

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	40.70#
265.00	21.10	37.57#
0.00	0.00	0.00

0587

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: C14919

Extraction: (Type) SONC

% Moisture: 38 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.6	U
91-57-6	2-Methylnaphthalene	2.6	U
208-96-8	Acenaphthylene	2.6	U
83-32-9	Acenaphthene	2.6	U
86-73-7	Fluorene	2.6	U
87-86-5	Pentachlorophenol	5.3	U
85-01-8	Phenanthrene	2.6	U
120-12-7	Anthracene	2.6	U
206-44-0	Fluoranthene	3.6	
129-00-0	Pyrene	6.7	
56-55-3	Benzo(a)anthracene	2.5	J
218-01-9	Chrysene	3.3	
205-99-2	Benzo(b)fluoranthene	4.5	
207-08-9	Benzo(k)fluoranthene	2.6	U
50-32-8	Benzo(a)pyrene	4.0	
193-39-5	Indeno(1,2,3-cd)pyrene	3.5	
53-70-3	Dibenzo(a,h)anthracene	2.6	U
191-24-2	Benzo(g,h,i)perylene	5.7	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41 Operator: SK
Sample : F4XP1 Inst : C5975
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 09:39:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

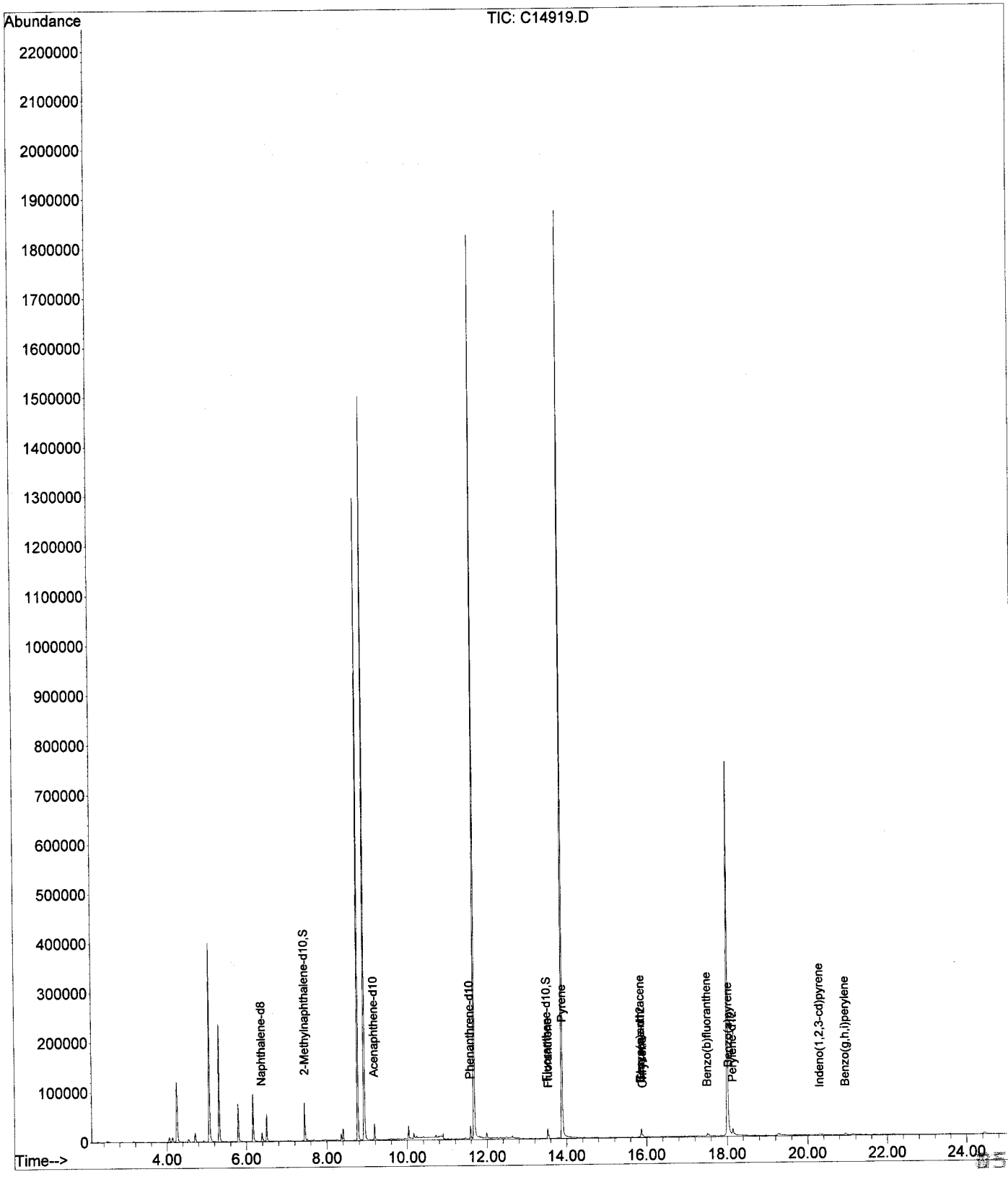
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	212511	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	154270	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	268074	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	150244	0.4000	ug/mL	0.00
19) Perylene-d12	18.15	264	145923m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	115085	0.3506	ug/mL	0.00
Spiked Amount 0.400			Recovery =	87.65%		
13) Fluoranthene-d10	13.53	212	204572	0.3465	ug/mL	0.00
Spiked Amount 0.400			Recovery =	86.62%		
Target Compounds						Qvalue
14) Fluoranthene	13.56	202	78000	0.1339	ug/mL	95
16) Benzo(a)anthracene	15.86	228	38963	0.0926	ug/mL#	61
17) Chrysene	15.91	228	54565	0.1253	ug/mL#	64
18) Pyrene	13.92	202	162545	0.2538	ug/mL#	74
20) Benzo(b)fluoranthene	17.52	252	68234	0.1712	ug/mL#	81
22) Benzo(a)pyrene	18.05	252	61598	0.1490	ug/mL#	93
24) Indeno(1,2,3-cd)pyrene	20.31	276	43668	0.1324	ug/mL#	83
25) Benzo(g,h,i)perylene	20.95	276	79440	0.2148	ug/mL#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

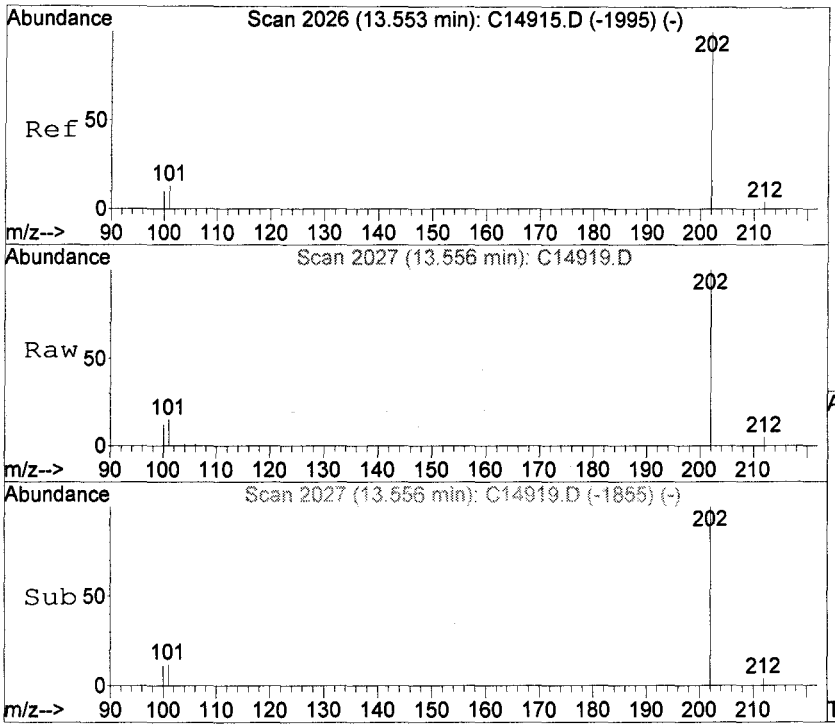
Data File: C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41 Operator: SK
Sample : F4XP1 Inst : C5975
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 09:39:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



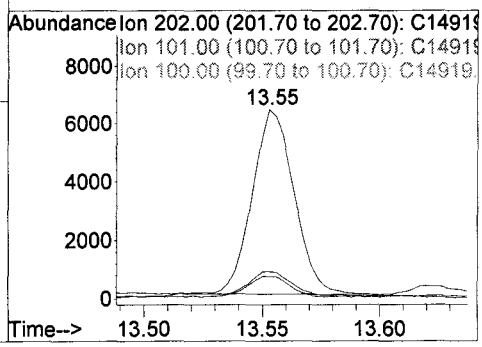
Data File : C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41
Sample : F4XP1
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

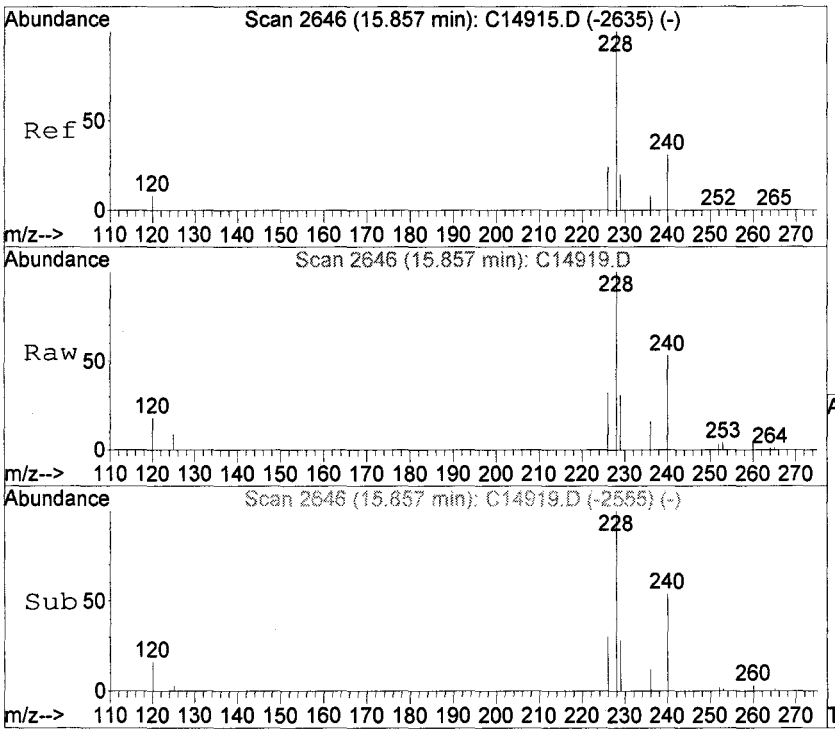
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#14
Fluoranthene
Concen: 0.13 ug/mL
RT: 13.56 min Scan# 2027
Delta R.T. 0.00 min
Integration Range:
Scan=2017 to 2042
R.T.= 13.53 to 13.60 (min)
Tgt Ion:202 Resp: 78000

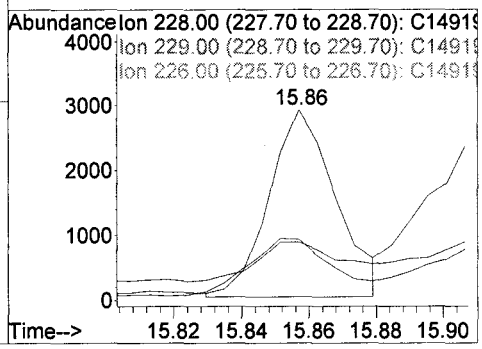
Ion	Ratio	Lower	Upper
202	100		
101	16.6	11.5	17.3
100	13.0	8.8	13.2





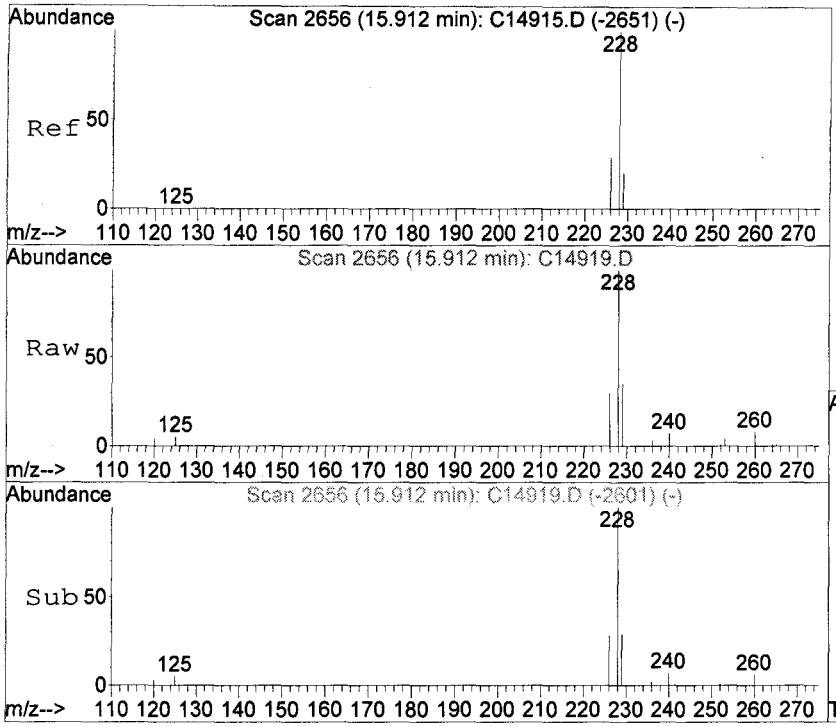
#16
Benzo(a)anthracene
Concen: 0.09 ug/mL
RT: 15.86 min Scan# 2646
Delta R.T. 0.00 min
Integration Range:
Scan=2641 to 2650
R.T.= 15.83 to 15.88 (min)
Tgt Ion:228 Resp: 38963

Ion	Ratio	Lower	Upper
228	100		
229	41.5	15.8	23.8#
226	41.7	20.5	30.7#



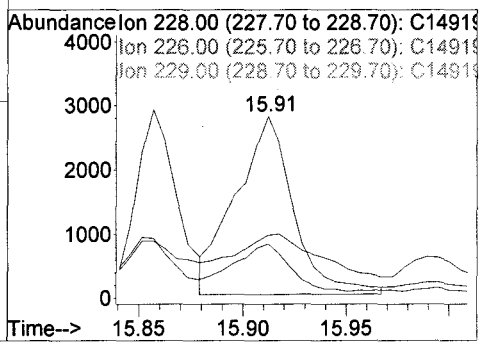
Data File : C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41
Sample : F4XP1
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

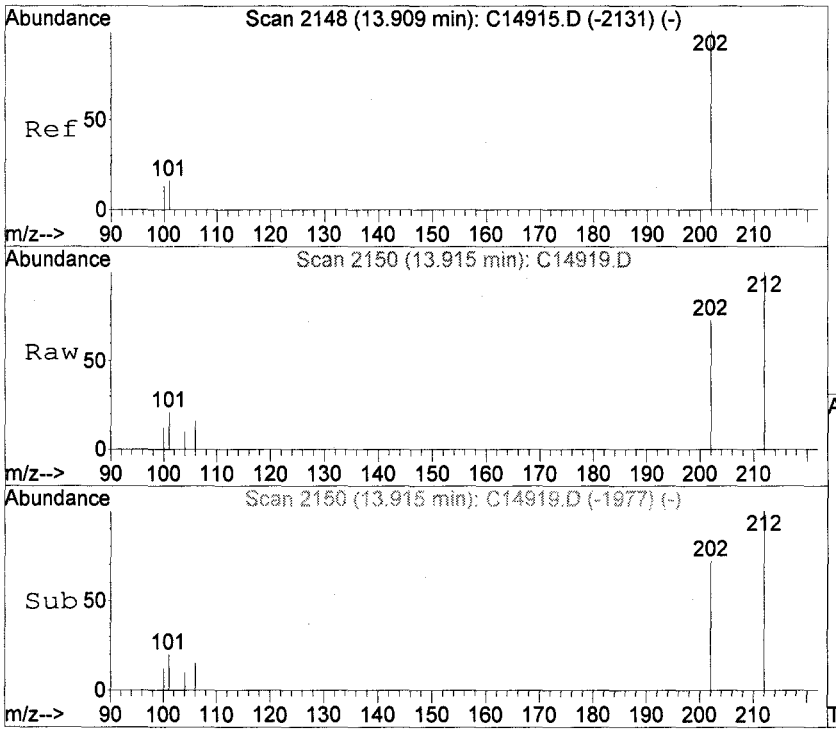
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#17
Chrysene
Concen: 0.13 ug/mL
RT: 15.91 min Scan# 2656
Delta R.T. 0.00 min
Integration Range:
Scan=2650 to 2666
R.T.= 15.88 to 15.97 (min)
Tgt Ion:228 Resp: 54565

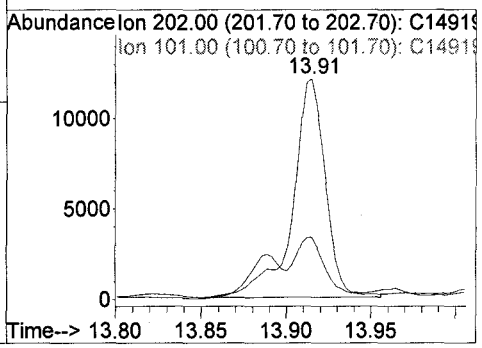
Ion	Ratio	Lower	Upper
228	100		
226	34.7	22.8	34.2#
229	52.0	15.9	23.9#





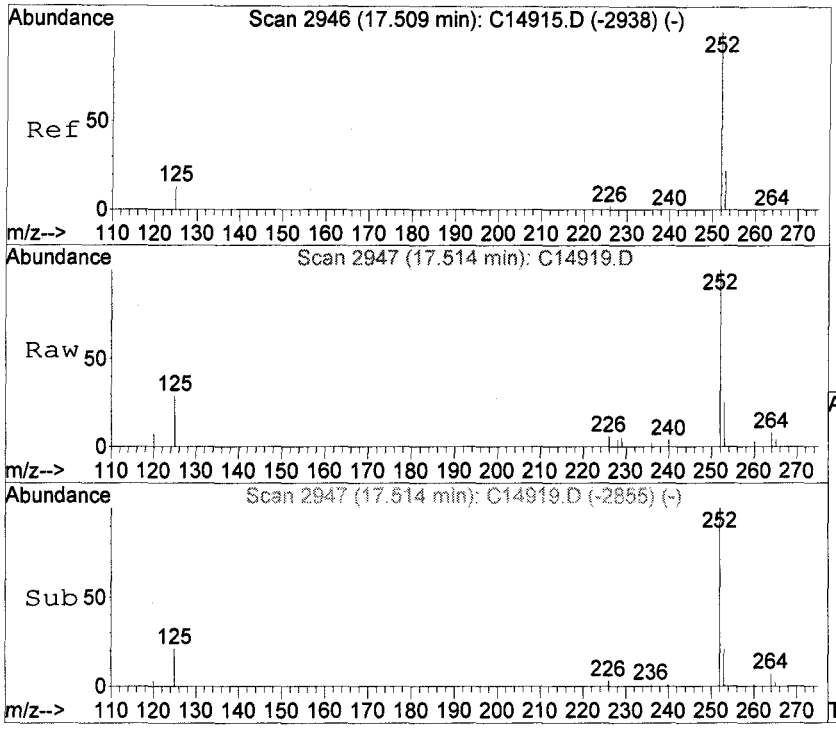
#18
Pyrene
Concen: 0.25 ug/mL
RT: 13.92 min Scan# 2150
Delta R.T. 0.01 min
Integration Range:
Scan=2128 to 2164
R.T.= 13.85 to 13.96 (min)
Tgt Ion:202 Resp: 162545

Ion	Ratio	Lower	Upper
202	100		
101	27.5	13.2	19.8#



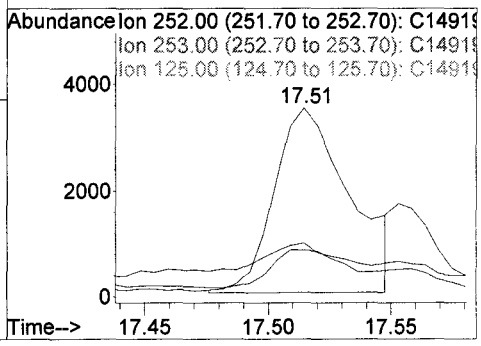
Data File : C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41
Sample : F4XP1
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

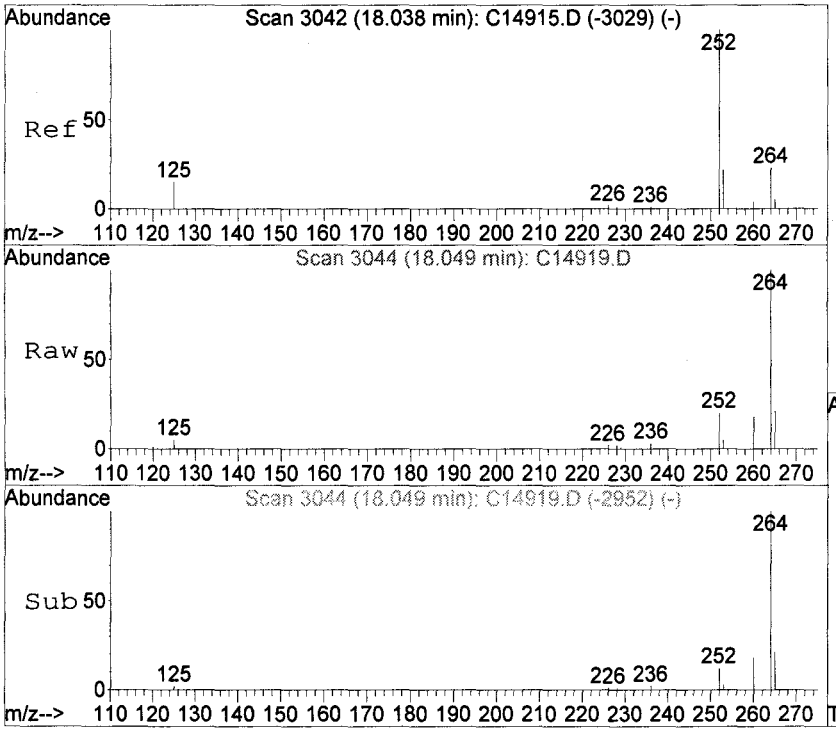
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#20
Benzo(b)fluoranthene
Concen: 0.17 ug/mL
RT: 17.52 min Scan# 2947
Delta R.T. 0.01 min
Integration Range:
Scan=2940 to 2953
R.T.= 17.48 to 17.55 (min)
Tgt Ion:252 Resp: 68234

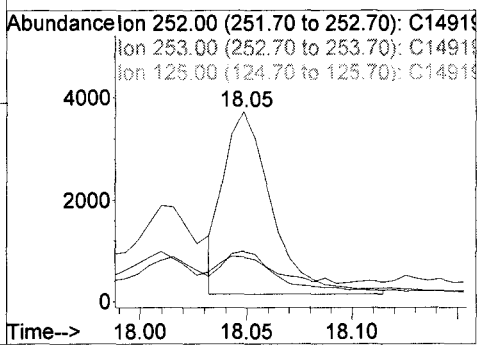
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	34.5	12.3	18.5#





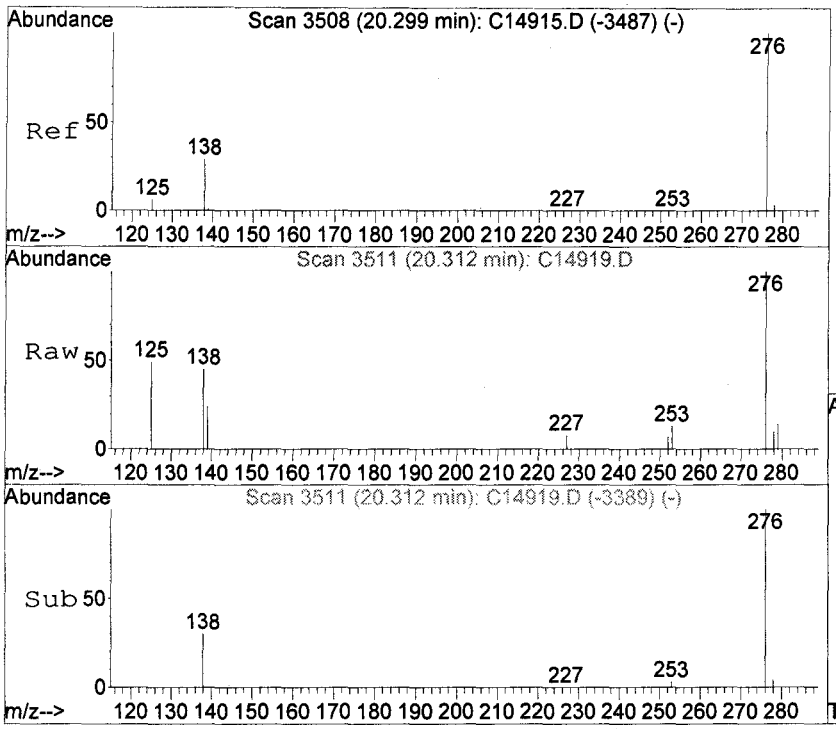
#22
Benzo(a)pyrene
Concen: 0.15 ug/mL
RT: 18.05 min Scan# 3044
Delta R.T. 0.01 min
Integration Range:
Scan=3041 to 3056
R.T.= 18.03 to 18.11 (min)
Tgt Ion:252 Resp: 61598

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.1	25.7
125	20.1	13.1	19.7#



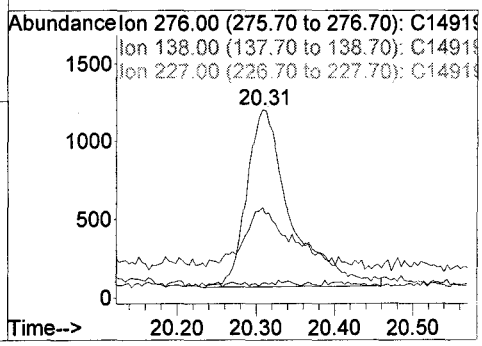
Data File : C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41
Sample : F4XP1
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

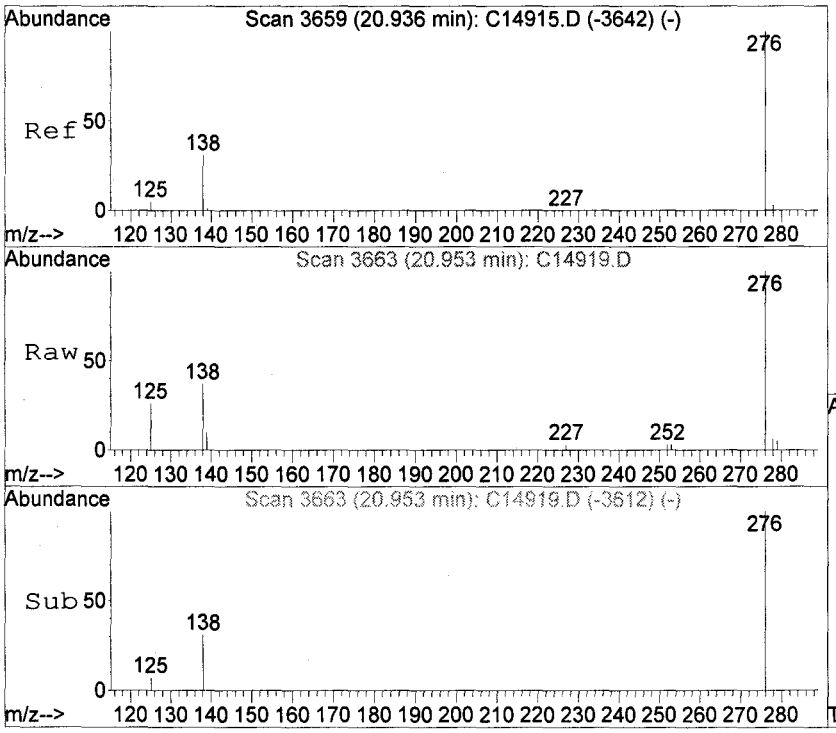
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.13 ug/mL
RT: 20.31 min Scan# 3511
Delta R.T. 0.01 min
Integration Range:
Scan=3493 to 3546
R.T.= 20.24 to 20.46 (min)
Tgt Ion:276 Resp: 43668

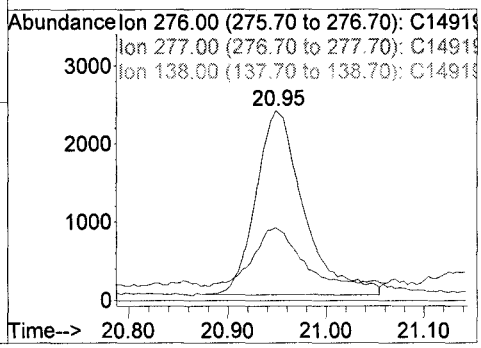
Ion	Ratio	Lower	Upper
276	100		
138	38.5	23.7	35.5#
227	0.9	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.21 ug/mL
RT: 20.95 min Scan# 3663
Delta R.T. 0.01 min
Integration Range:
Scan=3645 to 3687
R.T.= 20.88 to 21.05 (min)
Tgt Ion:276 Resp: 79440

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.7	26.2	39.2

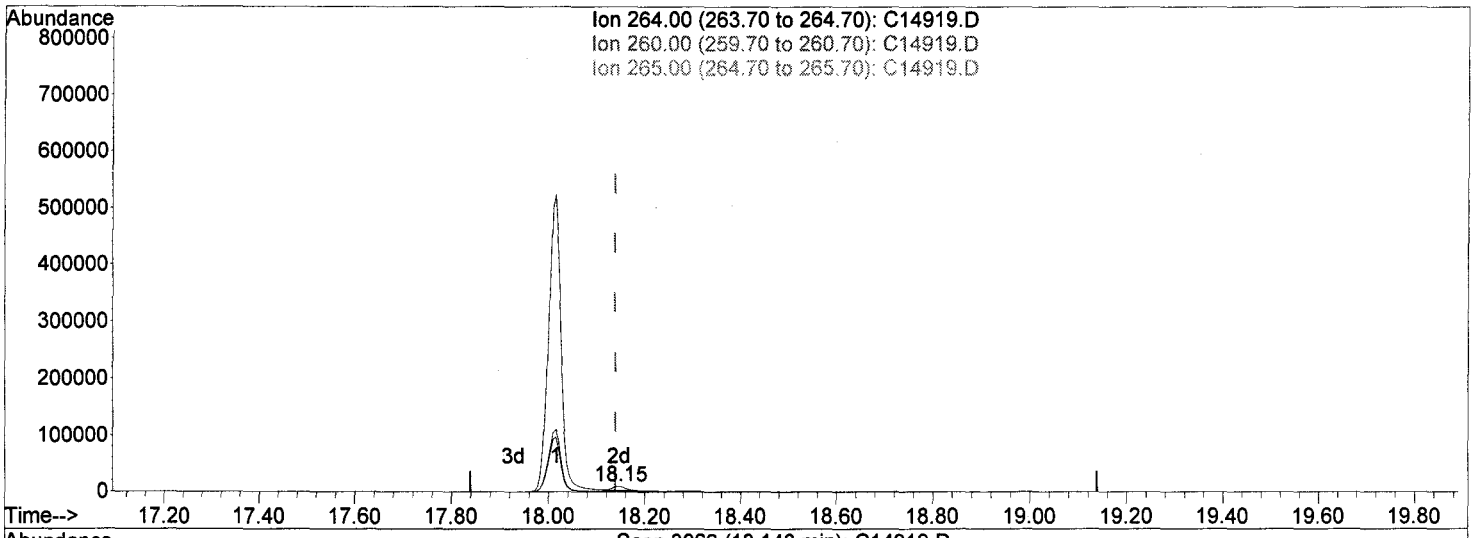


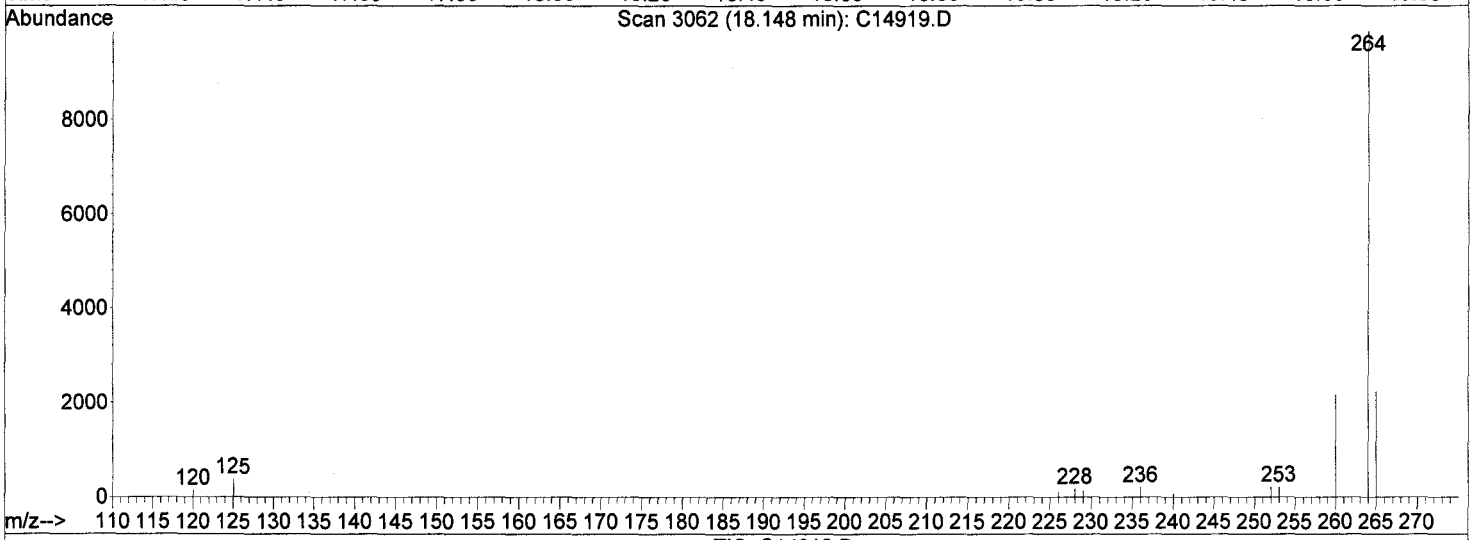
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14919.D
Acq On : 12/15/11 12:41 Operator: SK
Sample : F4XP1 Inst : C5975
Misc : S-4460.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 09:39:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11





TIC: C14919.D

(19) Perylene-d12

18.148min (+0.008) 0.4000ug/mL m

response 145923

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1210.43#
265.00	21.10	1385.57#
0.00	0.00	0.00

0595

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03

Sample wt/vol: 60.60 (g/mL) G Lab File ID: C14920

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	
91-57-6	2-Methylnaphthalene	3.0	
208-96-8	Acenaphthylene	7.7	
83-32-9	Acenaphthene	2.7	U
86-73-7	Fluorene	2.7	U
87-86-5	Pentachlorophenol	5.4	U
85-01-8	Phenanthrene	7.0	
120-12-7	Anthracene	7.3	
206-44-0	Fluoranthene	15	
129-00-0	Pyrene	16	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	15	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	5.3	
50-32-8	Benzo(a)pyrene	15	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenzo(a,h)anthracene	3.9	
191-24-2	Benzo(g,h,i)perylene	14	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12 Operator: SK
Sample : F4XP2 Inst : C5975
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 09:48:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	179833	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	129163	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	231884	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	135262	0.4000	ug/mL	0.00
19) Perylene-d12	18.15	264	140872m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	100586	0.3621	ug/mL	0.00
Spiked Amount 0.400			Recovery =	90.52%		
13) Fluoranthene-d10	13.53	212	180519	0.3535	ug/mL	0.00
Spiked Amount 0.400			Recovery =	88.37%		
Target Compounds						Qvalue
2) Naphthalene	6.42	128	51299	0.1103	ug/mL#	95
4) 2-Methylnaphthalene	7.52	142	31061	0.1097	ug/mL	96
6) Acenaphthylene	8.95	152	149968	0.2843	ug/mL#	91
11) Phenanthrene	11.63	178	136471	0.2586	ug/mL	96
12) Anthracene	11.71	178	143595	0.2688	ug/mL#	84
14) Fluoranthene	13.56	202	272365	0.5404	ug/mL	100
16) Benzo(a)anthracene	15.86	228	143220	0.3780	ug/mL#	56
17) Chrysene	15.92	228	215543	0.5500	ug/mL#	76
18) Pyrene	13.92	202	338694	0.5874	ug/mL#	86
20) Benzo(b)fluoranthene	17.52	252	224406	0.5833	ug/mL#	94
21) Benzo(k)fluoranthene	17.56	252	87975	0.1943	ug/mL#	83
22) Benzo(a)pyrene	18.05	252	223958	0.5613	ug/mL	96
23) Dibenzo(a,h)anthracene	20.38	278	34722	0.1448	ug/mL#	84
24) Indeno(1,2,3-cd)pyrene	20.31	276	131676	0.4137	ug/mL#	95
25) Benzo(g,h,i)perylene	20.96	276	187775	0.5259	ug/mL#	93

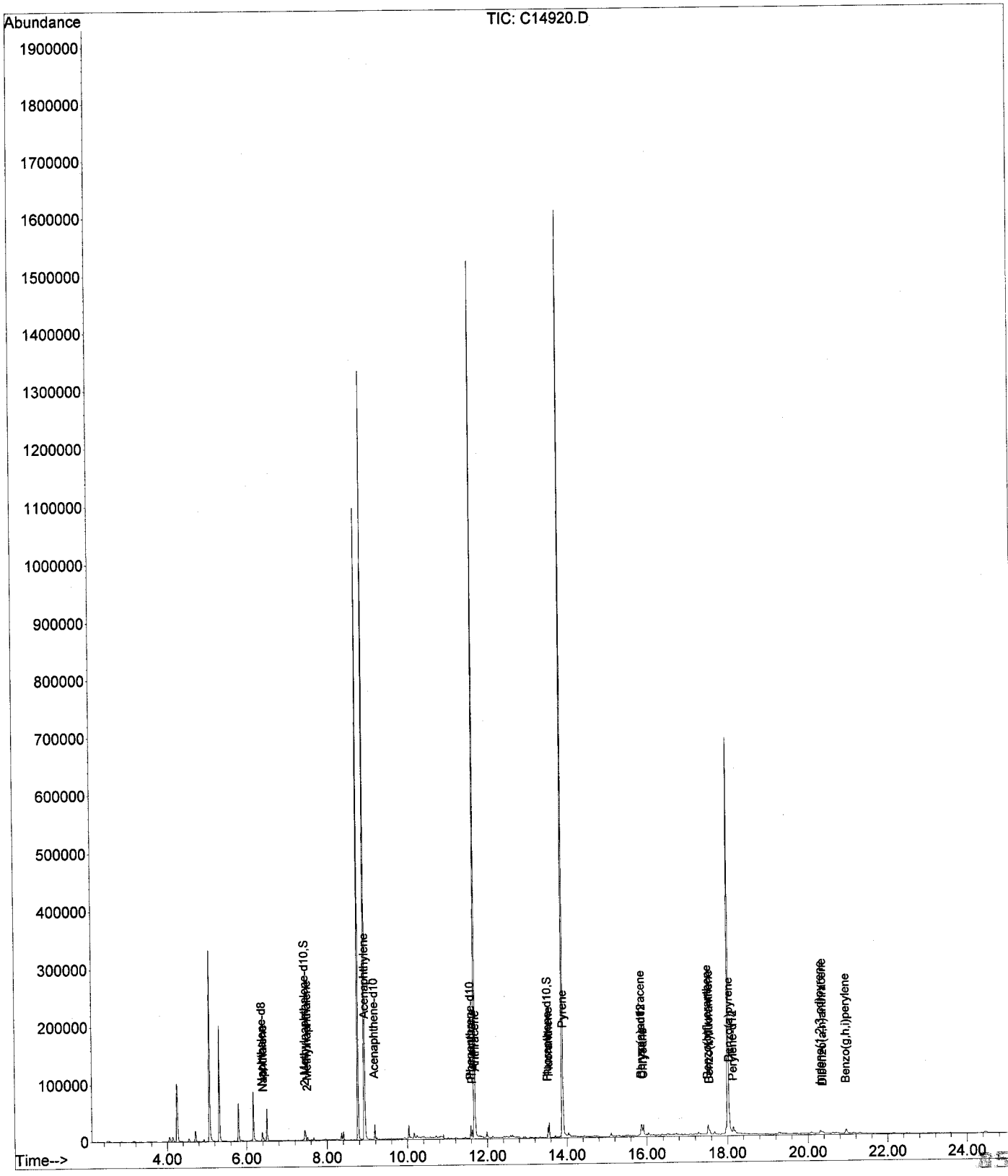
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

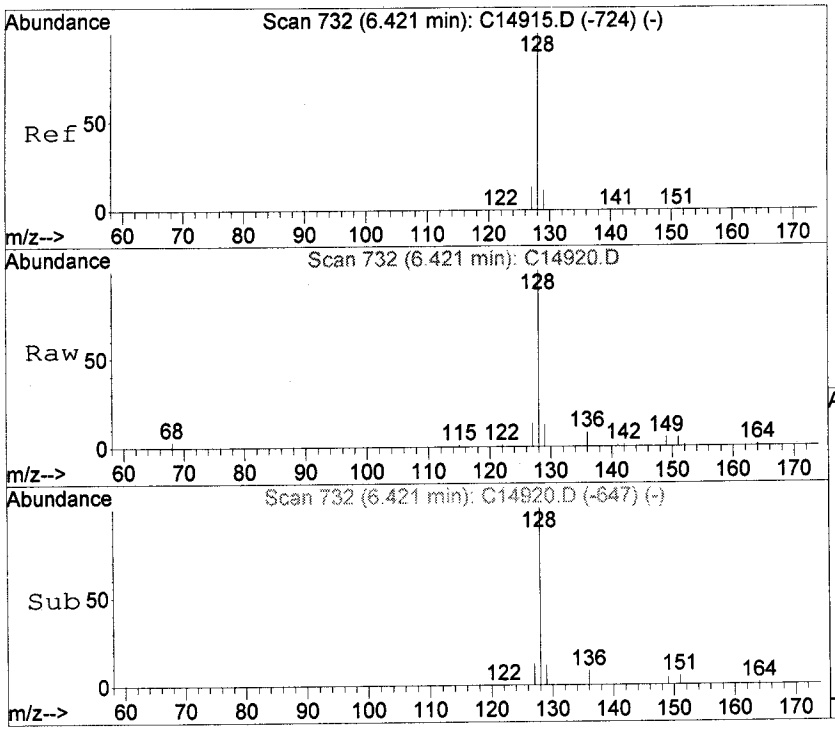
Operator: SK
Inst : C5975

Quant Time: Dec 19 09:48:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



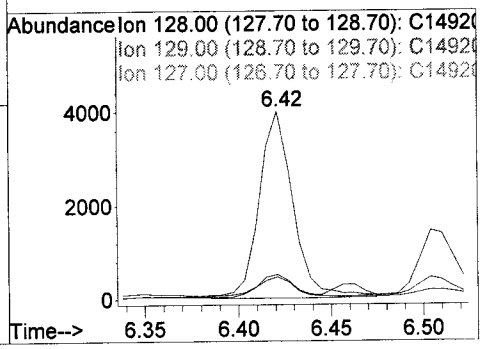
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

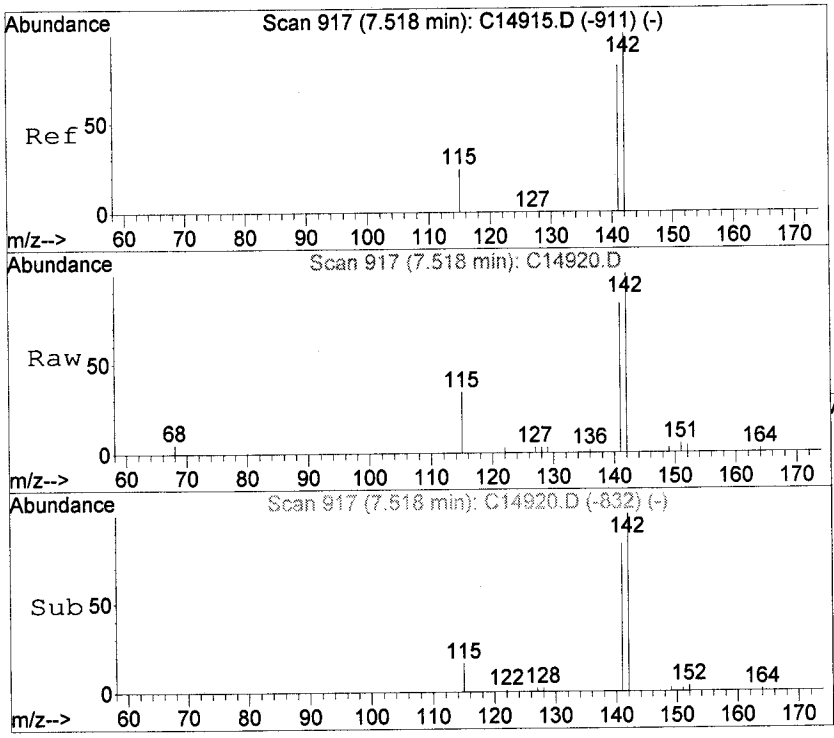
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.11 ug/mL
RT: 6.42 min Scan# 732
Delta R.T. 0.00 min
Integration Range:
Scan=726 to 741
R.T.= 6.39 to 6.47 (min)
Tgt Ion:128 Resp: 51299

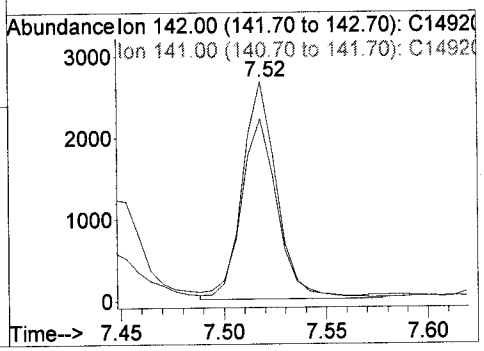
Ion	Ratio	Lower	Upper
128	100		
129	15.0	8.8	13.2#
127	13.2	10.7	16.1





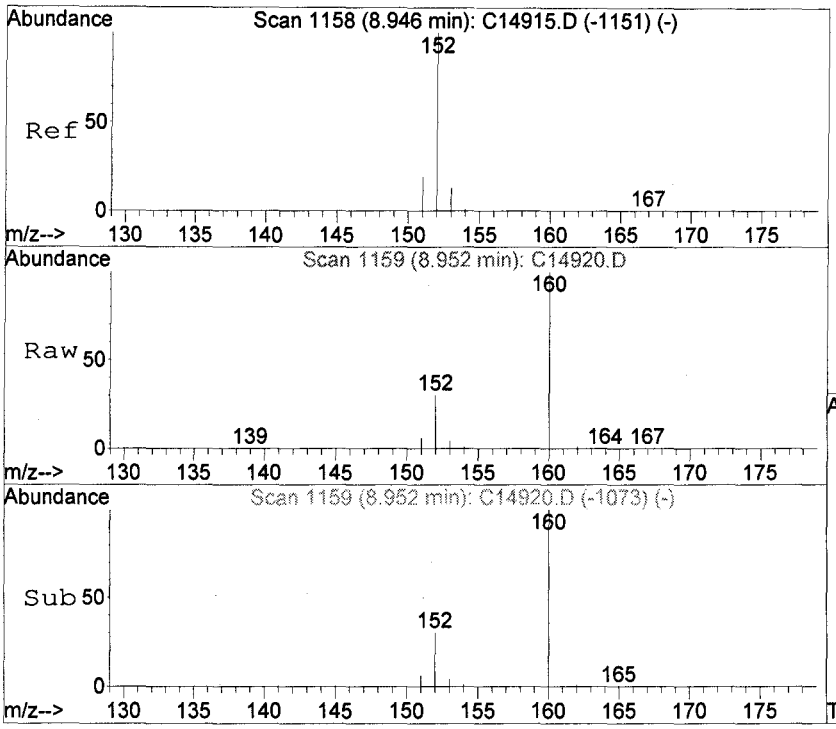
#4
2-Methylnaphthalene
Concen: 0.11 ug/mL
RT: 7.52 min Scan# 917
Delta R.T. 0.00 min
Integration Range:
Scan=912 to 927
R.T.= 7.49 to 7.58 (min)
Tgt Ion:142 Resp: 31061

Ion	Ratio	Lower	Upper
142	100		
141	88.3	67.9	101.9



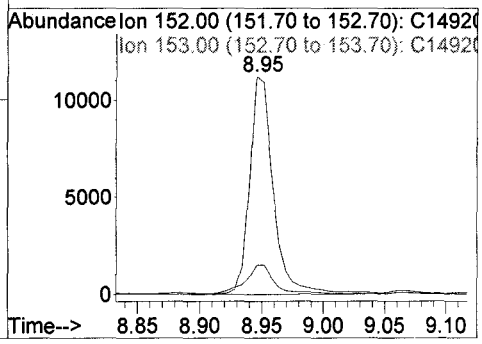
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

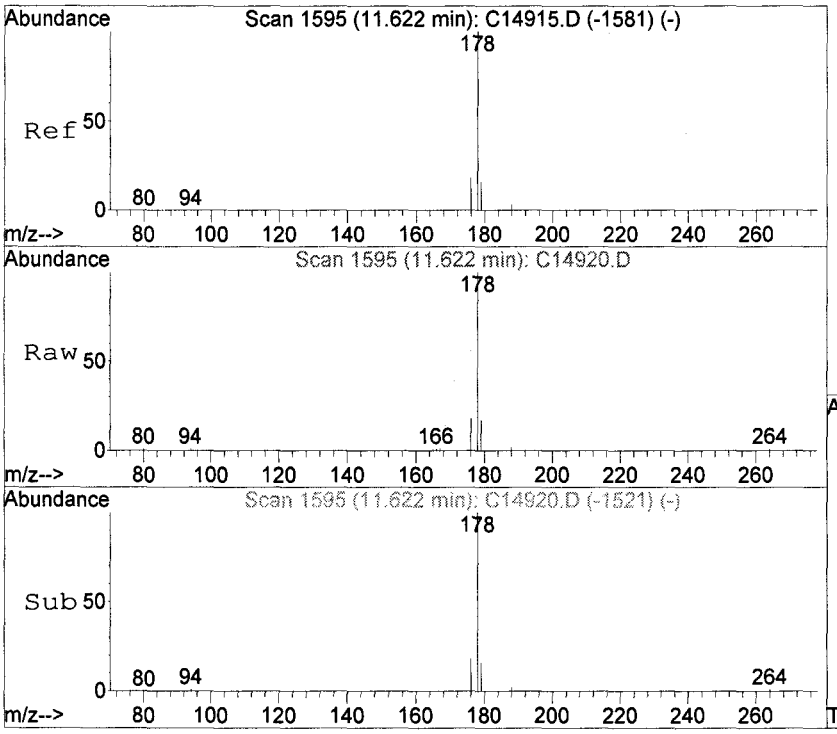
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.28 ug/mL
RT: 8.95 min Scan# 1159
Delta R.T. 0.01 min
Integration Range:
Scan=1151 to 1175
R.T.= 8.90 to 9.05 (min)
Tgt Ion:152 Resp: 149968

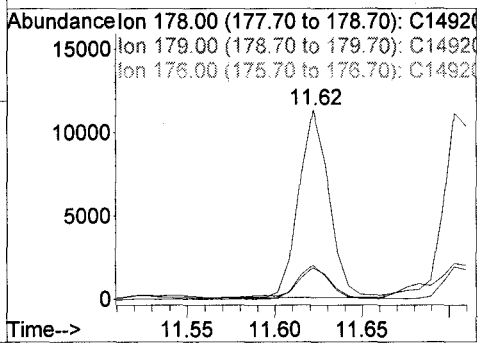
Ion	Ratio	Lower	Upper
152	100		
153	16.7	10.5	15.7#





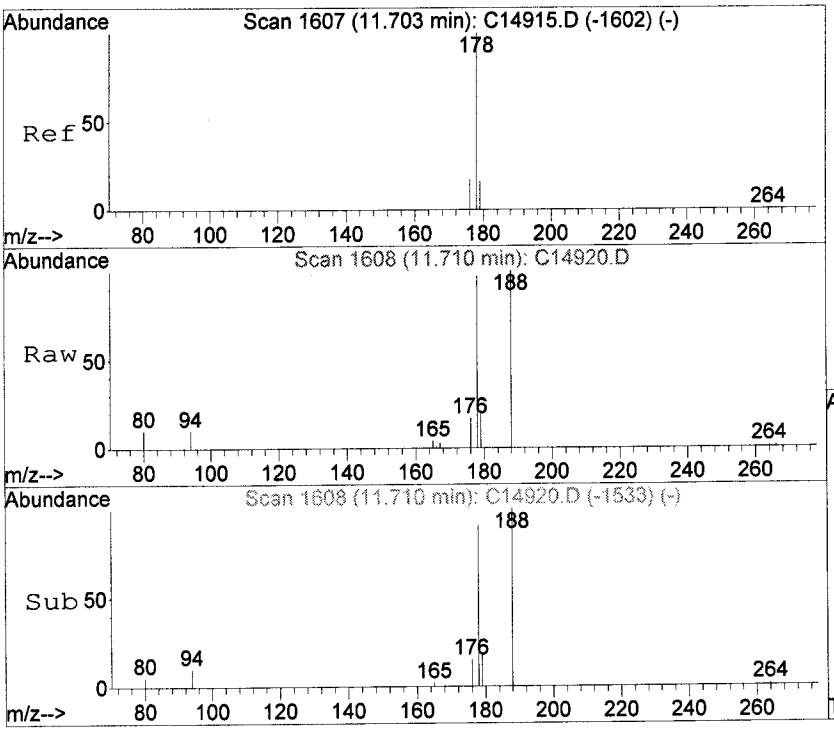
#11
Phenanthrene
Concen: 0.26 ug/mL
RT: 11.63 min Scan# 1595
Delta R.T. 0.01 min
Integration Range:
Scan=1586 to 1601
R.T.= 11.56 to 11.66 (min)
Tgt Ion:178 Resp: 136471

Ion	Ratio	Lower	Upper
178	100		
179	18.3	12.2	18.4
176	18.9	14.5	21.7



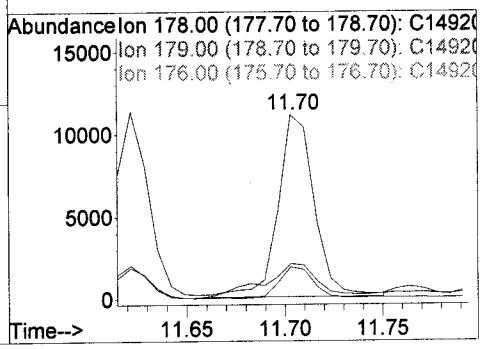
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

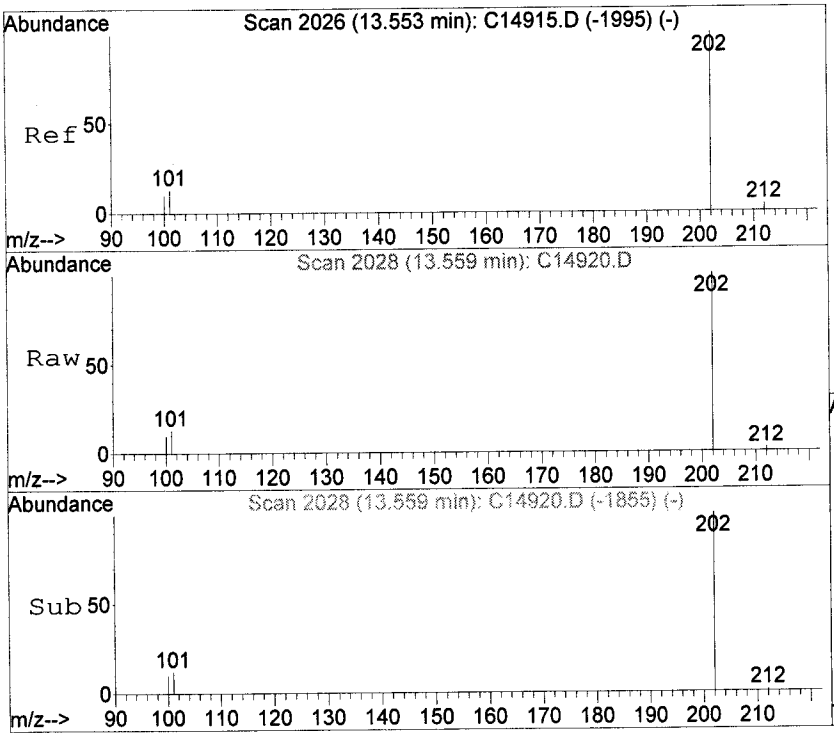
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.27 ug/mL
RT: 11.71 min Scan# 1608
Delta R.T. 0.01 min
Integration Range:
Scan=1601 to 1614
R.T.= 11.66 to 11.75 (min)
Tgt Ion:178 Resp: 143595

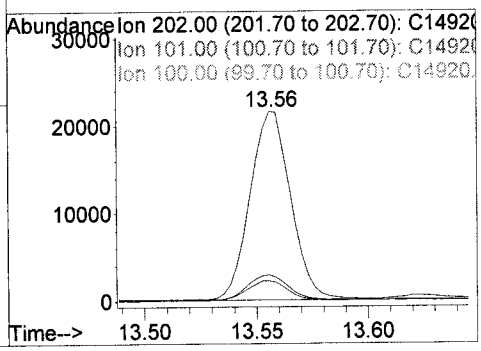
Ion	Ratio	Lower	Upper
178	100		
179	27.4	12.4	18.6#
176	19.1	13.8	20.8





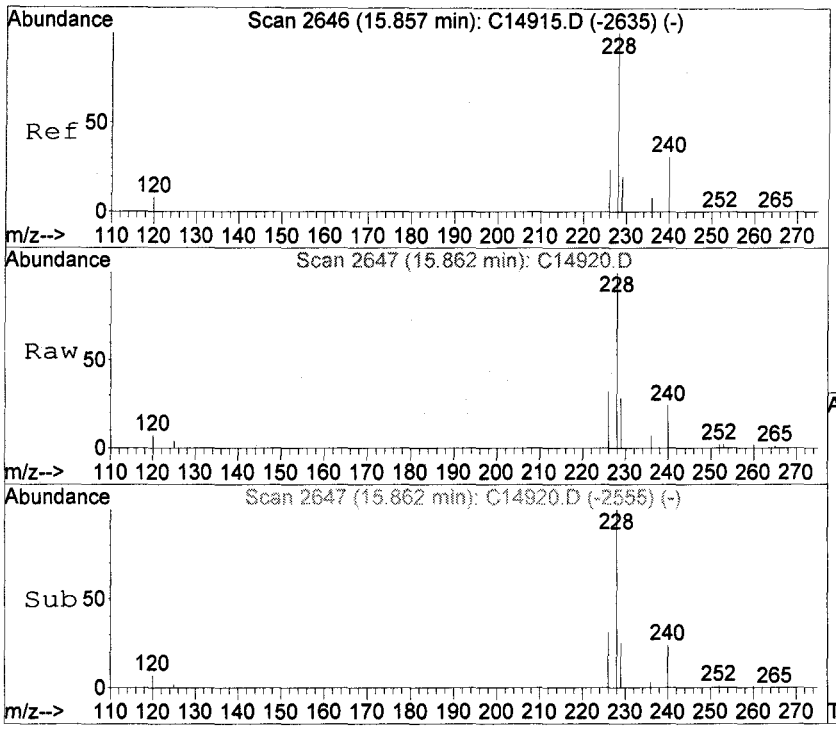
#14
Fluoranthene
Concen: 0.54 ug/mL
RT: 13.56 min Scan# 2028
Delta R.T. 0.01 min
Integration Range:
Scan=2017 to 2044
R.T.= 13.53 to 13.61 (min)
Tgt Ion:202 Resp: 272365

Ion	Ratio	Lower	Upper
202	100		
101	14.4	11.5	17.3
100	10.7	8.8	13.2



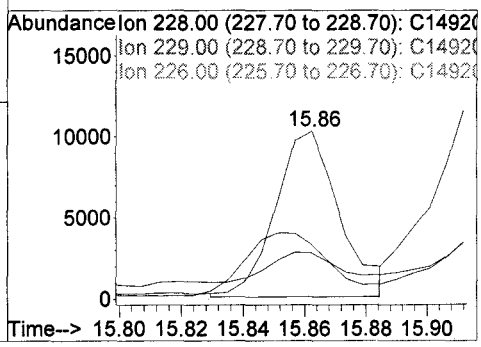
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

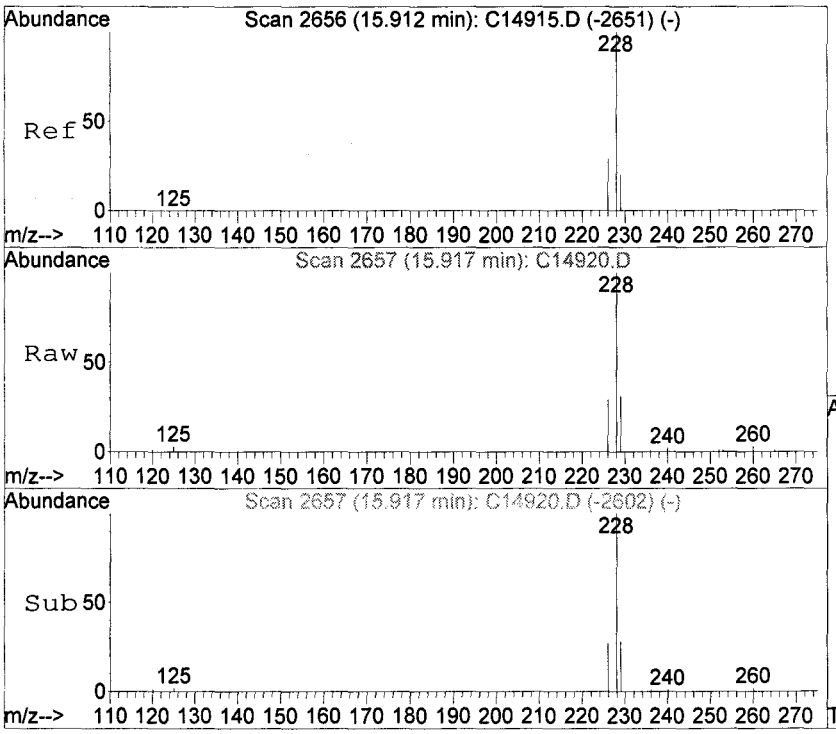
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.38 ug/mL
RT: 15.86 min Scan# 2647
Delta R.T. 0.01 min
Integration Range:
Scan=2641 to 2651
R.T.= 15.83 to 15.88 (min)
Tgt Ion:228 Resp: 143220

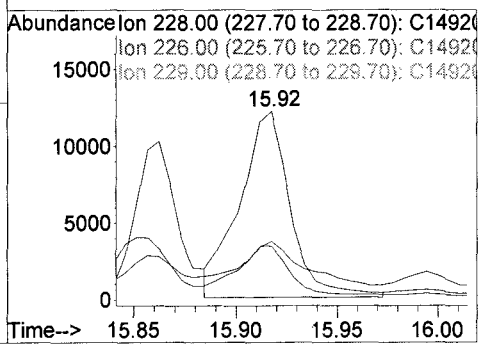
Ion	Ratio	Lower	Upper
228	100		
229	33.4	15.8	23.8#
226	53.2	20.5	30.7#





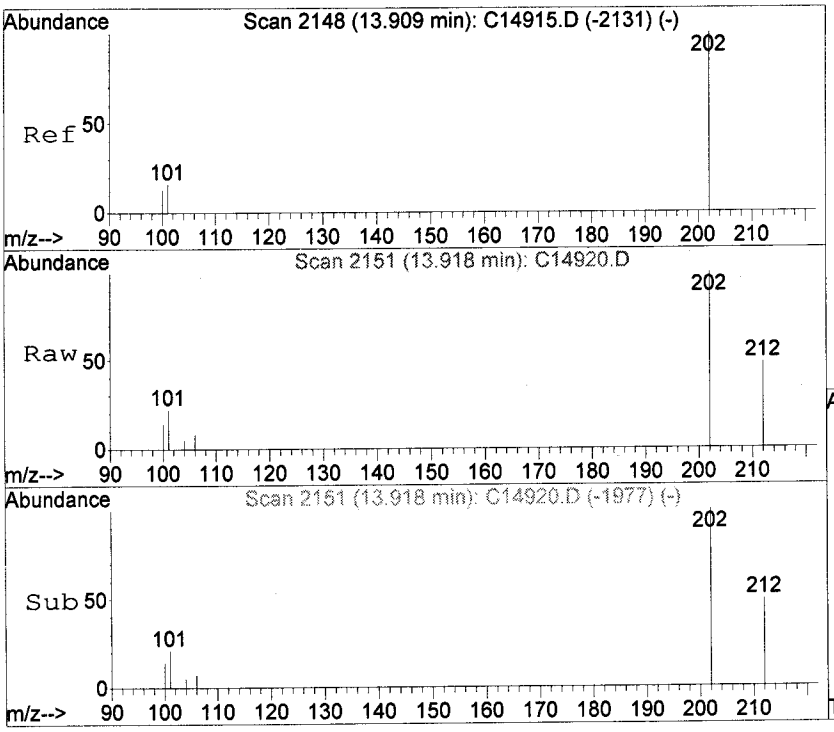
#17
Chrysene
Concen: 0.55 ug/mL
RT: 15.92 min Scan# 2657
Delta R.T. 0.01 min
Integration Range:
Scan=2651 to 2667
R.T.= 15.88 to 15.97 (min)
Tgt Ion:228 Resp: 215543

Ion	Ratio	Lower	Upper
228	100		
226	32.8	22.8	34.2
229	41.6	15.9	23.9#



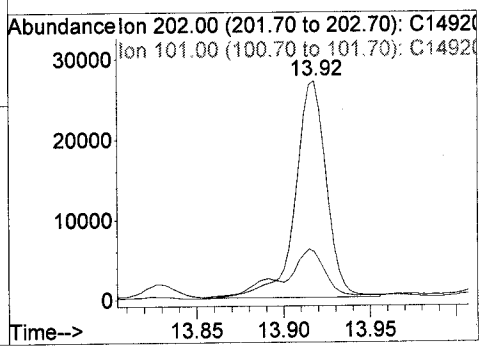
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

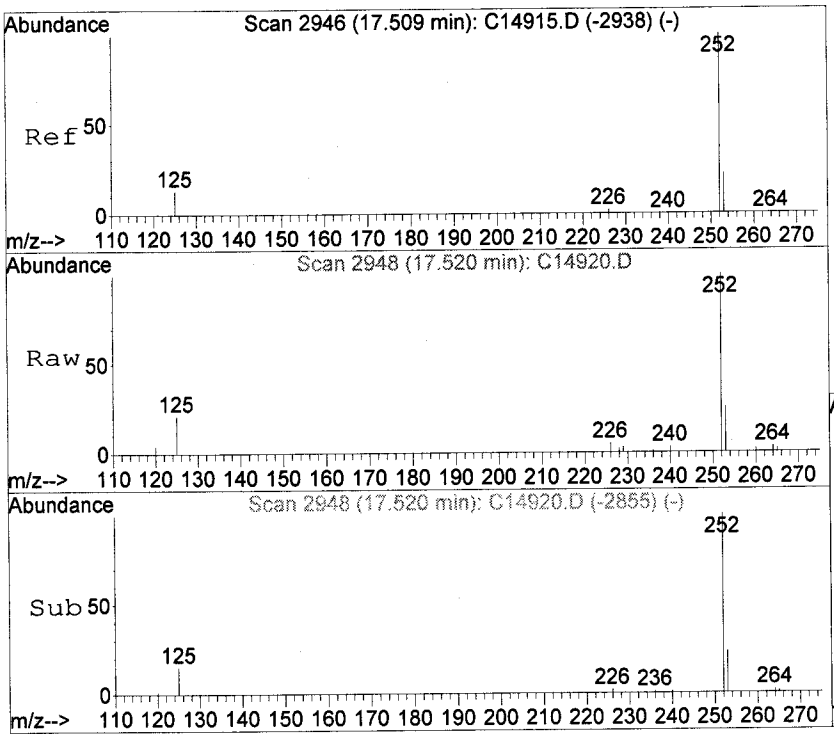
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.59 ug/mL
RT: 13.92 min Scan# 2151
Delta R.T. 0.01 min
Integration Range:
Scan=2130 to 2164
R.T.= 13.86 to 13.96 (min)
Tgt Ion:202 Resp: 338694

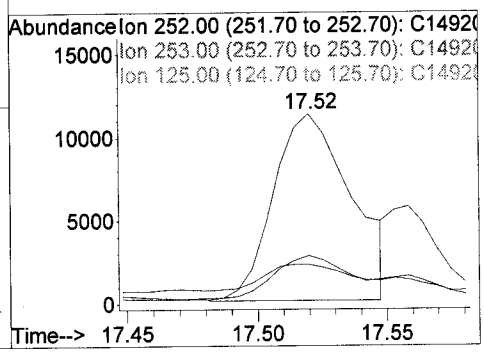
Ion	Ratio	Lower	Upper
202	100		
101	22.7	13.2	19.8#





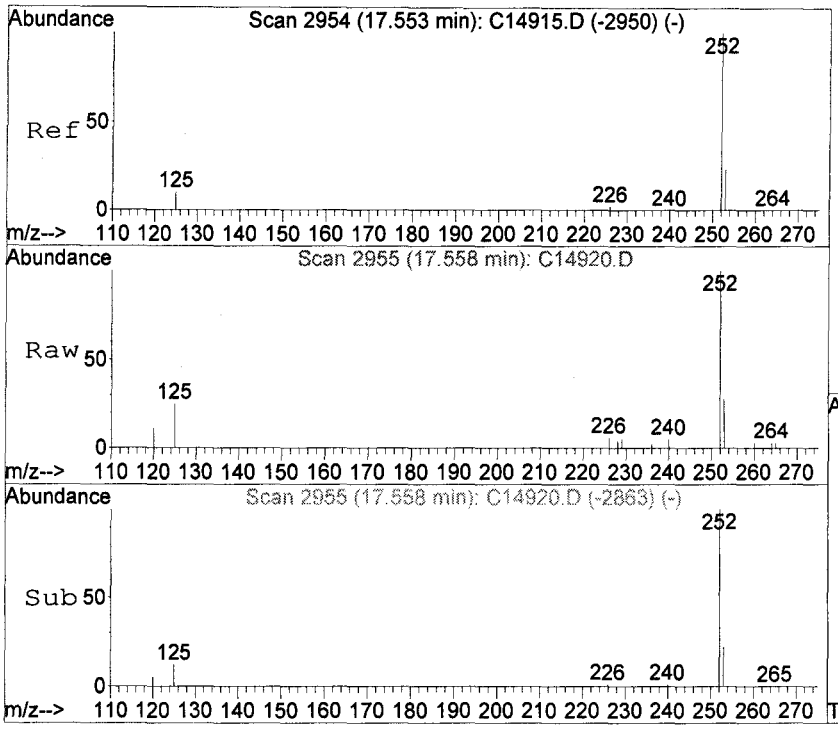
#20
Benzo(b)fluoranthene
Concen: 0.58 ug/mL
RT: 17.52 min Scan# 2948
Delta R.T. 0.01 min
Integration Range:
Scan=2941 to 2953
R.T.= 17.48 to 17.55 (min)
Tgt Ion:252 Resp: 224406

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	20.0	12.3	18.5#



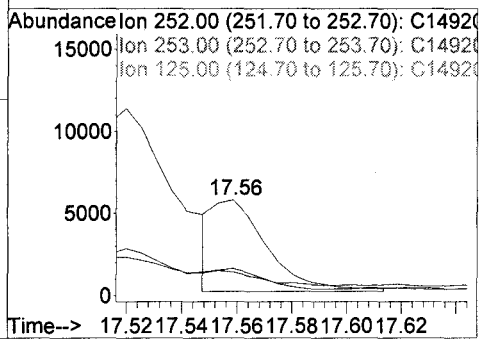
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

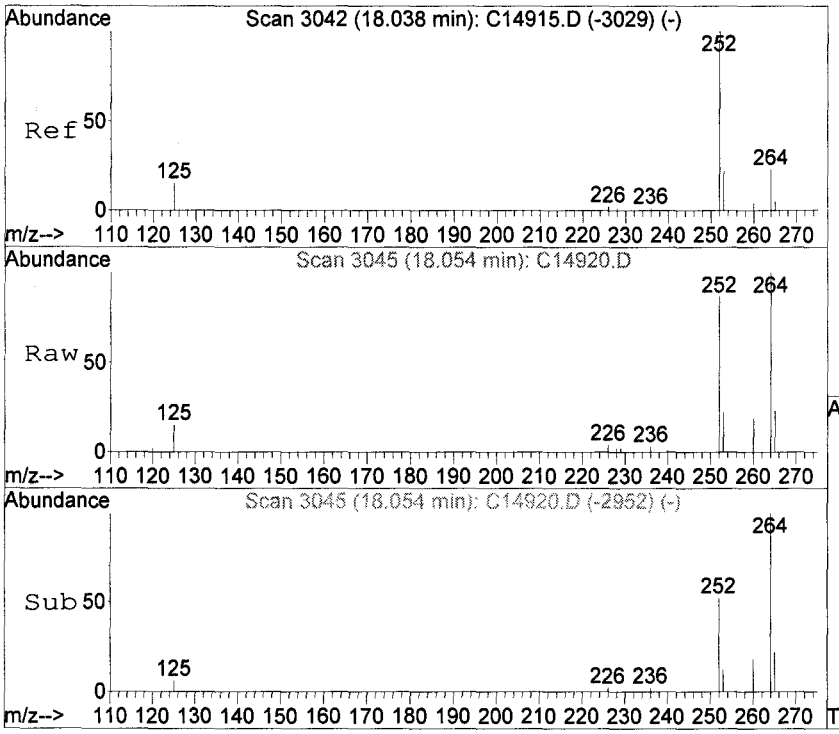
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.19 ug/mL
RT: 17.56 min Scan# 2955
Delta R.T. 0.01 min
Integration Range:
Scan=2953 to 2965
R.T.= 17.55 to 17.61 (min)
Tgt Ion:252 Resp: 87975

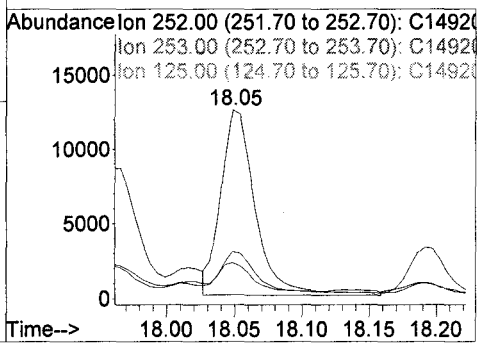
Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.7	26.5
125	0.0	12.4	18.6#





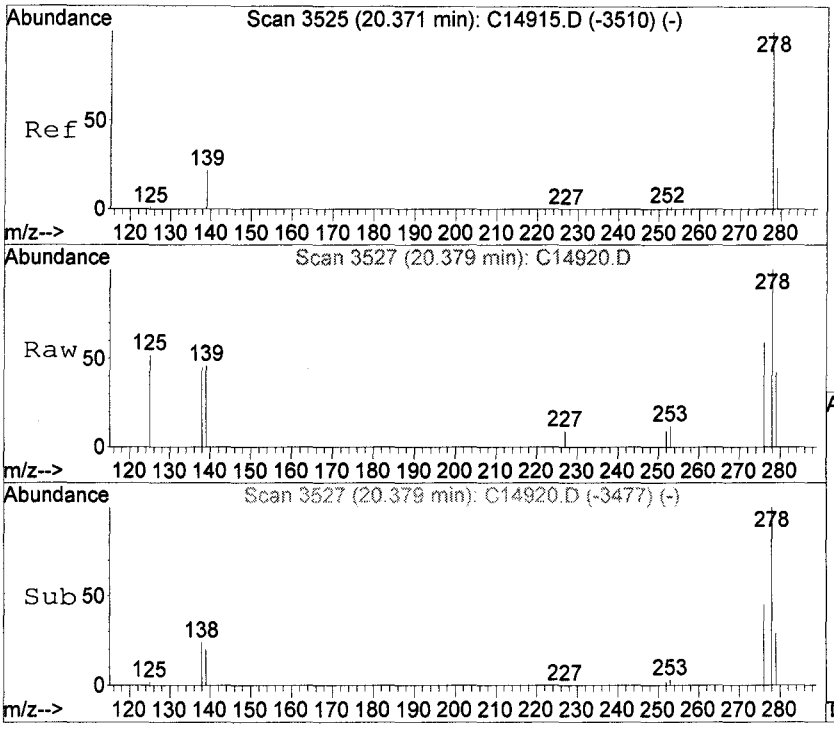
#22
Benzo(a)pyrene
Concen: 0.56 ug/mL
RT: 18.05 min Scan# 3045
Delta R.T. 0.01 min
Integration Range:
Scan=3040 to 3064
R.T.= 18.03 to 18.16 (min)
Tgt Ion:252 Resp: 223958

Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.1	25.7
125	16.7	13.1	19.7



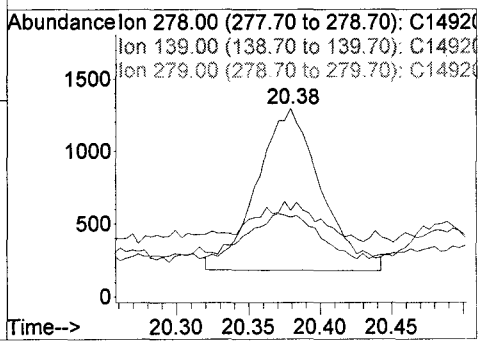
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

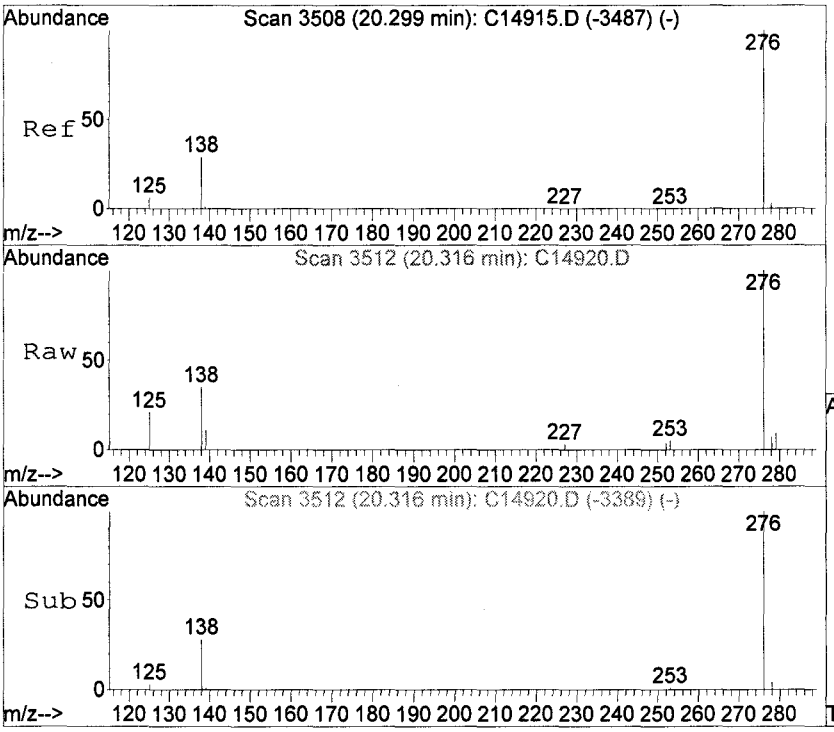
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.14 ug/mL
RT: 20.38 min Scan# 3527
Delta R.T. 0.01 min
Integration Range:
Scan=3513 to 3542
R.T.= 20.32 to 20.44 (min)
Tgt Ion:278 Resp: 34722

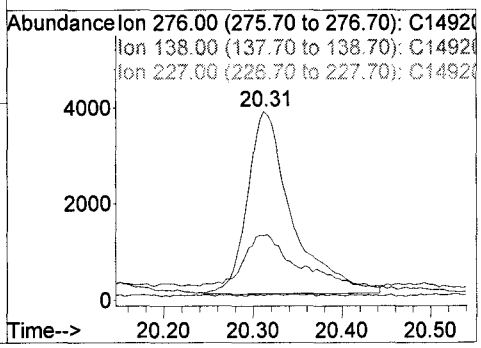
Ion	Ratio	Lower	Upper
278	100		
139	16.8	19.8	29.6#
279	30.5	18.4	27.6#





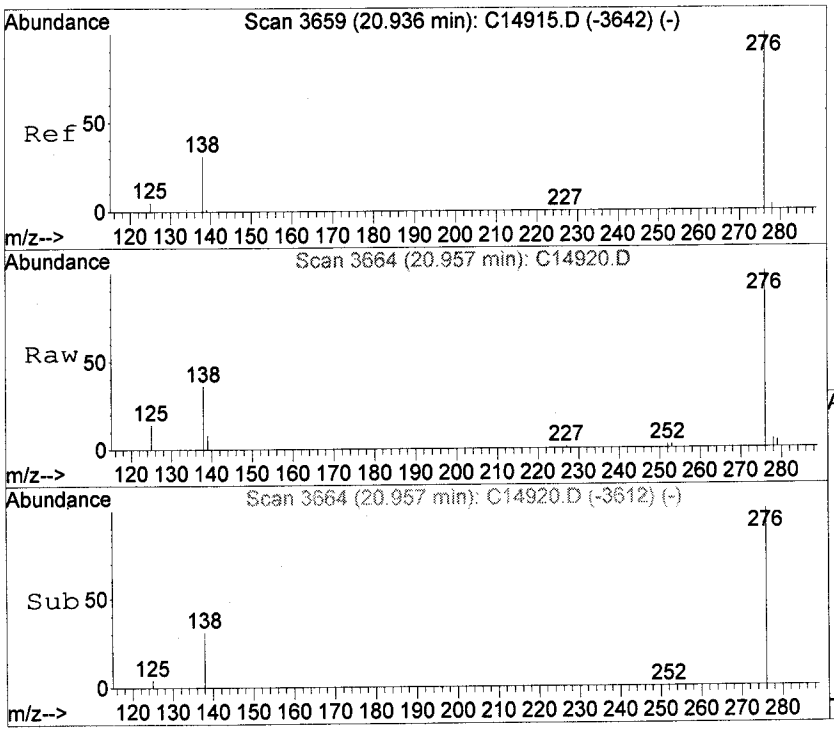
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.41 ug/mL
RT: 20.31 min Scan# 3512
Delta R.T. 0.02 min
Integration Range:
Scan=3495 to 3542
R.T.= 20.24 to 20.44 (min)
Tgt Ion:276 Resp: 131676

Ion	Ratio	Lower	Upper
276	100		
138	27.1	23.7	35.5
227	0.5	0.0	0.0#



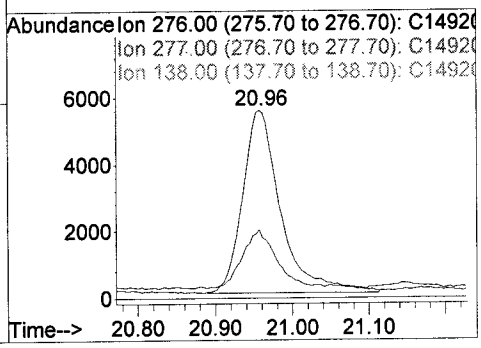
Data File : C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.53 ug/mL
RT: 20.96 min Scan# 3664
Delta R.T. 0.02 min
Integration Range:
Scan=3647 to 3701
R.T.= 20.89 to 21.11 (min)
Tgt Ion:276 Resp: 187775

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.5	26.2	39.2



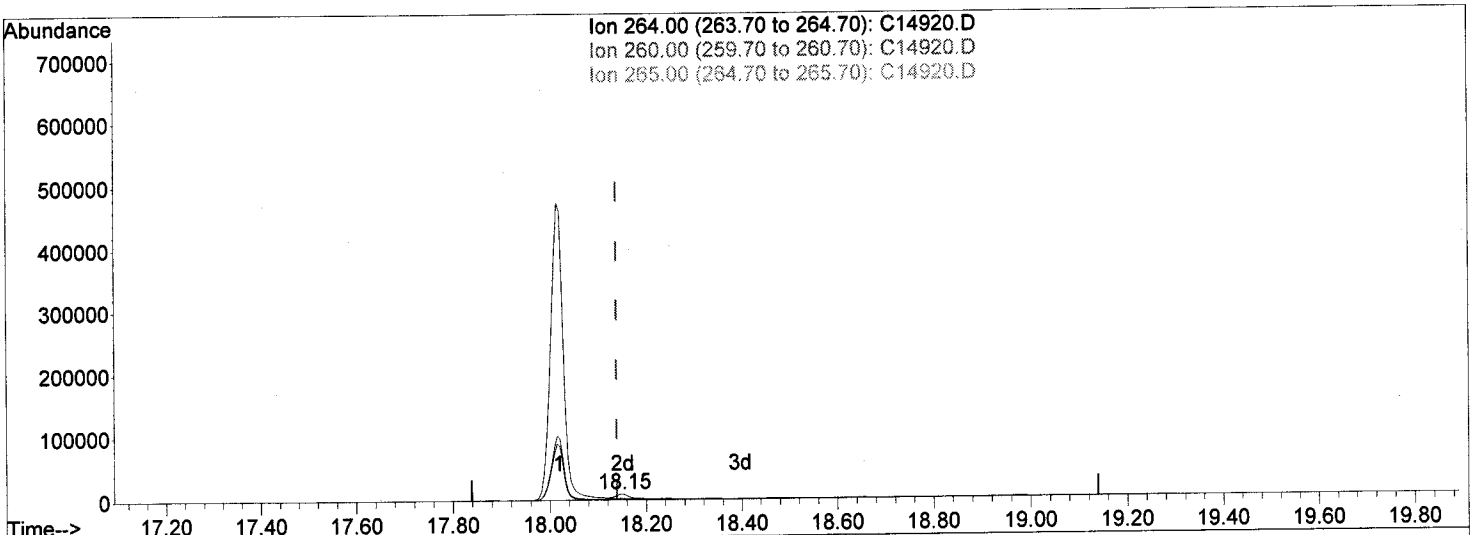
Quantitation Report (Qedit)

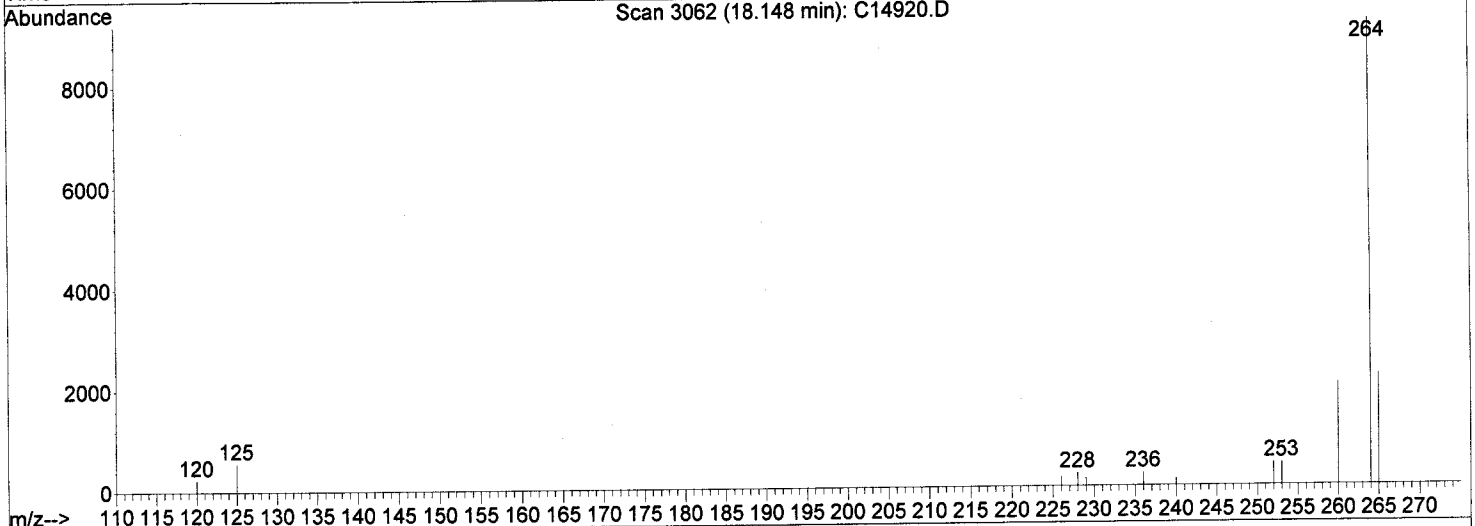
Data File: C:\MSDCHEM\1\DATA\C14920.D
Acq On : 12/15/11 13:12
Sample : F4XP2
Misc : S-4460.03 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:48:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11





TIC: C14920.D

(19) Perylene-d12

18.148min (+0.008) 0.4000ug/mL m

response 140872

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1128.14#
265.00	21.10	1298.08#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.04

Sample wt/vol: 60.80 (g/mL) G Lab File ID: C14921

Extraction: (Type) SONC

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.7	U
91-57-6	2-Methylnaphthalene	2.7	U
208-96-8	Acenaphthylene	2.7	U
83-32-9	Acenaphthene	2.7	U
86-73-7	Fluorene	2.7	U
87-86-5	Pentachlorophenol	5.5	U
85-01-8	Phenanthrene	2.7	U
120-12-7	Anthracene	2.7	U
206-44-0	Fluoranthene	2.7	U
129-00-0	Pyrene	2.7	U
56-55-3	Benzo(a)anthracene	2.7	U
218-01-9	Chrysene	2.7	U
205-99-2	Benzo(b)fluoranthene	2.7	U
207-08-9	Benzo(k)fluoranthene	2.7	U
50-32-8	Benzo(a)pyrene	2.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.7	U
53-70-3	Dibenzo(a,h)anthracene	2.7	U
191-24-2	Benzo(g,h,i)perylene	2.9	

[1] Cannot be separated from Diphenylamine

0888

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14921.D
Acq On : 12/15/11 13:42
Sample : F4XP3
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:49:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.39	136	174588	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.19	164	121953	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.59	188	221216	0.4000 ug/mL	0.00
15) Chrysene-d12	15.88	240	128778	0.4000 ug/mL	0.00
19) Perylene-d12	18.15	264	139313m	0.4000 ug/mL	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.47	152	89743	0.3328 ug/mL	0.00
Spiked Amount 0.400			Recovery =	83.20%	
13) Fluoranthene-d10	13.53	212	158116	0.3245 ug/mL	0.00
Spiked Amount 0.400			Recovery =	81.13%	
Target Compounds					Qvalue
25) Benzo(g,h,i)perylene	20.96	276	37306	0.1057 ug/mL#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

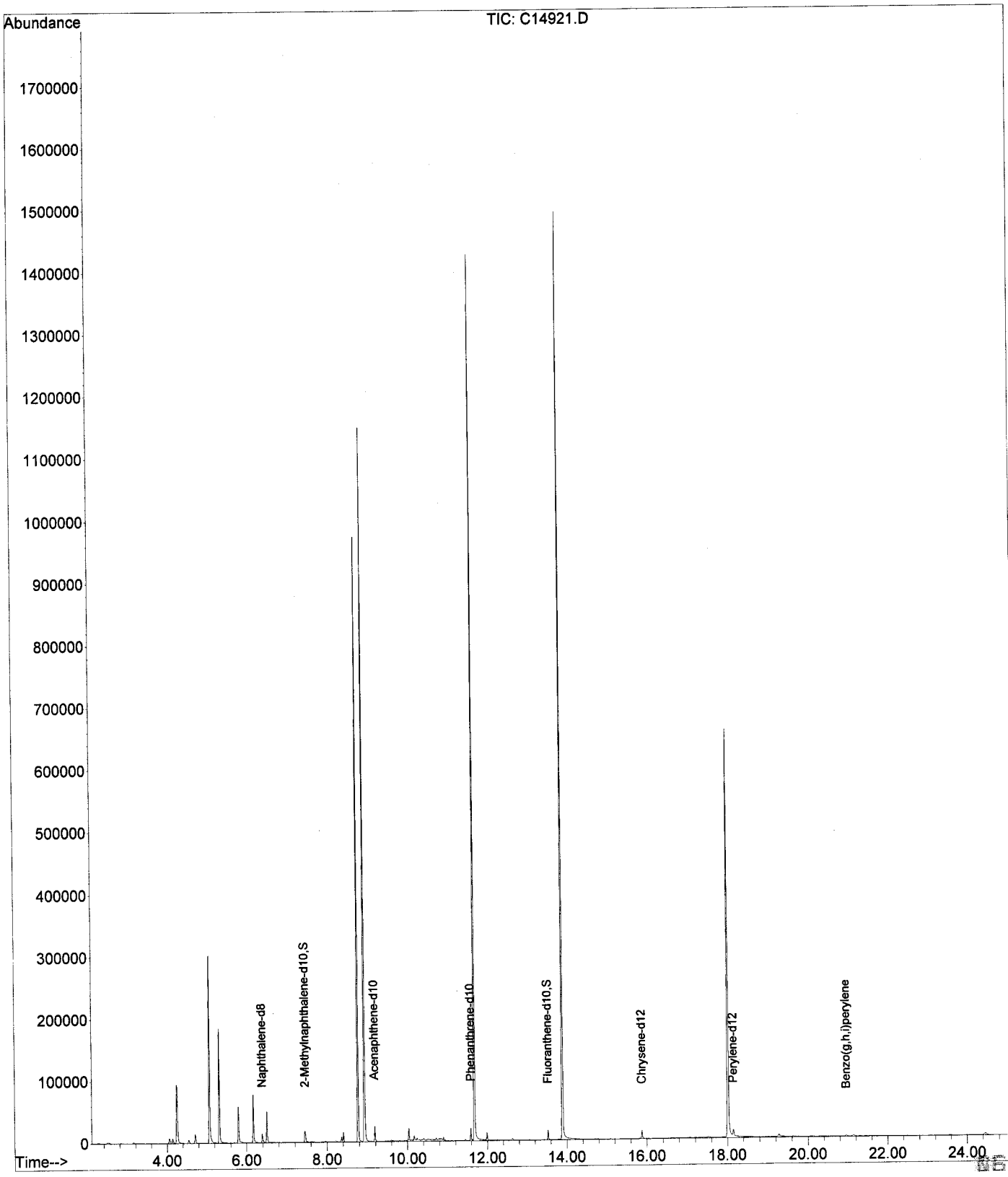
8609

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14921.D
Acq On : 12/15/11 13:42
Sample : F4XP3
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

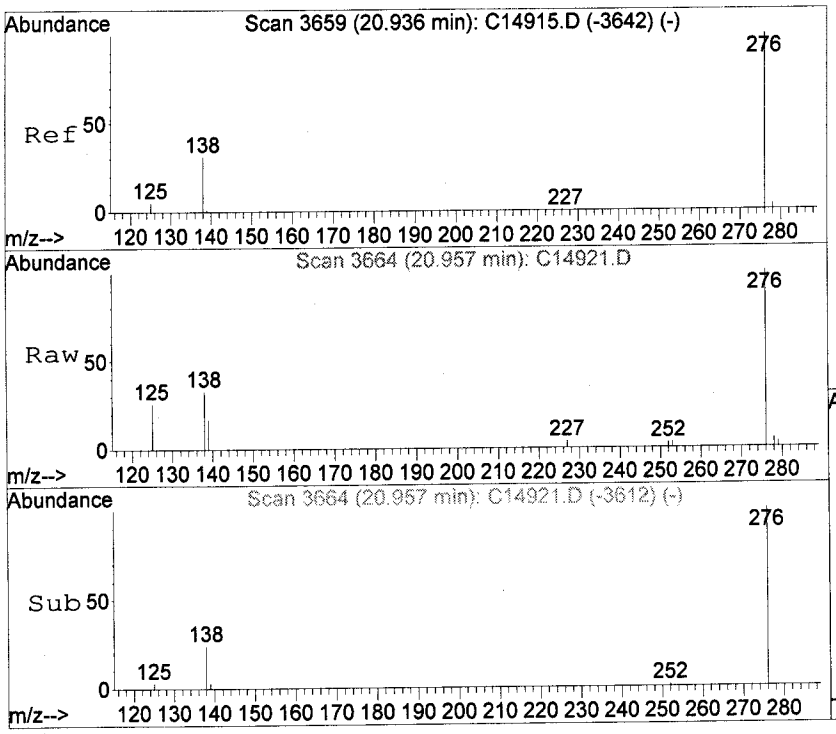
Operator: SK
Inst : C5975

Quant Time: Dec 19 09:49:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



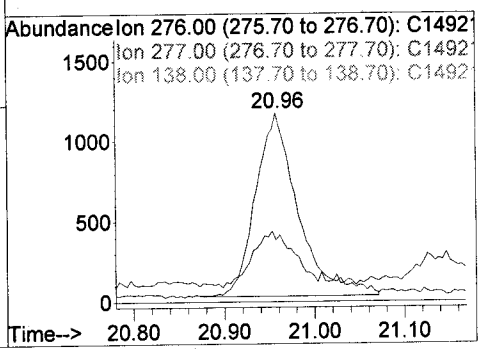
Data File : C:\MSDCHEM\1\DATA\C14921.D
Acq On : 12/15/11 13:42
Sample : F4XP3
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.11 ug/mL
RT: 20.96 min Scan# 3664
Delta R.T. 0.02 min
Integration Range:
Scan=3645 to 3691
R.T.= 20.88 to 21.07 (min)
Tgt Ion:276 Resp: 37306

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.9	26.2	39.2



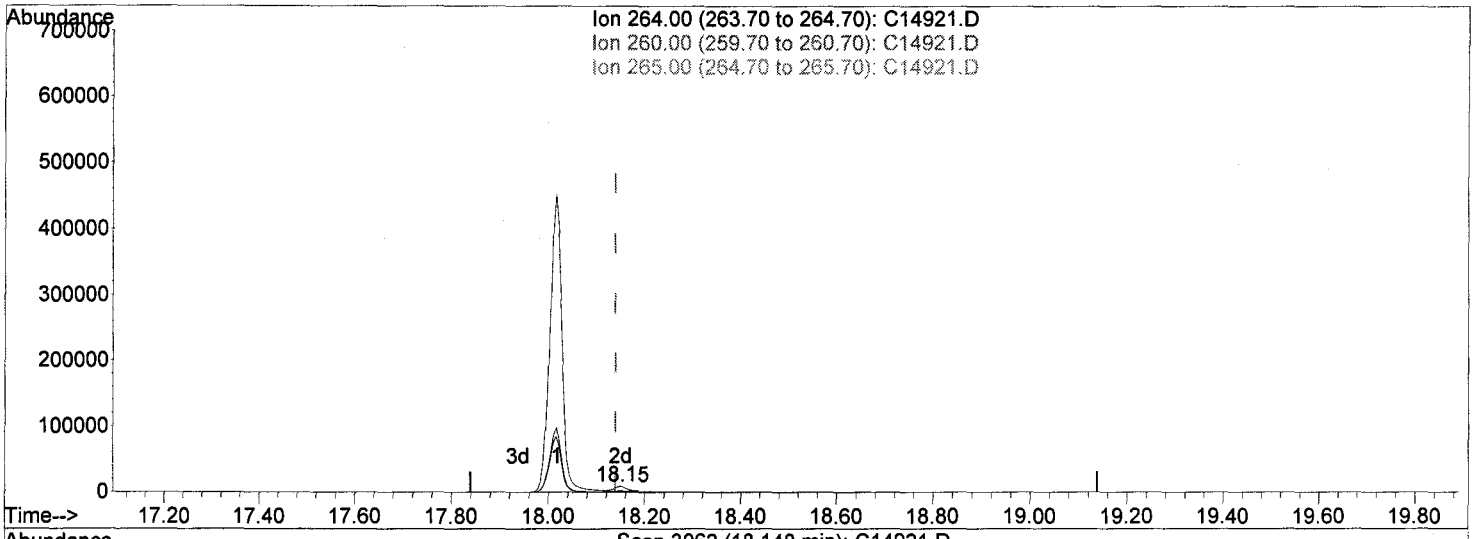
0611

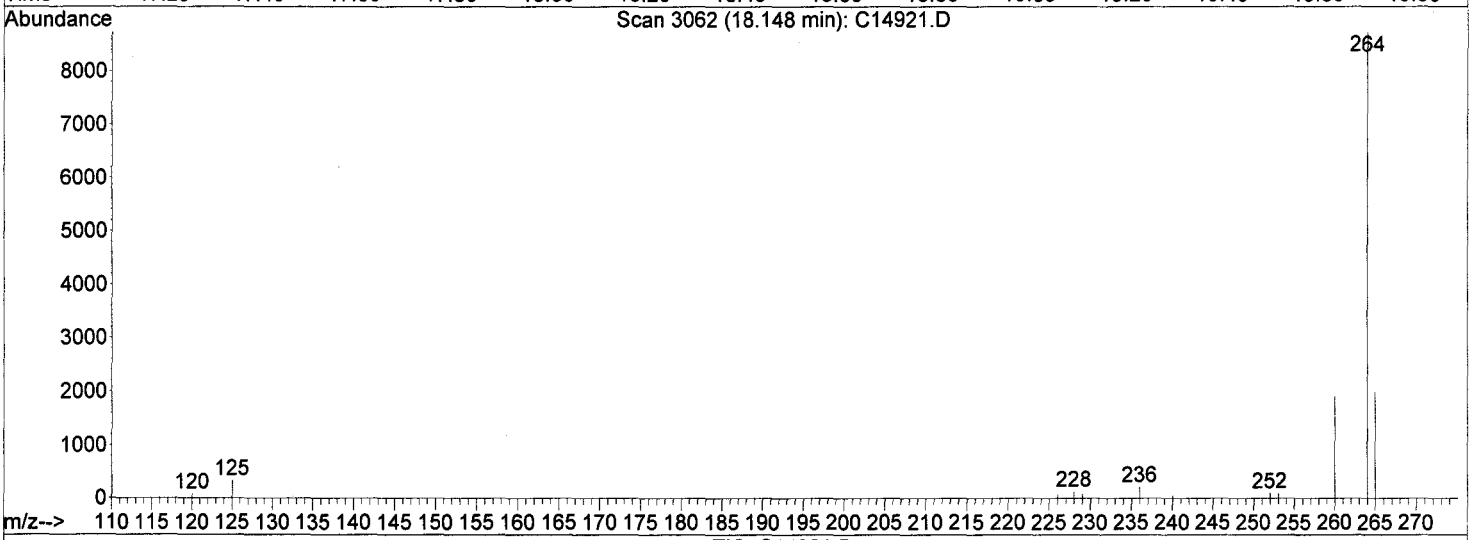
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14921.D
Acq On : 12/15/11 13:42 Operator: SK
Sample : F4XP3 Inst : C5975
Misc : S-4460.04 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 09:49:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/15/11





TIC: C14921.D

(19) Perylene-d12

18.148min (+0.008) 0.4000ug/mL m

response 139313

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1050.67#
265.00	21.10	1204.83#
0.00	0.00	0.00

0612

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.05

Sample wt/vol: 60.30 (g/mL) G Lab File ID: C14922

Extraction: (Type) SONC

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.6	U
91-57-6	2-Methylnaphthalene	2.6	U
208-96-8	Acenaphthylene	2.6	U
83-32-9	Acenaphthene	2.6	U
86-73-7	Fluorene	2.6	U
87-86-5	Pentachlorophenol	5.3	U
85-01-8	Phenanthrene	2.6	U
120-12-7	Anthracene	2.6	U
206-44-0	Fluoranthene	2.6	U
129-00-0	Pyrene	2.6	U
56-55-3	Benzo(a)anthracene	2.6	U
218-01-9	Chrysene	2.6	U
205-99-2	Benzo(b)fluoranthene	2.6	U
207-08-9	Benzo(k)fluoranthene	2.6	U
50-32-8	Benzo(a)pyrene	2.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.6	U
53-70-3	Dibenzo(a,h)anthracene	2.6	U
191-24-2	Benzo(g,h,i)perylene	2.7	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14922.D
Acq On : 12/15/11 14:14 Operator: SK
Sample : F4XP4 Inst : C5975
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 09:51:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.39	136	177460	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.19	164	129705	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.59	188	239071	0.4000 ug/mL	0.00
15) Chrysene-d12	15.88	240	137801	0.4000 ug/mL	0.00
19) Perylene-d12	18.15	264	154061m	0.4000 ug/mL	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.47	152	93084	0.3396 ug/mL	0.00
Spiked Amount 0.400			Recovery =	84.90%	
13) Fluoranthene-d10	13.53	212	173427	0.3294 ug/mL	0.00
Spiked Amount 0.400			Recovery =	82.35%	
Target Compounds					Qvalue
25) Benzo(g,h,i)perylene	20.96	276	40161	0.1029 ug/mL#	93

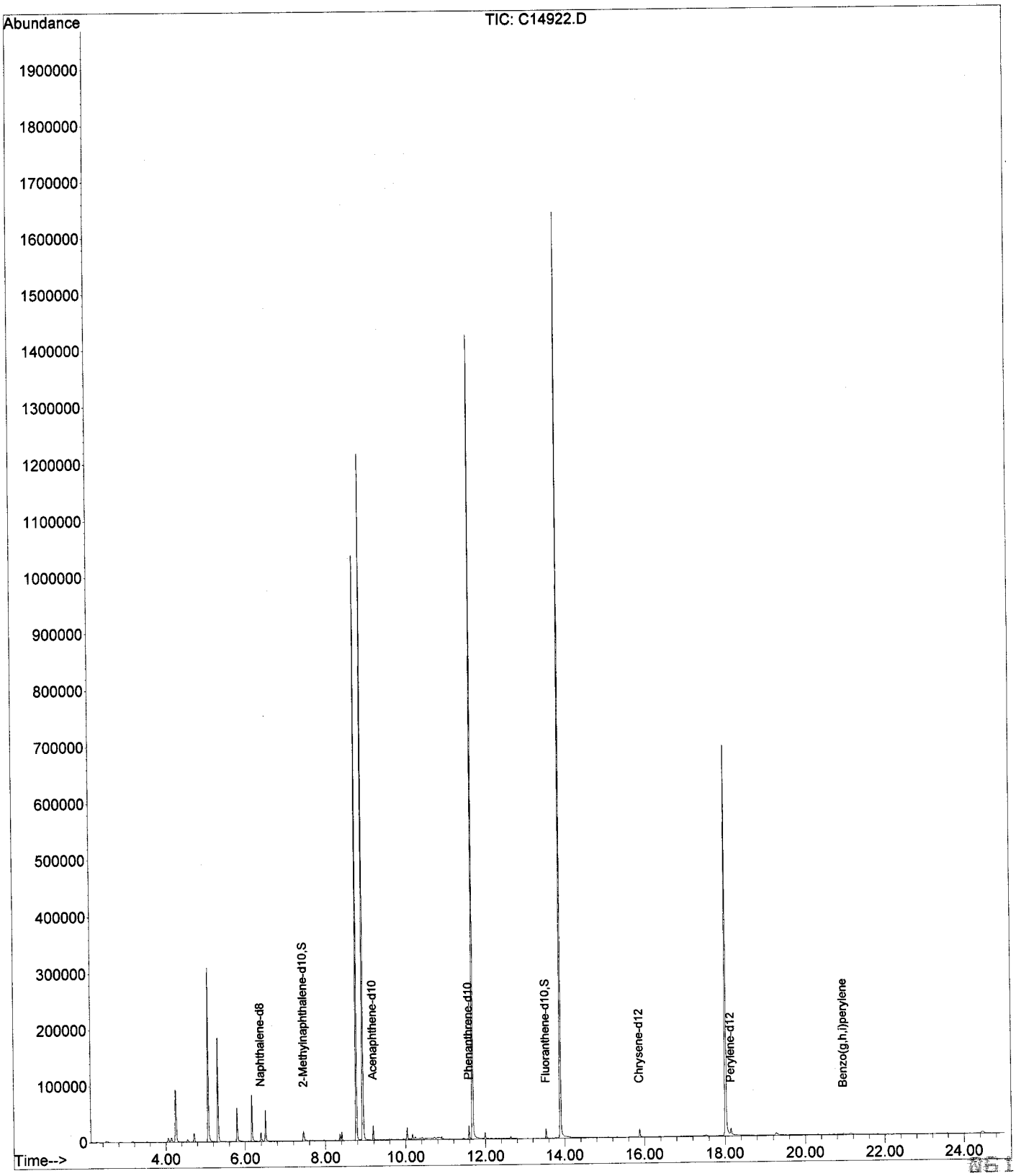
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14922.D
Acq On : 12/15/11 14:14
Sample : F4XP4
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

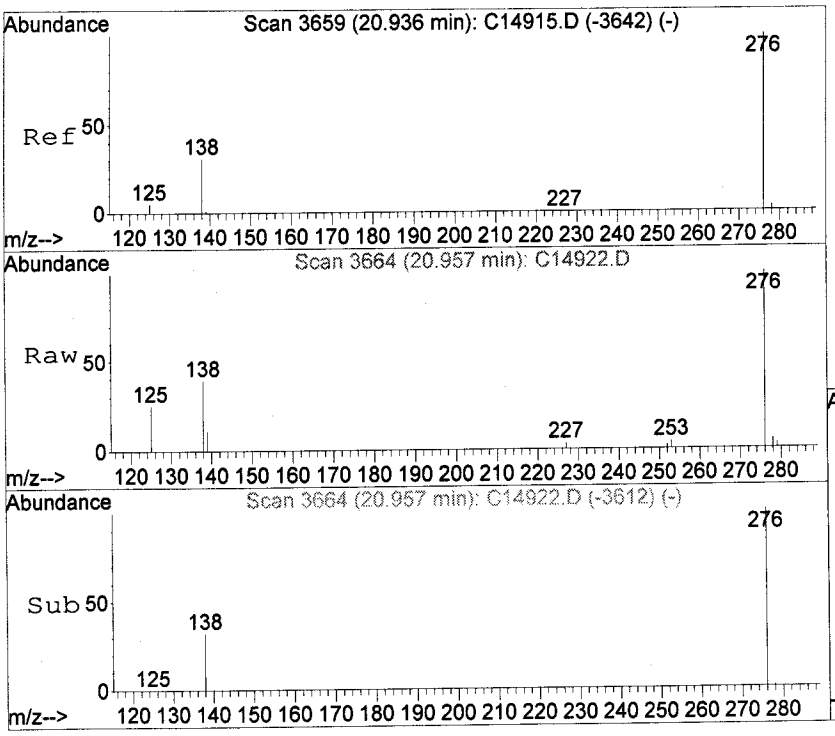
Operator: SK
Inst : C5975

Quant Time: Dec 19 09:51:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



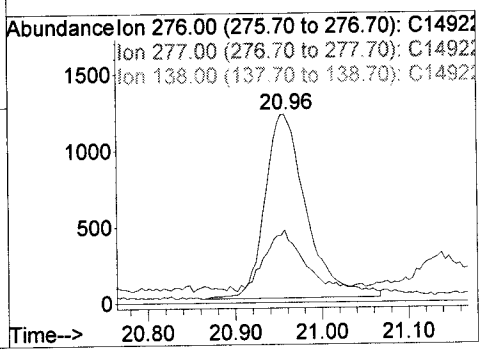
Data File : C:\MSDCHEM\1\DATA\C14922.D
Acq On : 12/15/11 14:14
Sample : F4XP4
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.10 ug/mL
RT: 20.96 min Scan# 3664
Delta R.T. 0.02 min
Integration Range:
Scan=3642 to 3690
R.T.= 20.86 to 21.07 (min)
Tgt Ion:276 Resp: 40161

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.9	26.2	39.2

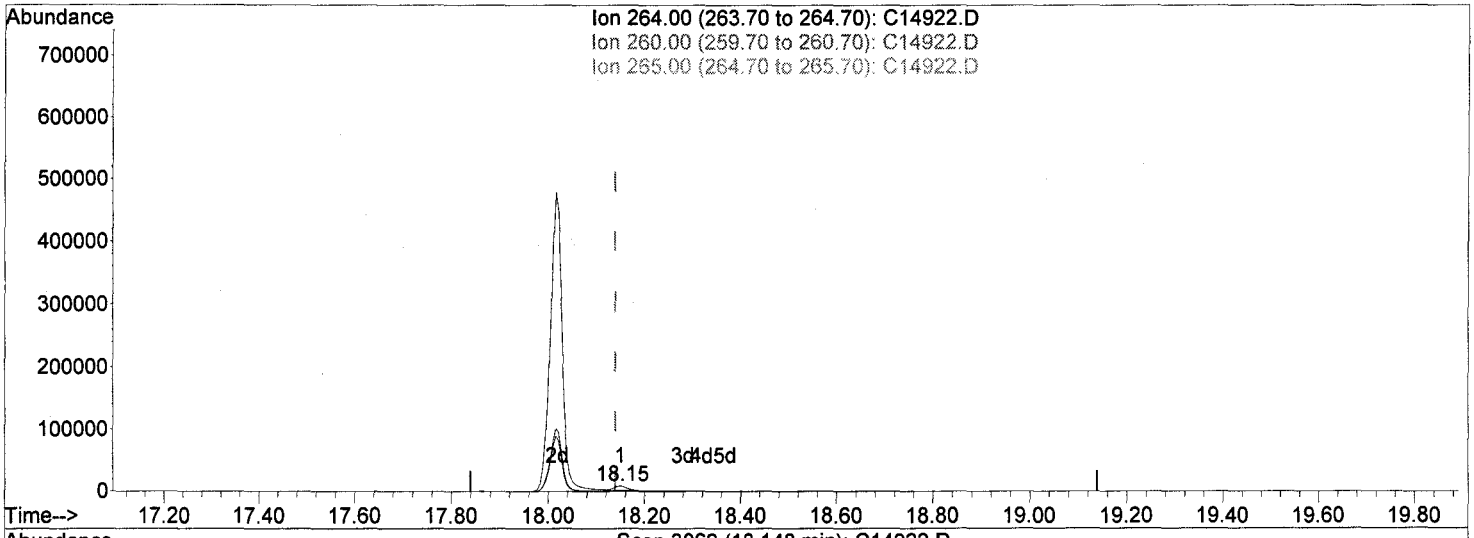


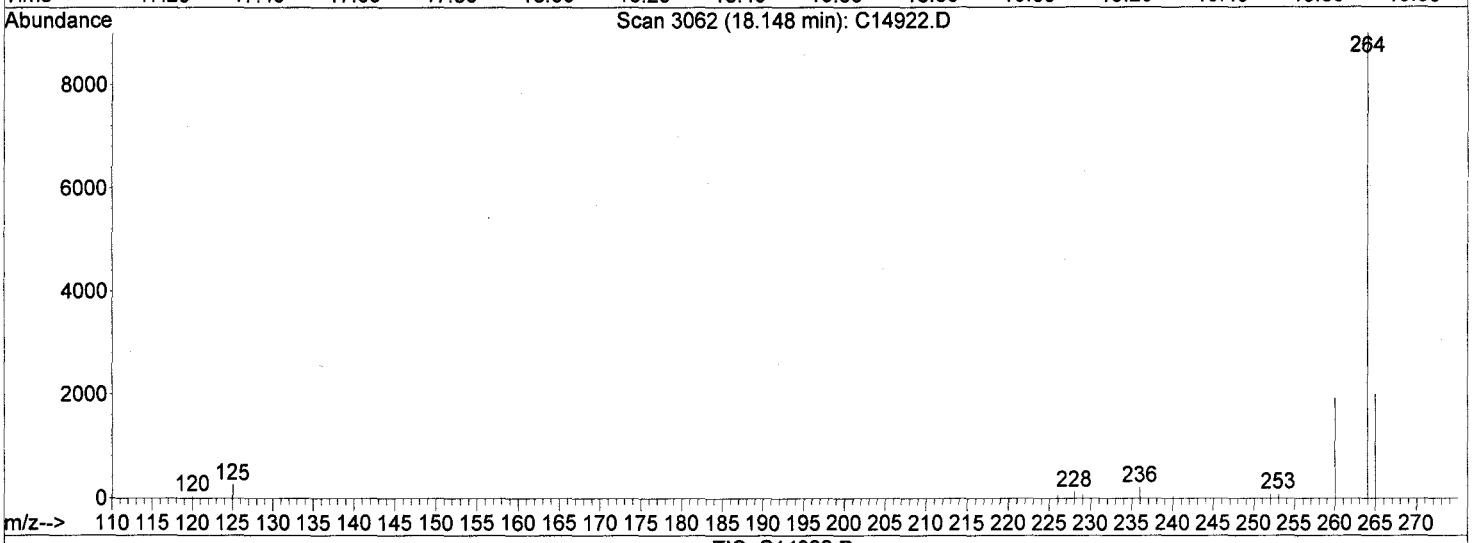
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14922.D
Acq On : 12/15/11 14:14 Operator: SK
Sample : F4XP4 Inst : C5975
Misc : S-4460.05 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 09:51:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/15/11





TIC: C14922.D

(19) Perylene-d12

18.148min (+0.008) 0.4000ug/mL m

response 154061

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	35.77#
265.00	21.10	33.41#
0.00	0.00	0.00

0617

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06

Sample wt/vol: 60.70 (g/mL) G Lab File ID: C14923

Extraction: (Type) SONC

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.4	U
91-57-6	2-Methylnaphthalene	2.4	U
208-96-8	Acenaphthylene	2.9	
83-32-9	Acenaphthene	2.8	
86-73-7	Fluorene	2.3	J
87-86-5	Pentachlorophenol	4.9	U
85-01-8	Phenanthrene	28	E
120-12-7	Anthracene	9.0	
206-44-0	Fluoranthene	88	E
129-00-0	Pyrene	69	E
56-55-3	Benzo(a)anthracene	41	E
218-01-9	Chrysene	41	E
205-99-2	Benzo(b)fluoranthene	45	E
207-08-9	Benzo(k)fluoranthene	17	
50-32-8	Benzo(a)pyrene	36	E
193-39-5	Indeno(1,2,3-cd)pyrene	29	E
53-70-3	Dibenzo(a,h)anthracene	7.8	
191-24-2	Benzo(g,h,i)perylene	27	E

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:52:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	145958	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	106714	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	200158	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	120148	0.4000	ug/mL	0.00
19) Perylene-d12	18.15	264	142443m	0.4000	ug/mL	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	80919	0.3589	ug/mL	0.00
Spiked Amount 0.400			Recovery =	89.72%		
13) Fluoranthene-d10	13.53	212	163324	0.3705	ug/mL	0.00
Spiked Amount 0.400			Recovery =	92.62%		
Target Compounds						Qvalue
6) Acenaphthylene	8.95	152	52236	0.1198	ug/mL#	78
7) Acenaphthene	9.24	154	29491	0.1155	ug/mL	85
8) Fluorene	10.08	166	28259	0.0937	ug/mL#	90
11) Phenanthrene	11.63	178	519144	1.1396	ug/mL	100
12) Anthracene	11.71	178	168393	0.3651	ug/mL#	88
14) Fluoranthene	13.56	202	1548870	3.5602	ug/mL	98
16) Benzo(a)anthracene	15.86	228	557822	1.6575	ug/mL	95
17) Chrysene	15.92	228	576437m	1.6559	ug/mL	
18) Pyrene	13.92	202	1426943	2.7860	ug/mL#	86
20) Benzo(b)fluoranthene	17.52	252	717750	1.8450	ug/mL	97
21) Benzo(k)fluoranthene	17.56	252	315807	0.6898	ug/mL	100
22) Benzo(a)pyrene	18.05	252	592266	1.4680	ug/mL	99
23) Dibenzo(a,h)anthracene	20.38	278	76624	0.3159	ug/mL#	88
24) Indeno(1,2,3-cd)pyrene	20.32	276	383714	1.1922	ug/mL#	95
25) Benzo(g,h,i)perylene	20.96	276	389747	1.0796	ug/mL#	94

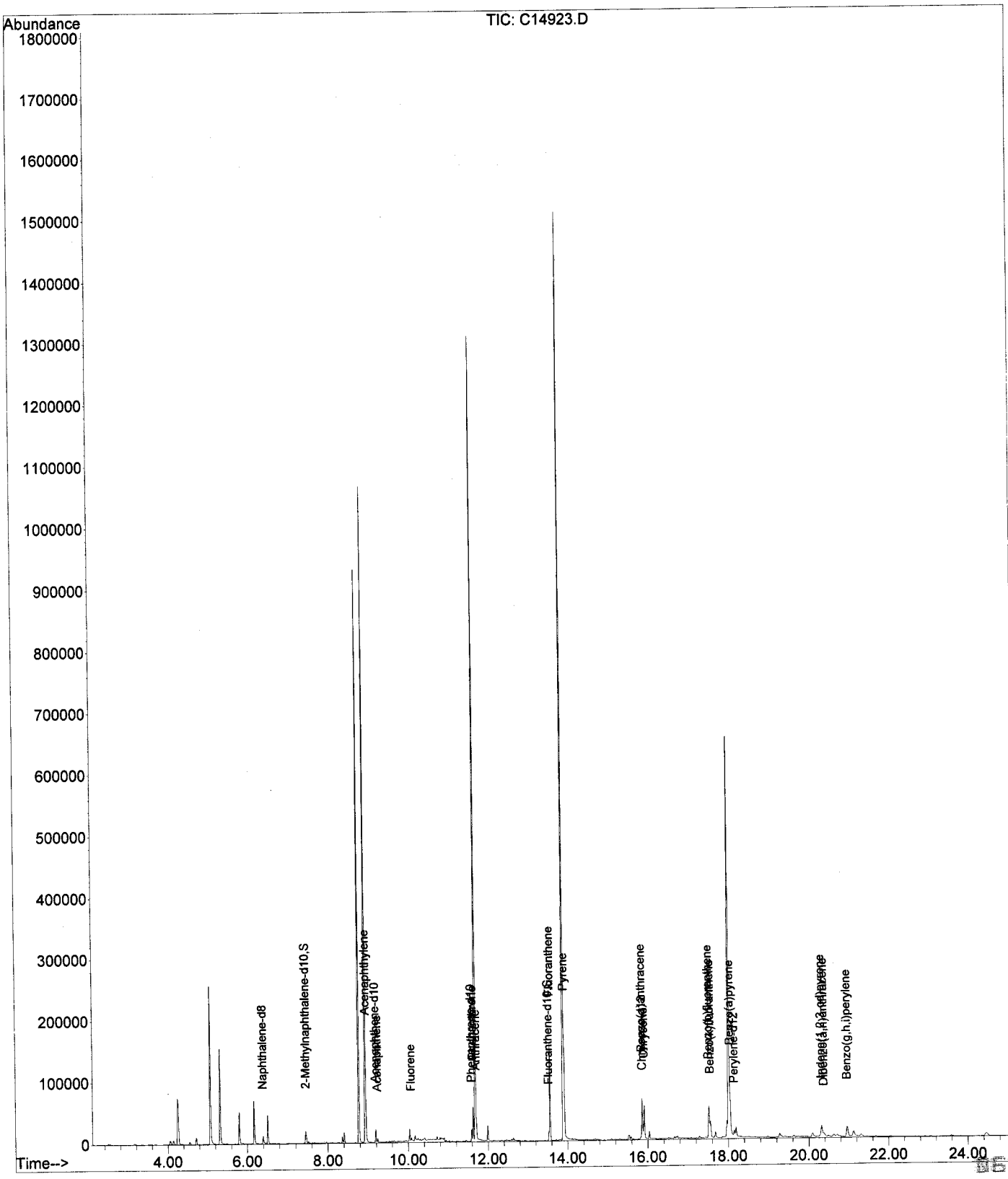
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

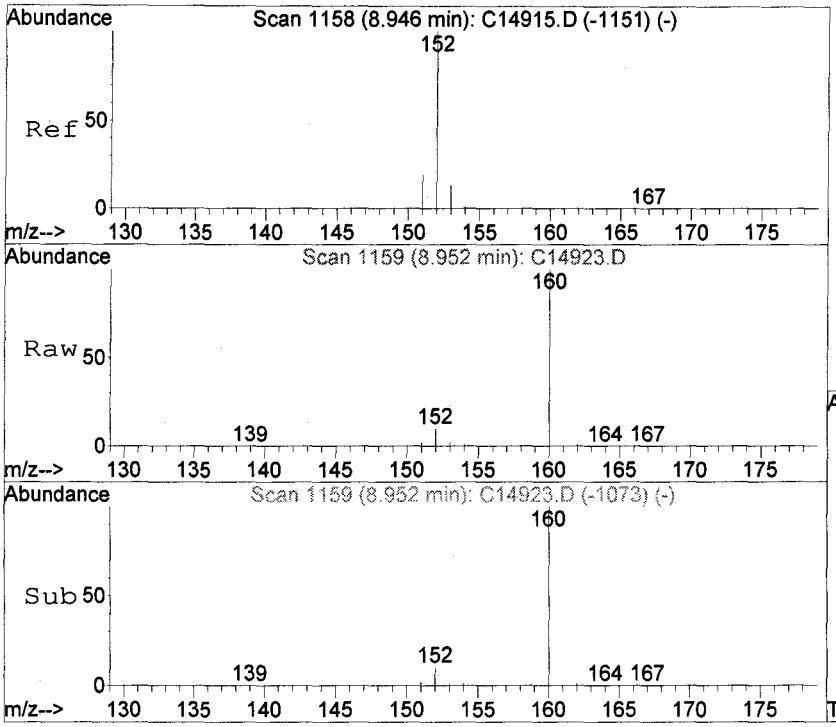
Operator: SK
Inst : C5975

Quant Time: Dec 19 09:52:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



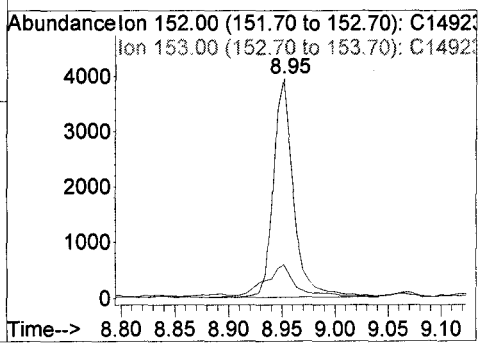
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

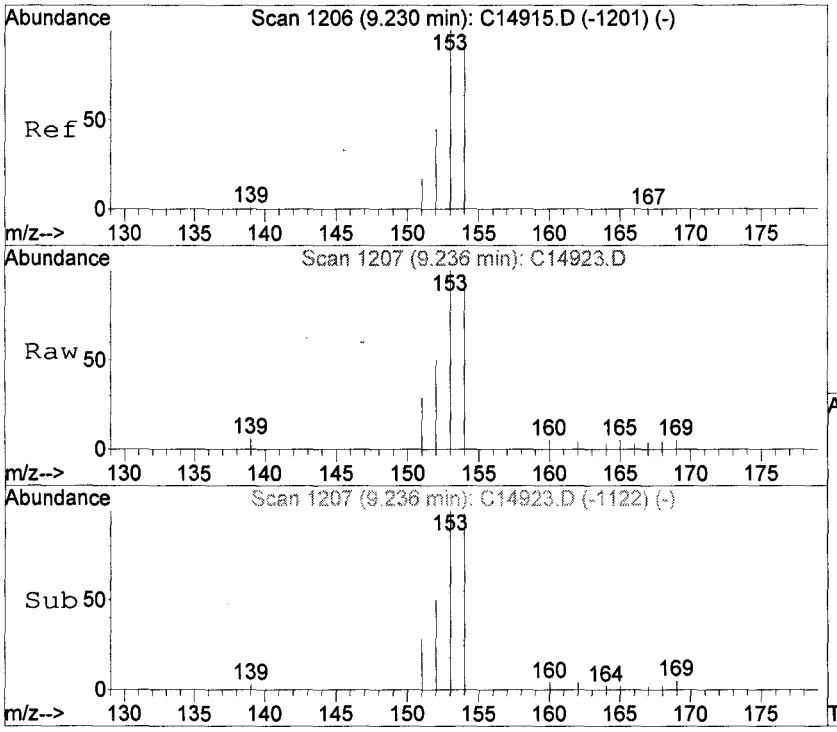
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.12 ug/mL
RT: 8.95 min Scan# 1159
Delta R.T. 0.01 min
Integration Range:
Scan=1146 to 1174
R.T.= 8.87 to 9.04 (min)
Tgt Ion:152 Resp: 52236

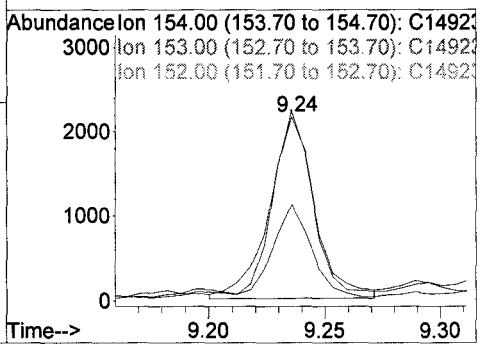
Ion	Ratio	Lower	Upper
152	100		
153	21.8	10.5	15.7#





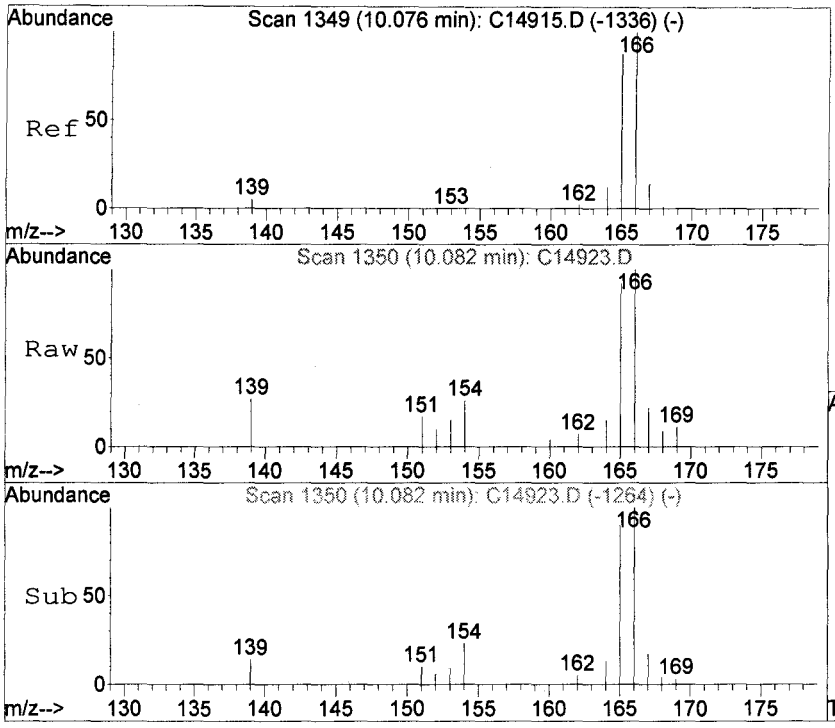
#7
Acenaphthene
Concen: 0.12 ug/mL
RT: 9.24 min Scan# 1207
Delta R.T. 0.01 min
Integration Range:
Scan=1201 to 1213
R.T.= 9.20 to 9.27 (min)
Tgt Ion:154 Resp: 29491

Ion	Ratio	Lower	Upper
154	100		
153	87.8	85.2	127.8
152	43.3	39.4	59.0



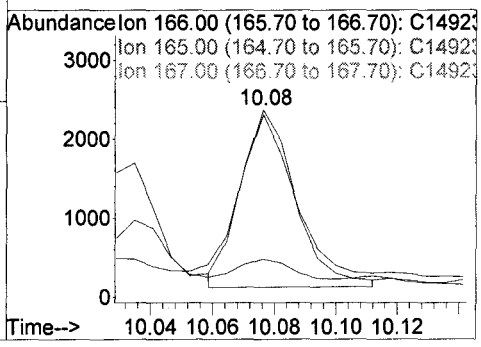
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

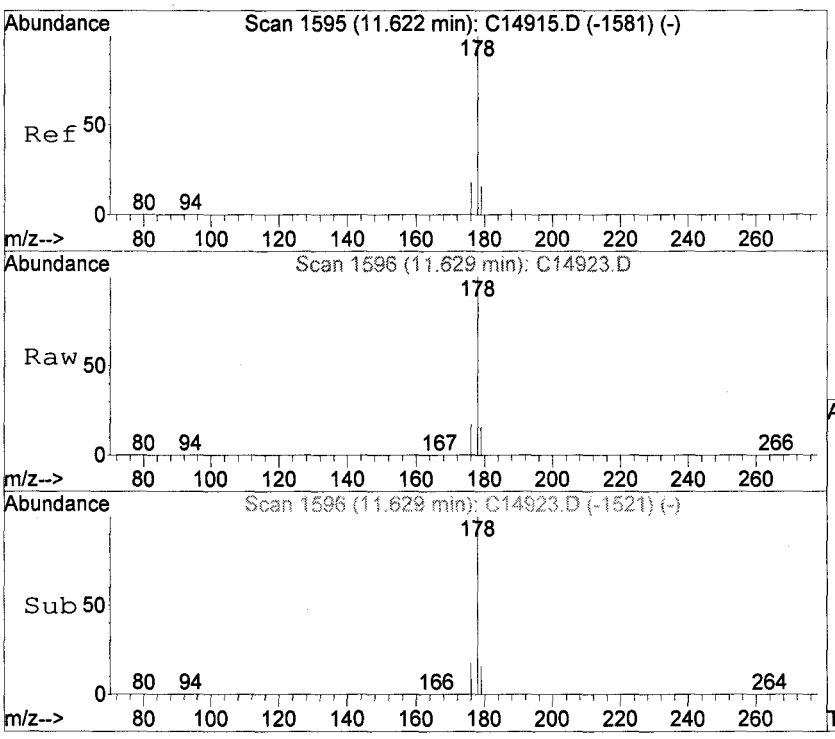
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#8
Fluorene
Concen: 0.09 ug/mL
RT: 10.08 min Scan# 1350
Delta R.T. 0.01 min
Integration Range:
Scan=1346 to 1355
R.T.= 10.06 to 10.11 (min)
Tgt Ion:166 Resp: 28259

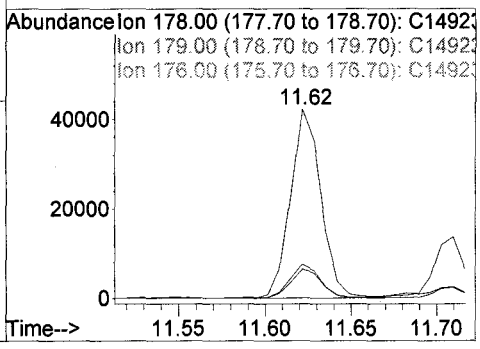
Ion	Ratio	Lower	Upper
166	100		
165	101.6	73.9	110.9
167	17.0	10.7	16.1#





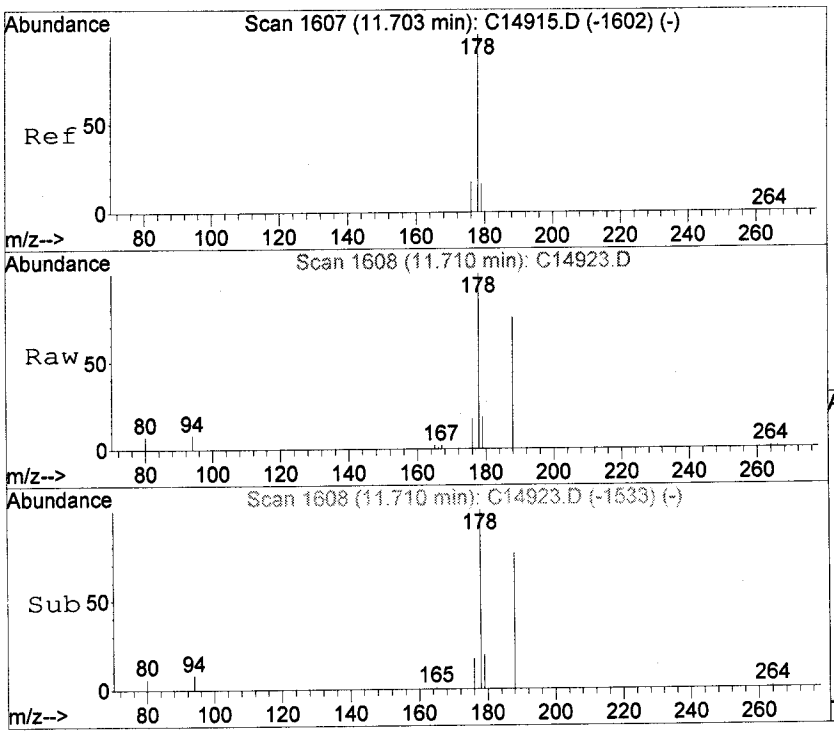
#11
Phenanthrene
Concen: 1.14 ug/mL
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Integration Range:
Scan=1586 to 1602
R.T.= 11.56 to 11.67 (min)
Tgt Ion:178 Resp: 519144

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.4
176	18.1	14.5	21.7



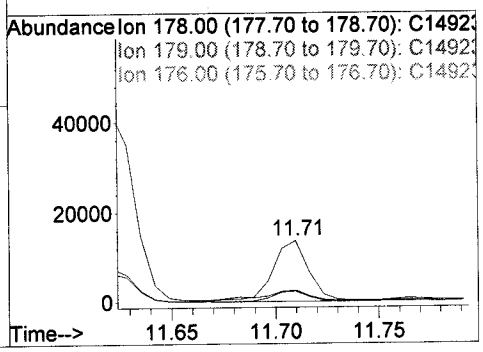
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

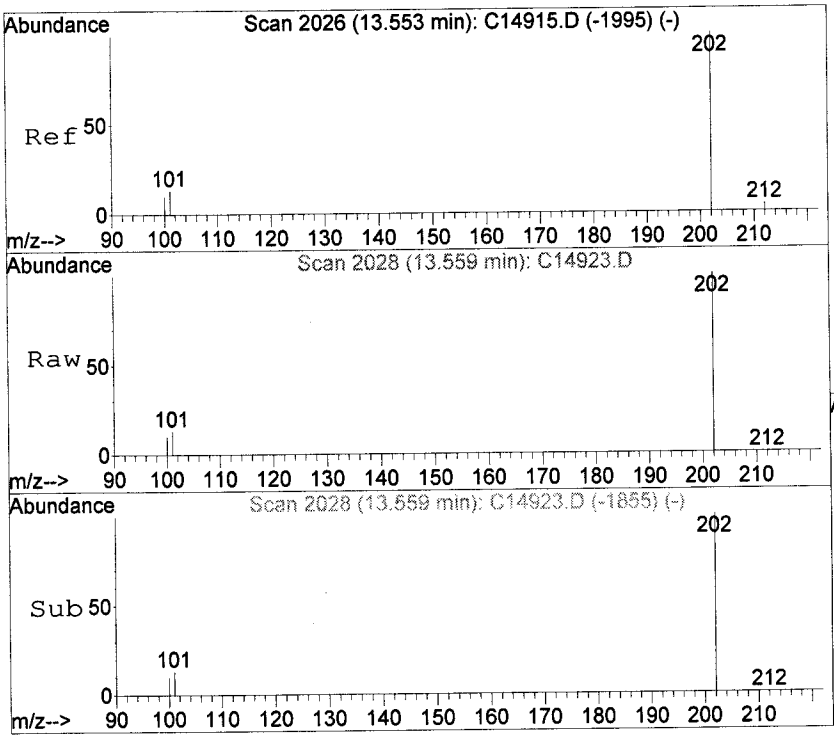
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.37 ug/mL
RT: 11.71 min Scan# 1608
Delta R.T. 0.01 min
Integration Range:
Scan=1602 to 1614
R.T.= 11.67 to 11.75 (min)
Tgt Ion:178 Resp: 168393

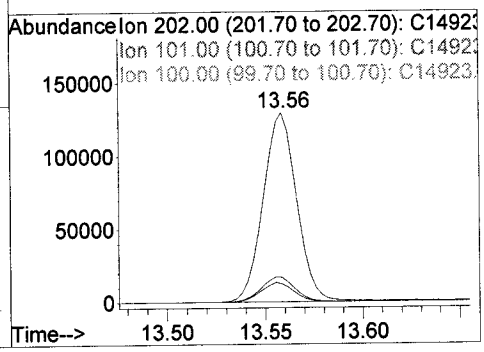
Ion	Ratio	Lower	Upper
178	100		
179	25.6	12.4	18.6#
176	17.0	13.8	20.8





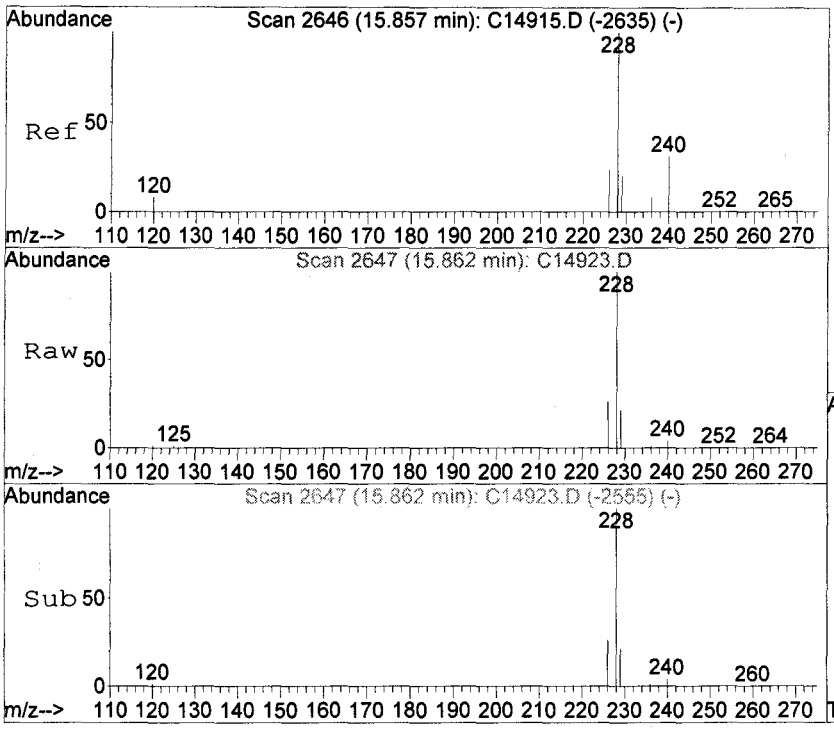
#14
Fluoranthene
Concen: 3.56 ug/mL
RT: 13.56 min Scan# 2028
Delta R.T. 0.01 min
Integration Range:
Scan=2015 to 2046
R.T.= 13.52 to 13.61 (min)
Tgt Ion:202 Resp: 1548870

Ion	Ratio	Lower	Upper
202	100		
101	13.4	11.5	17.3
100	10.4	8.8	13.2



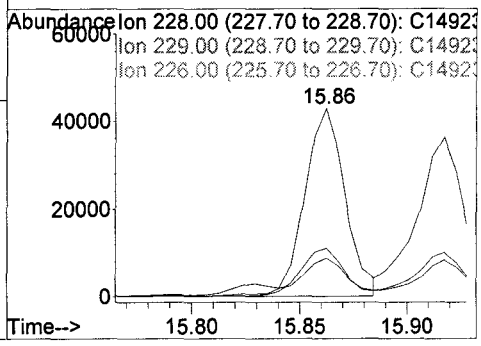
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

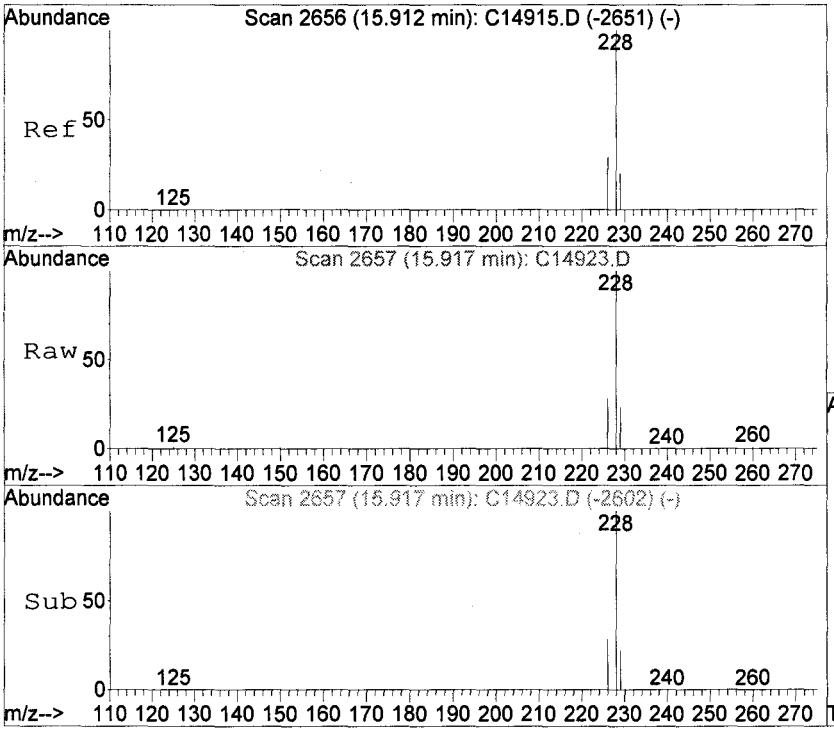
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 1.66 ug/mL
RT: 15.86 min Scan# 2647
Delta R.T. 0.01 min
Integration Range:
Scan=2637 to 2651
R.T.= 15.81 to 15.88 (min)
Tgt Ion:228 Resp: 557822

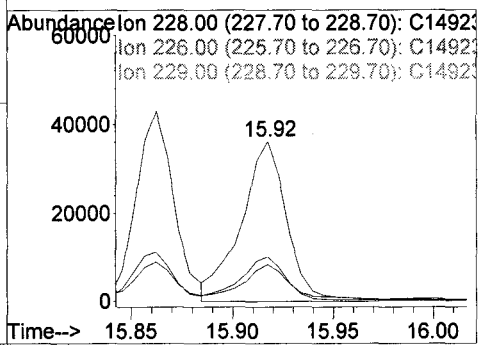
Ion	Ratio	Lower	Upper
228	100		
229	22.0	15.8	23.8
226	28.2	20.5	30.7





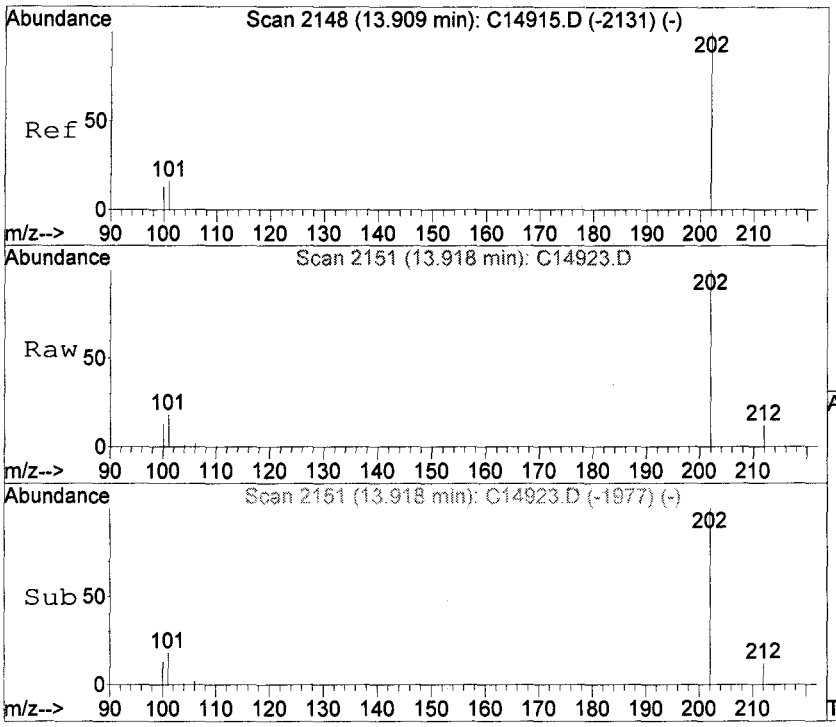
#17
Chrysene
Concen: 1.66 ug/mL m
RT: 15.92 min Scan# 2657
Delta R.T. 0.01 min
Integration Range:
Scan=2651 to 2667
R.T.= 15.88 to 15.97 (min)
Tgt Ion:228 Resp: 576437

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.8	34.2
229	21.7	15.9	23.9



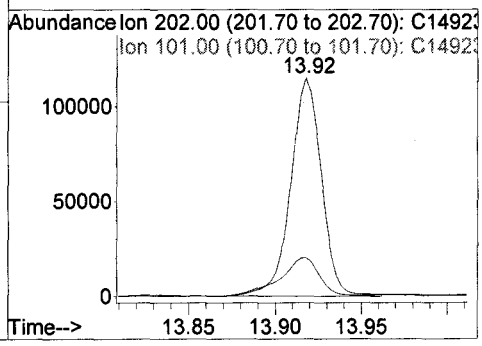
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

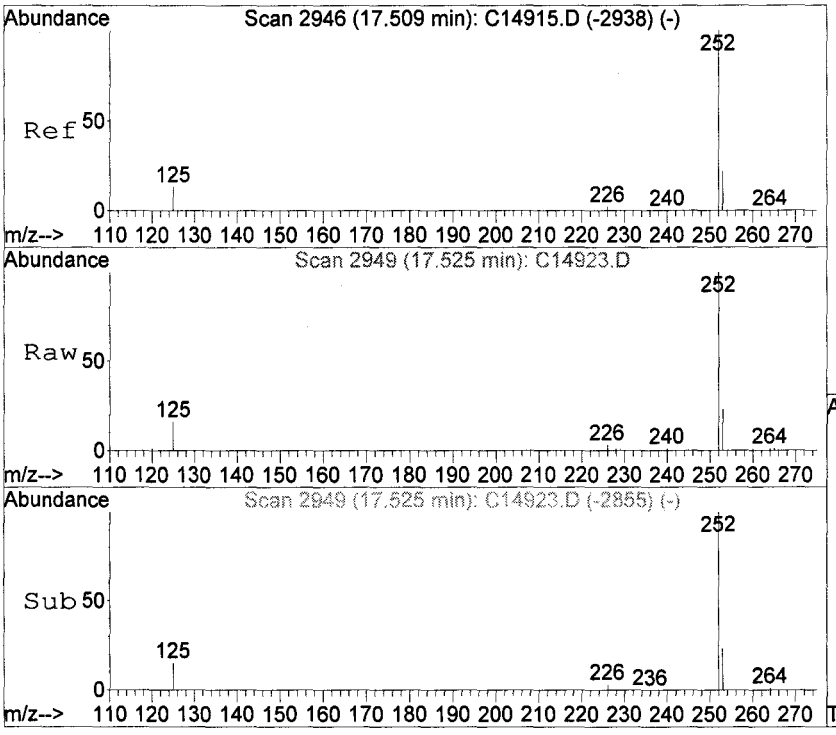
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 2.79 ug/mL
RT: 13.92 min Scan# 2151
Delta R.T. 0.01 min
Integration Range:
Scan=2131 to 2166
R.T.= 13.86 to 13.96 (min)
Tgt Ion:202 Resp: 1426943

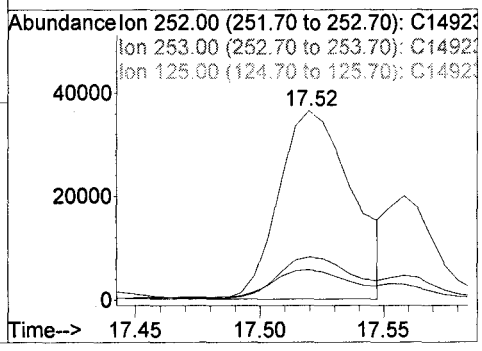
Ion	Ratio	Lower	Upper
202	100		
101	22.6	13.2	19.8#





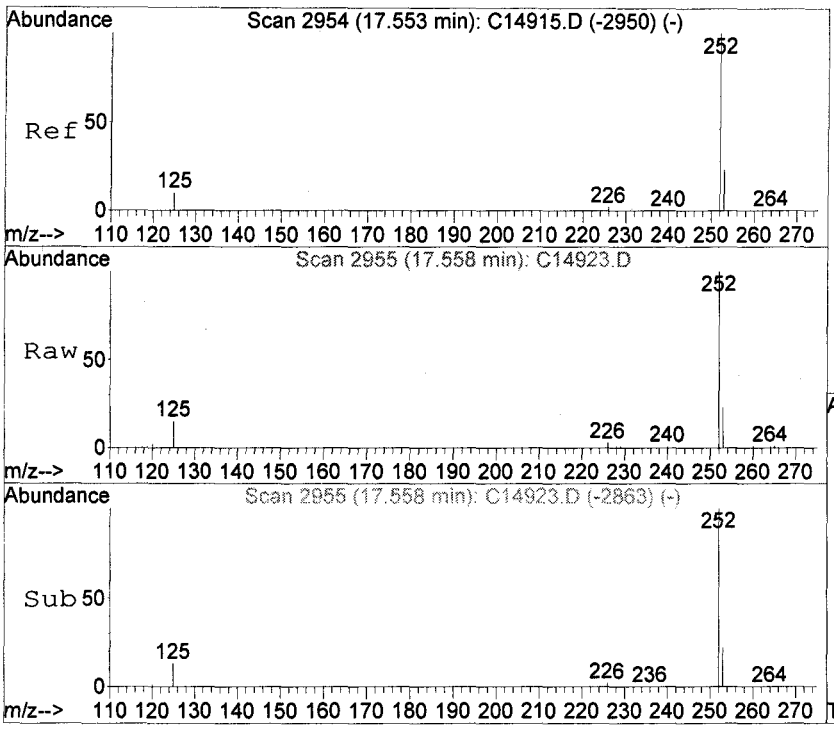
#20
Benzo(b)fluoranthene
Concen: 1.84 ug/mL
RT: 17.52 min Scan# 2949
Delta R.T. 0.01 min
Integration Range:
Scan=2940 to 2953
R.T.= 17.48 to 17.55 (min)
Tgt Ion:252 Resp: 717750

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	17.5	12.3	18.5



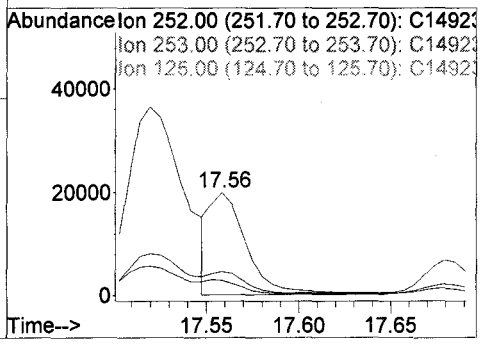
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

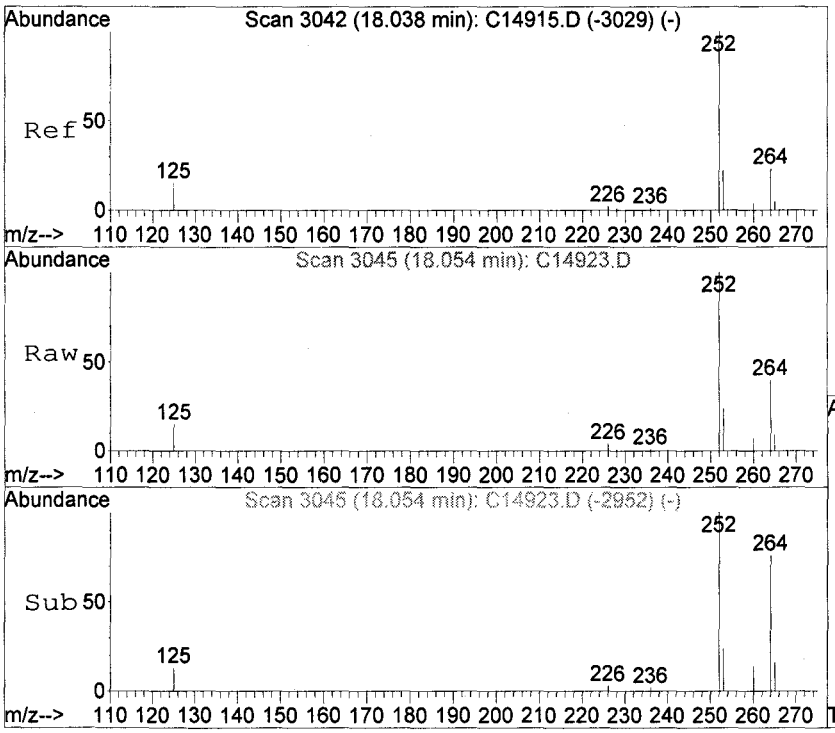
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.69 ug/mL
RT: 17.56 min Scan# 2955
Delta R.T. 0.01 min
Integration Range:
Scan=2953 to 2971
R.T.= 17.55 to 17.65 (min)
Tgt Ion:252 Resp: 315807

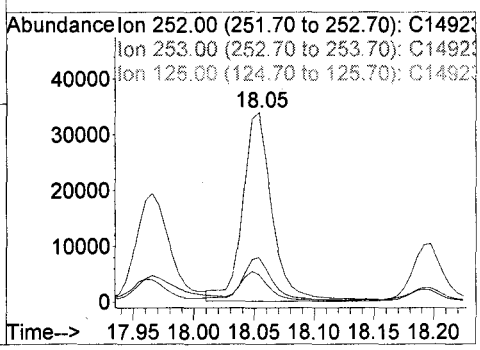
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	15.2	12.4	18.6





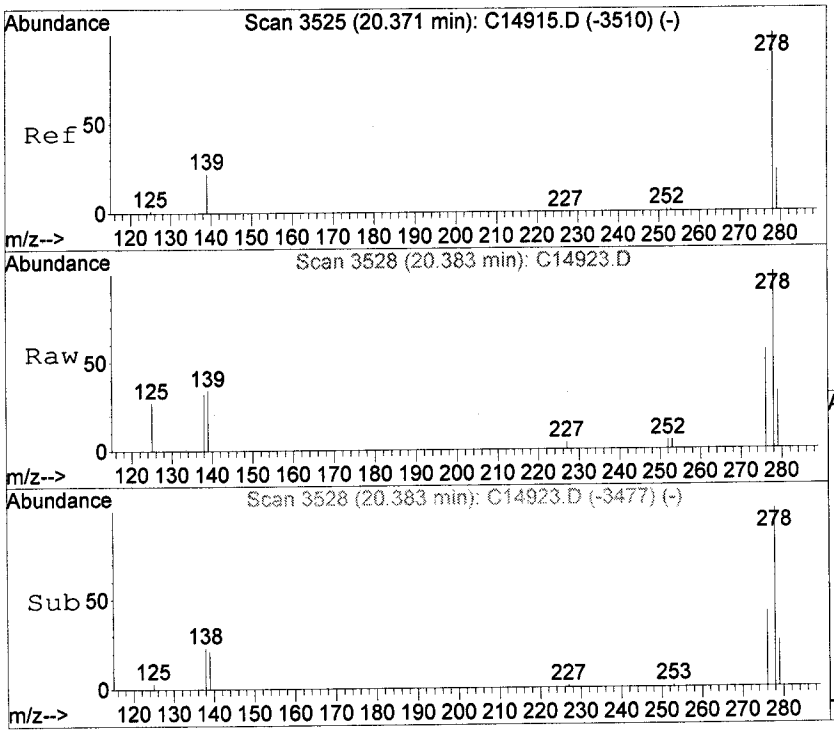
#22
Benzo(a)pyrene
Concen: 1.47 ug/mL
RT: 18.05 min Scan# 3045
Delta R.T. 0.01 min
Integration Range:
Scan=3037 to 3063
R.T.= 18.01 to 18.15 (min)
Tgt Ion:252 Resp: 592266

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	16.5	13.1	19.7



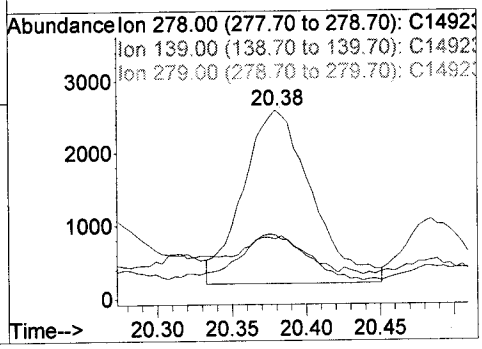
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

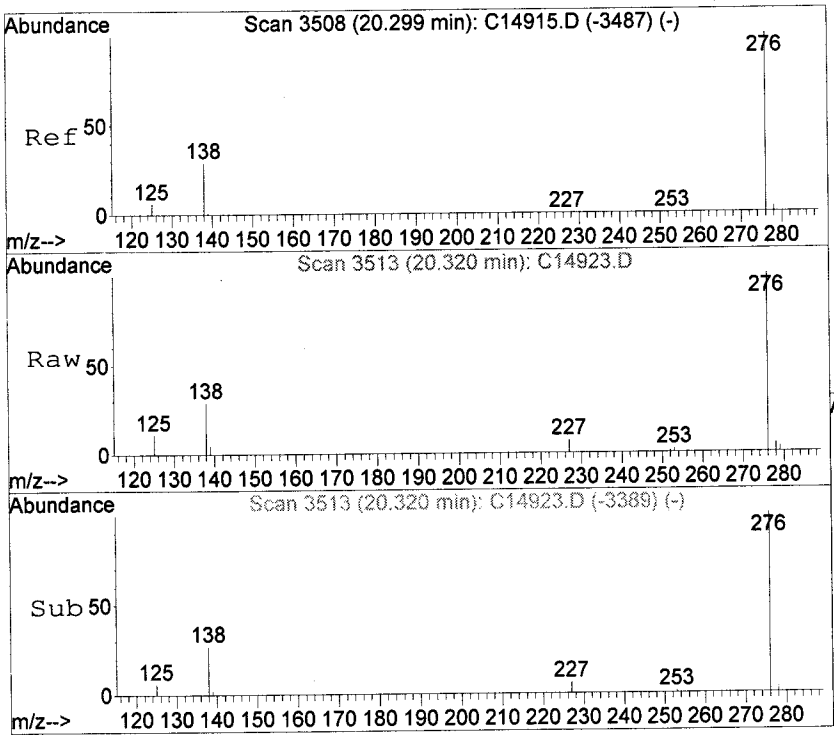
Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.32 ug/mL
RT: 20.38 min Scan# 3528
Delta R.T. 0.01 min
Integration Range:
Scan=3516 to 3544
R.T.= 20.33 to 20.45 (min)
Tgt Ion:278 Resp: 76624

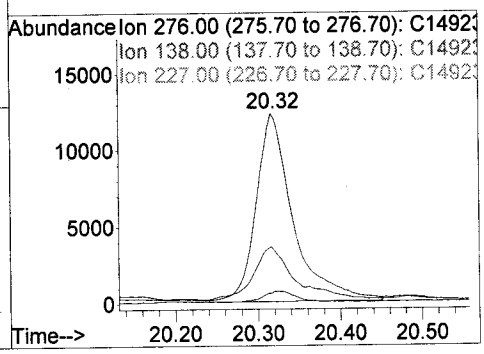
Ion	Ratio	Lower	Upper
278	100		
139	20.3	19.8	29.6
279	30.5	18.4	27.6#





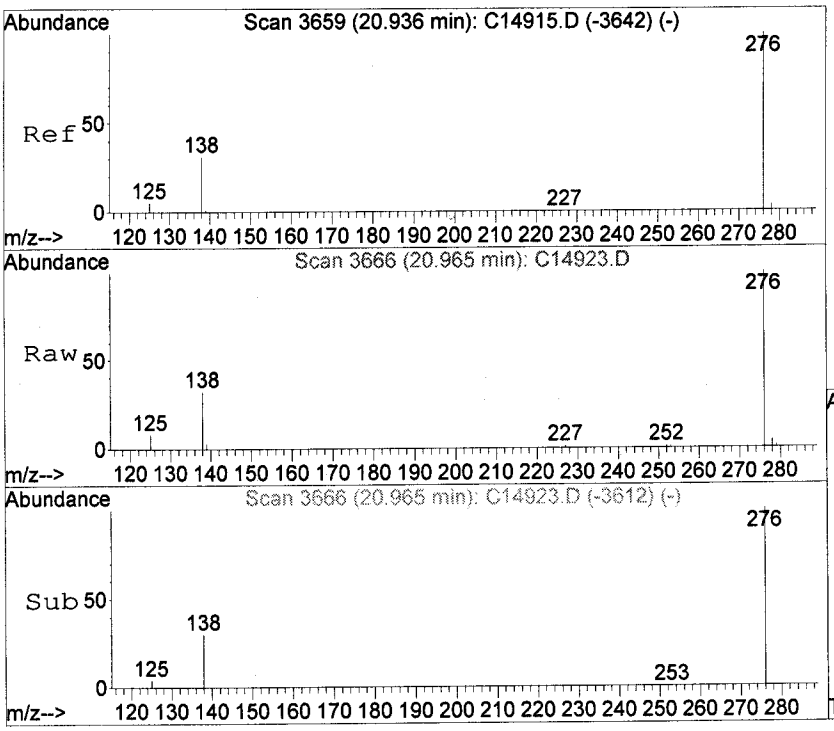
#24
Indeno(1,2,3-cd)pyrene
Concen: 1.19 ug/mL
RT: 20.32 min Scan# 3513
Delta R.T. 0.02 min
Integration Range:
Scan=3494 to 3544
R.T.= 20.24 to 20.45 (min)
Tgt Ion:276 Resp: 383714

Ion	Ratio	Lower	Upper
276	100		
138	27.0	23.7	35.5
227	5.1	0.0	0.0#



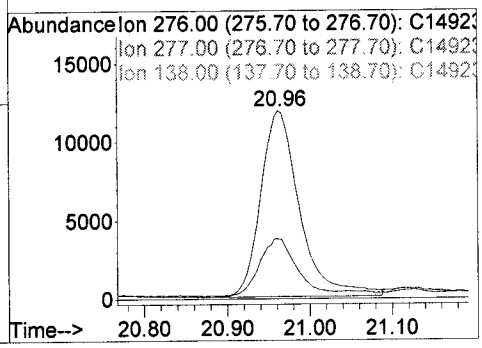
Data File : C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 10
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 1.08 ug/mL
RT: 20.96 min Scan# 3666
Delta R.T. 0.03 min
Integration Range:
Scan=3644 to 3695
R.T.= 20.87 to 21.09 (min)
Tgt Ion:276 Resp: 389747

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.4	26.2	39.2

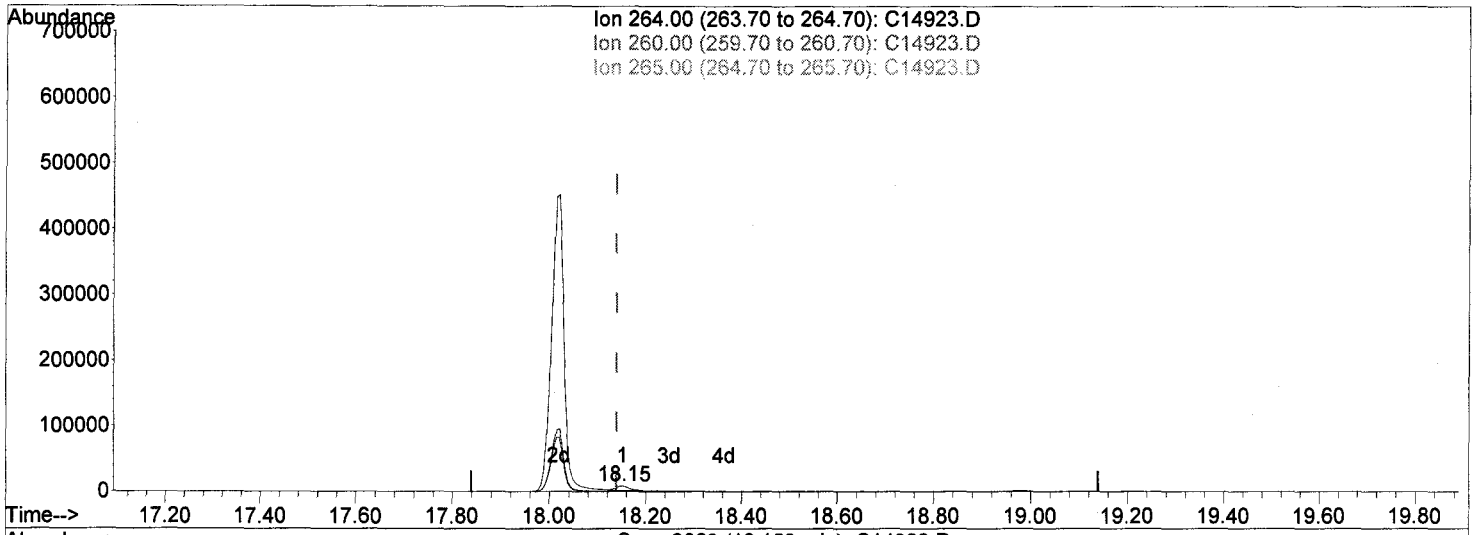


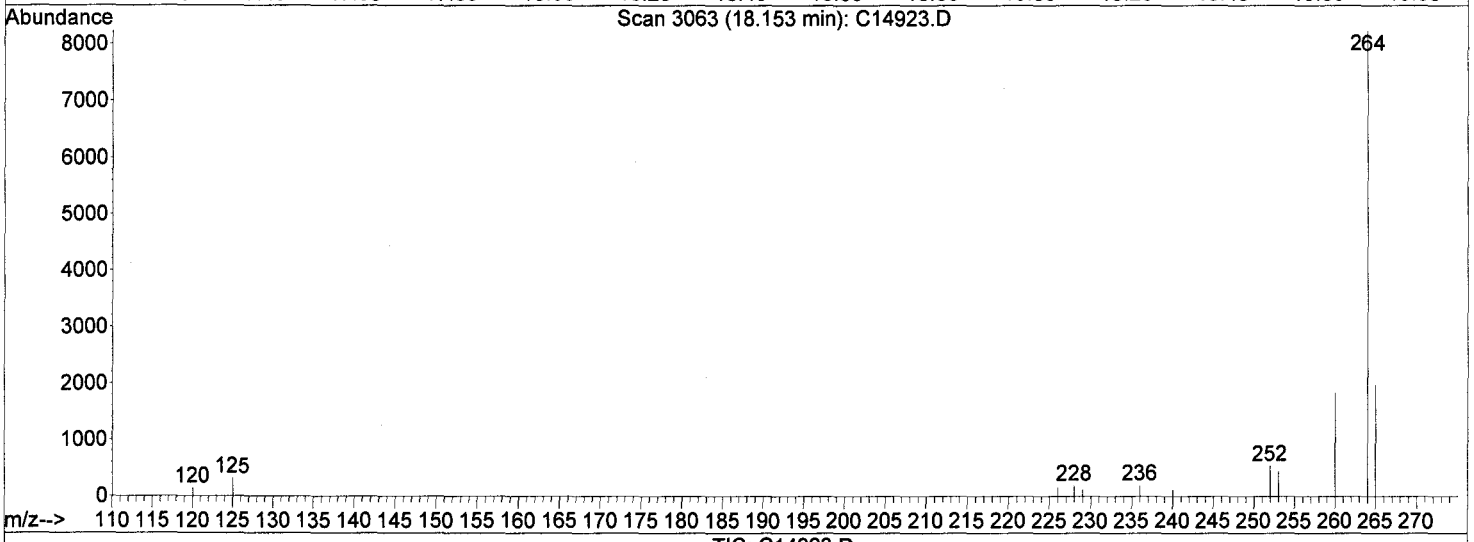
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44 Operator: SK
Sample : F4XP5 Inst : C5975
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 09:52:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11





TIC: C14923.D

(19) Perylene-d12

18.153min (+0.014) 0.4000ug/mL m

response 142443

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	30.56#
265.00	21.10	35.51#
0.00	0.00	0.00

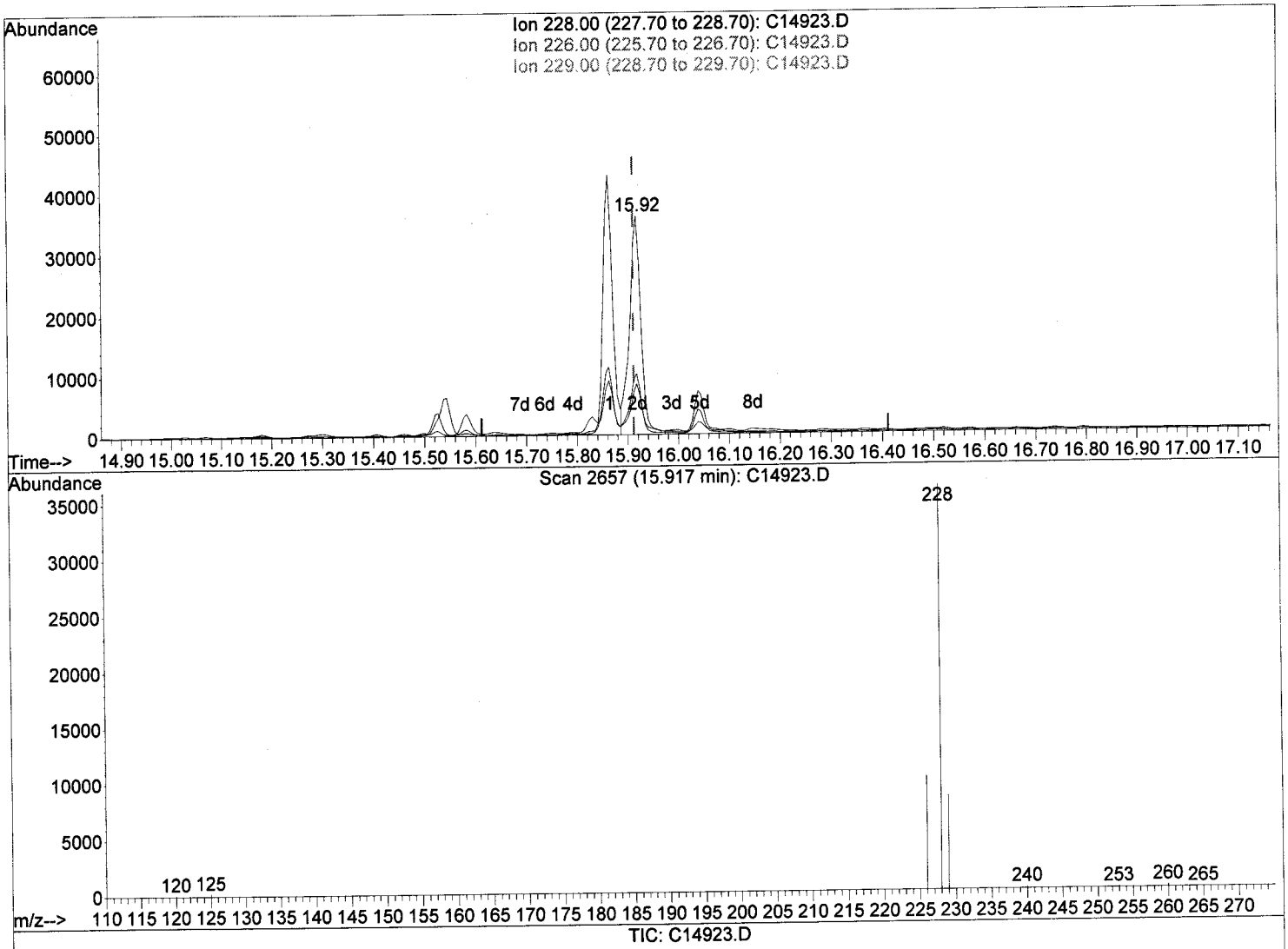
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14923.D
Acq On : 12/15/11 14:44
Sample : F4XP5
Misc : S-4460.06 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:52:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11



TIC: C14923.D

(17) Chrysene

15.917min (+0.006) 1.6559ug/mL m

response 576437

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	27.19
229.00	19.90	21.66
0.00	0.00	0.00

0630

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP5DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06DL

Sample wt/vol: 60.70 (g/mL) G Lab File ID: C14947

Extraction: (Type) SONC

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/20/2011

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	33	D
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	99	D
129-00-0	Pyrene	79	D
56-55-3	Benzo(a)anthracene	45	D
218-01-9	Chrysene	48	D
205-99-2	Benzo(b)fluoranthene	44	D
207-08-9	Benzo(k)fluoranthene	19	D
50-32-8	Benzo(a)pyrene	36	D
193-39-5	Indeno(1,2,3-cd)pyrene	32	D
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	30	D

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12 Operator: SK
Sample : F4XP5DL 5X Inst : C5975
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 21 13:43:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:10 2011
Response via : Initial Calibration

12/21/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	164771	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	104319	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	180956	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	105982	0.4000	ug/mL	0.00
19) Perylene-d12	18.17	264	139956	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	17378	0.0683	ug/mL	0.00
Spiked Amount 0.400			Recovery =	17.07%		
13) Fluoranthene-d10	13.54	212	37378	0.0938	ug/mL	0.00
Spiked Amount 0.400			Recovery =	23.45%		
Target Compounds						Qvalue
11) Phenanthrene	11.63	178	111726	0.2713	ug/mL	99
14) Fluoranthene	13.57	202	317641	0.8076	ug/mL	98
16) Benzo(a)anthracene	15.88	228	109626	0.3693	ug/mL	93
17) Chrysene	15.93	228	119066m	0.3877	ug/mL	
18) Pyrene	13.93	202	290701	0.6434	ug/mL#	88
20) Benzo(b)fluoranthene	17.54	252	136928	0.3582	ug/mL	96
21) Benzo(k)fluoranthene	17.58	252	68806	0.1530	ug/mL	97
22) Benzo(a)pyrene	18.07	252	114486	0.2888	ug/mL	97
24) Indeno(1,2,3-cd)pyrene	20.35	276	81564	0.2579	ug/mL#	94
25) Benzo(g,h,i)perylene	21.00	276	86104	0.2427	ug/mL#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

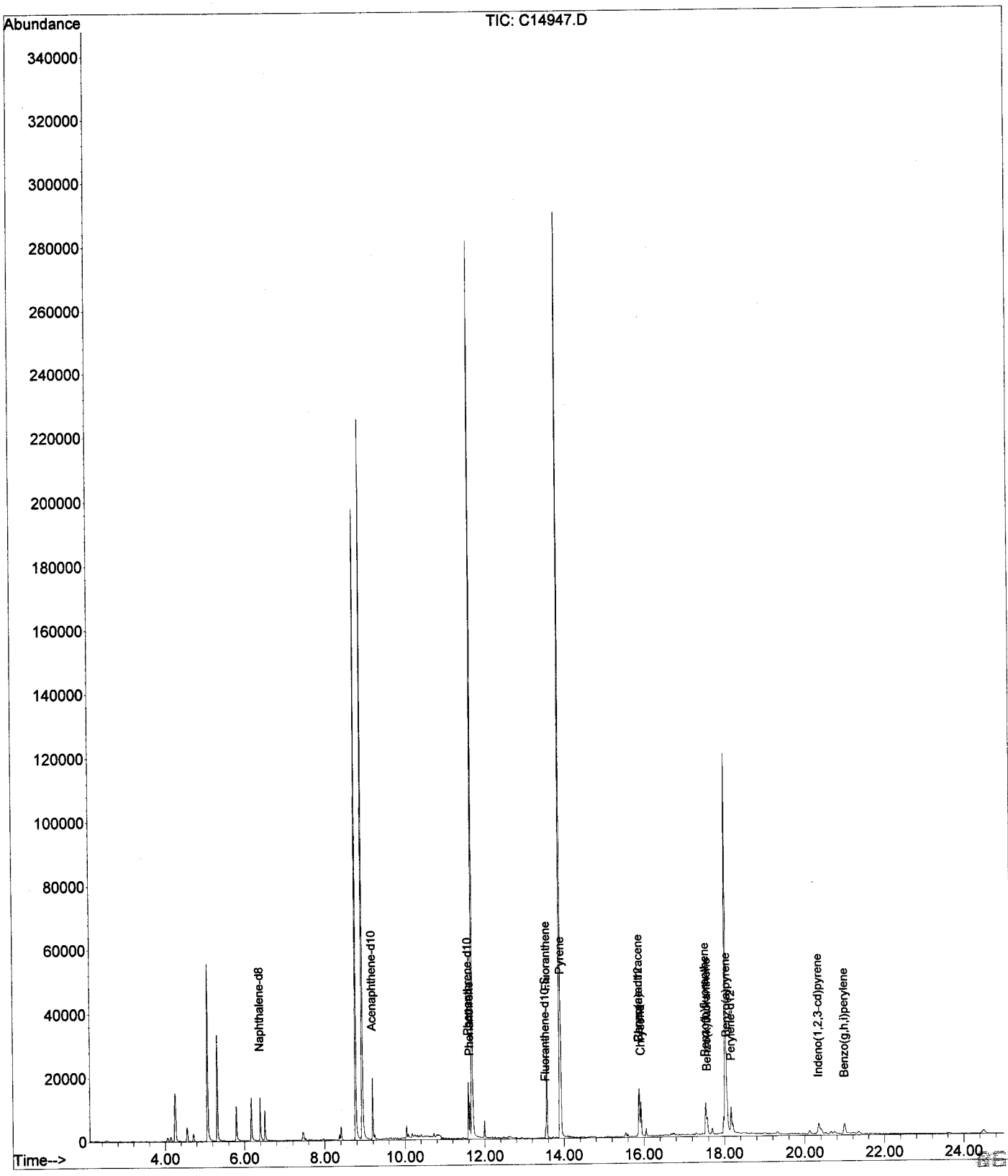
8632

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12
Sample : F4XP5DL 5X
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

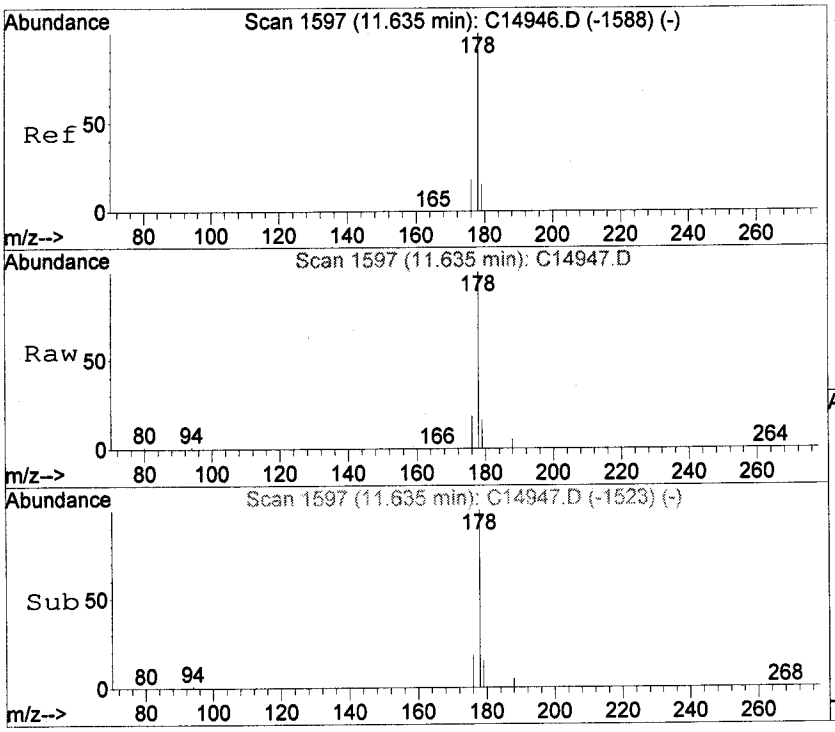
Operator: SK
Inst : C5975

Quant Time: Dec 21 13:43:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:10 2011
Response via : Initial Calibration



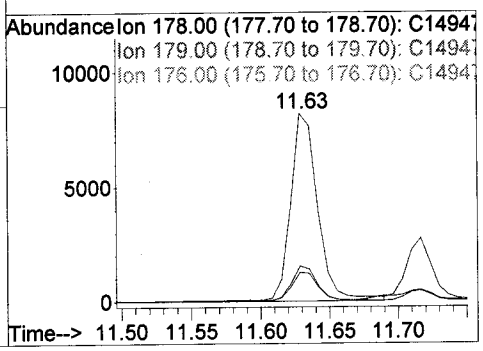
Data File : C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12
Sample : F4XP5DL 5X
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

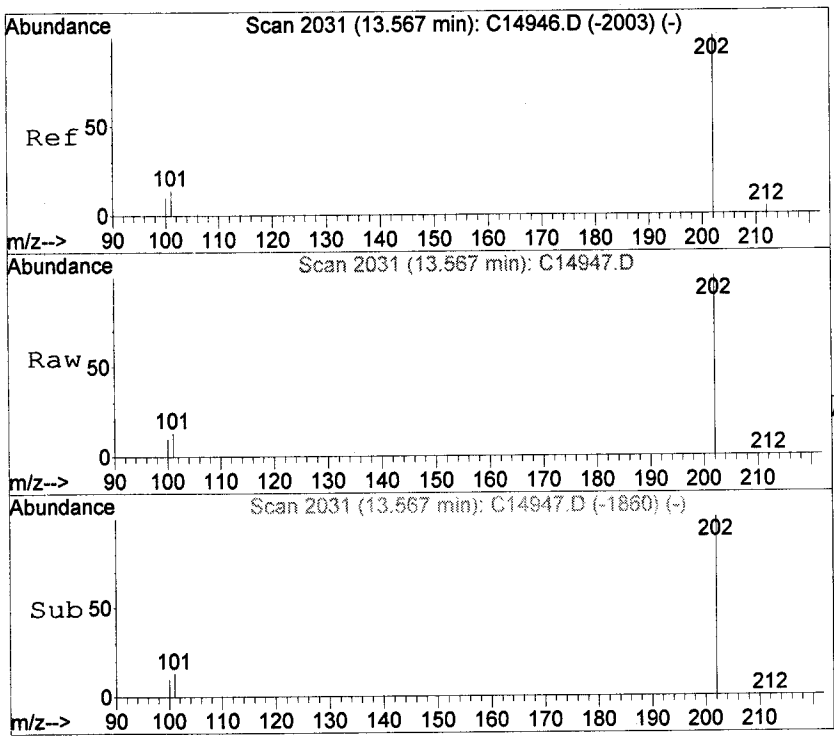
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#11
Phenanthrene
Concen: 0.27 ug/mL
RT: 11.63 min Scan# 1597
Delta R.T. -0.00 min
Integration Range:
Scan=1586 to 1605
R.T.= 11.56 to 11.69 (min)
Tgt Ion:178 Resp: 111726

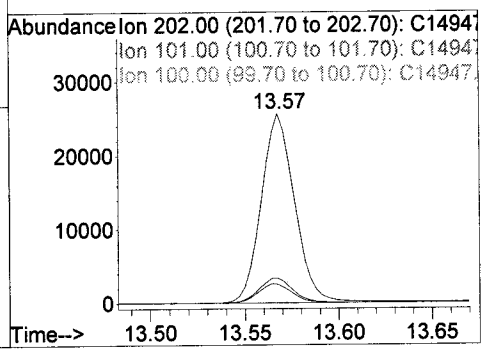
Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4
176	18.6	14.5	21.7





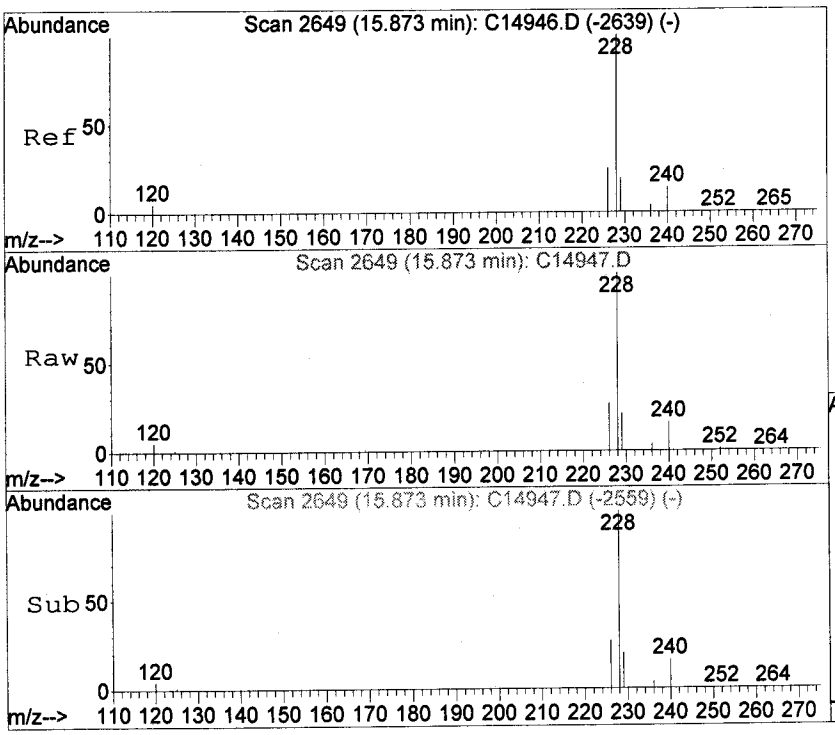
#14
Fluoranthene
Concen: 0.81 ug/mL
RT: 13.57 min Scan# 2031
Delta R.T. 0.00 min
Integration Range:
Scan=2018 to 2050
R.T.= 13.53 to 13.62 (min)
Tgt Ion:202 Resp: 317641

Ion	Ratio	Lower	Upper
202	100		
101	13.7	11.5	17.3
100	10.5	8.8	13.2



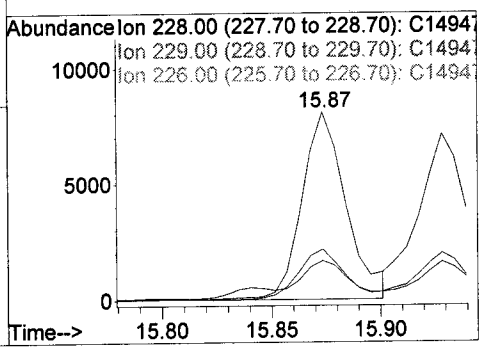
Data File : C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12
Sample : F4XP5DL 5X
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

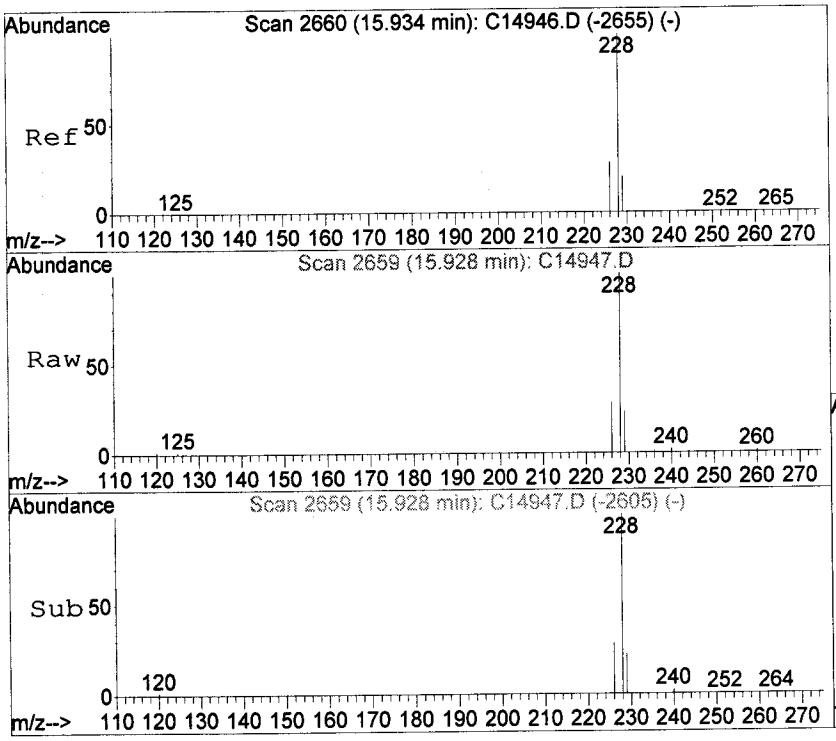
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.37 ug/mL
RT: 15.88 min Scan# 2649
Delta R.T. -0.00 min
Integration Range:
Scan=2639 to 2654
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 109626

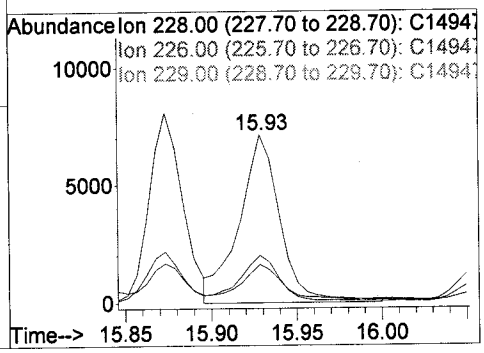
Ion	Ratio	Lower	Upper
228	100		
229	23.0	15.8	23.8
226	29.0	20.5	30.7





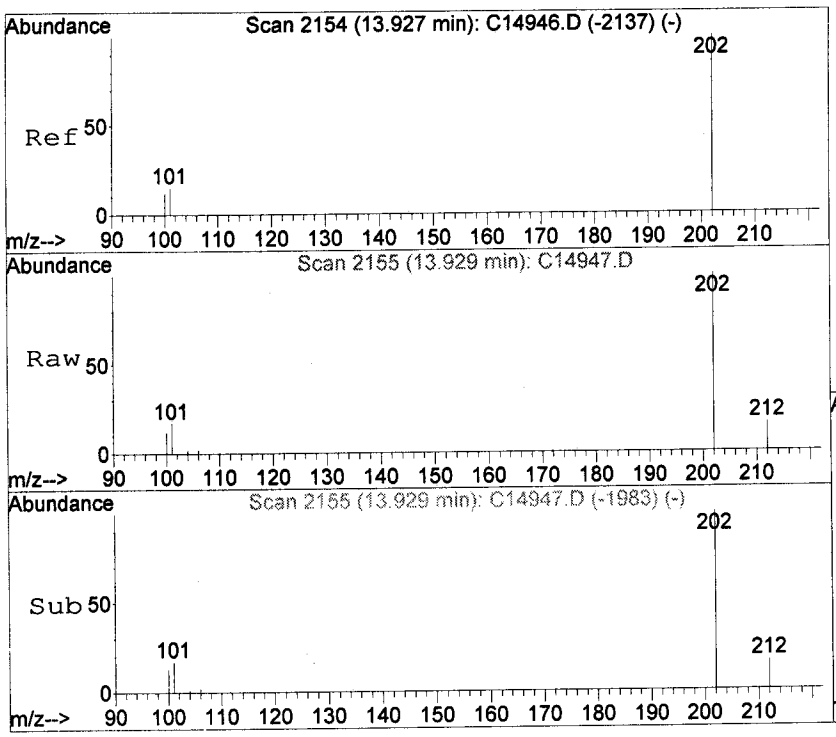
#17
Chrysene
Concen: 0.39 ug/mL m
RT: 15.93 min Scan# 2659
Delta R.T. -0.00 min
Integration Range:
Scan=2653 to 2672
R.T.= 15.90 to 16.00 (min)
Tgt Ion:228 Resp: 119066

Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.8	34.2
229	21.1	15.9	23.9



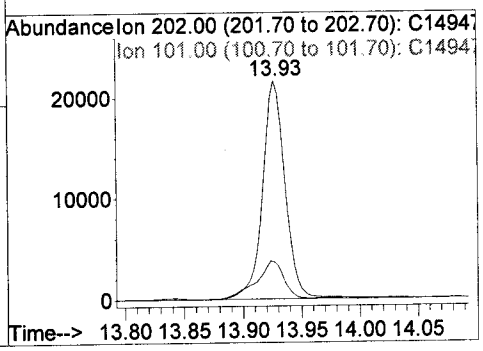
Data File : C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12
Sample : F4XP5DL 5X
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

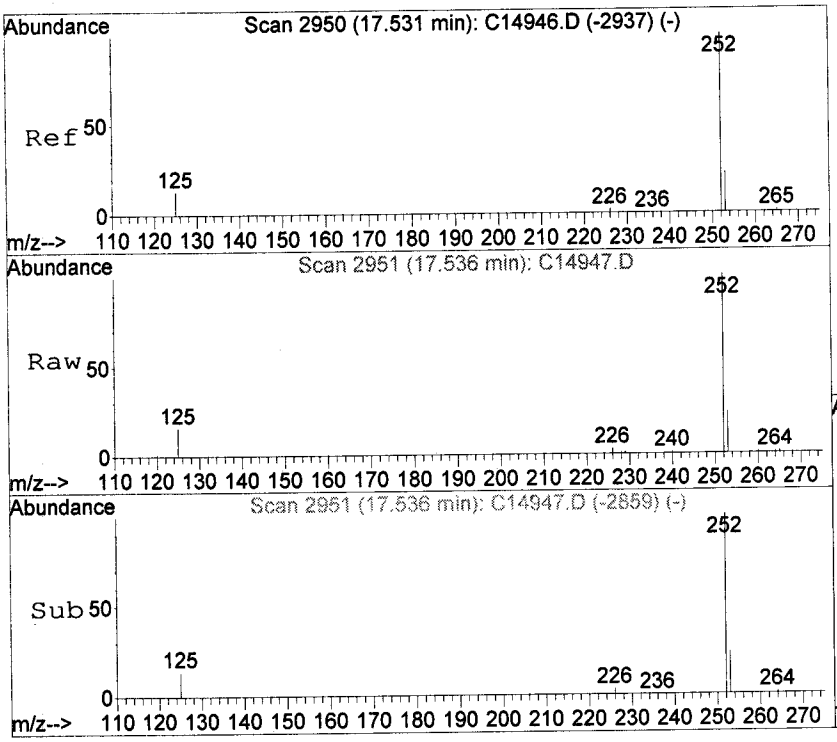
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.64 ug/mL
RT: 13.93 min Scan# 2155
Delta R.T. 0.00 min
Integration Range:
Scan=2134 to 2185
R.T.= 13.87 to 14.02 (min)
Tgt Ion:202 Resp: 290701

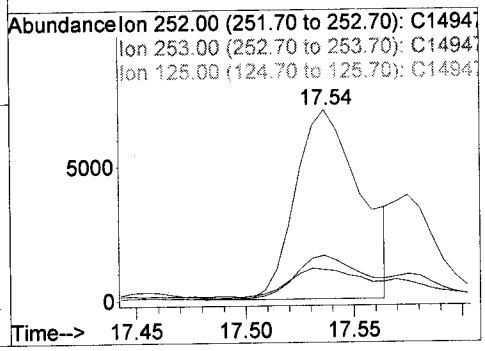
Ion	Ratio	Lower	Upper
202	100		
101	21.8	13.2	19.8#





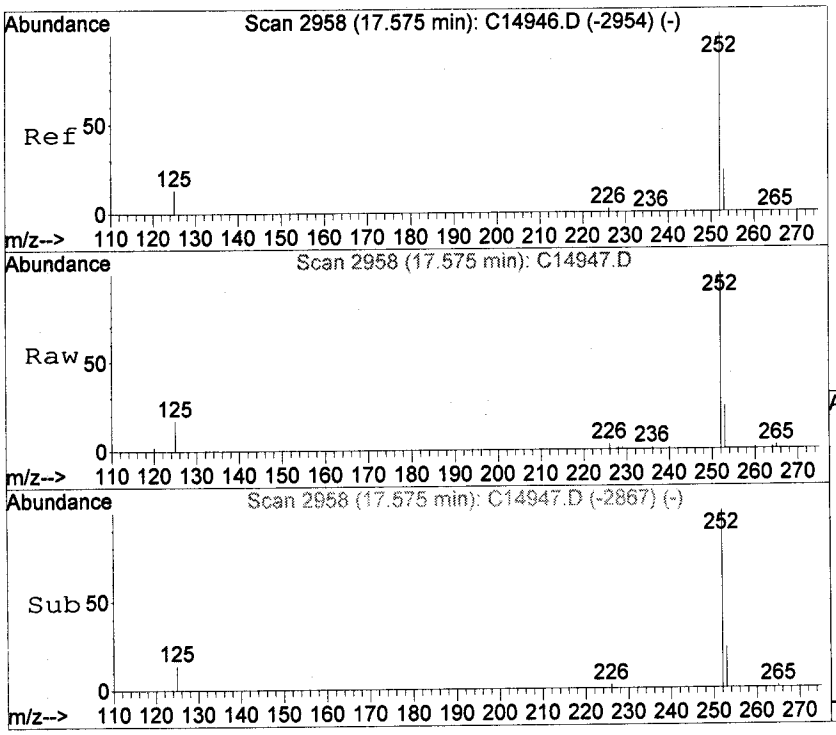
#20
Benzo(b)fluoranthene
Concen: 0.36 ug/mL
RT: 17.54 min Scan# 2951
Delta R.T. 0.01 min
Integration Range:
Scan=2941 to 2956
R.T.= 17.48 to 17.56 (min)
Tgt Ion:252 Resp: 136928

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	17.2	12.3	18.5



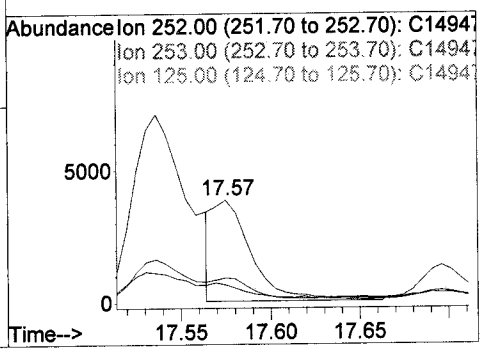
Data File : C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12
Sample : F4XP5DL 5X
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

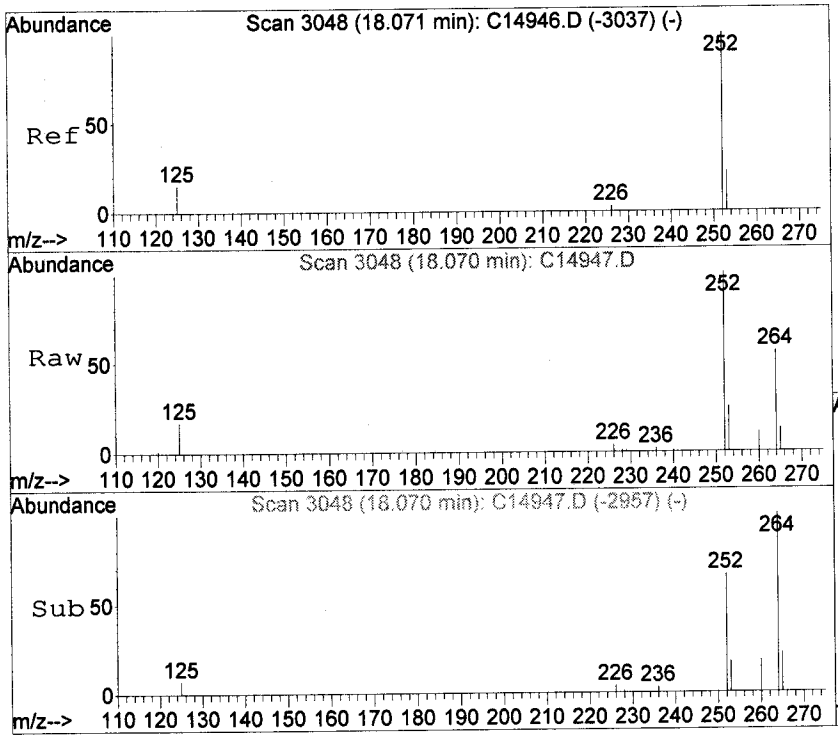
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.15 ug/mL
RT: 17.58 min Scan# 2958
Delta R.T. 0.00 min
Integration Range:
Scan=2956 to 2974
R.T.= 17.56 to 17.66 (min)
Tgt Ion:252 Resp: 68806

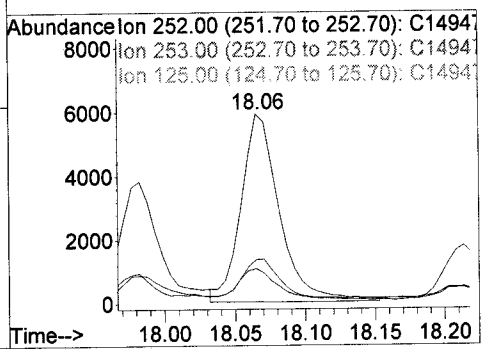
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.7	26.5
125	13.7	12.4	18.6



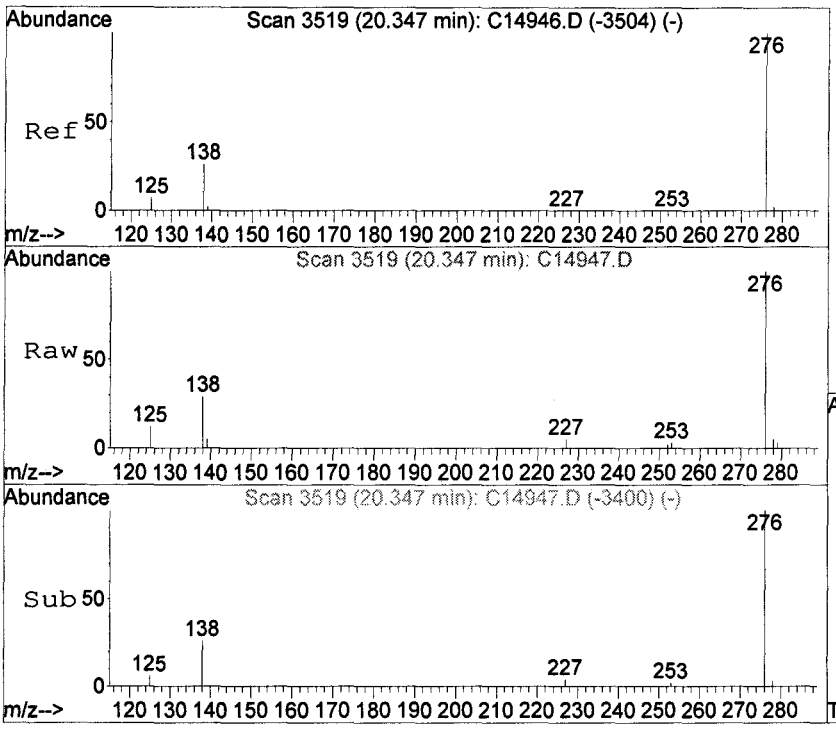


#22
Benzo(a)pyrene
Concen: 0.29 ug/mL
RT: 18.07 min Scan# 3048
Delta R.T. 0.00 min
Integration Range:
Scan=3041 to 3063
R.T.= 18.03 to 18.15 (min)
Tgt Ion:252 Resp: 114486

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	17.5	13.1	19.7

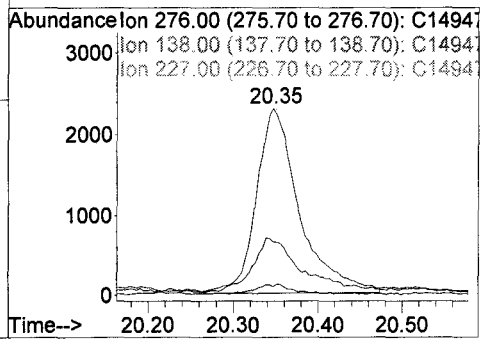


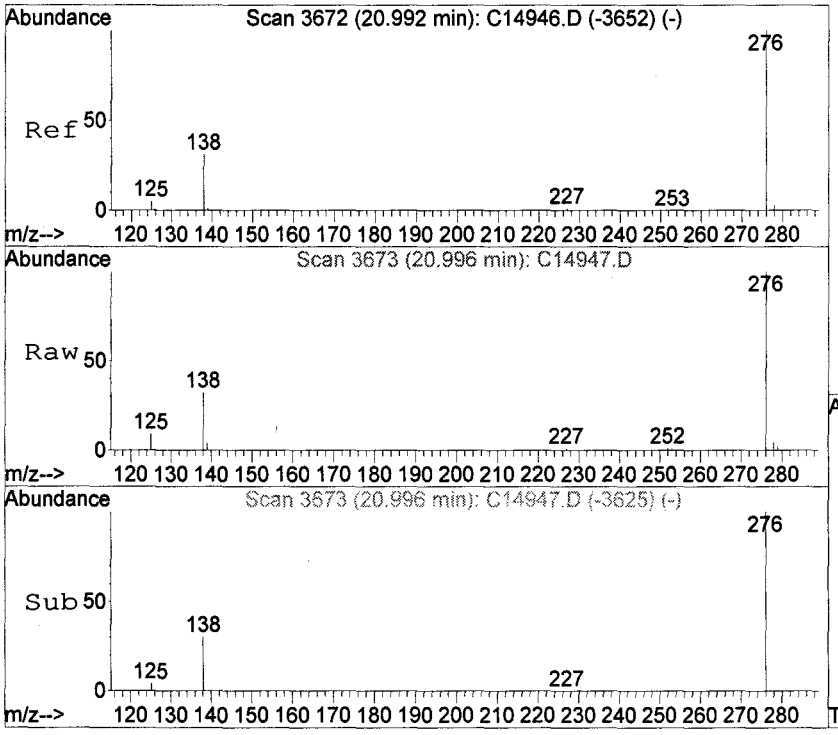
Data File : C:\MSDCHEM\1\DATA\C14947.D Vial: 3
Acq On : 12/20/11 11:12 Operator: SK
Sample : F4XP5DL 5X Inst : C5975
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: LSCINT.E



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.26 ug/mL
RT: 20.35 min Scan# 3519
Delta R.T. 0.00 min
Integration Range:
Scan=3500 to 3549
R.T.= 20.27 to 20.47 (min)
Tgt Ion:276 Resp: 81564

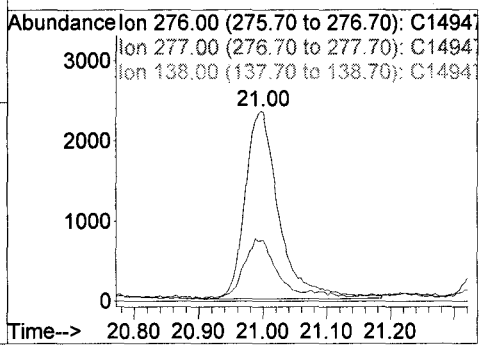
Ion	Ratio	Lower	Upper
276	100		
138	32.7	23.7	35.5
227	5.0	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.24 ug/mL
RT: 21.00 min Scan# 3673
Delta R.T. 0.01 min
Integration Range:
Scan=3652 to 3718
R.T.= 20.91 to 21.19 (min)
Tgt Ion:276 Resp: 86104

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.5	26.2	39.2

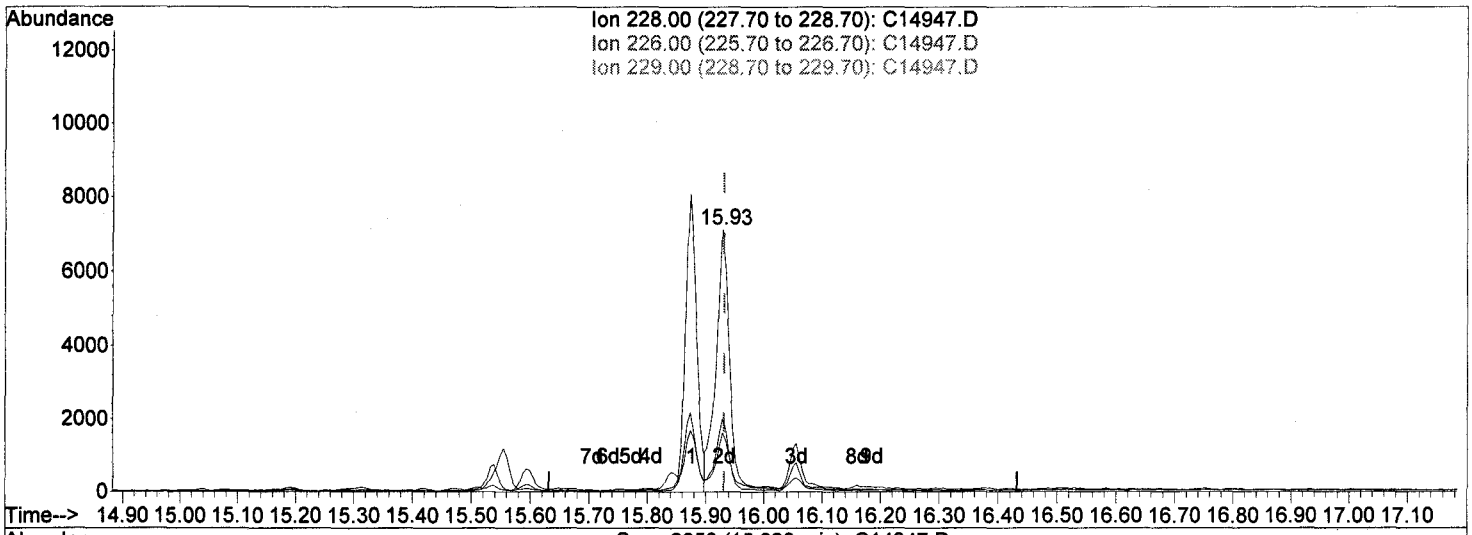


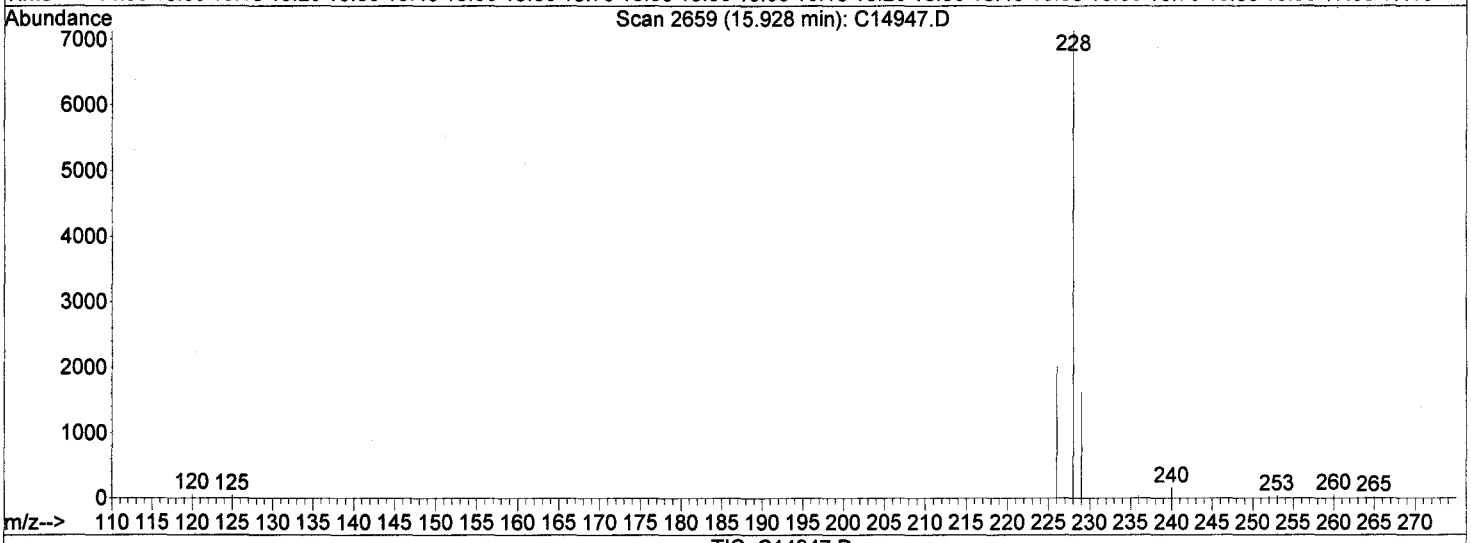
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14947.D
Acq On : 12/20/11 11:12 Operator: SK
Sample : F4XP5DL 5X Inst : C5975
Misc : S-4460.06DL 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 21 13:43:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:10 2011
Response via : Initial Calibration

12/22/11





TIC: C14947.D

(17) Chrysene

15.928min (-0.003) 0.3877ug/mL m

response 119066

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	26.67
229.00	19.90	21.12
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.07

Sample wt/vol: 60.80 (g/mL) G Lab File ID: C14924

Extraction: (Type) SONC

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.2	U
91-57-6	2-Methylnaphthalene	3.2	U
208-96-8	Acenaphthylene	3.2	U
83-32-9	Acenaphthene	3.2	U
86-73-7	Fluorene	3.2	U
87-86-5	Pentachlorophenol	6.5	U
85-01-8	Phenanthrene	3.2	U
120-12-7	Anthracene	3.2	U
206-44-0	Fluoranthene	3.2	U
129-00-0	Pyrene	3.2	U
56-55-3	Benzo(a)anthracene	3.2	U
218-01-9	Chrysene	3.2	U
205-99-2	Benzo(b)fluoranthene	3.2	U
207-08-9	Benzo(k)fluoranthene	3.2	U
50-32-8	Benzo(a)pyrene	3.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.9	J
53-70-3	Dibenzo(a,h)anthracene	3.2	U
191-24-2	Benzo(g,h,i)perylene	5.1	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14924.D
Acq On : 12/15/11 15:16
Sample : F4XP6
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:55:39 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

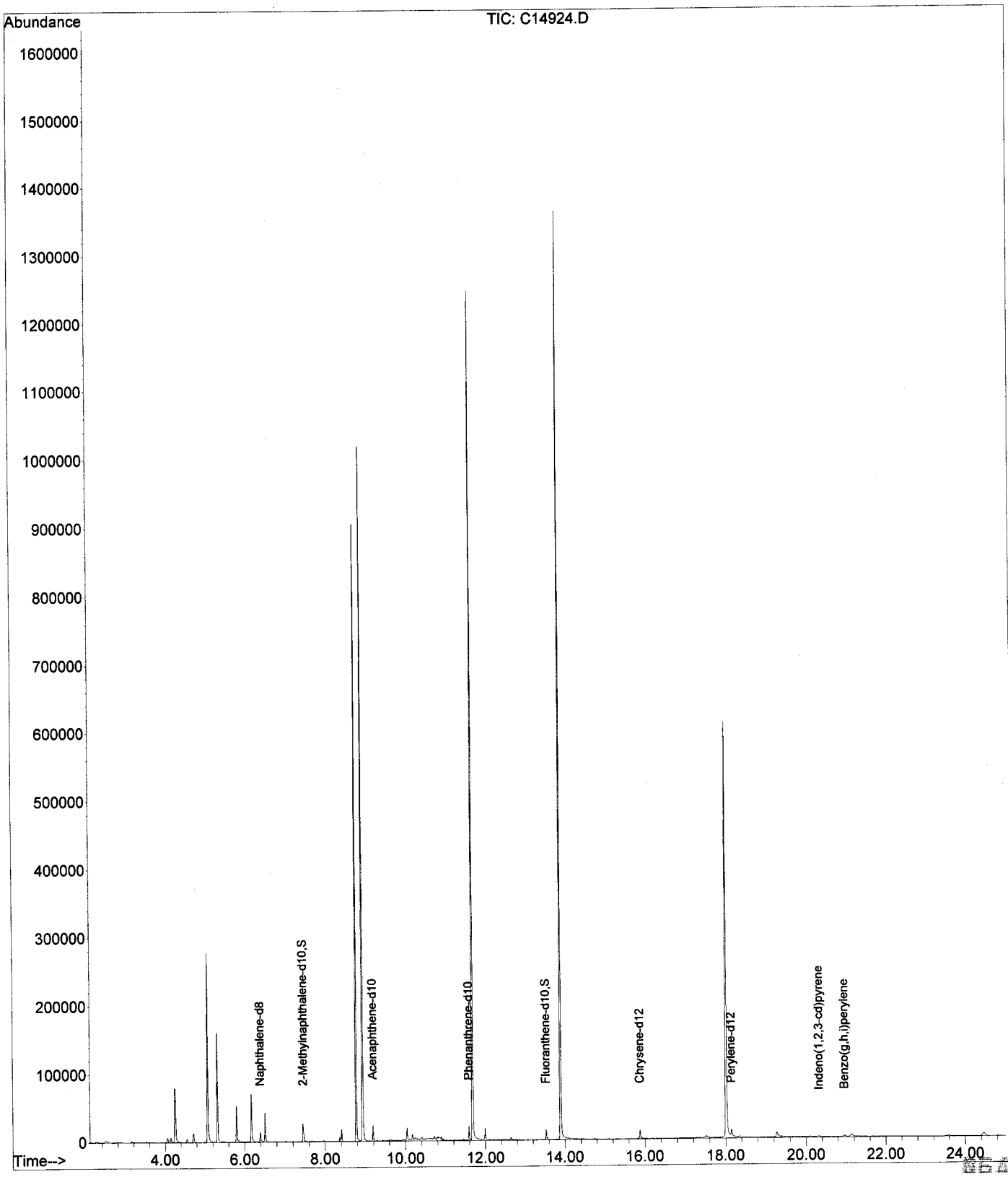
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	166204	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	116304	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	207248	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	121724	0.4000	ug/mL	0.00
19) Perylene-d12	18.15	264	130351m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	78779	0.3068	ug/mL	0.00
Spiked Amount 0.400			Recovery =	76.70%		
13) Fluoranthene-d10	13.53	212	147789	0.3238	ug/mL	0.00
Spiked Amount 0.400			Recovery =	80.95%		
Target Compounds						Qvalue
24) Indeno(1,2,3-cd)pyrene	20.32	276	26512	0.0900	ug/mL#	93
25) Benzo(g,h,i)perylene	20.96	276	51885	0.1570	ug/mL#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

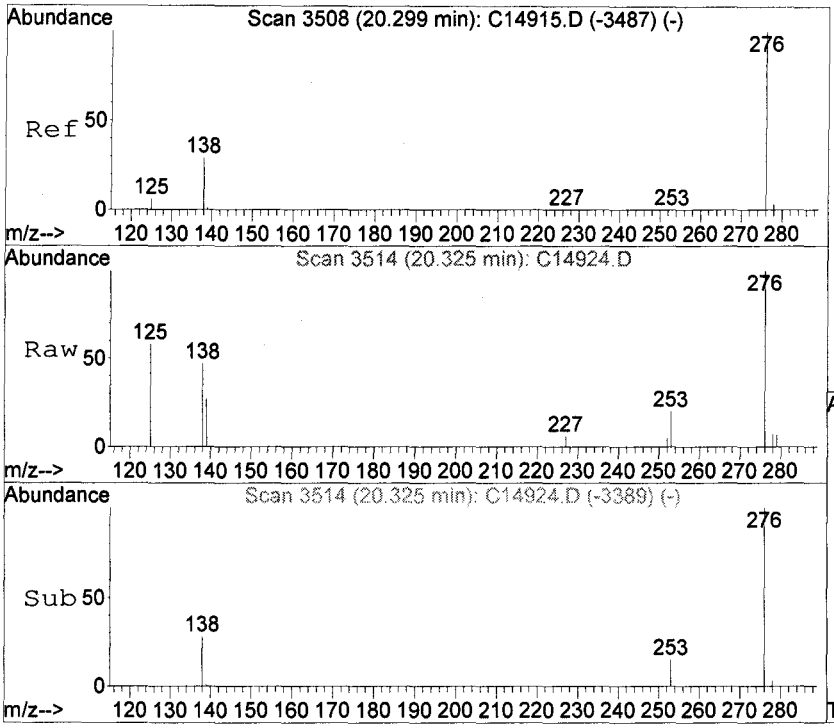
Data File: C:\MSDCHEM\1\DATA\C14924.D
Acq On : 12/15/11 15:16 Operator: SK
Sample : F4XP6 Inst : C5975
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 09:55:39 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



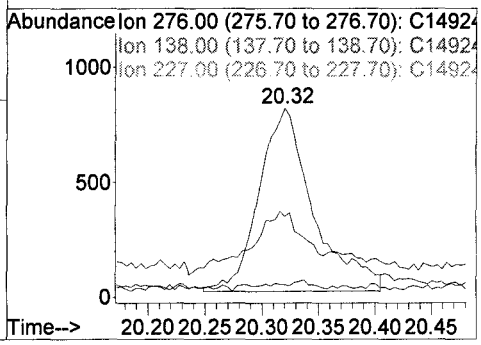
Data File : C:\MSDCHEM\1\DATA\C14924.D
Acq On : 12/15/11 15:16
Sample : F4XP6
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

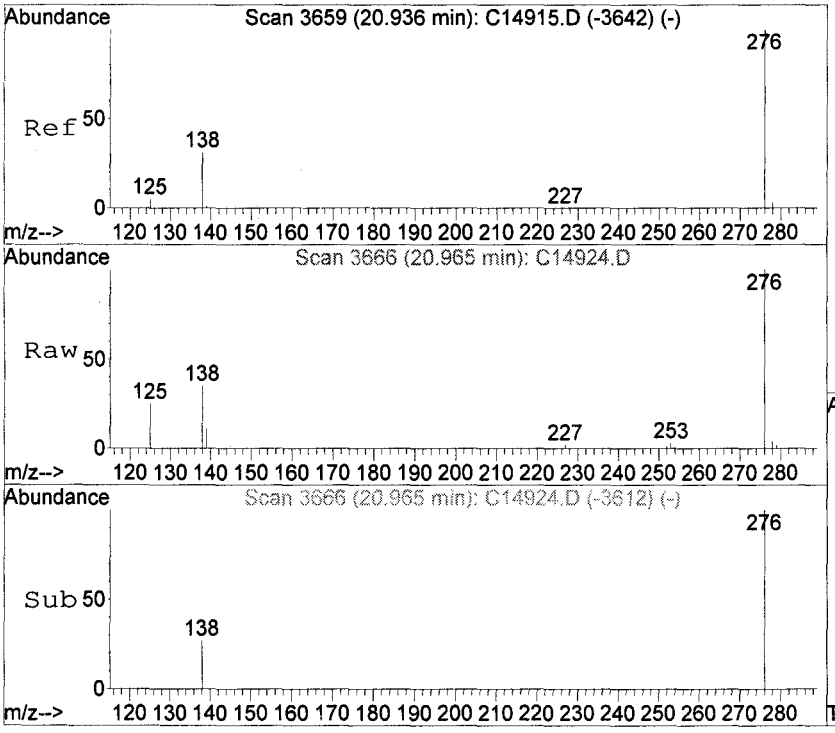
Vial: 11
Operator: SK
Inst : C5975
Multiplr: 1.00



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.09 ug/mL
RT: 20.32 min Scan# 3514
Delta R.T. 0.02 min
Integration Range:
Scan=3496 to 3533
R.T.= 20.25 to 20.40 (min)
Tgt Ion:276 Resp: 26512

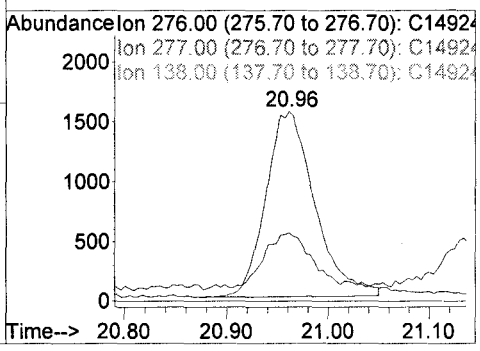
Ion	Ratio	Lower	Upper
276	100		
138	33.3	23.7	35.5
227	1.6	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.16 ug/mL
RT: 20.96 min Scan# 3666
Delta R.T. 0.03 min
Integration Range:
Scan=3645 to 3686
R.T.= 20.88 to 21.05 (min)
Tgt Ion:276 Resp: 51885

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.9	26.2	39.2

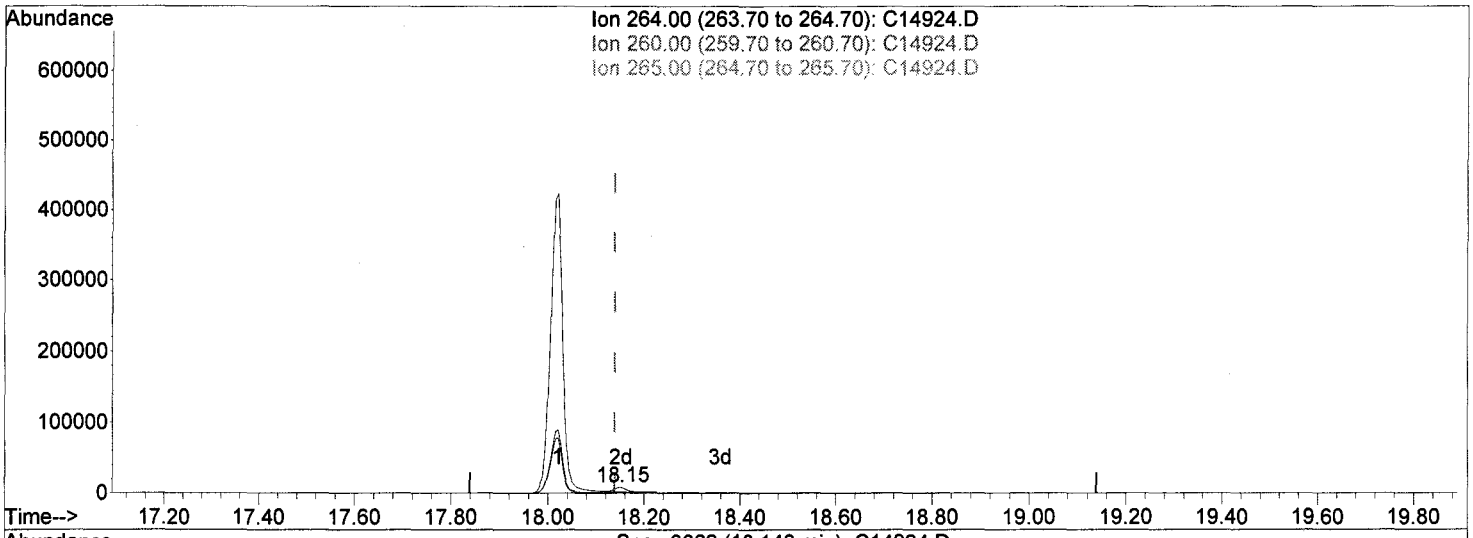


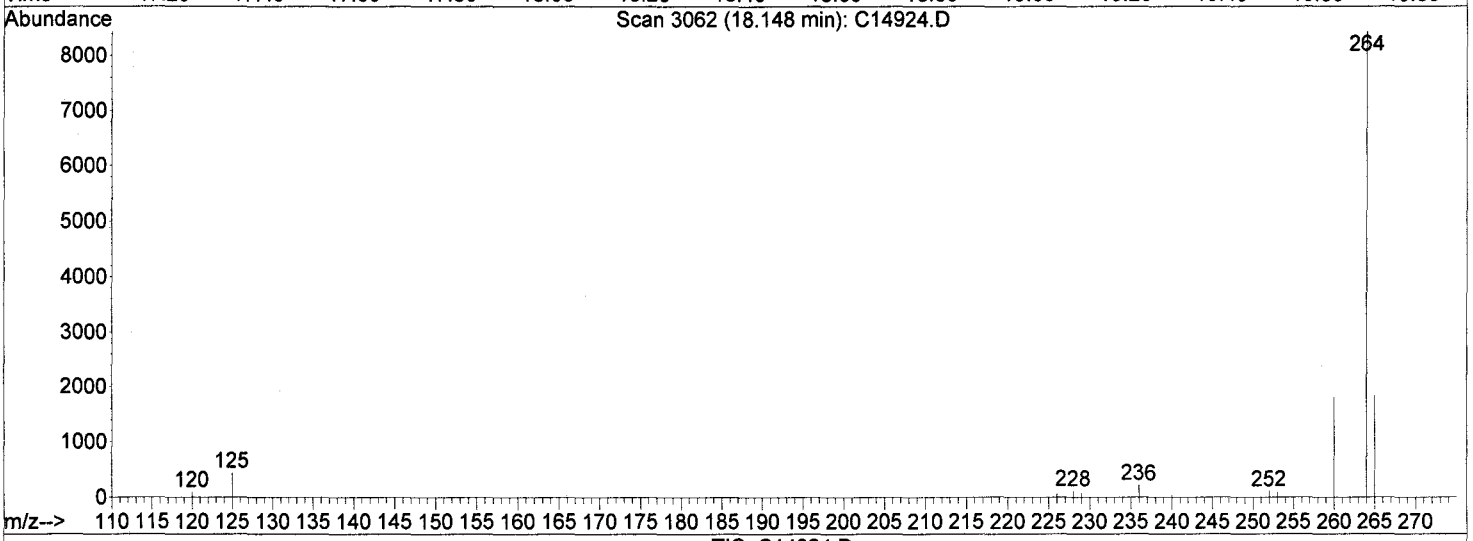
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14924.D
Acq On : 12/15/11 15:16 Operator: SK
Sample : F4XP6 Inst : C5975
Misc : S-4460.07 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 09:55:39 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/15/11





TIC: C14924.D

(19) Perylene-d12

18.148min (+0.008) 0.4000ug/mL m

response 130351

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1062.61#
265.00	21.10	1217.02#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.01

Sample wt/vol: 60.10 (g/mL) G Lab File ID: C14926

Extraction: (Type) SONC

% Moisture: 46 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	U
91-57-6	2-Methylnaphthalene	3.1	U
208-96-8	Acenaphthylene	3.1	U
83-32-9	Acenaphthene	3.1	U
86-73-7	Fluorene	3.1	U
87-86-5	Pentachlorophenol	6.2	U
85-01-8	Phenanthrene	3.1	U
120-12-7	Anthracene	3.1	U
206-44-0	Fluoranthene	3.1	U
129-00-0	Pyrene	3.1	U
56-55-3	Benzo(a)anthracene	3.1	U
218-01-9	Chrysene	3.1	U
205-99-2	Benzo(b)fluoranthene	3.1	U
207-08-9	Benzo(k)fluoranthene	3.1	U
50-32-8	Benzo(a)pyrene	3.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.1	U
53-70-3	Dibenzo(a,h)anthracene	3.1	U
191-24-2	Benzo(g,h,i)perylene	3.1	U

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14926.D
Acq On : 12/15/11 16:18
Sample : F4XP7
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:56:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.39	136	167341	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.19	164	119099	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.59	188	212090	0.4000 ug/mL	0.00
15) Chrysene-d12	15.88	240	116501	0.4000 ug/mL	0.00
19) Perylene-d12	18.15	264	133323m	0.4000 ug/mL	0.01
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.47	152	84811	0.3281 ug/mL	0.00
Spiked Amount 0.400			Recovery =	82.02%	
13) Fluoranthene-d10	13.53	212	145789	0.3121 ug/mL	0.00
Spiked Amount 0.400			Recovery =	78.02%	

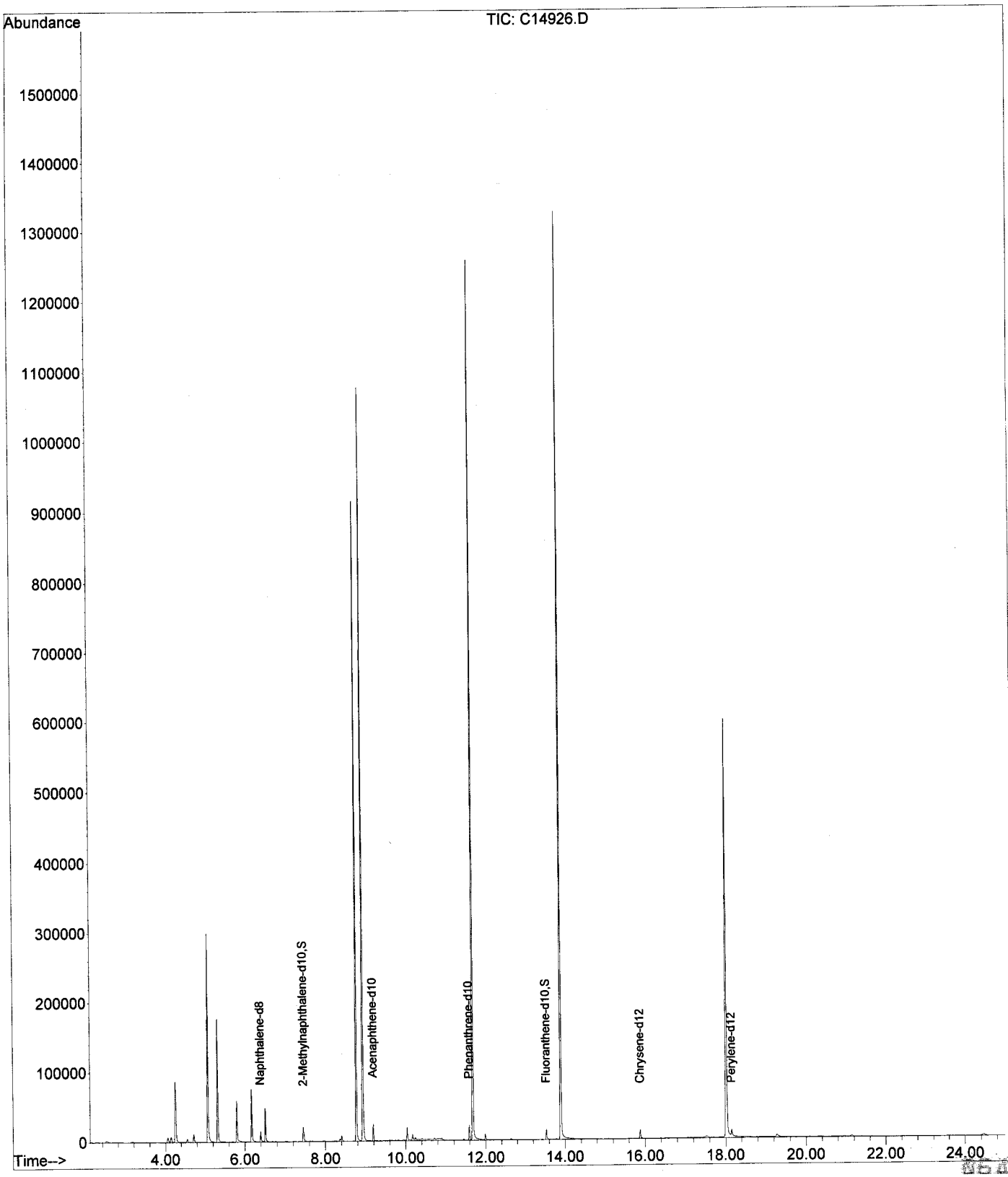
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14926.D
Acq On : 12/15/11 16:18 Operator: SK
Sample : F4XP7 Inst : C5975
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 09:56:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

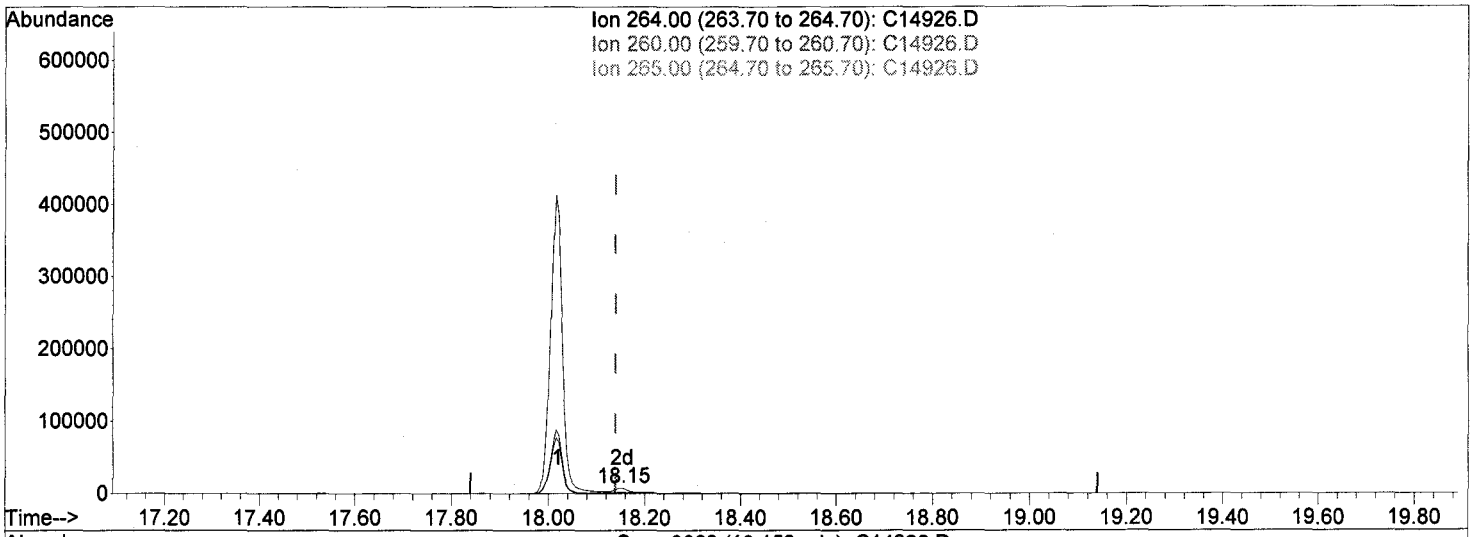


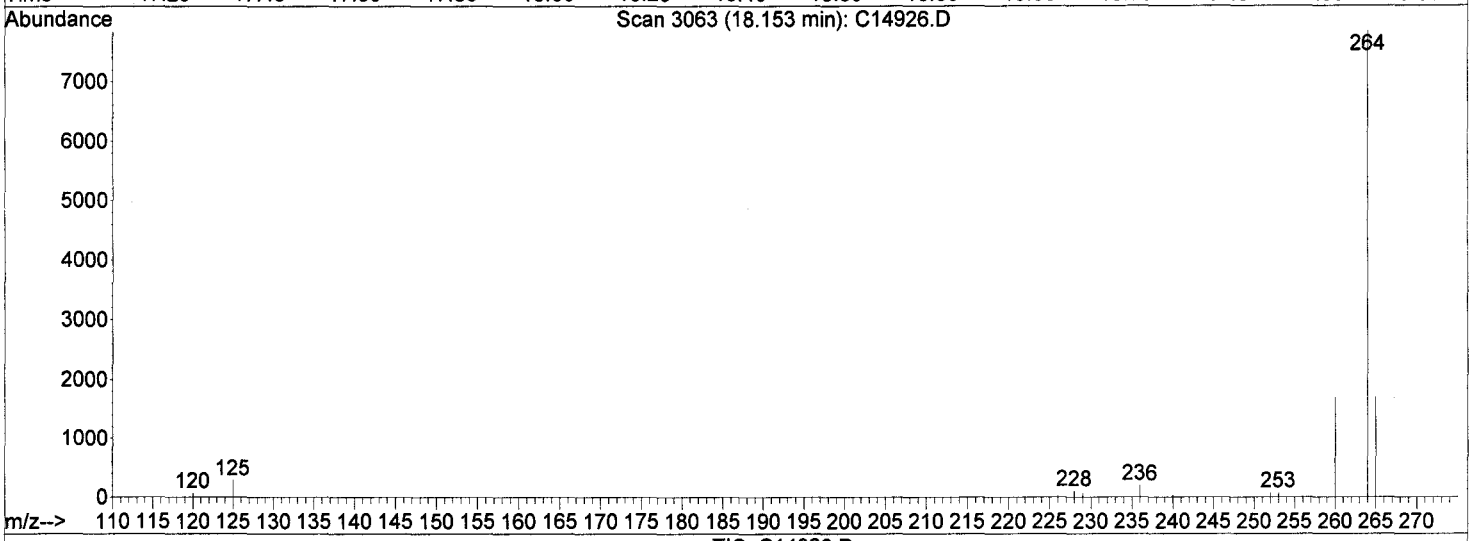
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14926.D
Acq On : 12/15/11 16:18 Operator: SK
Sample : F4XP7 Inst : C5975
Misc : S-4465.01 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 19 09:56:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11





TIC: C14926.D

(19) Perylene-d12

18.153min (+0.014) 0.4000ug/mL m

response 133323

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	985.77#
265.00	21.10	1122.67#
0.00	0.00	0.00

0648

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.02

Sample wt/vol: 60.80 (g/mL) G Lab File ID: C14927

Extraction: (Type) SONC

% Moisture: 44 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.9	U
91-57-6	2-Methylnaphthalene	2.9	U
208-96-8	Acenaphthylene	2.9	U
83-32-9	Acenaphthene	2.9	U
86-73-7	Fluorene	2.9	U
87-86-5	Pentachlorophenol	5.9	U
85-01-8	Phenanthrene	4.9	
120-12-7	Anthracene	3.1	
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	14	
56-55-3	Benzo(a)anthracene	8.3	
218-01-9	Chrysene	9.3	
205-99-2	Benzo(b)fluoranthene	8.8	
207-08-9	Benzo(k)fluoranthene	3.3	
50-32-8	Benzo(a)pyrene	7.4	
193-39-5	Indeno(1,2,3-cd)pyrene	5.7	
53-70-3	Dibenzo(a,h)anthracene	2.9	U
191-24-2	Benzo(g,h,i)perylene	6.6	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49 Operator: SK
Sample : F4XP8 Inst : C5975
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 09:57:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11

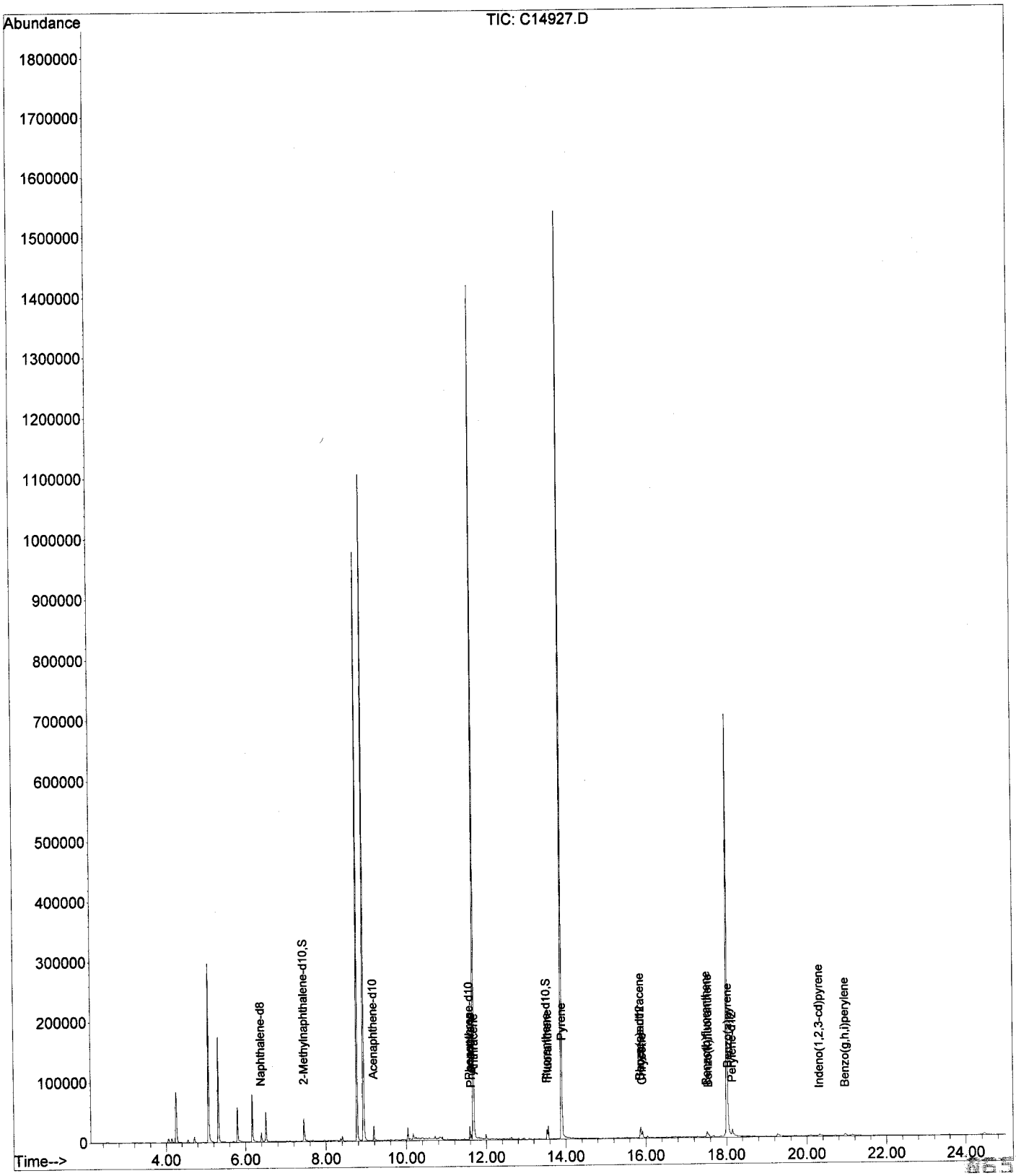
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.39	136	168154	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.19	164	124133	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.59	188	225224	0.4000 ug/mL	0.00
15) Chrysene-d12	15.88	240	132980	0.4000 ug/mL	0.00
19) Perylene-d12	18.15	264	142915m	0.4000 ug/mL	0.01
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.47	152	90561	0.3486 ug/mL	0.00
Spiked Amount 0.400			Recovery =	87.15%	
13) Fluoranthene-d10	13.53	212	167583	0.3378 ug/mL	0.00
Spiked Amount 0.400			Recovery =	84.45%	
Target Compounds					Qvalue
11) Phenanthrene	11.63	178	84919	0.1657 ug/mL#	94
12) Anthracene	11.71	178	55507	0.1070 ug/mL#	62
14) Fluoranthene	13.56	202	227442	0.4646 ug/mL	99
16) Benzo(a)anthracene	15.87	228	105442	0.2831 ug/mL#	80
17) Chrysene	15.92	228	121403	0.3151 ug/mL#	83
18) Pyrene	13.92	202	263151	0.4642 ug/mL#	90
20) Benzo(b)fluoranthene	17.52	252	117549	0.3012 ug/mL#	84
21) Benzo(k)fluoranthene	17.56	252	51481	0.1121 ug/mL	98
22) Benzo(a)pyrene	18.06	252	102129	0.2523 ug/mL	96
24) Indeno(1,2,3-cd)pyrene	20.32	276	62811	0.1945 ug/mL#	91
25) Benzo(g,h,i)perylene	20.96	276	80999	0.2236 ug/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

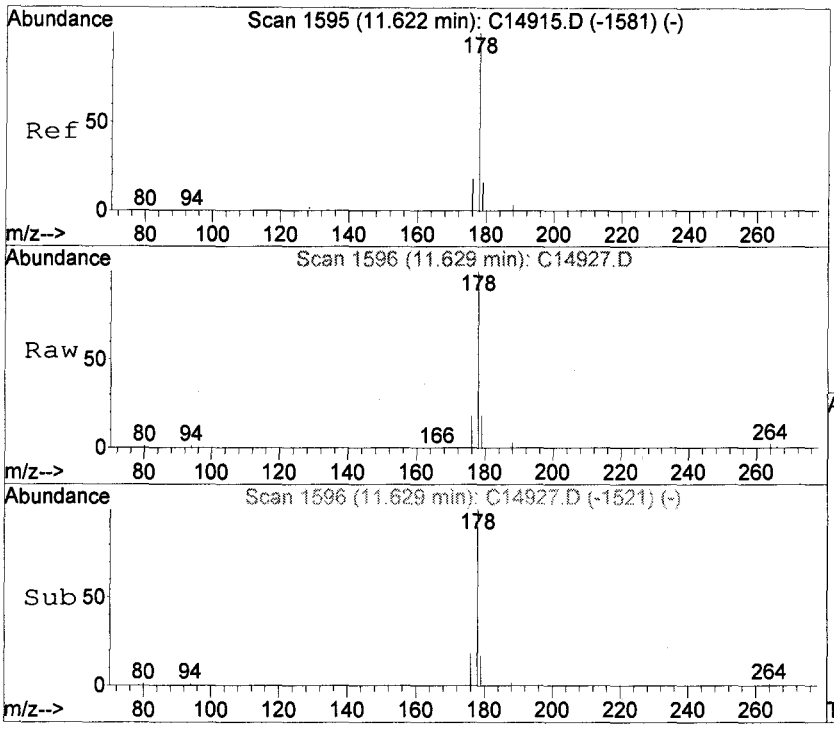
Data File: C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49 Operator: SK
Sample : F4XP8 Inst : C5975
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 09:57:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



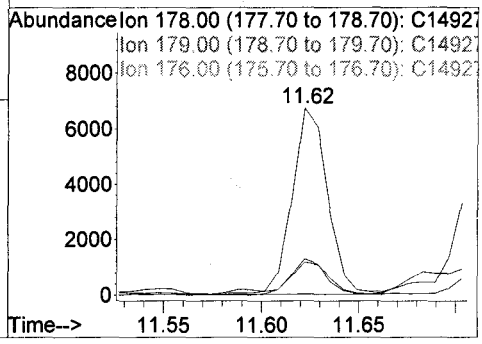
Data File : C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49
Sample : F4XP8
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

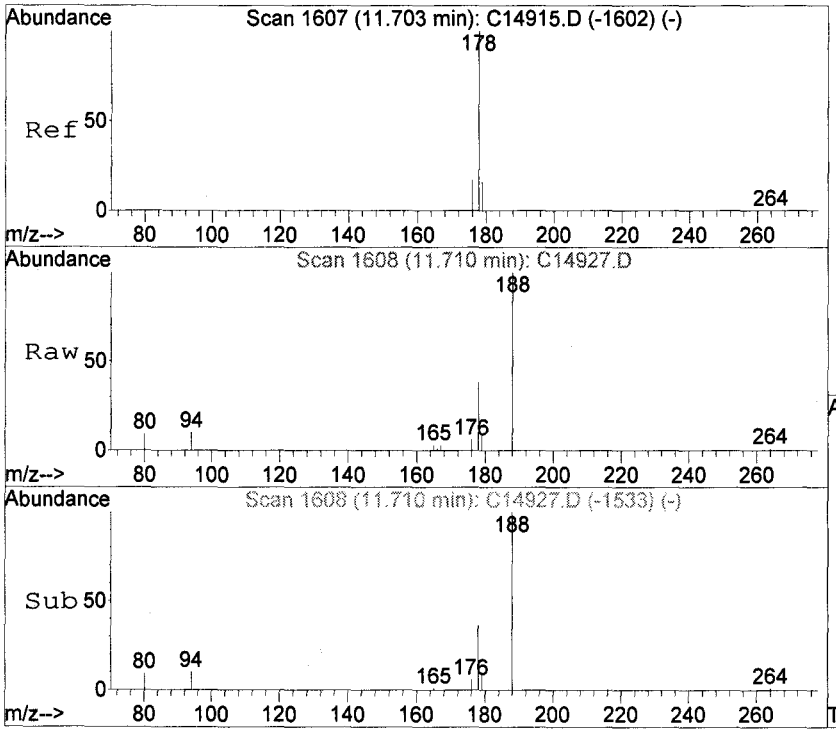
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#11
Phenanthrene
Concen: 0.17 ug/mL
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Integration Range:
Scan=1587 to 1601
R.T.= 11.57 to 11.66 (min)
Tgt Ion:178 Resp: 84919

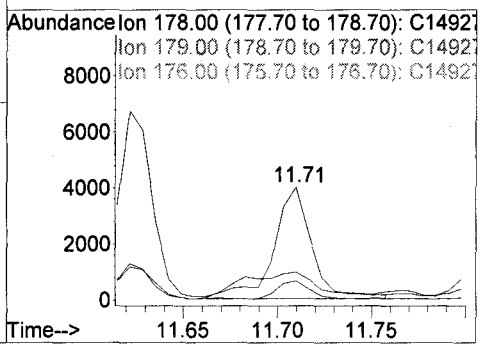
Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.2	18.4#
176	18.9	14.5	21.7





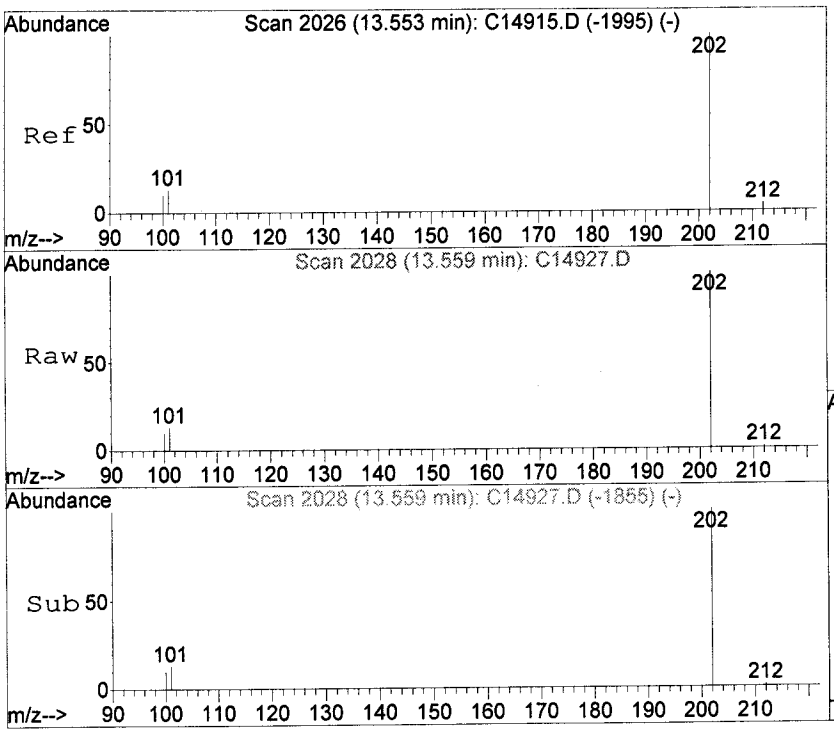
#12
Anthracene
Concen: 0.11 ug/mL
RT: 11.71 min Scan# 1608
Delta R.T. 0.01 min
Integration Range:
Scan=1601 to 1615
R.T.= 11.66 to 11.76 (min)
Tgt Ion:178 Resp: 55507

Ion	Ratio	Lower	Upper
178	100		
179	47.2	12.4	18.6#
176	15.5	13.8	20.8



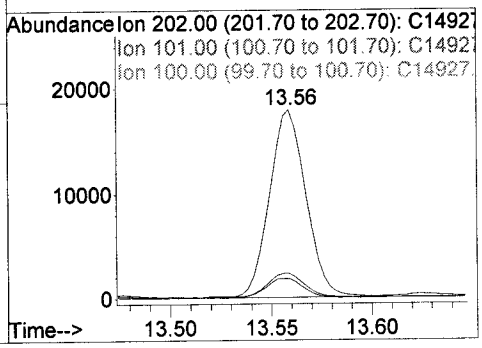
Data File : C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49
Sample : F4XP8
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

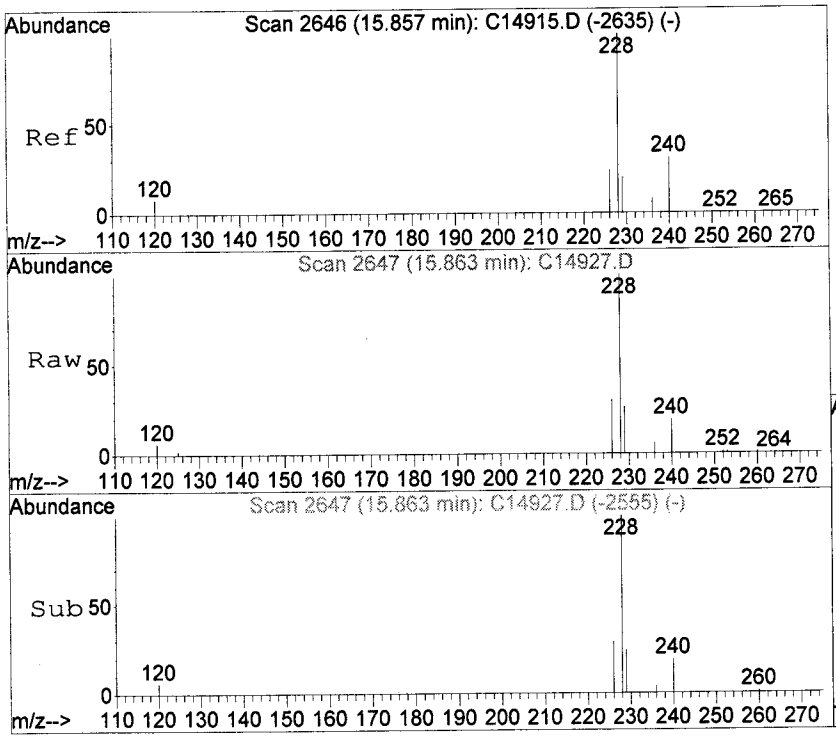
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#14
Fluoranthene
Concen: 0.46 ug/mL
RT: 13.56 min Scan# 2028
Delta R.T. 0.01 min
Integration Range:
Scan=2014 to 2044
R.T.= 13.52 to 13.61 (min)
Tgt Ion:202 Resp: 227442

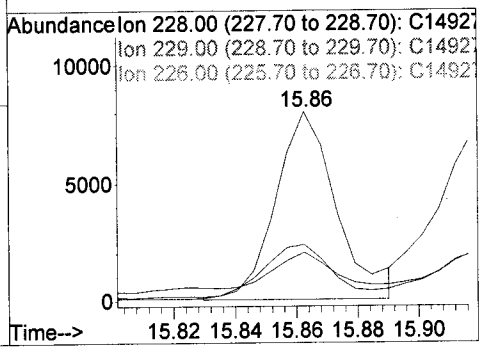
Ion	Ratio	Lower	Upper
202	100		
101	13.7	11.5	17.3
100	10.9	8.8	13.2





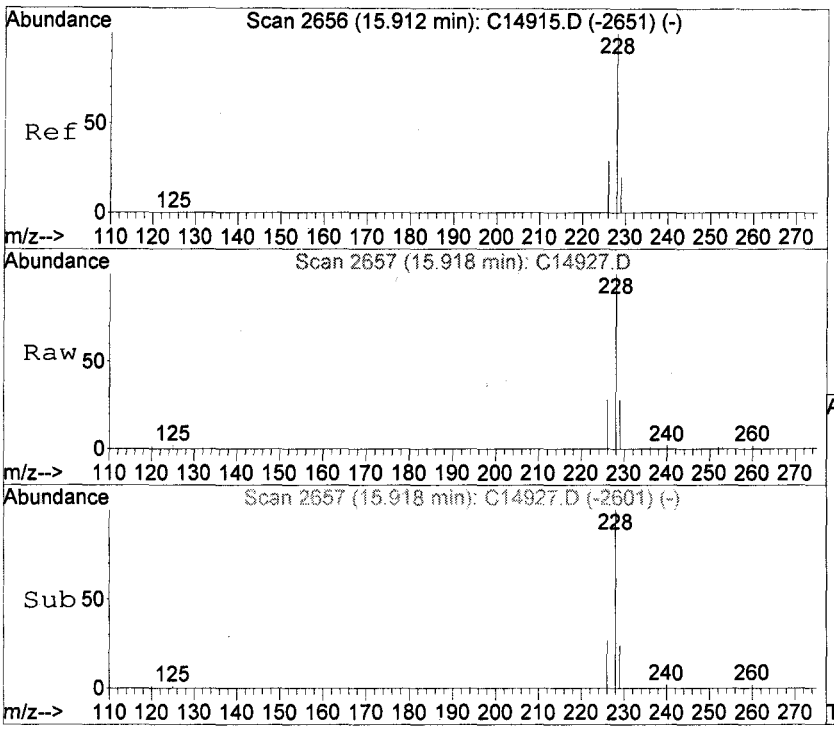
#16
Benzo(a)anthracene
Concen: 0.28 ug/mL
RT: 15.87 min Scan# 2647
Delta R.T. 0.01 min
Integration Range:
Scan=2641 to 2652
R.T.= 15.83 to 15.89 (min)
Tgt Ion:228 Resp: 105442

Ion	Ratio	Lower	Upper
228	100		
229	29.0	15.8	23.8#
226	35.5	20.5	30.7#



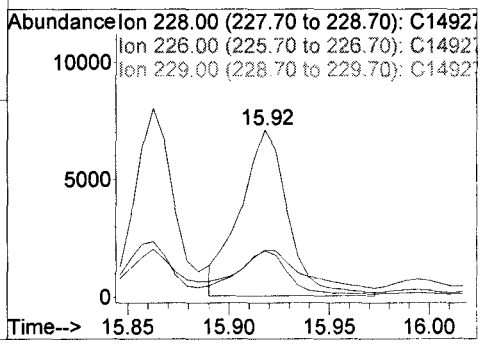
Data File : C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49
Sample : F4XP8
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

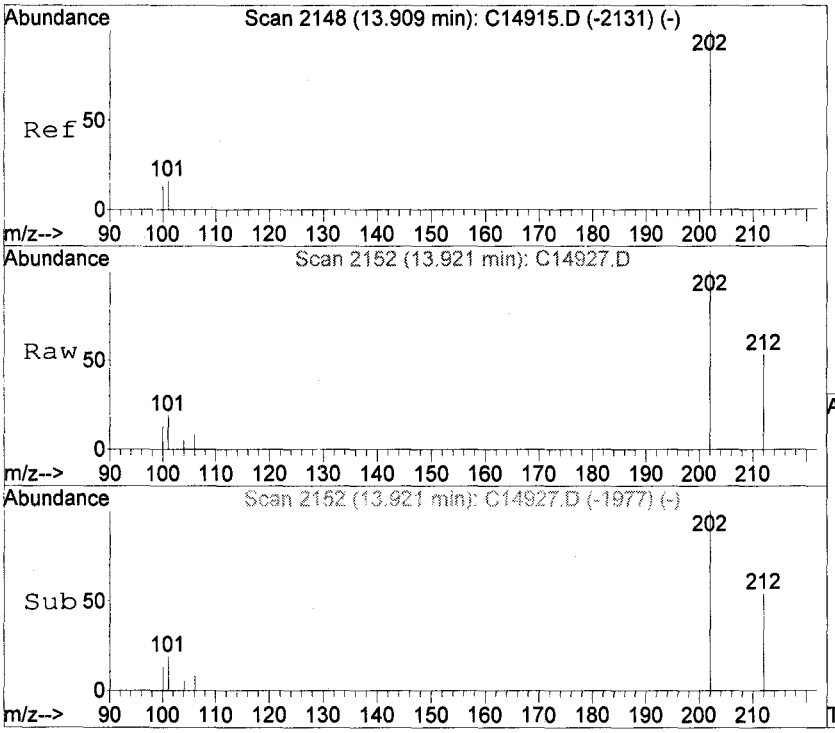
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#17
Chrysene
Concen: 0.32 ug/mL
RT: 15.92 min Scan# 2657
Delta R.T. 0.01 min
Integration Range:
Scan=2652 to 2667
R.T.= 15.89 to 15.97 (min)
Tgt Ion:228 Resp: 121403

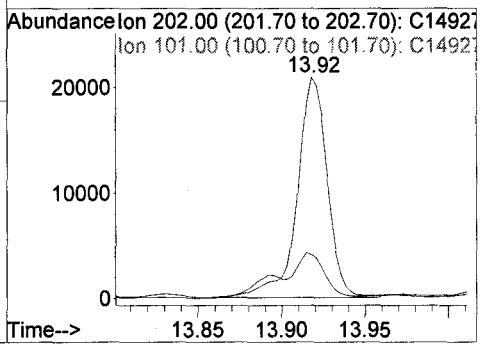
Ion	Ratio	Lower	Upper
228	100		
226	30.3	22.8	34.2
229	36.8	15.9	23.9#





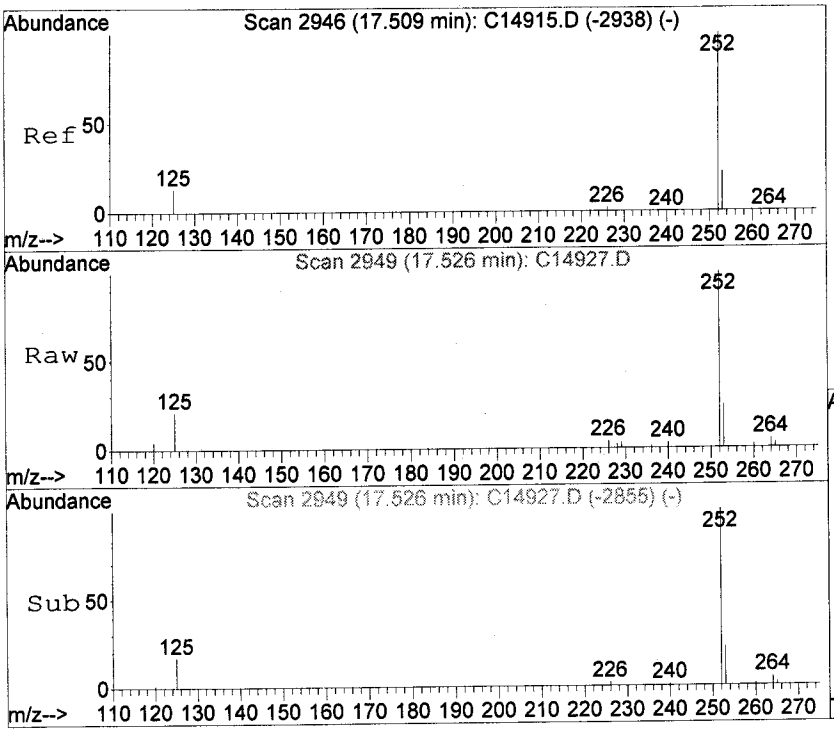
#18
Pyrene
Concen: 0.46 ug/mL
RT: 13.92 min Scan# 2152
Delta R.T. 0.01 min
Integration Range:
Scan=2129 to 2165
R.T.= 13.85 to 13.96 (min)
Tgt Ion:202 Resp: 263151

Ion	Ratio	Lower	Upper
202	100		
101	20.7	13.2	19.8#



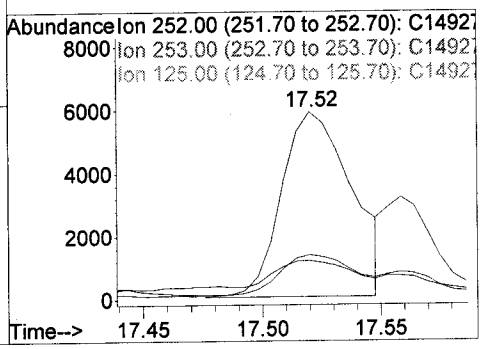
Data File : C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49
Sample : F4XP8
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

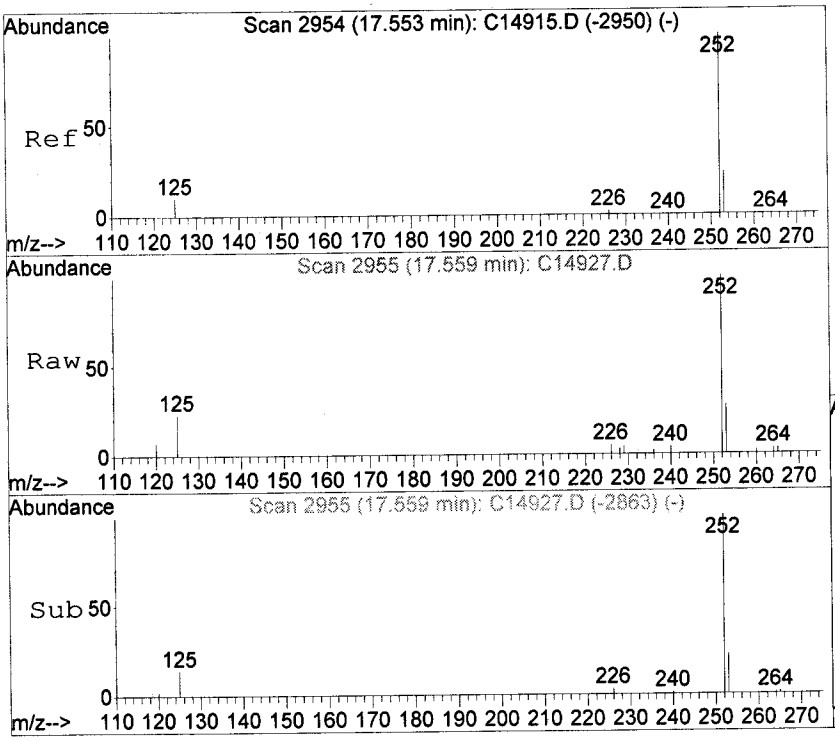
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#20
Benzo(b)fluoranthene
Concen: 0.30 ug/mL
RT: 17.52 min Scan# 2949
Delta R.T. 0.01 min
Integration Range:
Scan=2940 to 2953
R.T.= 17.48 to 17.55 (min)
Tgt Ion:252 Resp: 117549

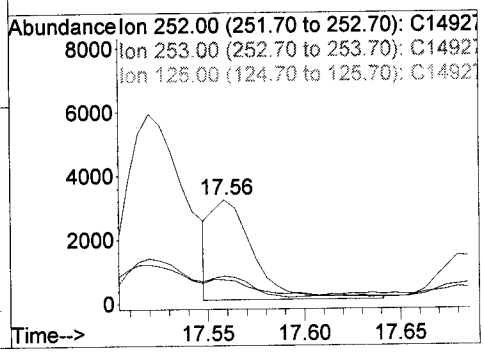
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	29.5	12.3	18.5#





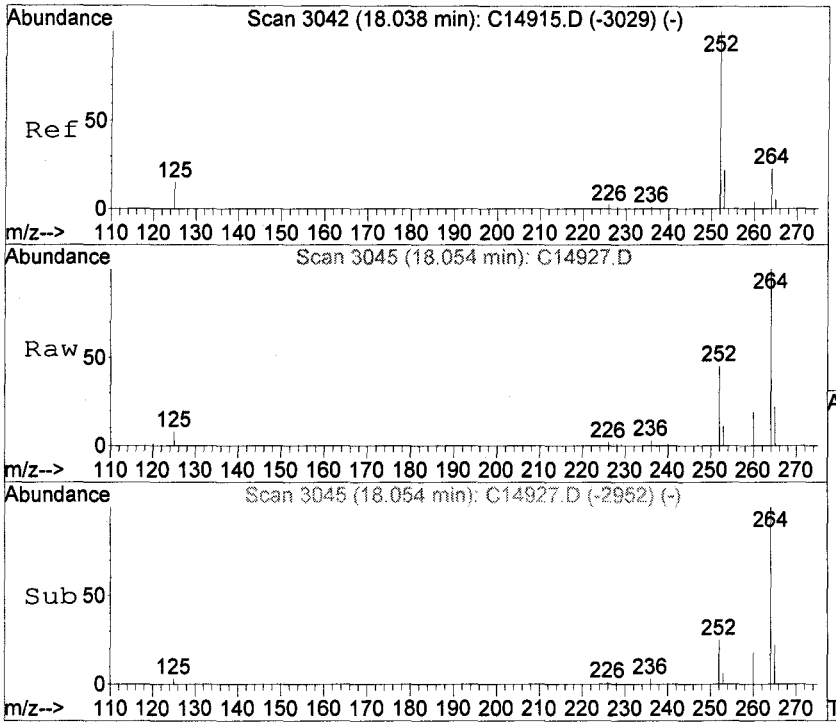
#21
Benzo(k)fluoranthene
Concen: 0.11 ug/mL
RT: 17.56 min Scan# 2955
Delta R.T. 0.01 min
Integration Range:
Scan=2953 to 2970
R.T.= 17.55 to 17.64 (min)
Tgt Ion:252 Resp: 51481

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	17.2	12.4	18.6



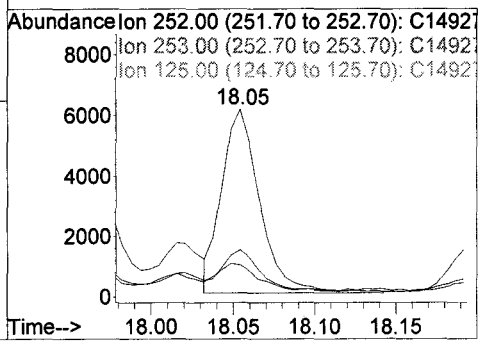
Data File : C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49
Sample : F4XP8
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

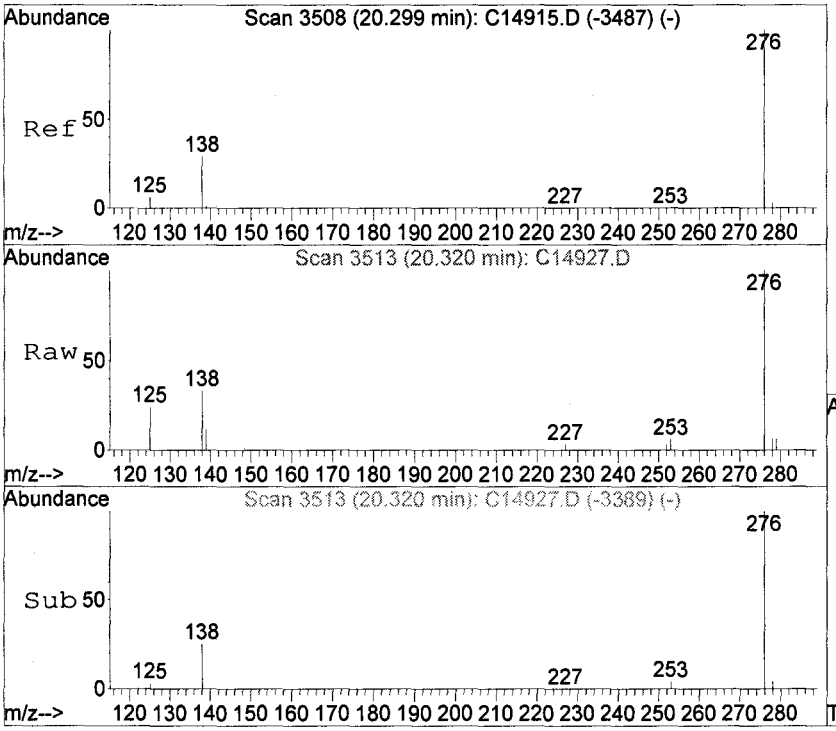
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#22
Benzo(a)pyrene
Concen: 0.25 ug/mL
RT: 18.06 min Scan# 3045
Delta R.T. 0.02 min
Integration Range:
Scan=3041 to 3061
R.T.= 18.03 to 18.14 (min)
Tgt Ion:252 Resp: 102129

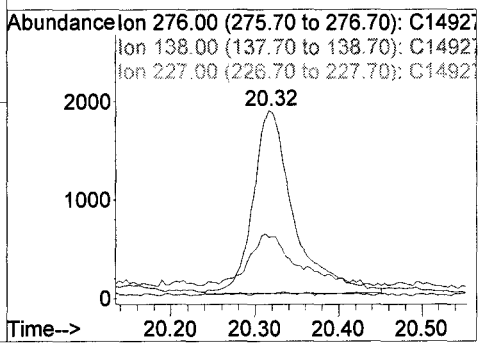
Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	16.9	13.1	19.7





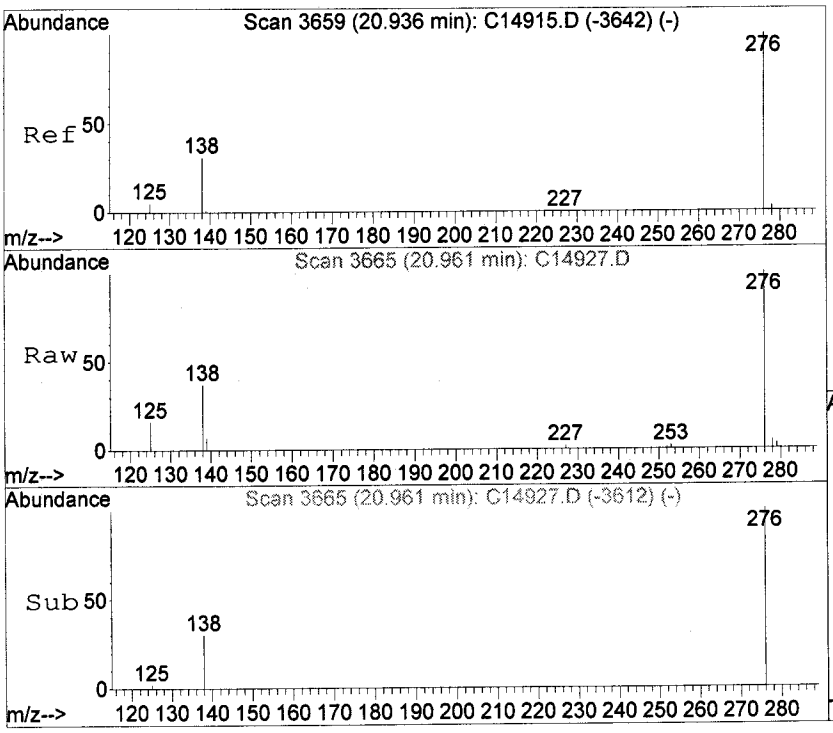
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ug/mL
RT: 20.32 min Scan# 3513
Delta R.T. 0.02 min
Integration Range:
Scan=3494 to 3544
R.T.= 20.24 to 20.45 (min)
Tgt Ion:276 Resp: 62811

Ion	Ratio	Lower	Upper
276	100		
138	34.6	23.7	35.5
227	0.3	0.0	0.0#



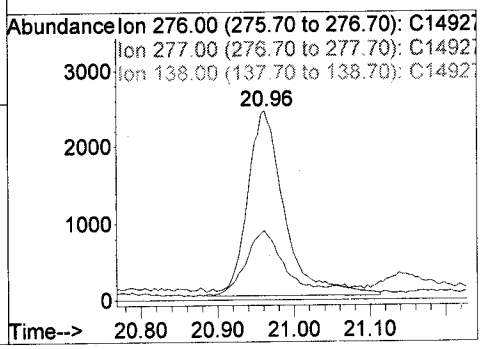
Data File : C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49
Sample : F4XP8
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.22 ug/mL
RT: 20.96 min Scan# 3665
Delta R.T. 0.02 min
Integration Range:
Scan=3647 to 3701
R.T.= 20.89 to 21.11 (min)
Tgt Ion:276 Resp: 80999

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.4	26.2	39.2

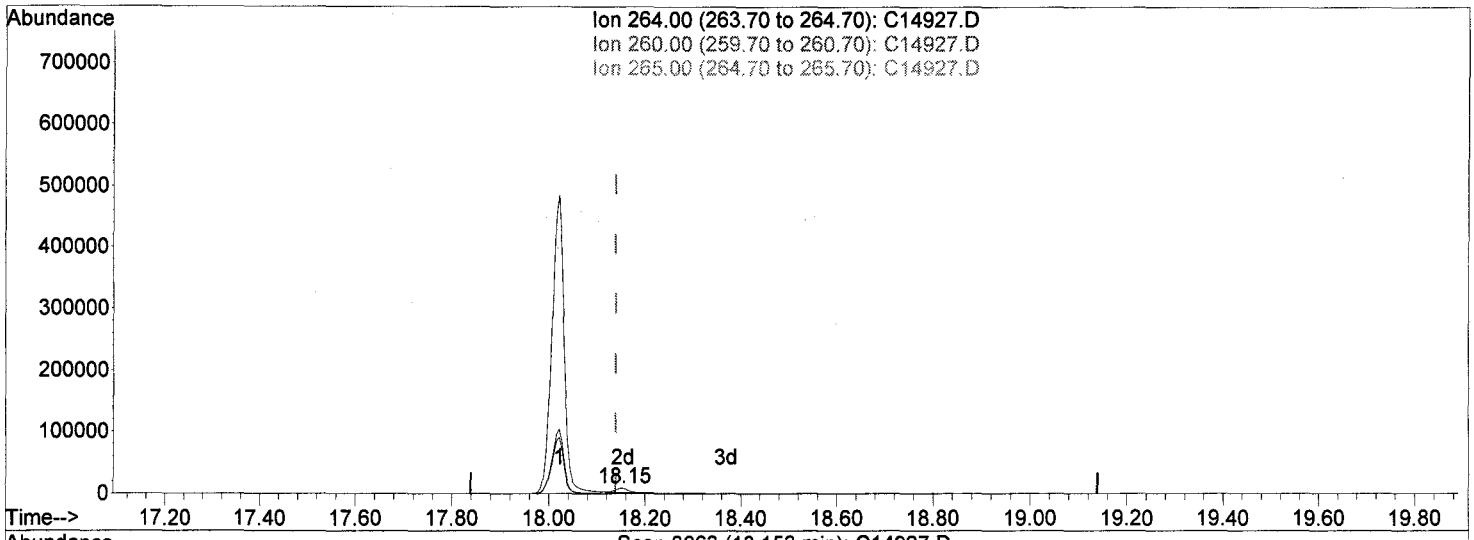


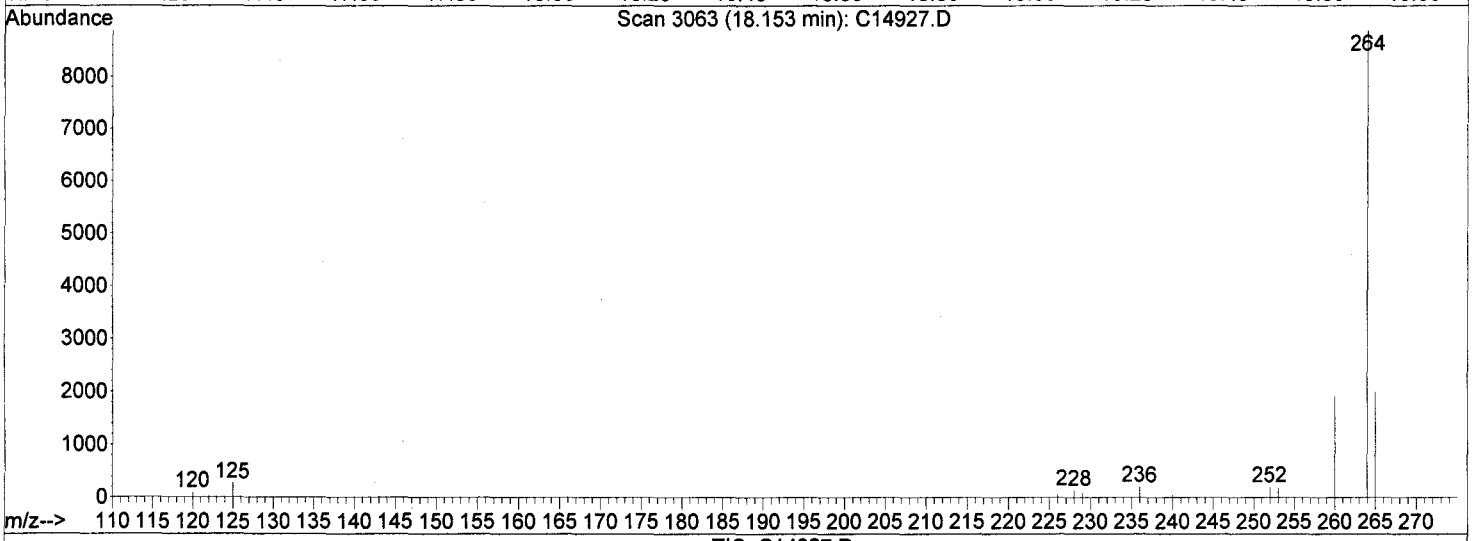
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14927.D
Acq On : 12/15/11 16:49 Operator: SK
Sample : F4XP8 Inst : C5975
Misc : S-4465.02 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 19 09:57:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11





TIC: C14927.D

(19) Perylene-d12

18.153min (+0.014) 0.4000ug/mL m

response 142915

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1108.31#
265.00	21.10	1264.72#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.03

Sample wt/vol: 60.30 (g/mL) G Lab File ID: C14931

Extraction: (Type) SONC

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.6	J
91-57-6	2-Methylnaphthalene	2.7	U
208-96-8	Acenaphthylene	3.3	
83-32-9	Acenaphthene	2.7	U
86-73-7	Fluorene	2.7	U
87-86-5	Pentachlorophenol	5.6	U
85-01-8	Phenanthrene	2.7	U
120-12-7	Anthracene	2.9	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	19	
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	4.6	
50-32-8	Benzo(a)pyrene	12	
193-39-5	Indeno(1,2,3-cd)pyrene	7.4	
53-70-3	Dibenzo(a,h)anthracene	3.1	
191-24-2	Benzo(g,h,i)perylene	10	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46 Operator: SK
Sample : F4XP9 Inst : C5975
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 10:20:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:38 2011
Response via : Initial Calibration

12/20/11

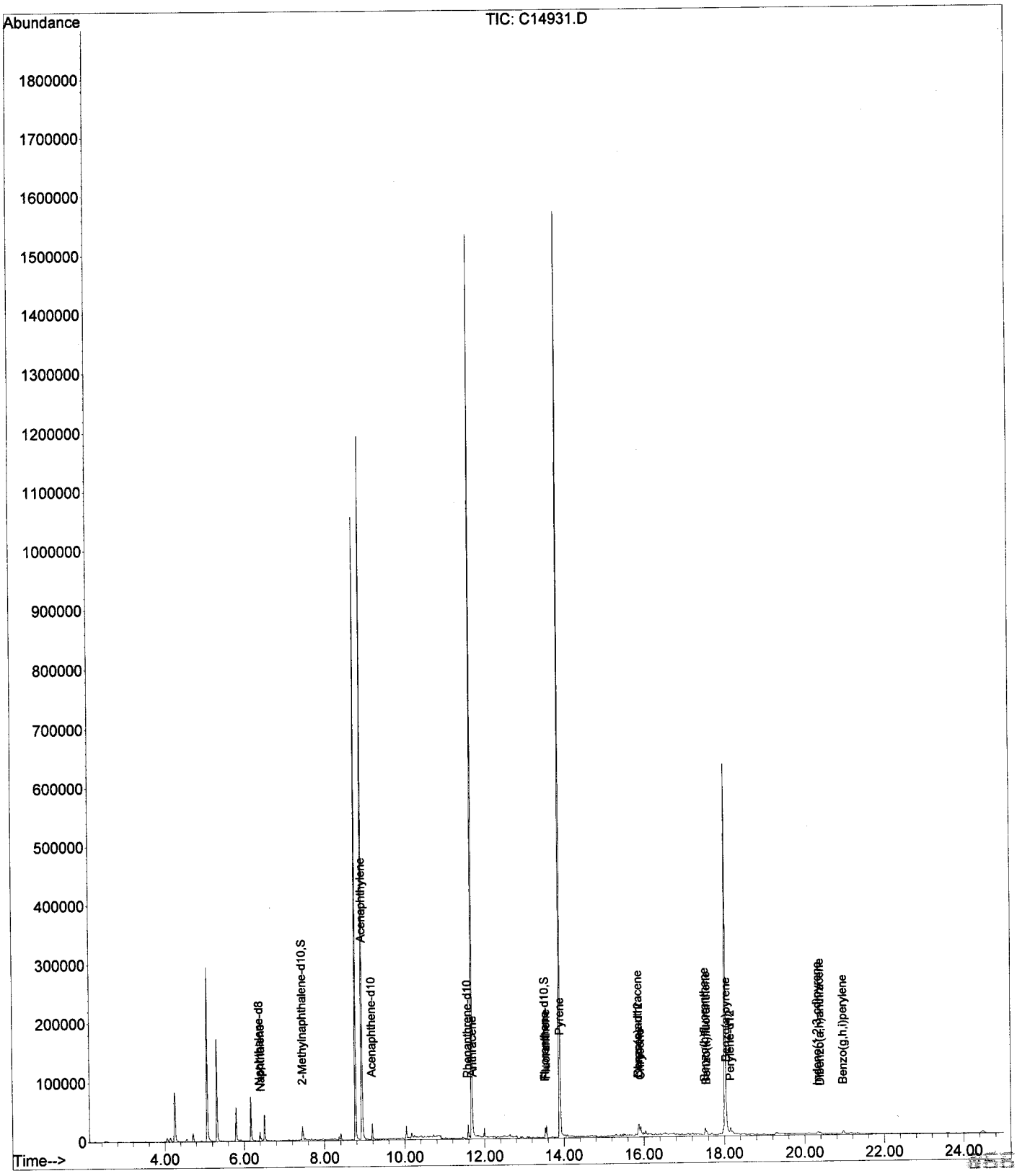
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	170581	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	128177	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	232377	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	129934	0.4000	ug/mL	0.00
19) Perylene-d12	18.16	264	137556m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	91785	0.3483	ug/mL	0.00
Spiked Amount 0.400			Recovery = 87.07%			
13) Fluoranthene-d10	13.53	212	181879	0.3554	ug/mL	0.00
Spiked Amount 0.400			Recovery = 88.85%			
Target Compounds						Qvalue
2) Naphthalene	6.43	128	41024	0.0930	ug/mL#	94
6) Acenaphthylene	8.96	152	63230	0.1208	ug/mL#	85
12) Anthracene	11.71	178	56879	0.1062	ug/mL#	45
14) Fluoranthene	13.56	202	206615	0.4091	ug/mL	99
16) Benzo(a)anthracene	15.87	228	135033	0.3710	ug/mL#	62
17) Chrysene	15.92	228	178386	0.4738	ug/mL#	45
18) Pyrene	13.92	202	378556	0.6834	ug/mL	94
20) Benzo(b)fluoranthene	17.53	252	154425	0.4111	ug/mL#	95
21) Benzo(k)fluoranthene	17.56	252	73781m	0.1669	ug/mL	
22) Benzo(a)pyrene	18.06	252	172450	0.4426	ug/mL#	92
23) Dibenzo(a,h)anthracene	20.39	278	26507	0.1132	ug/mL#	83
24) Indeno(1,2,3-cd)pyrene	20.33	276	83368	0.2682	ug/mL#	97
25) Benzo(g,h,i)perylene	20.97	276	126920	0.3641	ug/mL#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

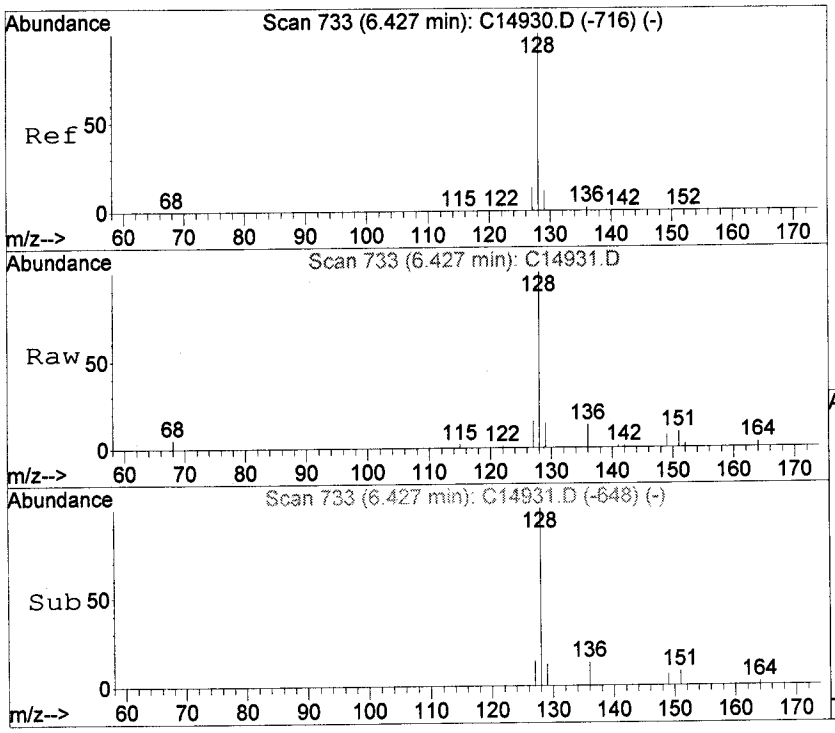
Data File: C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46 Operator: SK
Sample : F4XP9 Inst : C5975
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 10:20:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:38 2011
Response via : Initial Calibration



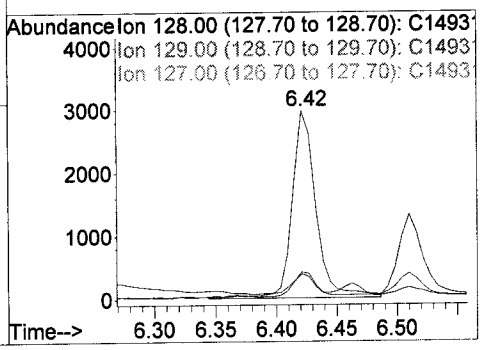
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

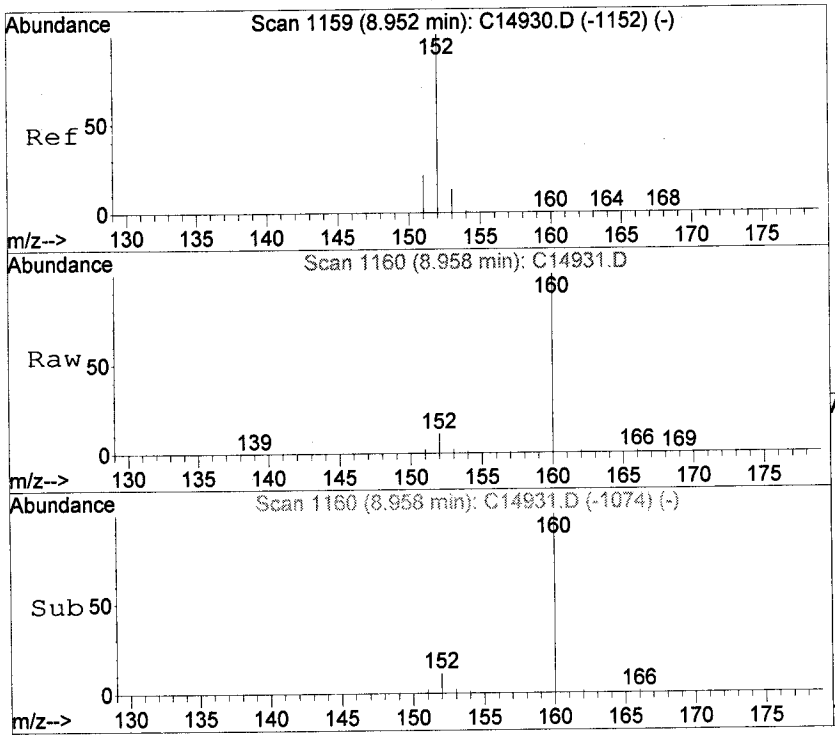
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.09 ug/mL
RT: 6.43 min Scan# 733
Delta R.T. 0.00 min
Integration Range:
Scan=719 to 743
R.T.= 6.34 to 6.49 (min)
Tgt Ion:128 Resp: 41024

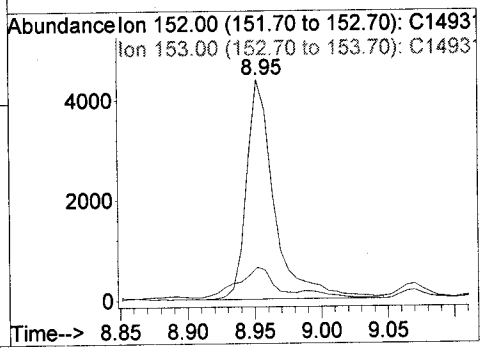
Ion	Ratio	Lower	Upper
128	100		
129	15.5	8.8	13.2#
127	12.9	10.7	16.1





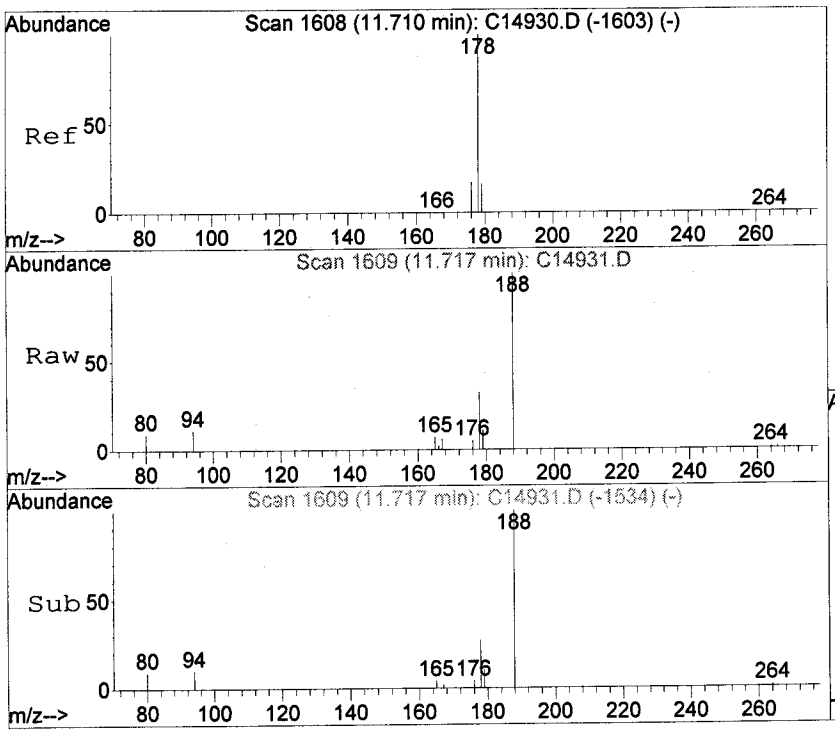
#6
Acenaphthylene
Concen: 0.12 ug/mL
RT: 8.96 min Scan# 1160
Delta R.T. 0.00 min
Integration Range:
Scan=1153 to 1175
R.T.= 8.92 to 9.05 (min)
Tgt Ion:152 Resp: 63230

Ion	Ratio	Lower	Upper
152	100		
153	19.1	10.5	15.7#



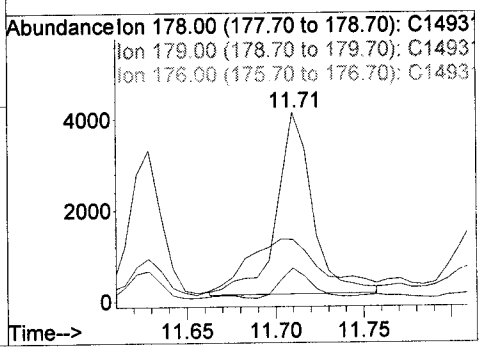
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

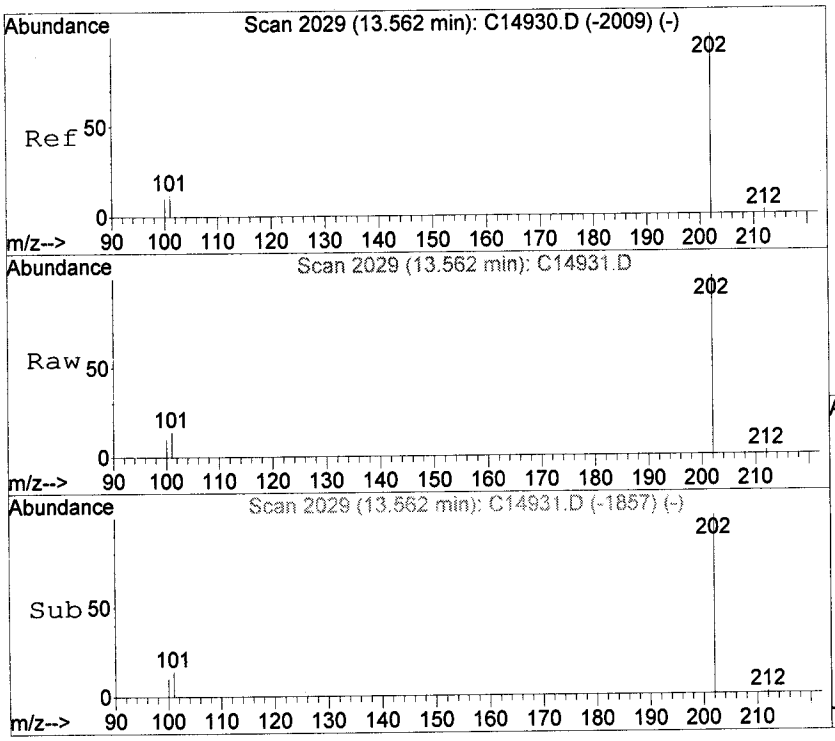
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.11 ug/mL
RT: 11.71 min Scan# 1609
Delta R.T. 0.00 min
Integration Range:
Scan=1601 to 1615
R.T.= 11.66 to 11.76 (min)
Tgt Ion:178 Resp: 56879

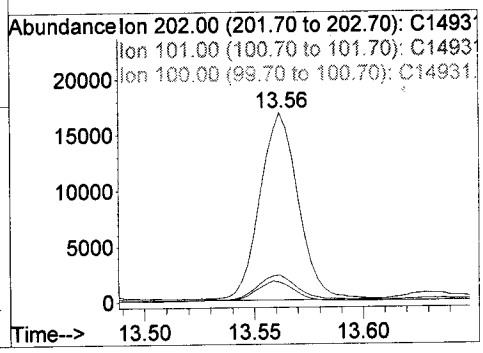
Ion	Ratio	Lower	Upper
178	100		
179	61.3	12.4	18.6#
176	14.7	13.8	20.8





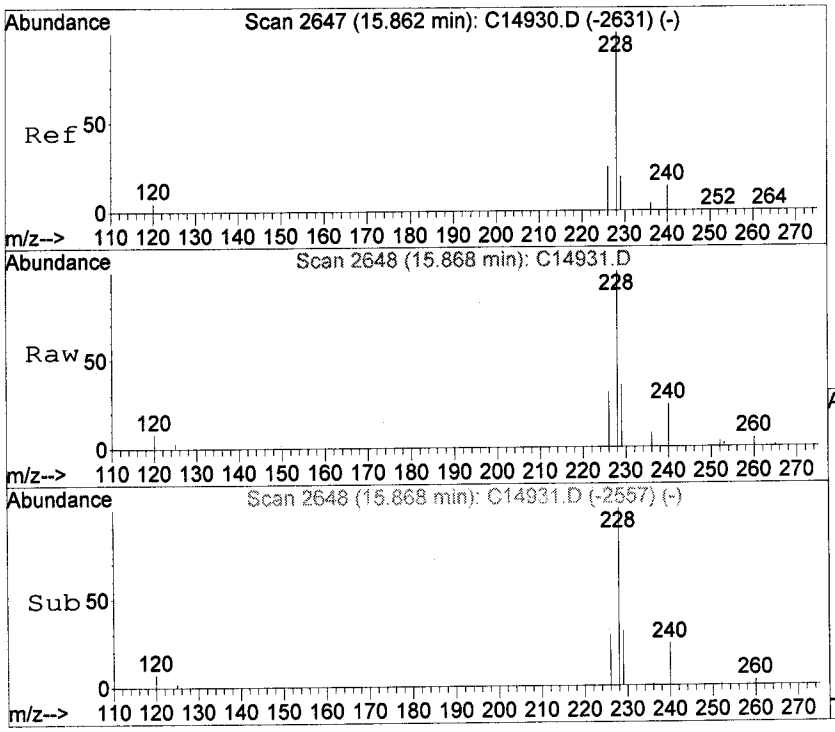
#14
Fluoranthene
Concen: 0.41 ug/mL
RT: 13.56 min Scan# 2029
Delta R.T. 0.00 min
Integration Range:
Scan=2018 to 2045
R.T.= 13.53 to 13.61 (min)
Tgt Ion:202 Resp: 206615

Ion	Ratio	Lower	Upper
202	100		
101	15.0	11.5	17.3
100	11.6	8.8	13.2



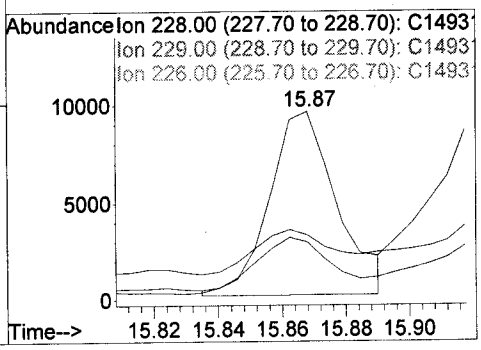
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

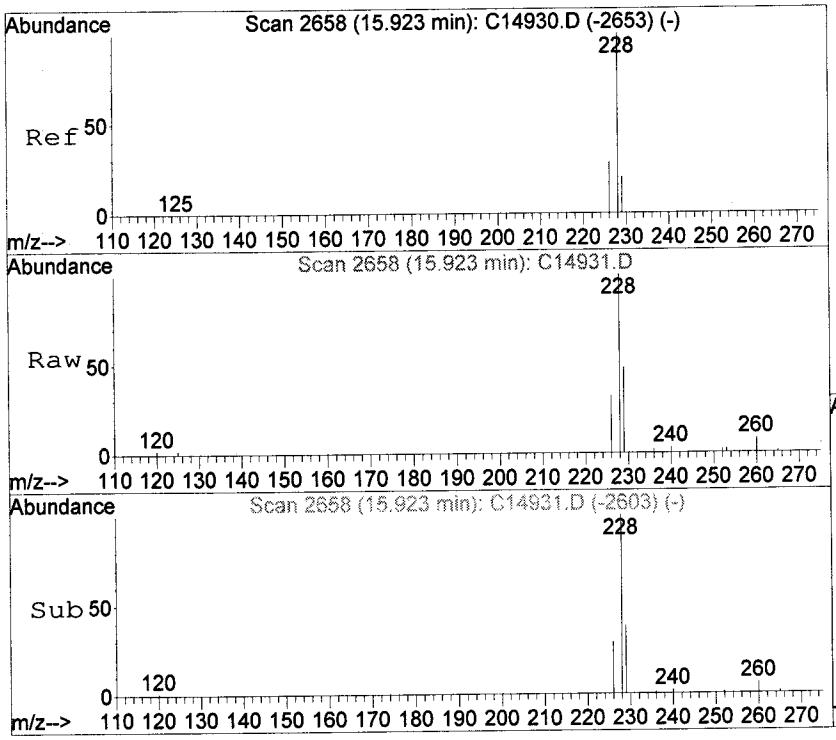
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.37 ug/mL
RT: 15.87 min Scan# 2648
Delta R.T. 0.00 min
Integration Range:
Scan=2642 to 2652
R.T.= 15.83 to 15.89 (min)
Tgt Ion:228 Resp: 135033

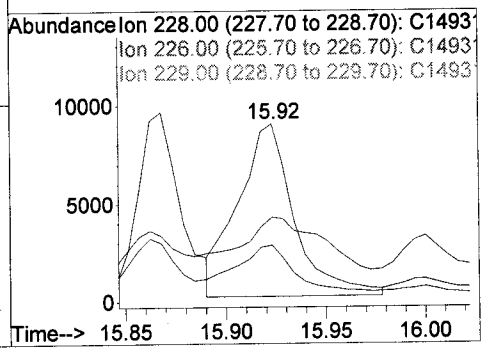
Ion	Ratio	Lower	Upper
228	100		
229	44.0	15.8	23.8#
226	39.2	20.5	30.7#





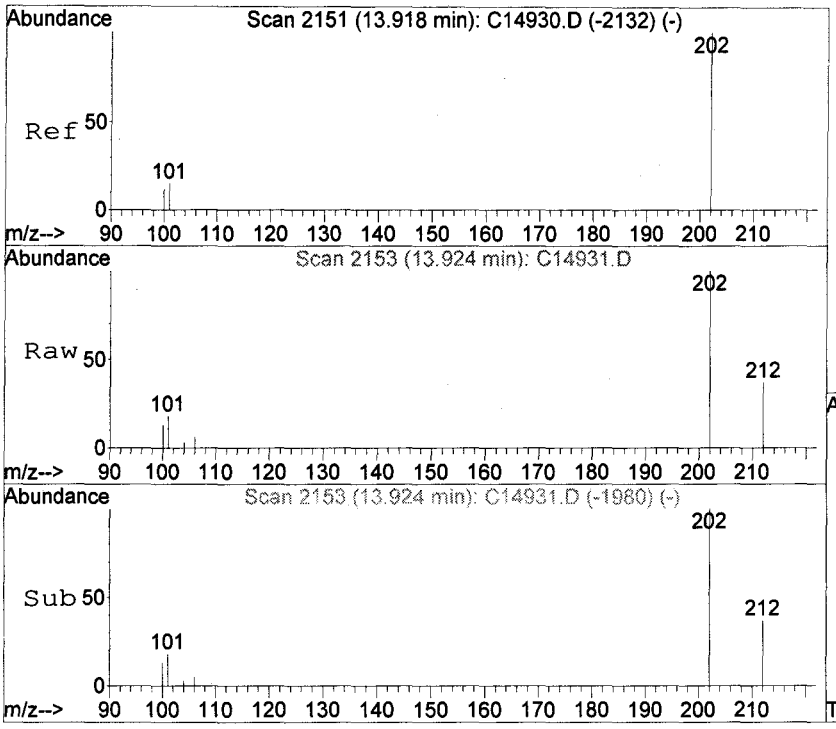
#17
Chrysene
Concen: 0.47 ug/mL
RT: 15.92 min Scan# 2658
Delta R.T. 0.00 min
Integration Range:
Scan=2652 to 2668
R.T.= 15.89 to 15.98 (min)
Tgt Ion:228 Resp: 178386

Ion	Ratio	Lower	Upper
228	100		
226	36.6	22.8	34.2#
229	71.7	15.9	23.9#



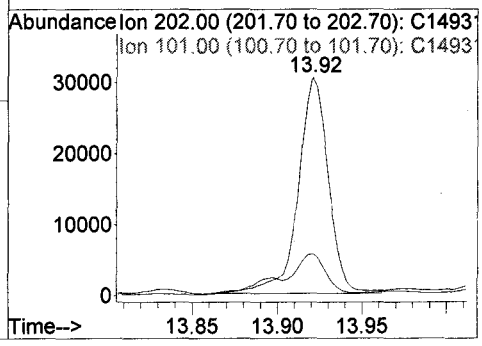
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

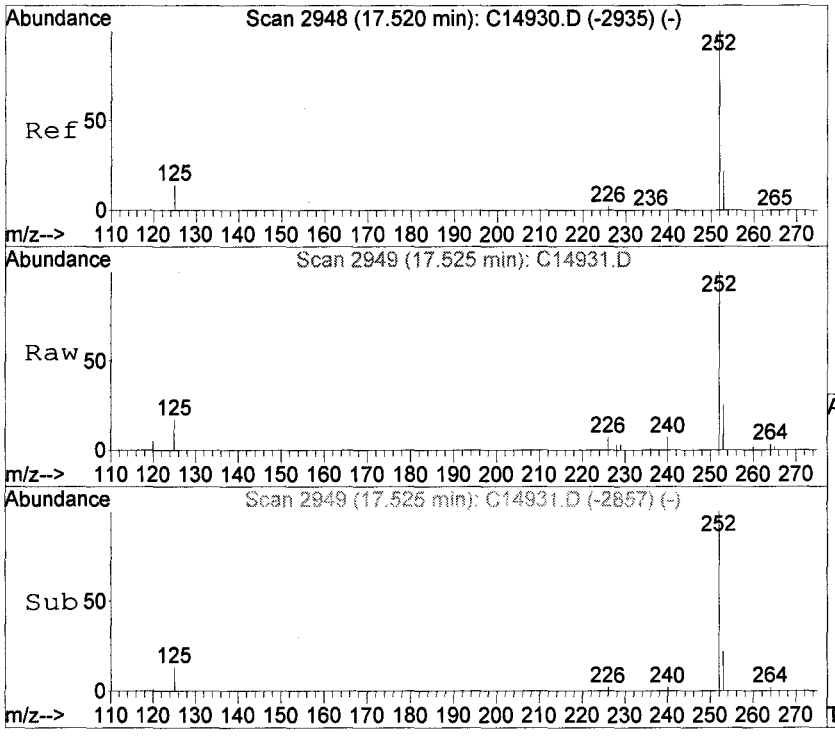
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.68 ug/mL
RT: 13.92 min Scan# 2153
Delta R.T. 0.00 min
Integration Range:
Scan=2130 to 2166
R.T.= 13.86 to 13.96 (min)
Tgt Ion:202 Resp: 378556

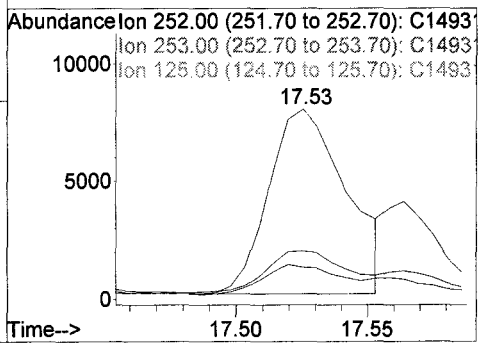
Ion	Ratio	Lower	Upper
202	100		
101	19.0	13.2	19.8





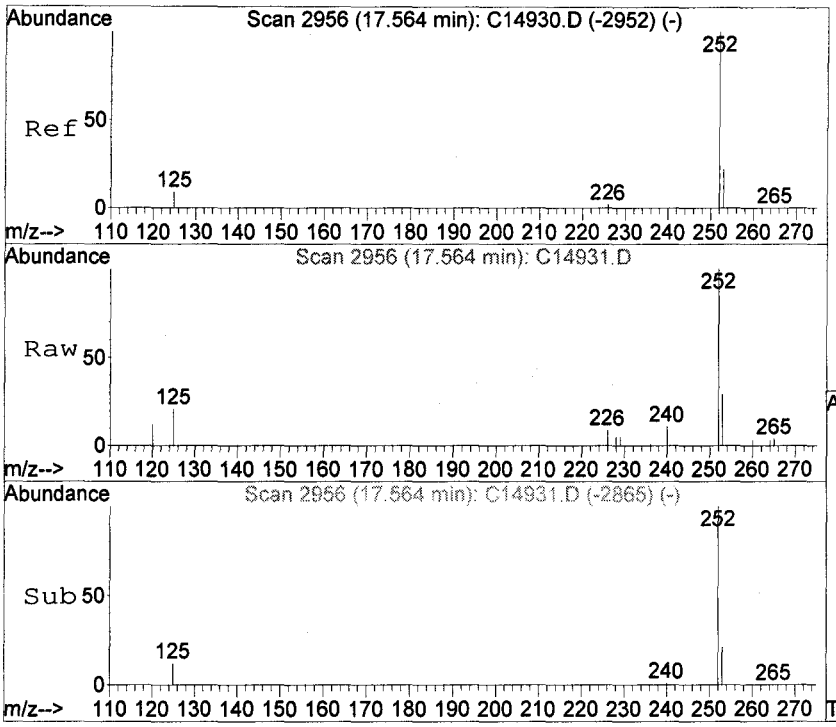
#20
Benzo(b)fluoranthene
Concen: 0.41 ug/mL
RT: 17.53 min Scan# 2949
Delta R.T. 0.01 min
Integration Range:
Scan=2942 to 2954
R.T.= 17.49 to 17.55 (min)
Tgt Ion:252 Resp: 154425

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	19.0	12.3	18.5#



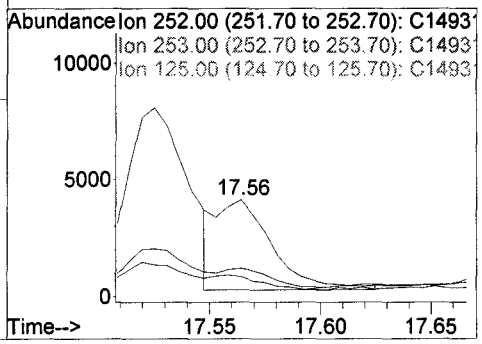
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

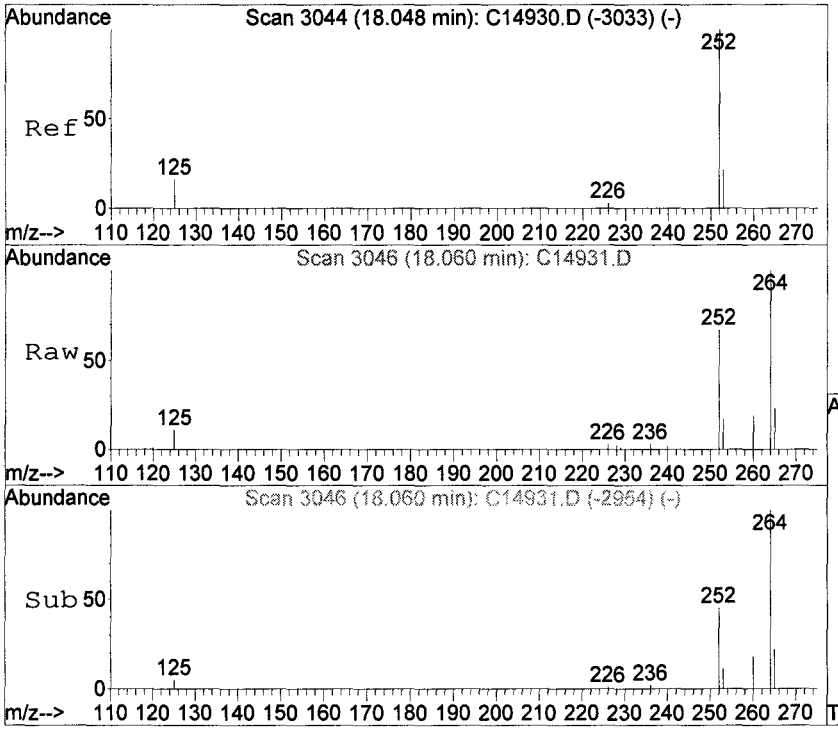
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.17 ug/mL m
RT: 17.56 min Scan# 2956
Delta R.T. 0.00 min
Integration Range:
Scan=2953 to 2967
R.T.= 17.55 to 17.62 (min)
Tgt Ion:252 Resp: 73781

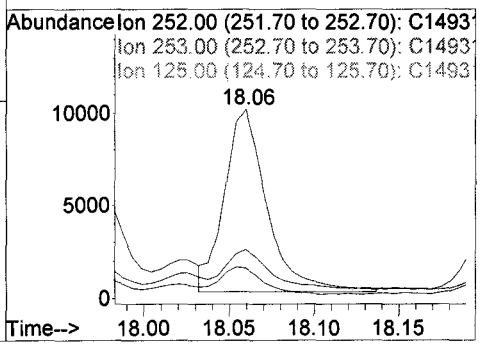
Ion	Ratio	Lower	Upper
252	100		
253	47.1	17.7	26.5#
125	33.4	12.4	18.6#





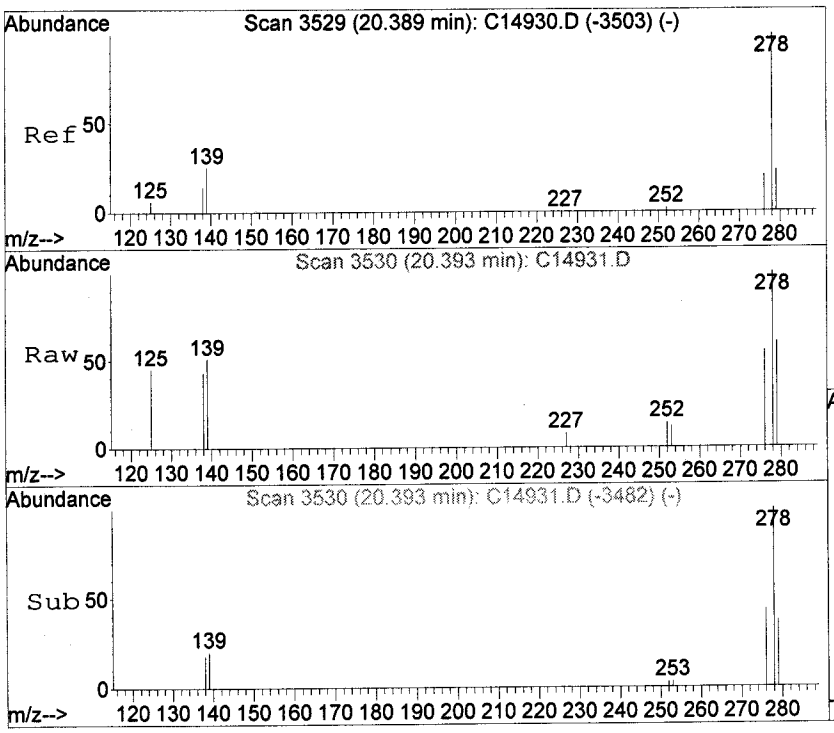
#22
Benzo(a)pyrene
Concen: 0.44 ug/mL
RT: 18.06 min Scan# 3046
Delta R.T. 0.01 min
Integration Range:
Scan=3041 to 3060
R.T.= 18.03 to 18.14 (min)
Tgt Ion:252 Resp: 172450

Ion	Ratio	Lower	Upper
252	100		
253	27.8	17.1	25.7#
125	16.9	13.1	19.7



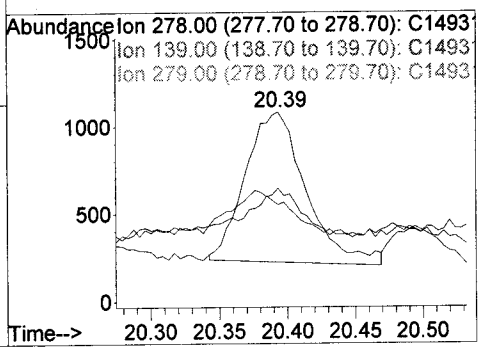
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

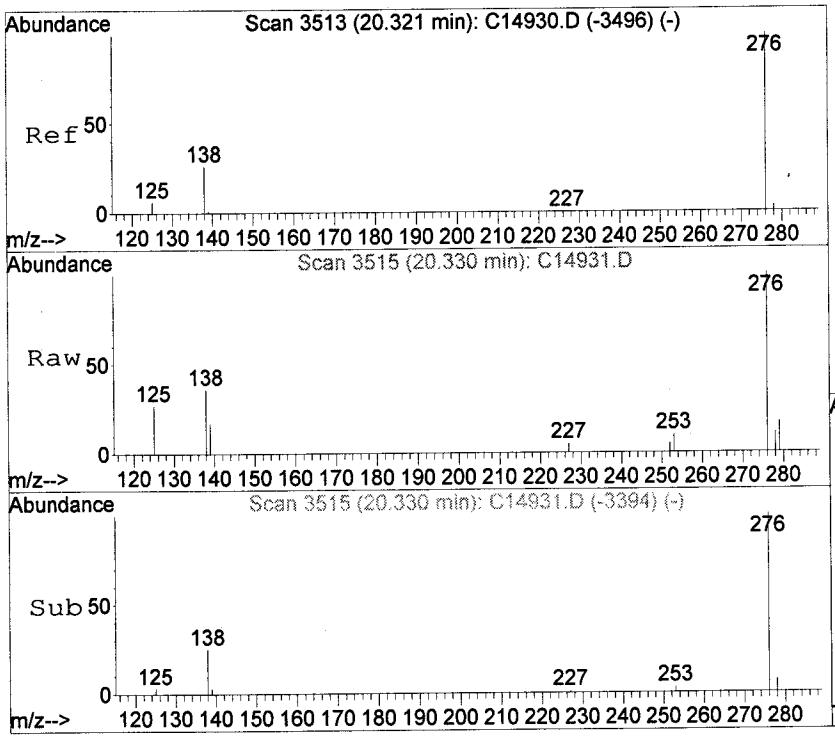
Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.11 ug/mL
RT: 20.39 min Scan# 3530
Delta R.T. 0.00 min
Integration Range:
Scan=3517 to 3548
R.T.= 20.34 to 20.47 (min)
Tgt Ion:278 Resp: 26507

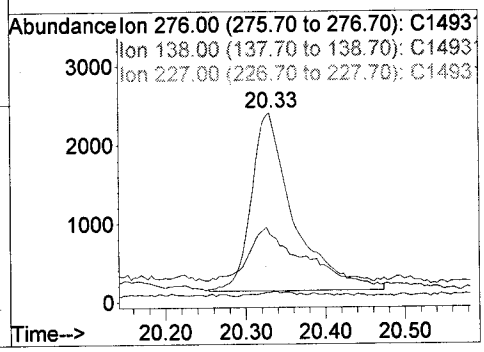
Ion	Ratio	Lower	Upper
278	100		
139	40.3	19.8	29.6#
279	22.6	18.4	27.6





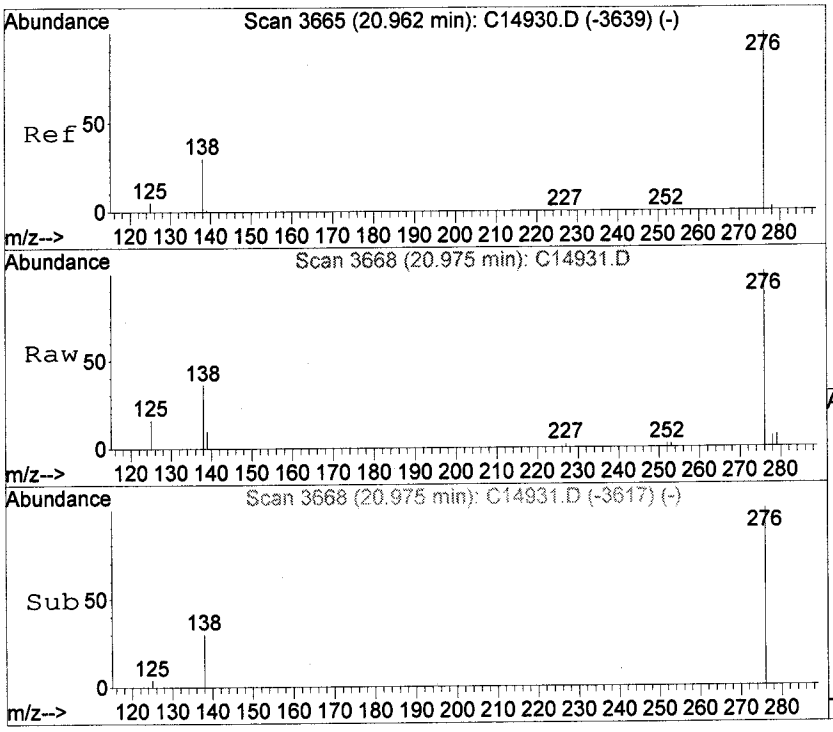
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.27 ug/mL
RT: 20.33 min Scan# 3515
Delta R.T. 0.01 min
Integration Range:
Scan=3497 to 3549
R.T.= 20.25 to 20.47 (min)
Tgt Ion:276 Resp: 83368

Ion	Ratio	Lower	Upper
276	100		
138	27.9	23.7	35.5
227	1.4	0.0	0.0#



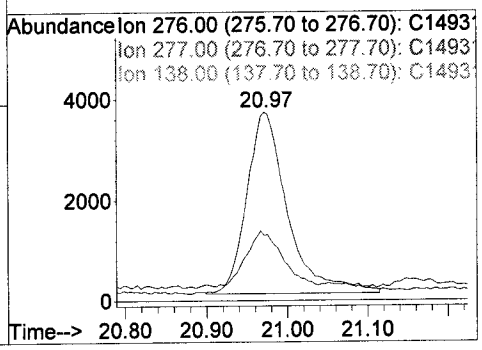
Data File : C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46
Sample : F4XP9
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 3
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.36 ug/mL
RT: 20.97 min Scan# 3668
Delta R.T. 0.01 min
Integration Range:
Scan=3650 to 3701
R.T.= 20.90 to 21.11 (min)
Tgt Ion:276 Resp: 126920

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.5	26.2	39.2

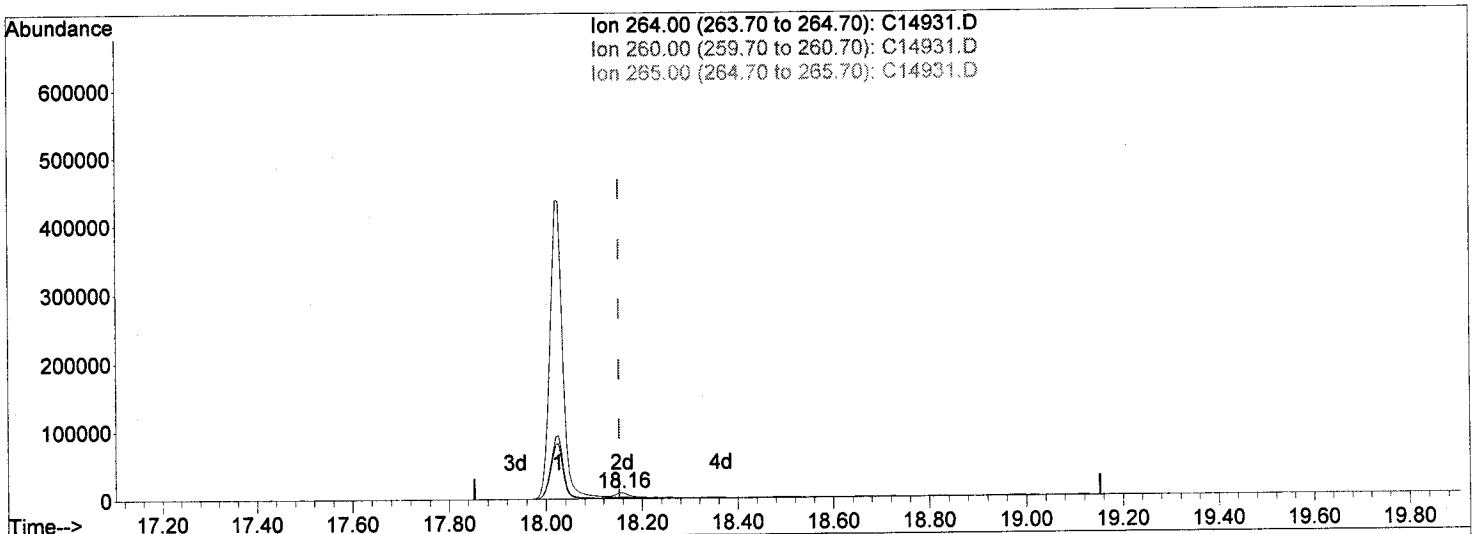


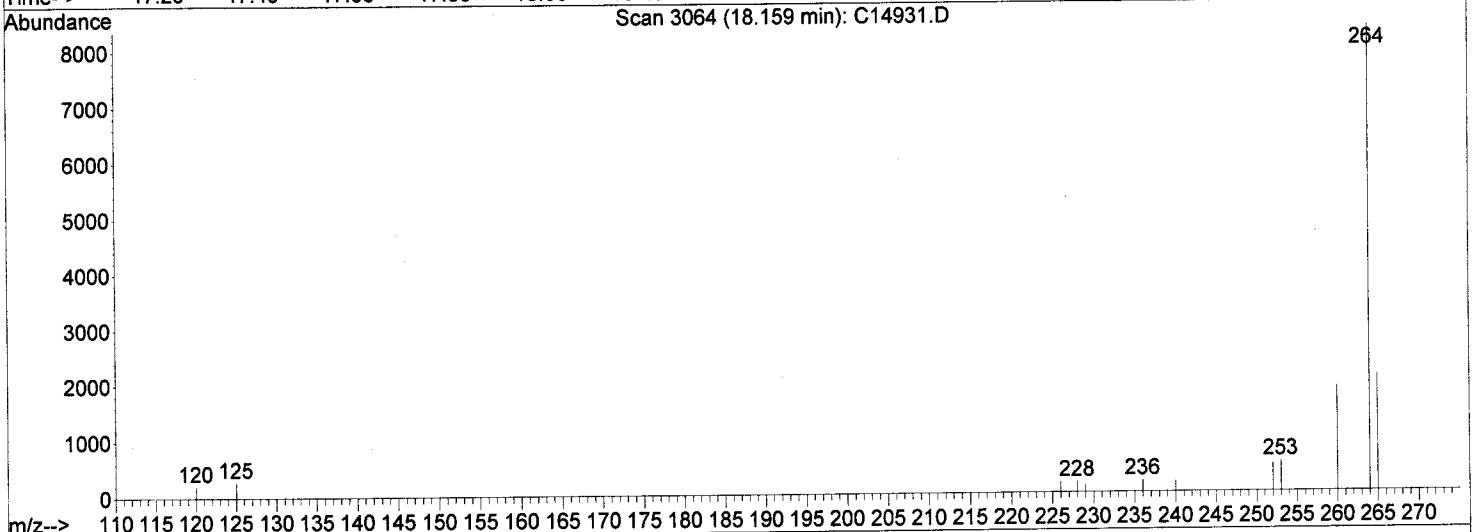
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46 Operator: SK
Sample : F4XP9 Inst : C5975
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 10:20:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:38 2011
Response via : Initial Calibration

12/20/11





TIC: C14931.D

(19) Perylene-d12

18.159min (+0.006) 0.4000ug/mL m

response 137556

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1065.34#
265.00	21.10	1218.21#
0.00	0.00	0.00

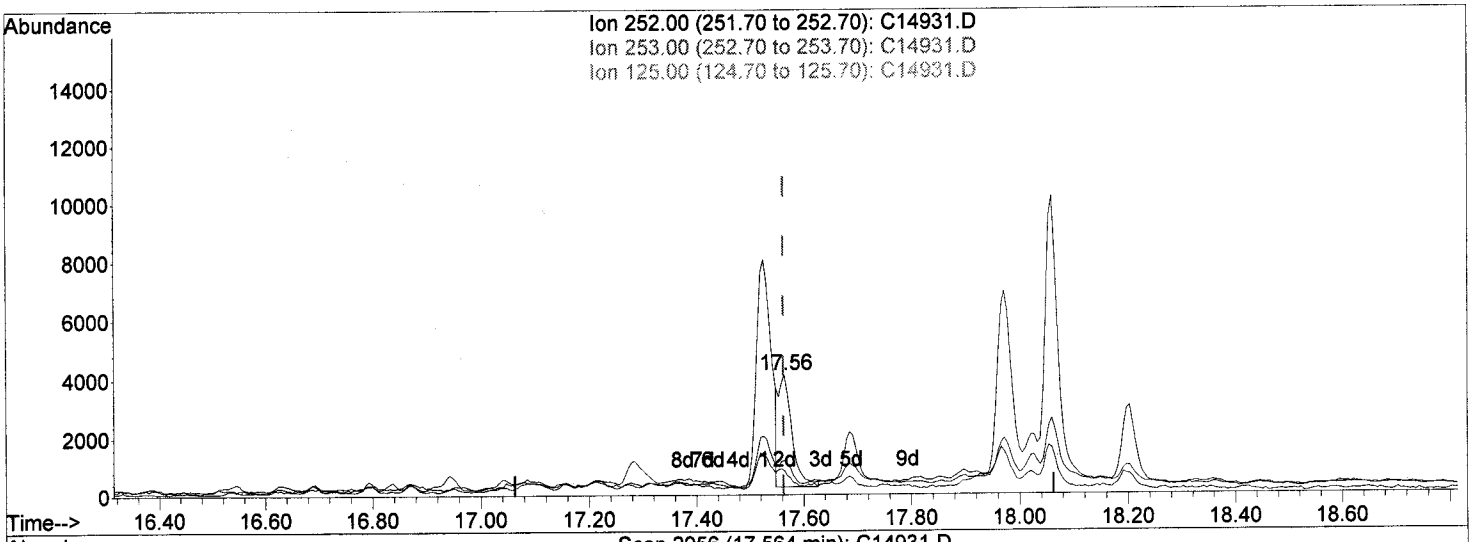
0669

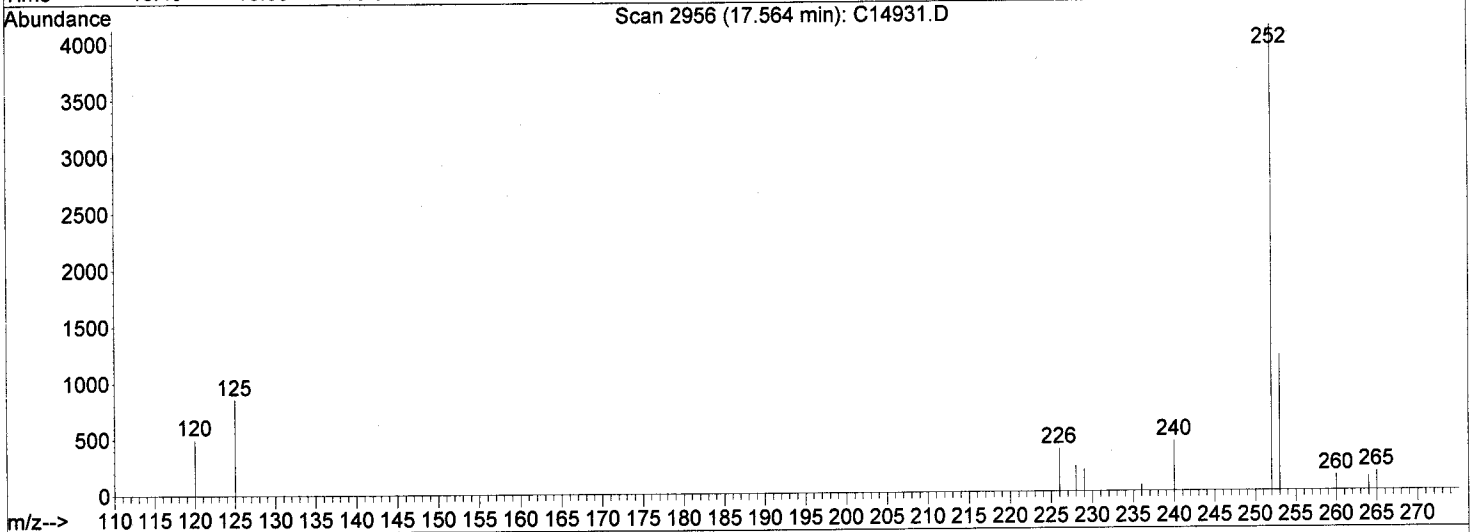
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14931.D
Acq On : 12/19/11 11:46 Operator: SK
Sample : F4XP9 Inst : C5975
Misc : S-4465.03 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 10:20:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:38 2011
Response via : Initial Calibration

12/20/11





TIC: C14931.D

(21) Benzo(k)fluoranthene

17.564min (+0.001) 0.1669ug/mL m

response 73781

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	47.09#
125.00	15.50	33.37#
0.00	0.00	0.00

0670

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.01

Sample wt/vol: 80.60 (g/mL) G Lab File ID: C14933

Extraction: (Type) SONC

% Moisture: 55 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.7	J
91-57-6	2-Methylnaphthalene	2.7	U
208-96-8	Acenaphthylene	2.7	U
83-32-9	Acenaphthene	2.7	U
86-73-7	Fluorene	2.5	J
87-86-5	Pentachlorophenol	5.5	U
85-01-8	Phenanthrene	8.6	
120-12-7	Anthracene	2.7	U
206-44-0	Fluoranthene	16	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	6.0	
218-01-9	Chrysene	7.5	
205-99-2	Benzo(b)fluoranthene	8.7	
207-08-9	Benzo(k)fluoranthene	3.1	
50-32-8	Benzo(a)pyrene	7.0	
193-39-5	Indeno(1,2,3-cd)pyrene	6.2	
53-70-3	Dibenzo(a,h)anthracene	2.7	U
191-24-2	Benzo(g,h,i)perylene	8.9	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:21:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

K 12/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	154338	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	115557	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	206044	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	113006	0.4000	ug/mL	0.00
19) Perylene-d12	18.16	264	120052m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	93042	0.3903	ug/mL	0.00
Spiked Amount 0.400			Recovery =	97.57%		
13) Fluoranthene-d10	13.54	212	170375	0.3754	ug/mL	0.00
Spiked Amount 0.400			Recovery =	93.85%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	38439	0.0963	ug/mL#	93
8) Fluorene	10.08	166	29519	0.0904	ug/mL	99
11) Phenanthrene	11.63	178	147006	0.3135	ug/mL	96
14) Fluoranthene	13.56	202	258236	0.5766	ug/mL	99
16) Benzo(a)anthracene	15.87	228	68762	0.2172	ug/mL#	68
17) Chrysene	15.93	228	88960	0.2717	ug/mL#	83
18) Pyrene	13.92	202	219828	0.4563	ug/mL#	89
20) Benzo(b)fluoranthene	17.53	252	103429	0.3155	ug/mL#	79
21) Benzo(k)fluoranthene	17.57	252	43498	0.1127	ug/mL#	84
22) Benzo(a)pyrene	18.06	252	86334	0.2539	ug/mL	95
24) Indeno(1,2,3-cd)pyrene	20.33	276	60847	0.2243	ug/mL#	99
25) Benzo(g,h,i)perylene	20.98	276	98200	0.3227	ug/mL#	90

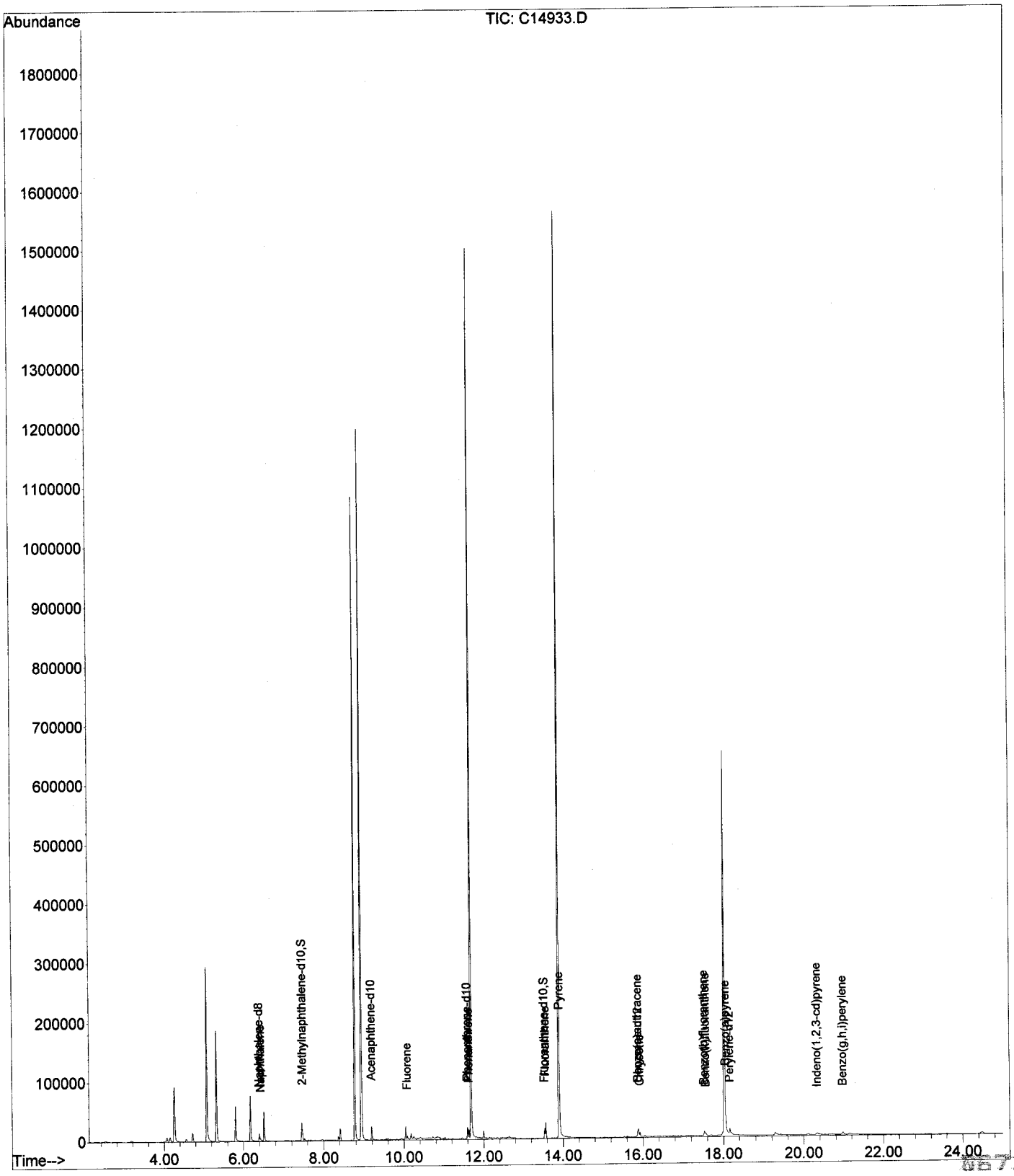
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8672

Quantitation Report (QT Reviewed)

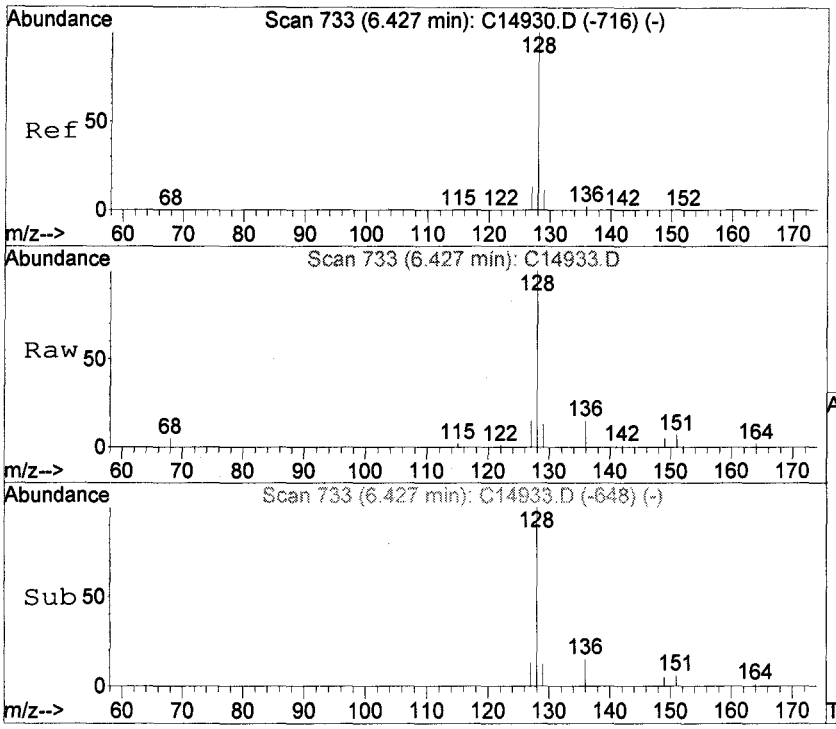
Data File: C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48 Operator: SK
Sample : F4XQ0 Inst : C5975
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 10:21:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



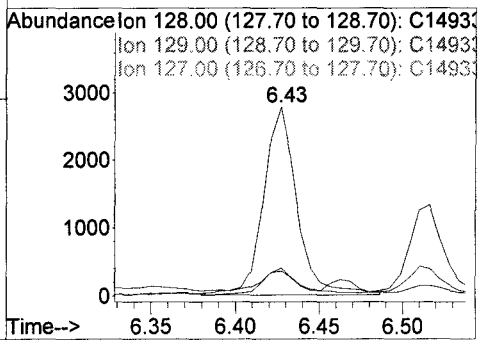
Data File : C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

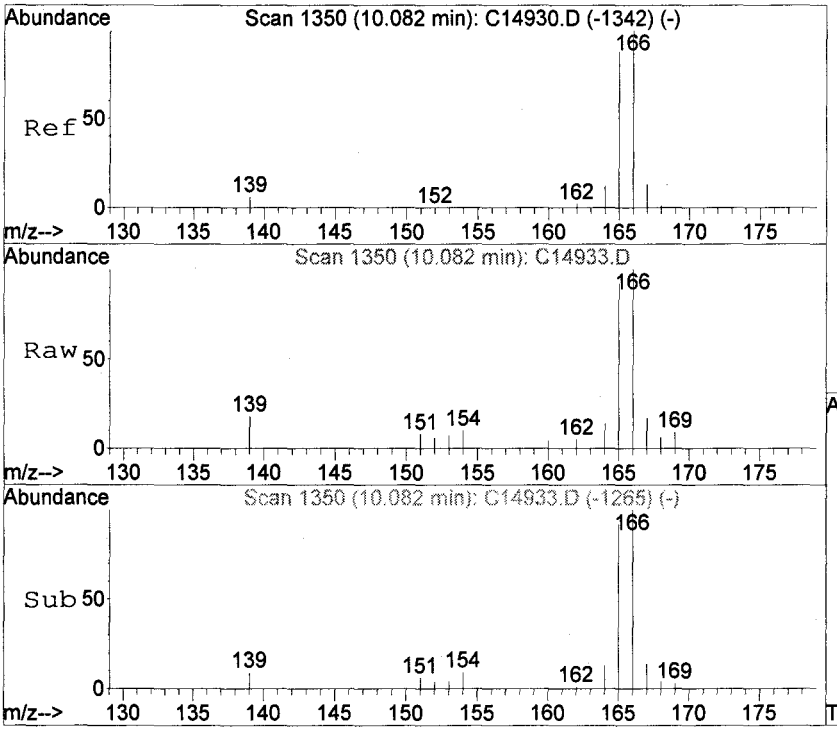
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.10 ug/mL
RT: 6.43 min Scan# 733
Delta R.T. 0.00 min
Integration Range:
Scan=725 to 743
R.T.= 6.38 to 6.49 (min)
Tgt Ion:128 Resp: 38439

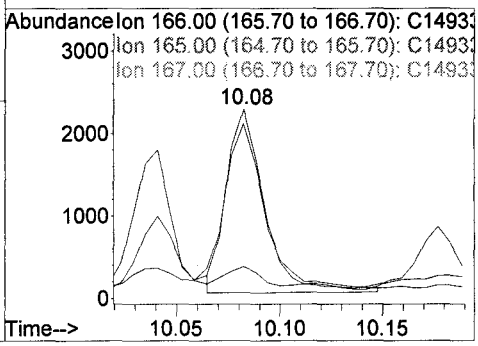
Ion	Ratio	Lower	Upper
128	100		
129	16.8	8.8	13.2#
127	13.2	10.7	16.1





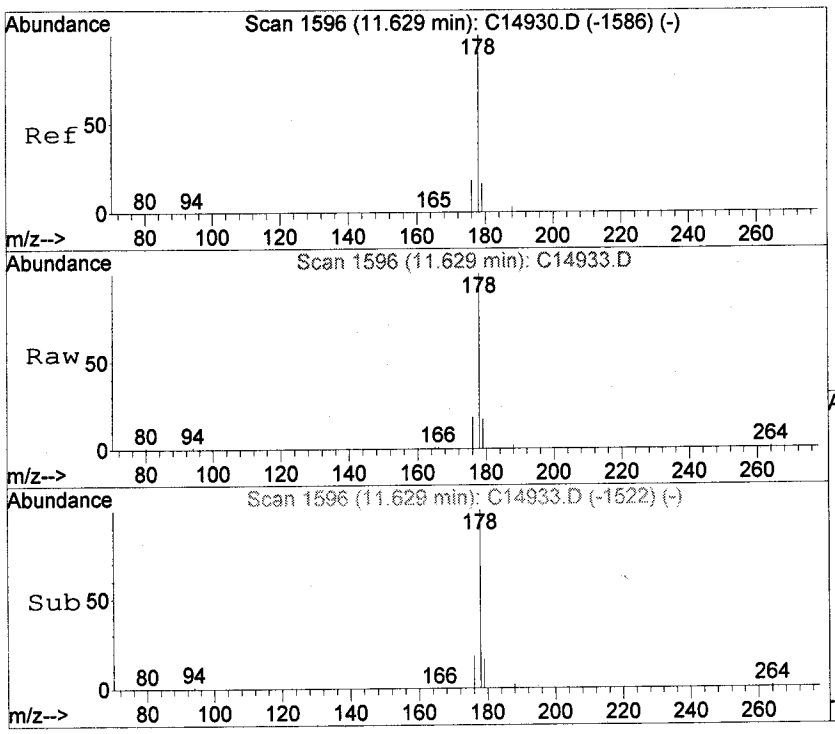
#8
Fluorene
Concen: 0.09 ug/mL
RT: 10.08 min Scan# 1350
Delta R.T. 0.00 min
Integration Range:
Scan=1347 to 1361
R.T.= 10.06 to 10.15 (min)
Tgt Ion:166 Resp: 29519

Ion	Ratio	Lower	Upper
166	100		
165	93.4	73.9	110.9
167	14.1	10.7	16.1



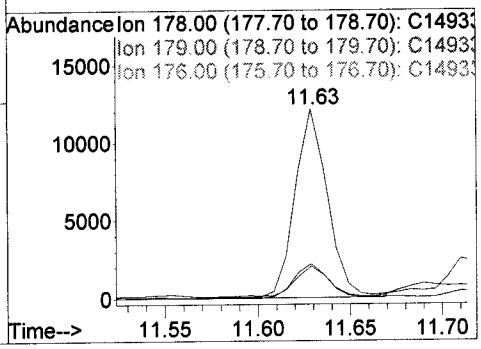
Data File : C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

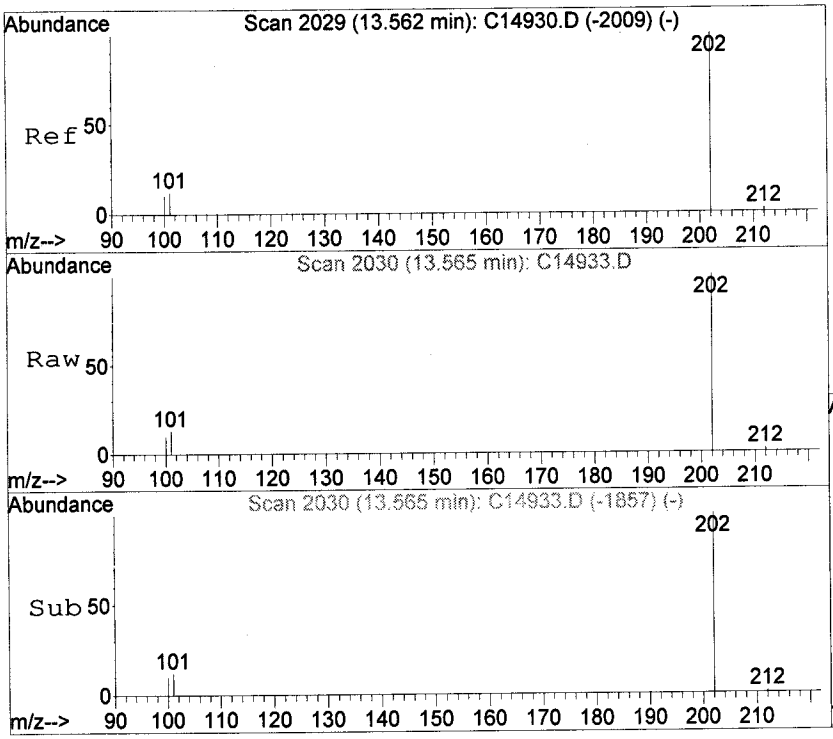
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#11
Phenanthrene
Concen: 0.31 ug/mL
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Integration Range:
Scan=1587 to 1602
R.T.= 11.57 to 11.67 (min)
Tgt Ion:178 Resp: 147006

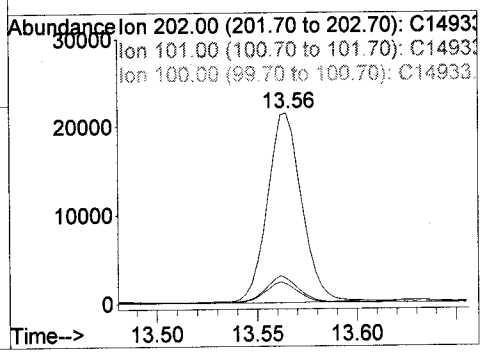
Ion	Ratio	Lower	Upper
178	100		
179	17.9	12.2	18.4
176	19.0	14.5	21.7





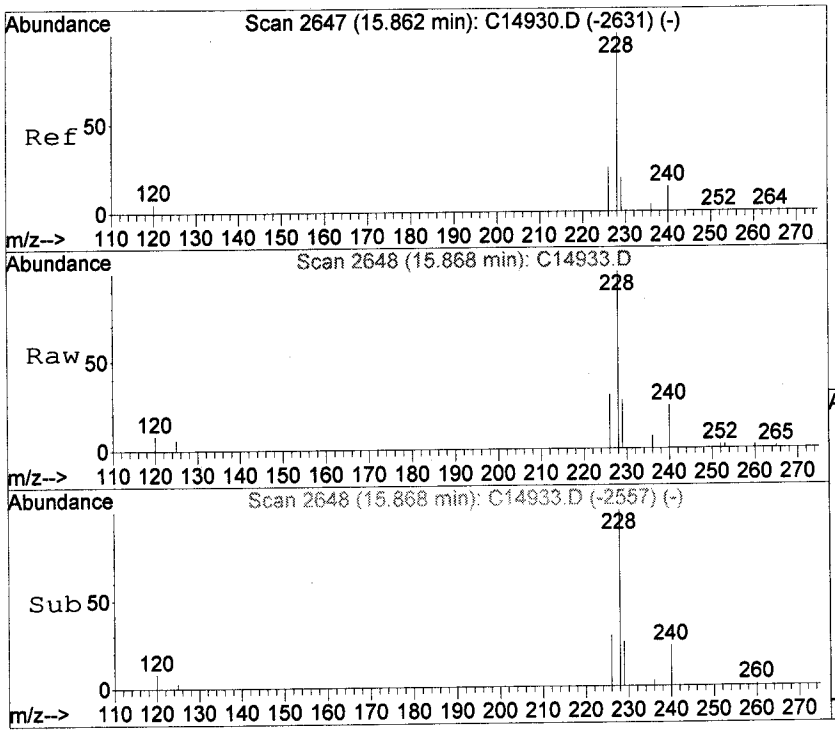
#14
Fluoranthene
Concen: 0.58 ug/mL
RT: 13.56 min Scan# 2030
Delta R.T. 0.00 min
Integration Range:
Scan=2016 to 2046
R.T.= 13.52 to 13.61 (min)
Tgt Ion:202 Resp: 258236

Ion	Ratio	Lower	Upper
202	100		
101	13.8	11.5	17.3
100	10.9	8.8	13.2



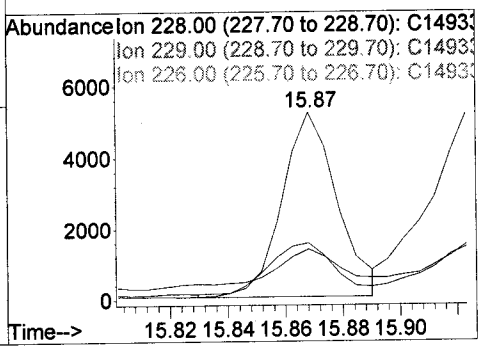
Data File : C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

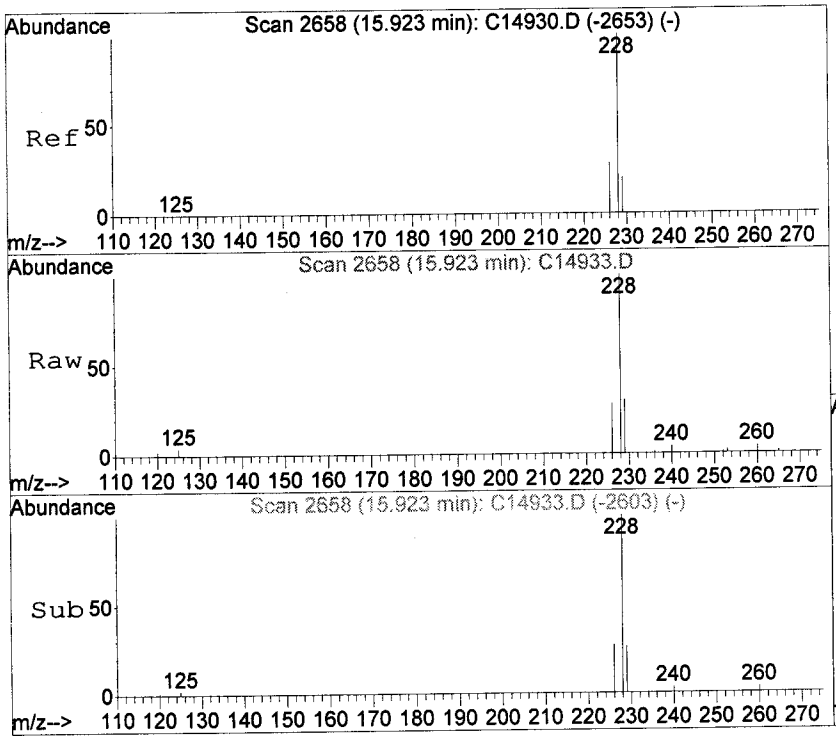
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.22 ug/mL
RT: 15.87 min Scan# 2648
Delta R.T. 0.01 min
Integration Range:
Scan=2641 to 2652
R.T.= 15.83 to 15.89 (min)
Tgt Ion:228 Resp: 68762

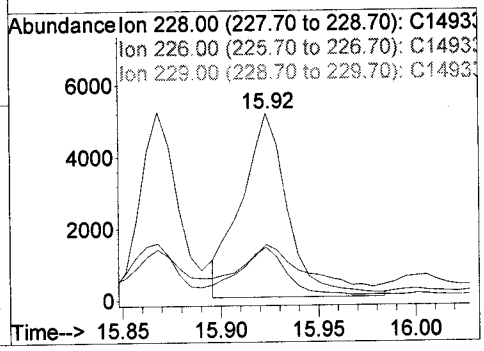
Ion	Ratio	Lower	Upper
228	100		
229	39.0	15.8	23.8#
226	37.7	20.5	30.7#





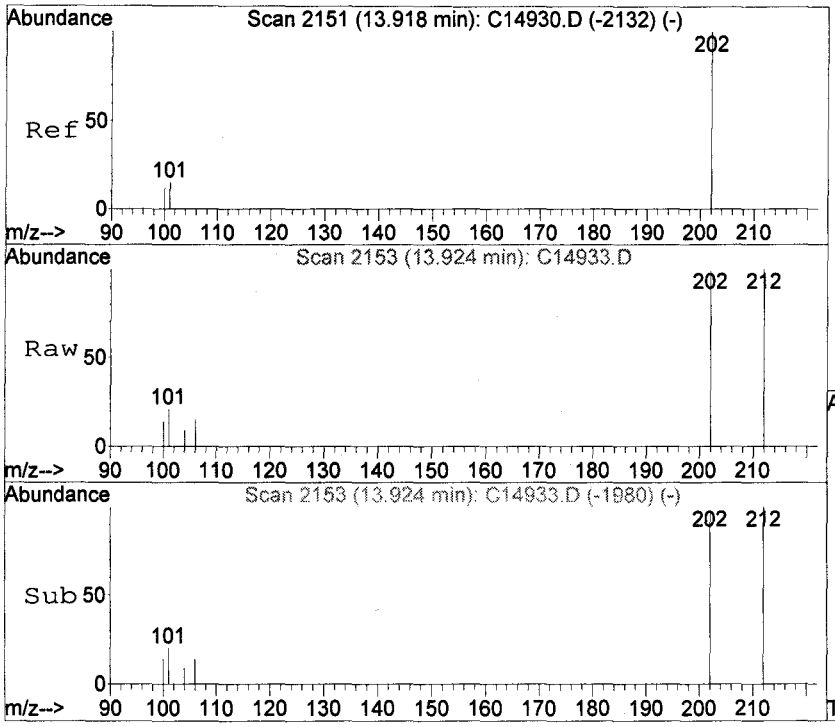
#17
Chrysene
Concen: 0.27 ug/mL
RT: 15.93 min Scan# 2658
Delta R.T. 0.00 min
Integration Range:
Scan=2653 to 2669
R.T.= 15.90 to 15.98 (min)
Tgt Ion:228 Resp: 88960

Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.8	34.2
229	36.9	15.9	23.9#



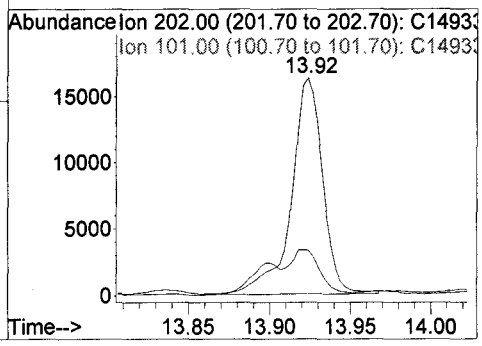
Data File : C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

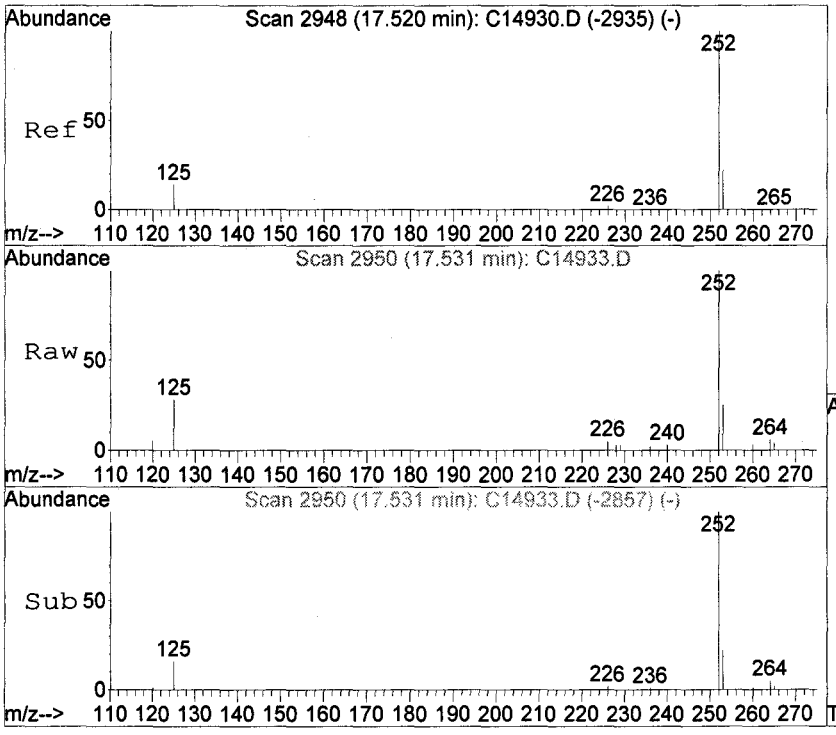
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.46 ug/mL
RT: 13.92 min Scan# 2153
Delta R.T. 0.01 min
Integration Range:
Scan=2131 to 2168
R.T.= 13.86 to 13.97 (min)
Tgt Ion:202 Resp: 219828

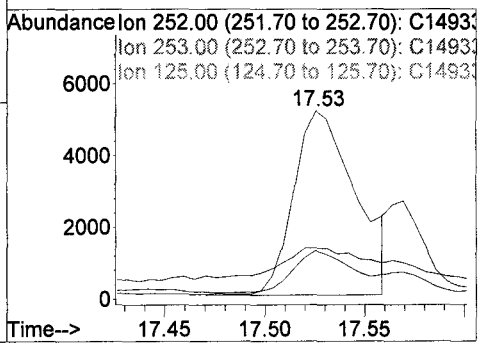
Ion	Ratio	Lower	Upper
202	100		
101	21.0	13.2	19.8#





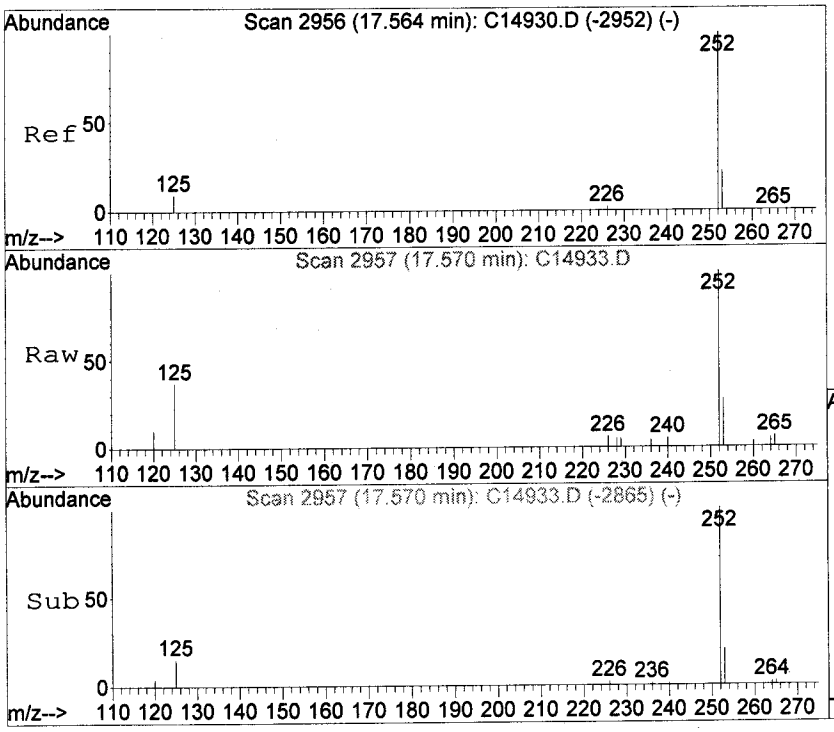
#20
Benzo(b)fluoranthene
Concen: 0.32 ug/mL
RT: 17.53 min Scan# 2950
Delta R.T. 0.01 min
Integration Range:
Scan=2939 to 2955
R.T.= 17.47 to 17.56 (min)
Tgt Ion:252 Resp: 103429

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	35.7	12.3	18.5#



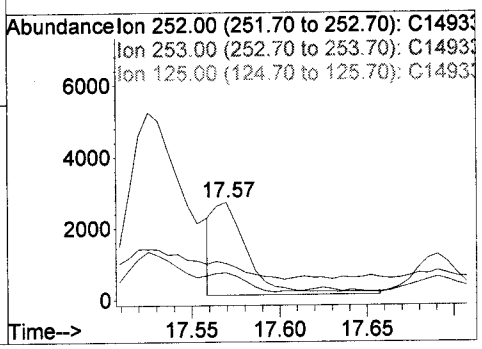
Data File : C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

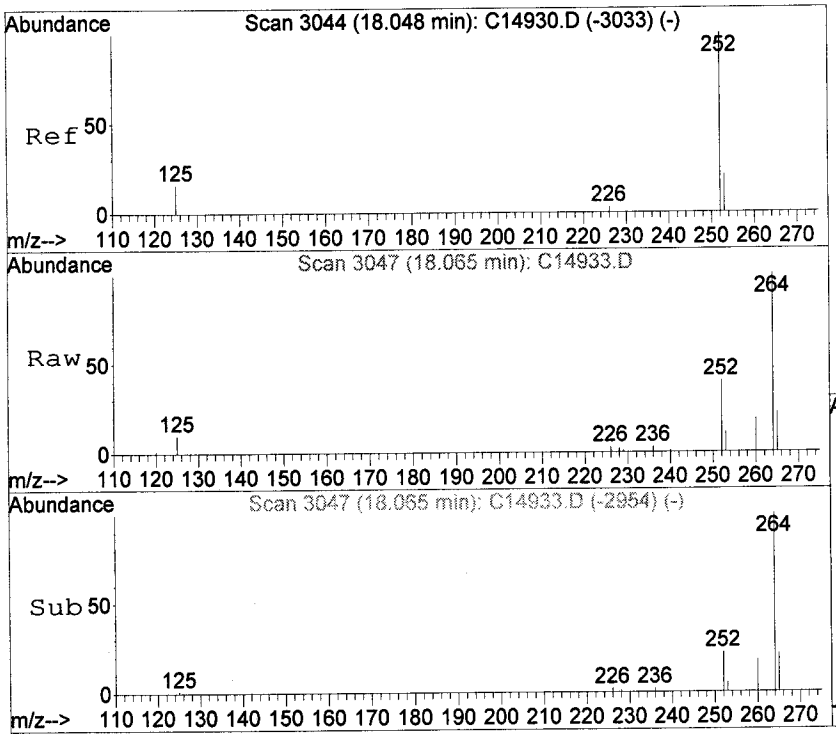
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.11 ug/mL
RT: 17.57 min Scan# 2957
Delta R.T. 0.01 min
Integration Range:
Scan=2955 to 2973
R.T.= 17.56 to 17.66 (min)
Tgt Ion:252 Resp: 43498

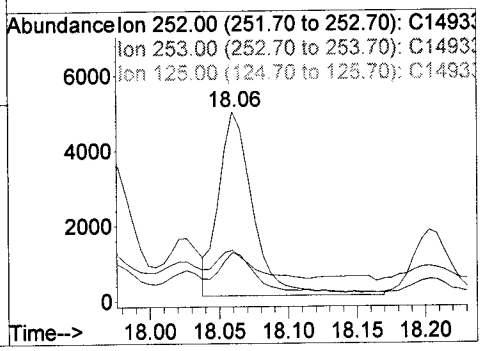
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	0.0	12.4	18.6#





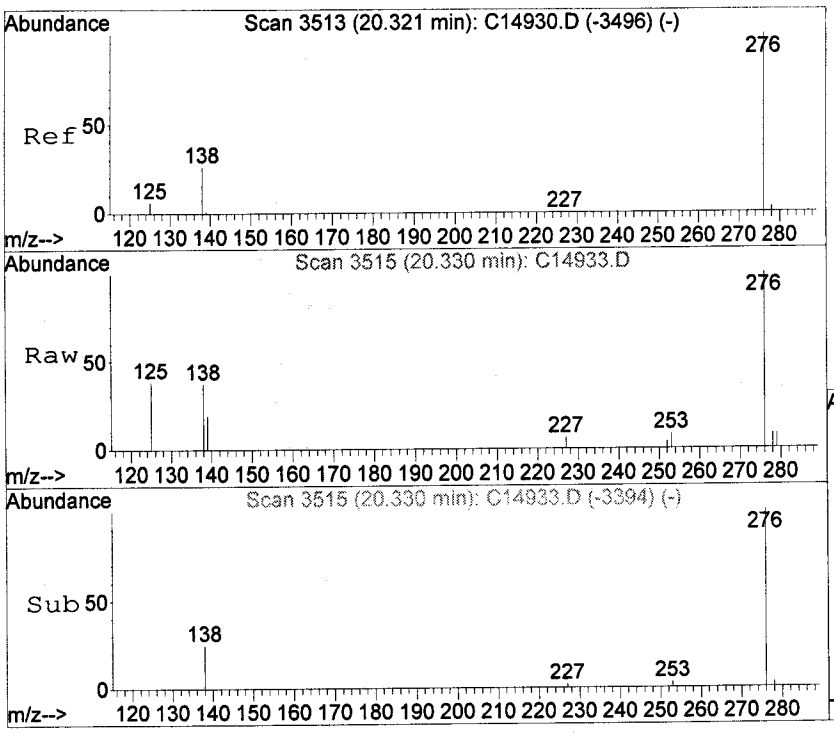
#22
Benzo(a)pyrene
Concen: 0.25 ug/mL
RT: 18.06 min Scan# 3047
Delta R.T. 0.01 min
Integration Range:
Scan=3042 to 3066
R.T.= 18.04 to 18.17 (min)
Tgt Ion:252 Resp: 86334

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	19.6	13.1	19.7



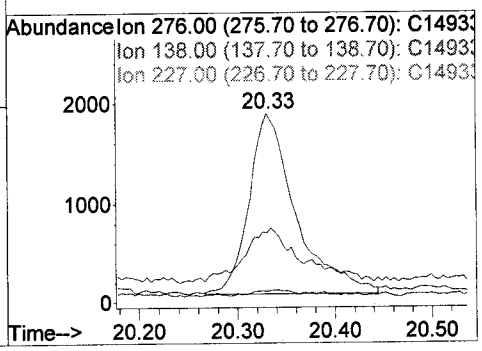
Data File : C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48
Sample : F4XQ0
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

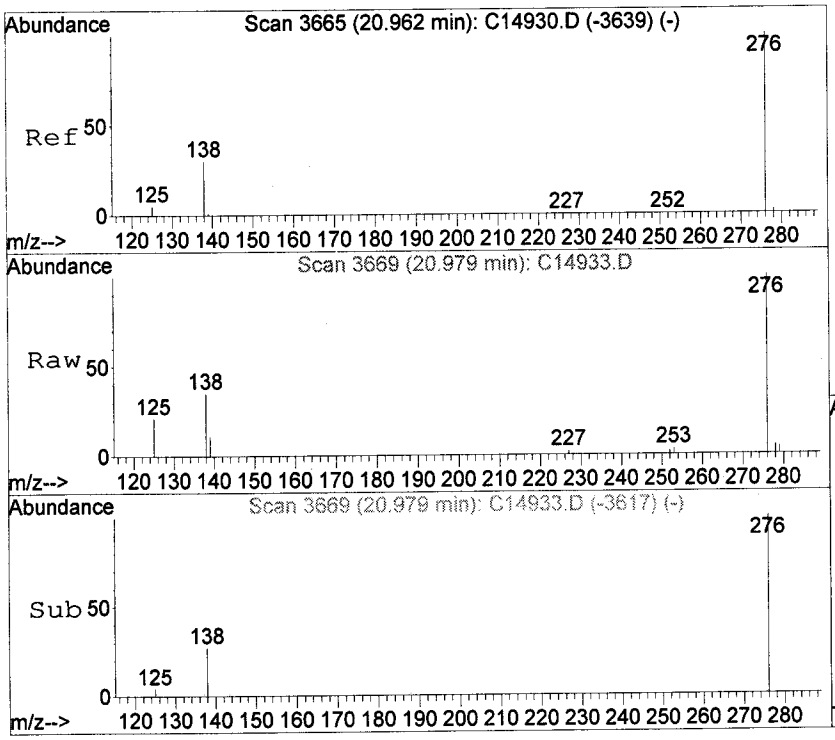
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.22 ug/mL
RT: 20.33 min Scan# 3515
Delta R.T. 0.01 min
Integration Range:
Scan=3500 to 3542
R.T.= 20.27 to 20.44 (min)
Tgt Ion:276 Resp: 60847

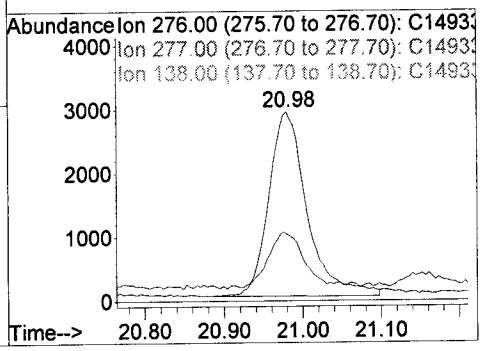
Ion	Ratio	Lower	Upper
276	100		
138	29.0	23.7	35.5
227	3.5	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.32 ug/mL
RT: 20.98 min Scan# 3669
Delta R.T. 0.02 min
Integration Range:
Scan=3644 to 3697
R.T.= 20.87 to 21.10 (min)
Tgt Ion:276 Resp: 98200

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	27.1	26.2	39.2

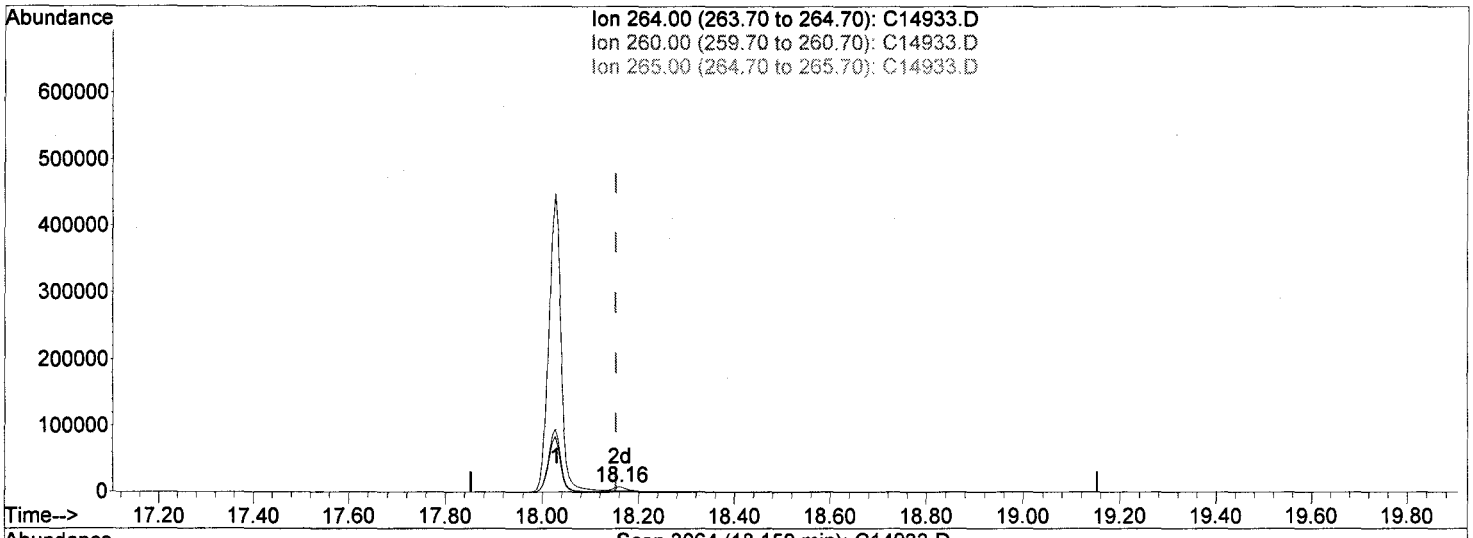


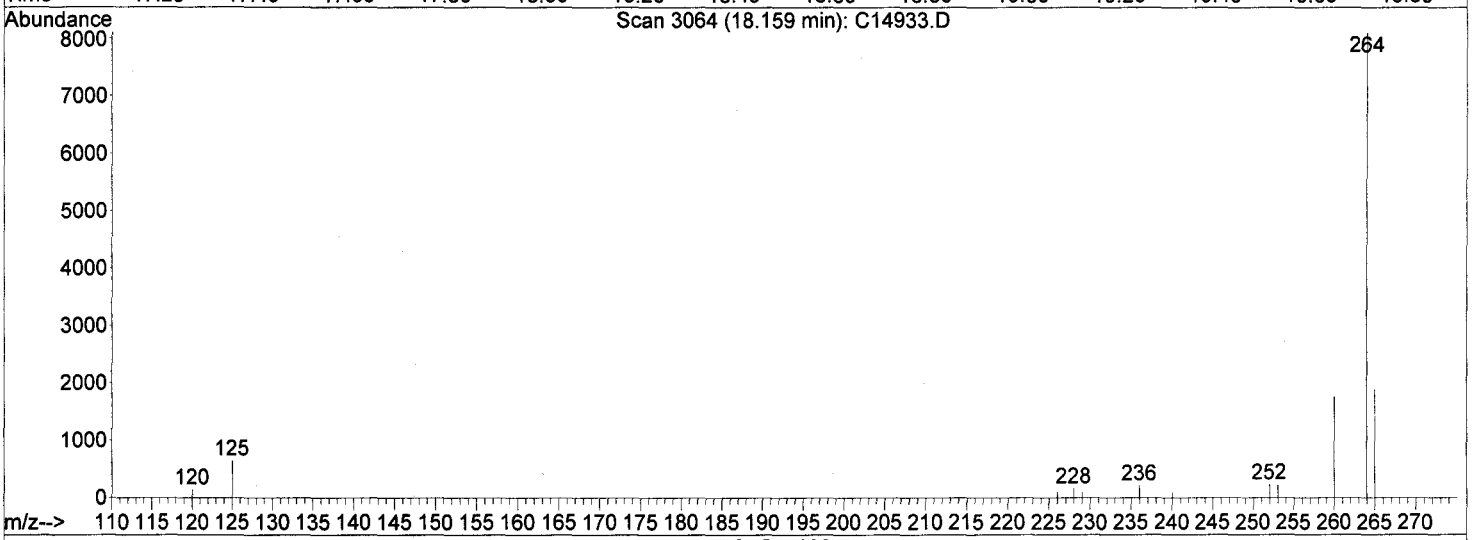
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14933.D
Acq On : 12/19/11 12:48 Operator: SK
Sample : F4XQ0 Inst : C5975
Misc : S-4476.01 80.6G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 10:21:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14933.D

(19) Perylene-d12

18.159min (+0.006) 0.4000ug/mL m

response 120052

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1216.43#
265.00	21.10	1392.44#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.02

Sample wt/vol: 80.30 (g/mL) G Lab File ID: C14934

Extraction: (Type) SONC

% Moisture: 59 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	J
91-57-6	2-Methylnaphthalene	3.0	U
208-96-8	Acenaphthylene	3.0	U
83-32-9	Acenaphthene	3.0	U
86-73-7	Fluorene	3.0	U
87-86-5	Pentachlorophenol	6.1	U
85-01-8	Phenanthrene	3.0	U
120-12-7	Anthracene	3.0	U
206-44-0	Fluoranthene	3.2	
129-00-0	Pyrene	3.7	
56-55-3	Benzo(a)anthracene	3.0	U
218-01-9	Chrysene	3.3	
205-99-2	Benzo(b)fluoranthene	3.9	
207-08-9	Benzo(k)fluoranthene	3.0	U
50-32-8	Benzo(a)pyrene	3.2	
193-39-5	Indeno(1,2,3-cd)pyrene	3.4	
53-70-3	Dibenzo(a,h)anthracene	3.0	U
191-24-2	Benzo(g,h,i)perylene	5.4	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19 Operator: SK
Sample : F4XQ1 Inst : C5975
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 10:22:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	150567	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	108182	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	200715	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	115930	0.4000	ug/mL	0.00
19) Perylene-d12	18.16	264	126472m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	85449	0.3674	ug/mL	0.00
Spiked Amount 0.400			Recovery =	91.85%		
13) Fluoranthene-d10	13.54	212	160199	0.3624	ug/mL	0.00
Spiked Amount 0.400			Recovery =	90.60%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	38650	0.0992	ug/mL#	92
14) Fluoranthene	13.57	202	45915	0.1052	ug/mL#	96
17) Chrysene	15.93	228	36528	0.1087	ug/mL#	79
18) Pyrene	13.93	202	59663	0.1207	ug/mL#	33
20) Benzo(b)fluoranthene	17.53	252	44852	0.1299	ug/mL#	62
22) Benzo(a)pyrene	18.06	252	37632	0.1051	ug/mL#	88
24) Indeno(1,2,3-cd)pyrene	20.33	276	31916	0.1117	ug/mL#	75
25) Benzo(g,h,i)perylene	20.98	276	56786	0.1772	ug/mL#	93

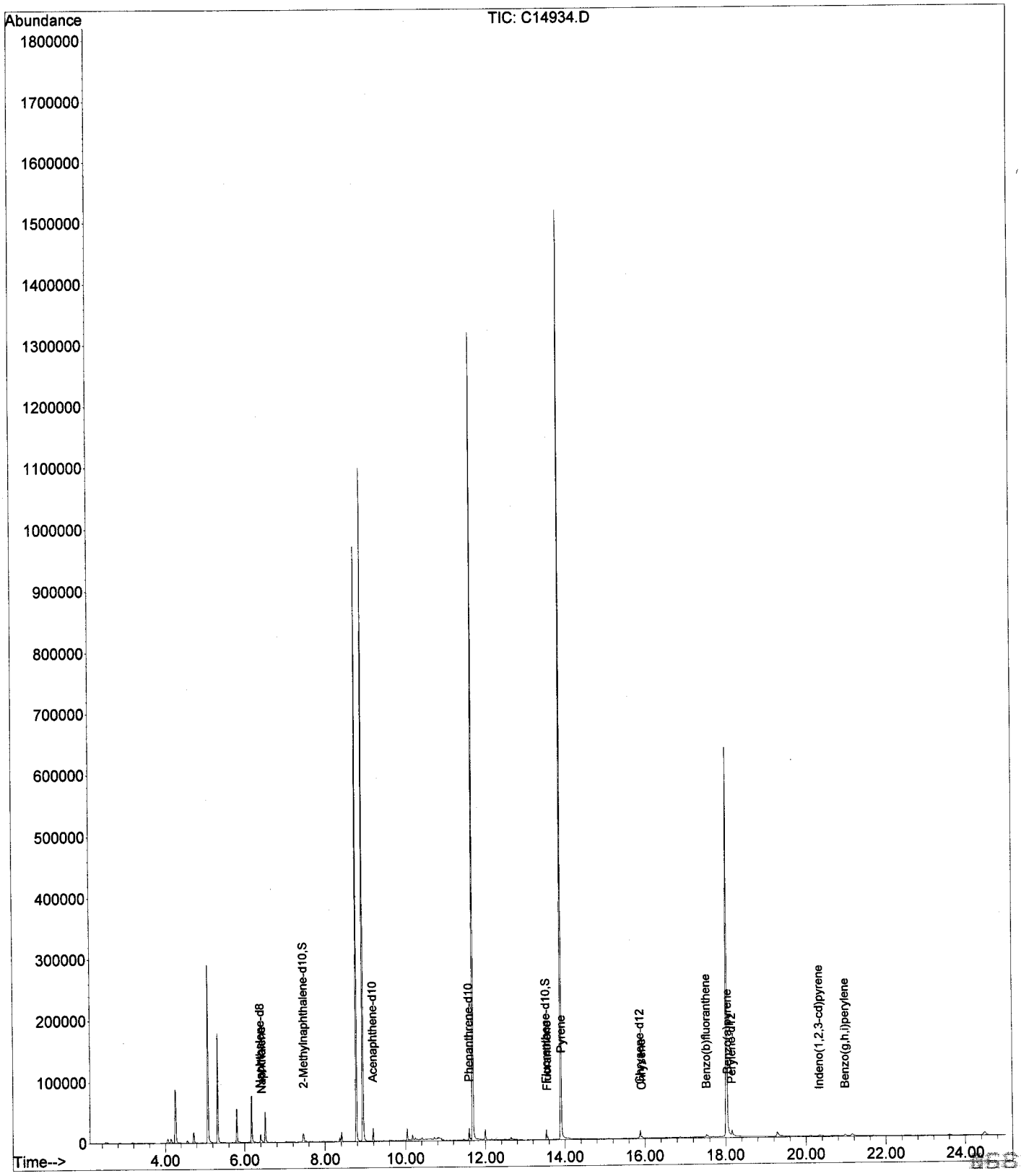
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8682

Quantitation Report (QT Reviewed)

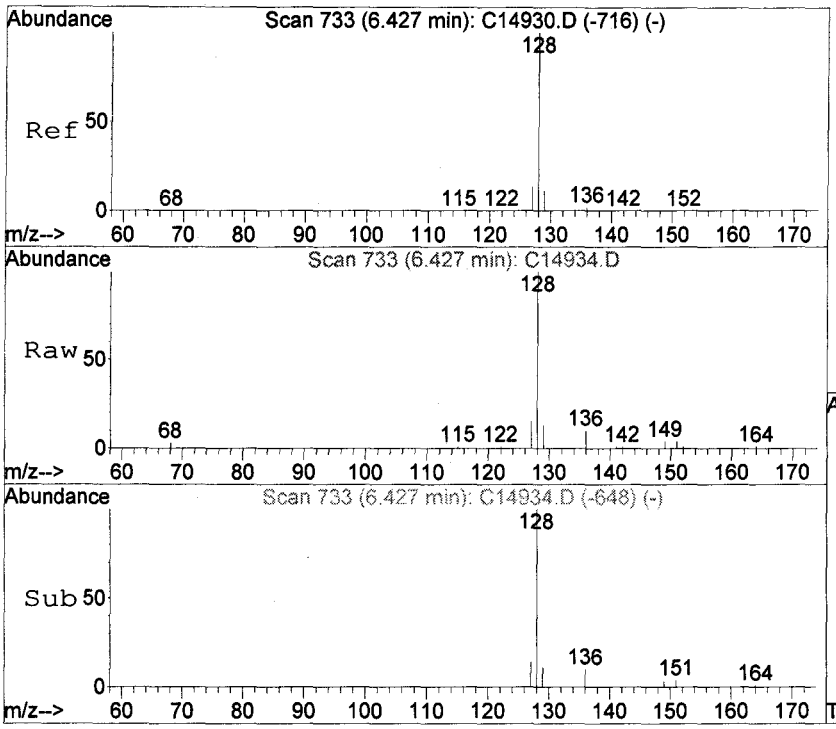
Data File: C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19 Operator: SK
Sample : F4XQ1 Inst : C5975
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 10:22:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



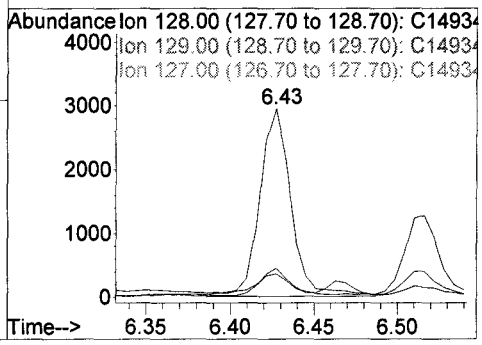
Data File : C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19
Sample : F4XQ1
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

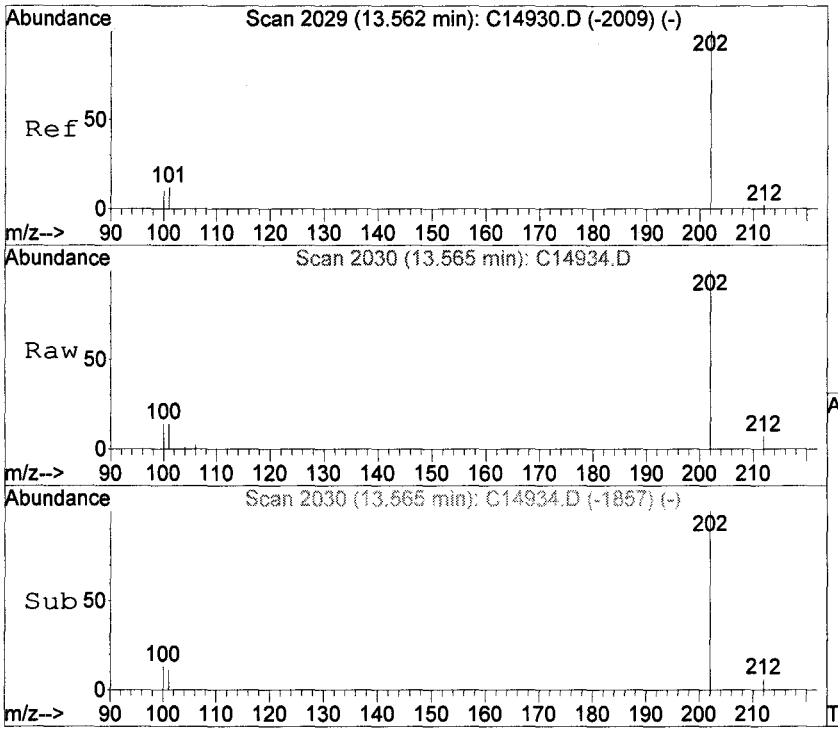
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.10 ug/mL
RT: 6.43 min Scan# 733
Delta R.T. 0.00 min
Integration Range:
Scan=726 to 743
R.T.= 6.39 to 6.49 (min)
Tgt Ion:128 Resp: 38650

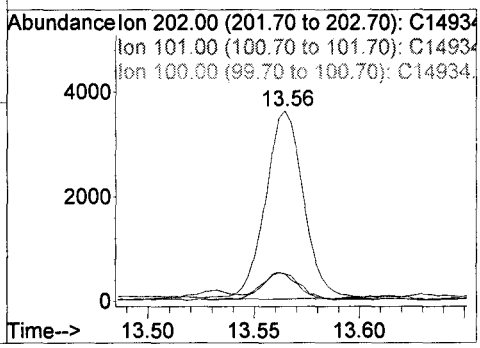
Ion	Ratio	Lower	Upper
128	100		
129	17.3	8.8	13.2#
127	14.0	10.7	16.1





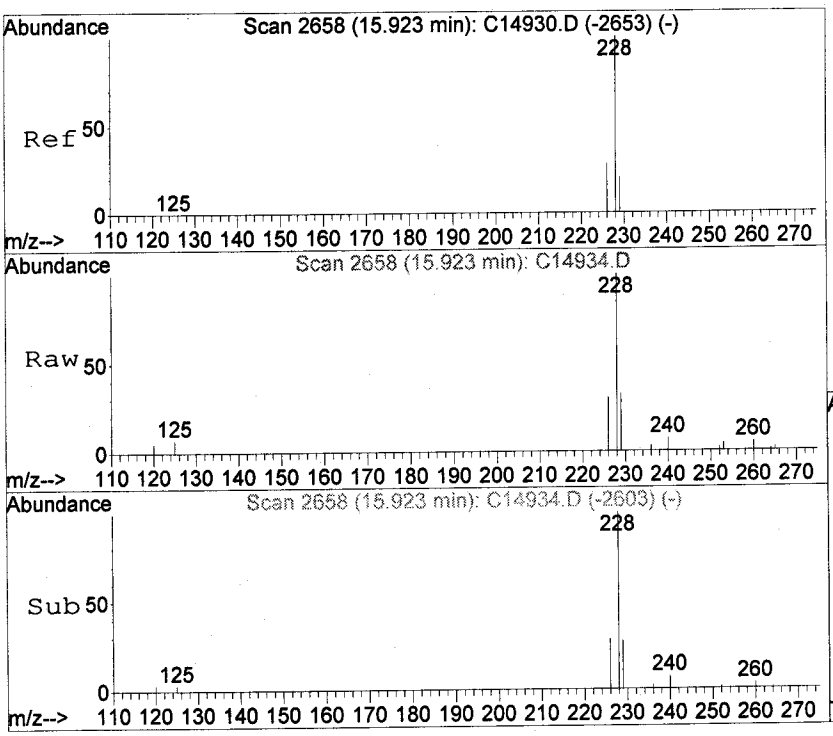
#14
Fluoranthene
Concen: 0.11 ug/mL
RT: 13.57 min Scan# 2030
Delta R.T. 0.01 min
Integration Range:
Scan=2017 to 2045
R.T.= 13.53 to 13.61 (min)
Tgt Ion:202 Resp: 45915

Ion	Ratio	Lower	Upper
202	100		
101	14.4	11.5	17.3
100	14.2	8.8	13.2#



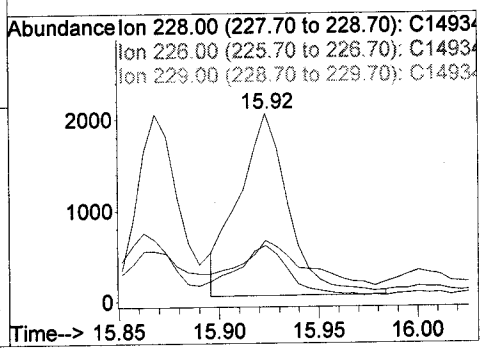
Data File : C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19
Sample : F4XQ1
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

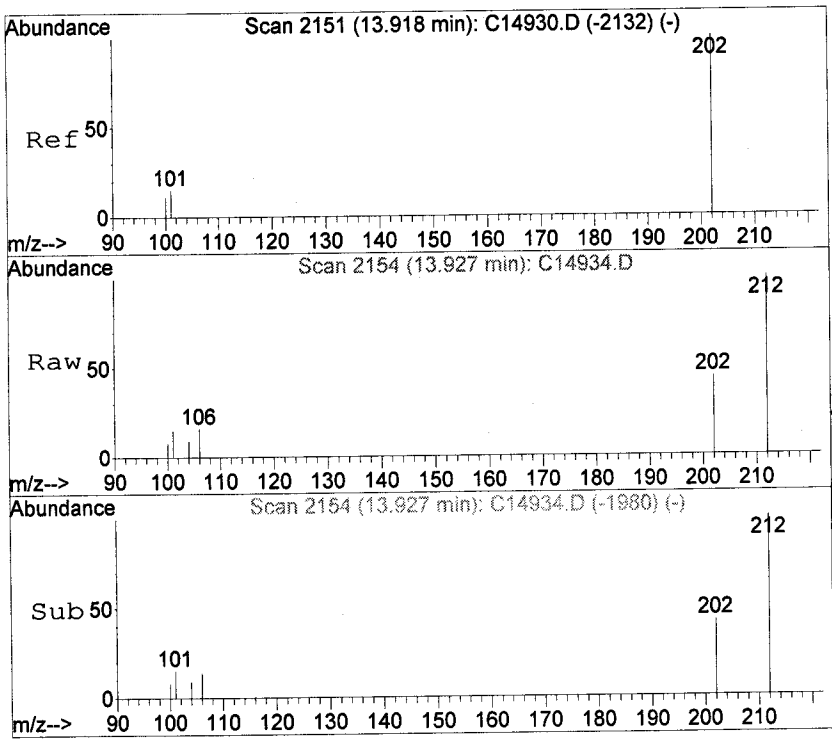
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#17
Chrysene
Concen: 0.11 ug/mL
RT: 15.93 min Scan# 2658
Delta R.T. 0.00 min
Integration Range:
Scan=2653 to 2669
R.T.= 15.90 to 15.98 (min)
Tgt Ion:228 Resp: 36528

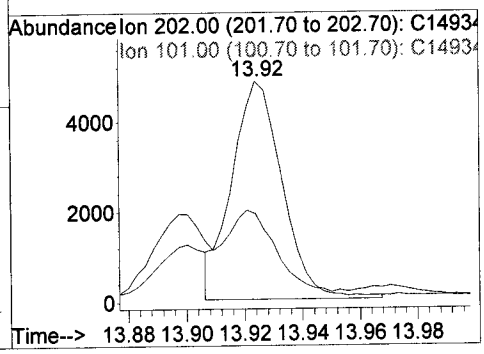
Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.8	34.2
229	39.2	15.9	23.9#





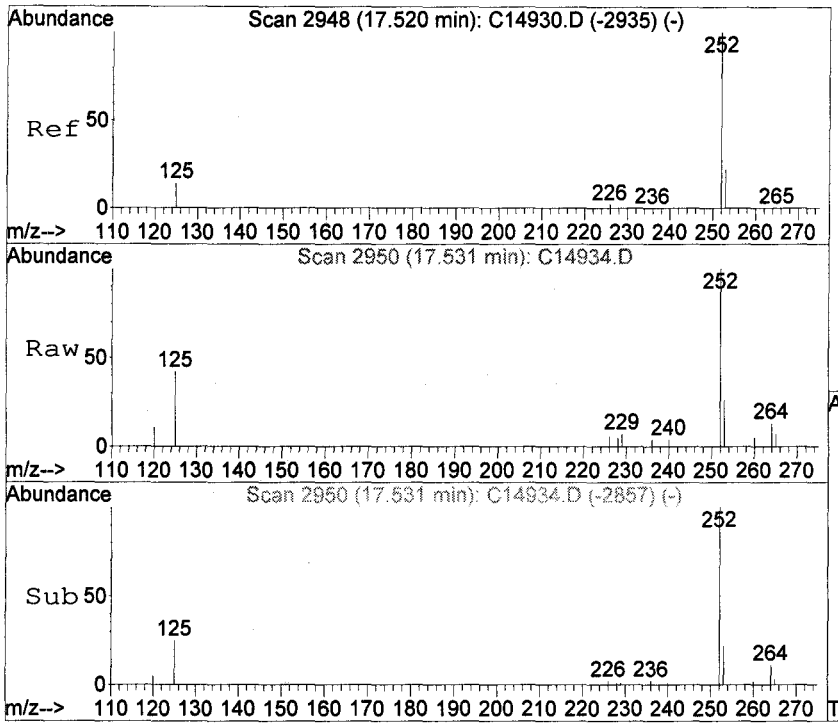
#18
Pyrene
Concen: 0.12 ug/mL
RT: 13.93 min Scan# 2154
Delta R.T. 0.01 min
Integration Range:
Scan=2147 to 2168
R.T.= 13.91 to 13.97 (min)
Tgt Ion:202 Resp: 59663

Ion	Ratio	Lower	Upper
202	100		
101	45.1	13.2	19.8#



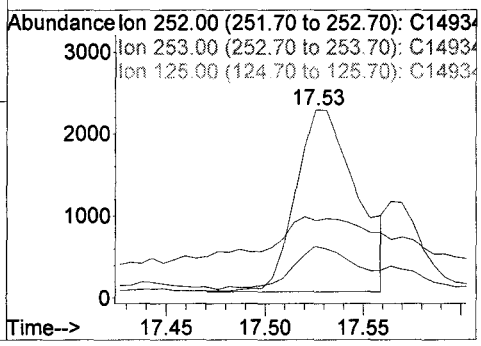
Data File : C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19
Sample : F4XQ1
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

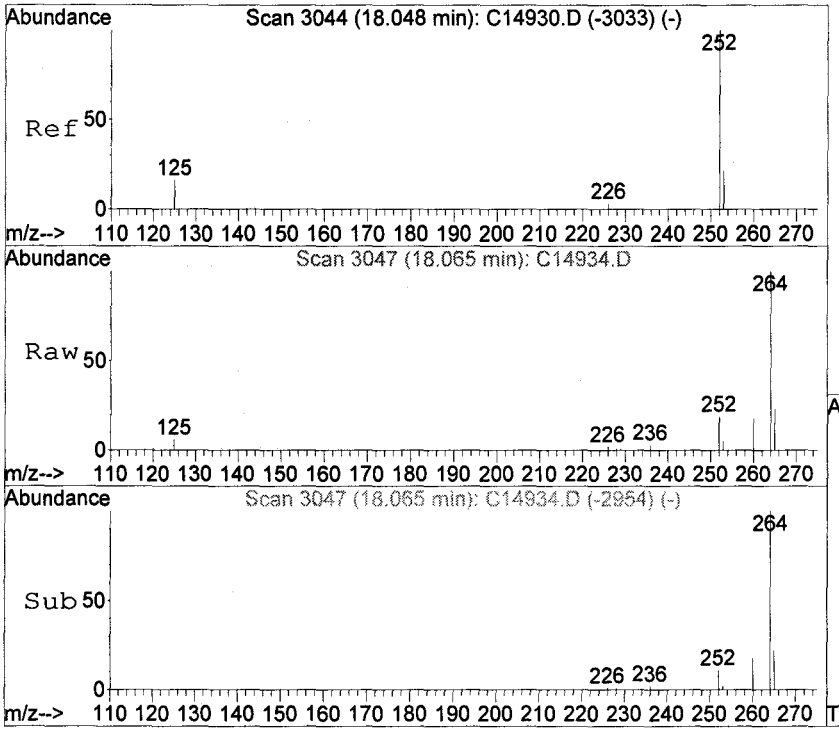
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#20
Benzo(b)fluoranthene
Concen: 0.13 ug/mL
RT: 17.53 min Scan# 2950
Delta R.T. 0.01 min
Integration Range:
Scan=2939 to 2955
R.T.= 17.47 to 17.56 (min)
Tgt Ion:252 Resp: 44852

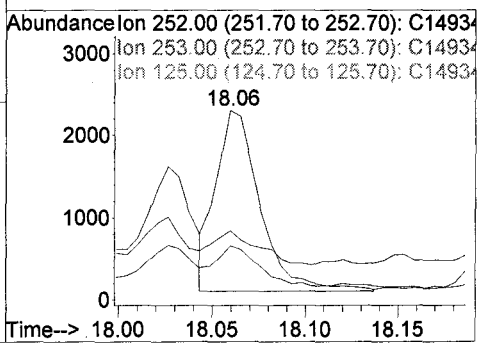
Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.5	26.3
125	51.6	12.3	18.5#





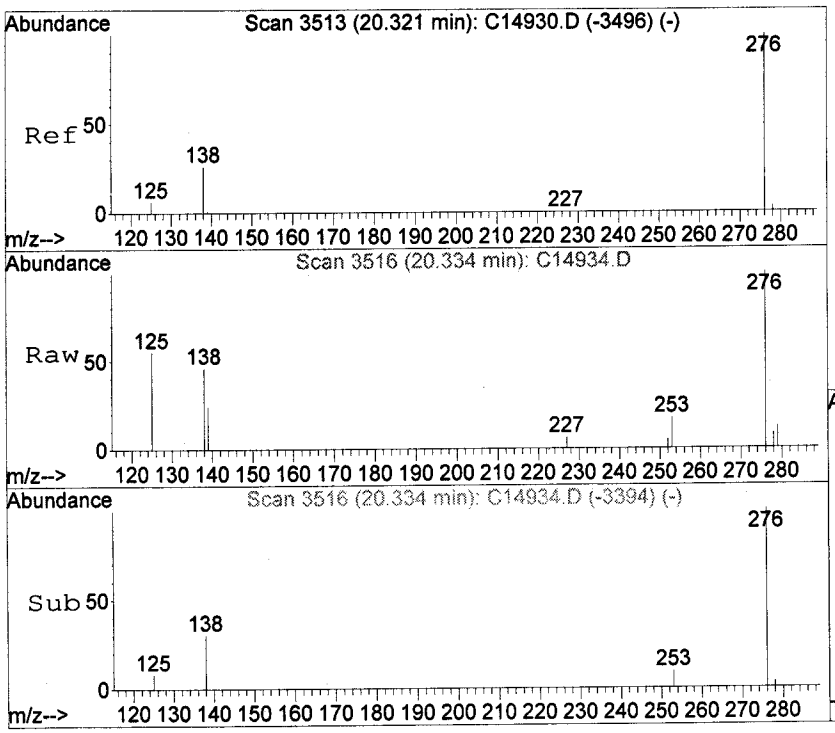
#22
Benzo(a)pyrene
Concen: 0.11 ug/mL
RT: 18.06 min Scan# 3047
Delta R.T. 0.01 min
Integration Range:
Scan=3043 to 3060
R.T.= 18.04 to 18.14 (min)
Tgt Ion:252 Resp: 37632

Ion	Ratio	Lower	Upper
252	100		
253	26.9	17.1	25.7#
125	21.7	13.1	19.7#



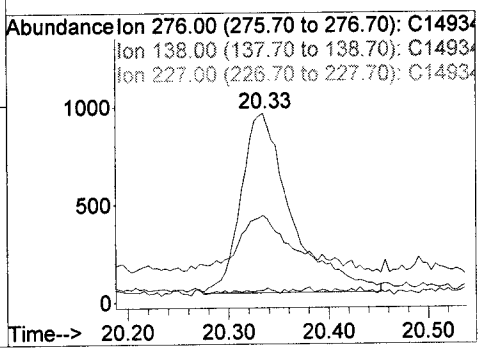
Data File : C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19
Sample : F4XQ1
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

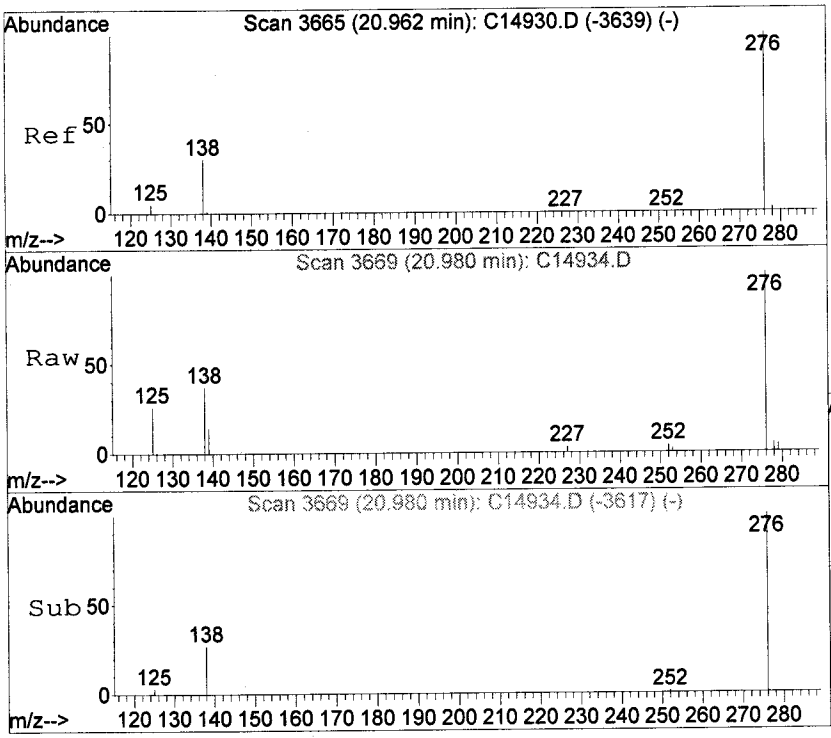
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.11 ug/mL
RT: 20.33 min Scan# 3516
Delta R.T. 0.01 min
Integration Range:
Scan=3502 to 3544
R.T.= 20.28 to 20.45 (min)
Tgt Ion:276 Resp: 31916

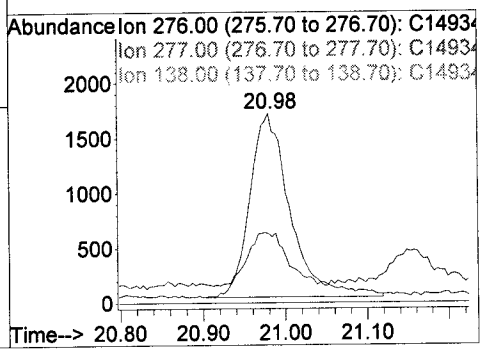
Ion	Ratio	Lower	Upper
276	100		
138	42.8	23.7	35.5#
227	0.9	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.18 ug/mL
RT: 20.98 min Scan# 3669
Delta R.T. 0.02 min
Integration Range:
Scan=3651 to 3702
R.T.= 20.90 to 21.12 (min)
Tgt Ion:276 Resp: 56786

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.9	26.2	39.2

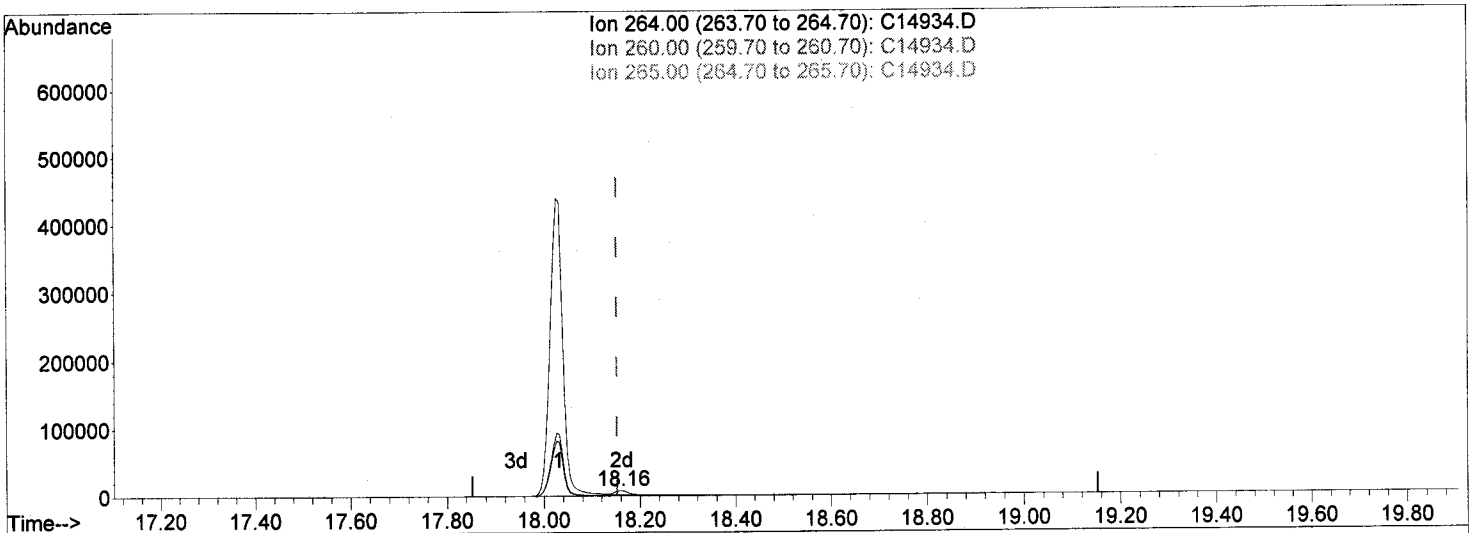


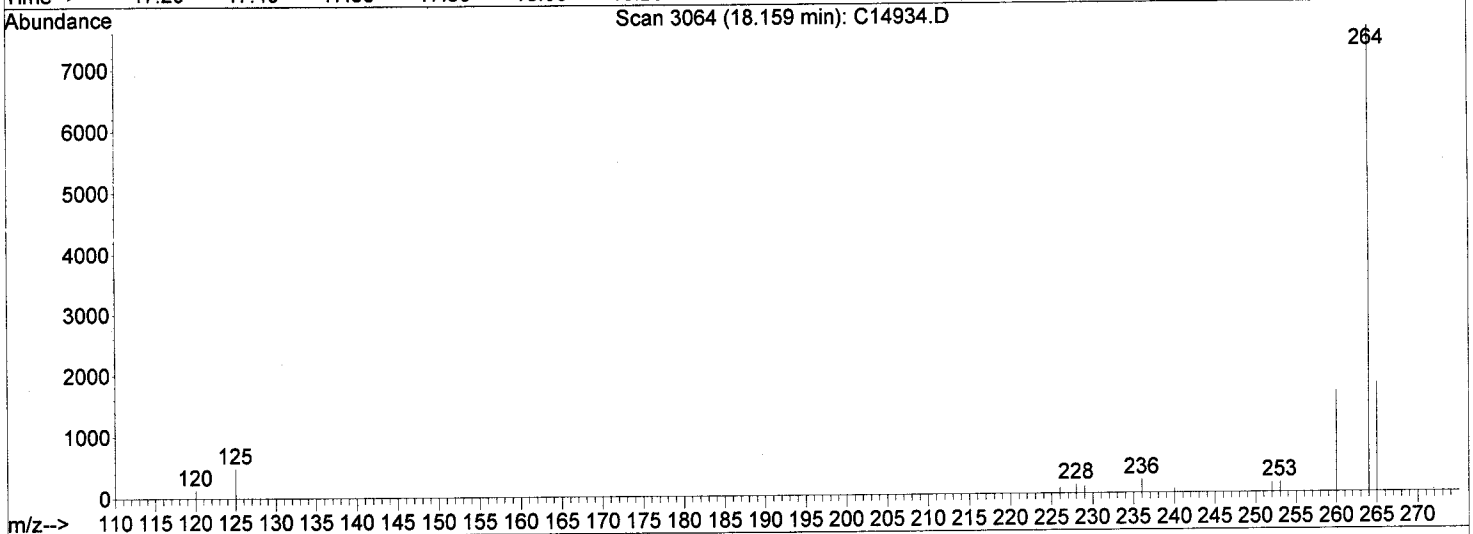
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14934.D
Acq On : 12/19/11 13:19 Operator: SK
Sample : F4XQ1 Inst : C5975
Misc : S-4476.02 80.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 10:22:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14934.D

(19) Perylene-d12

18.159min (+0.006) 0.4000ug/mL m

response 126472

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1176.36#
265.00	21.10	1348.74#
0.00	0.00	0.00

6688

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.03

Sample wt/vol: 60.70 (g/mL) G Lab File ID: C14935

Extraction: (Type) SONC

% Moisture: 42 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.2	
91-57-6	2-Methylnaphthalene	3.7	
208-96-8	Acenaphthylene	5.2	
83-32-9	Acenaphthene	2.8	U
86-73-7	Fluorene	2.8	U
87-86-5	Pentachlorophenol	5.7	U
85-01-8	Phenanthrene	5.2	
120-12-7	Anthracene	4.2	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	9.6	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	13	
207-08-9	Benzo(k)fluoranthene	4.1	
50-32-8	Benzo(a)pyrene	13	
193-39-5	Indeno(1,2,3-cd)pyrene	9.0	
53-70-3	Dibenzo(a,h)anthracene	3.6	
191-24-2	Benzo(g,h,i)perylene	13	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50 Operator: SK
Sample : F4XQ2 Inst : C5975
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 10:23:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	151318	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	109763	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	195719	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	117877	0.4000	ug/mL	0.00
19) Perylene-d12	18.16	264	130790m	0.4000	ug/mL	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	86046	0.3681	ug/mL	0.00
Spiked Amount 0.400			Recovery =	92.02%		
13) Fluoranthene-d10	13.54	212	163833	0.3801	ug/mL	0.00
Spiked Amount 0.400			Recovery =	95.02%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	44105	0.1127	ug/mL#	92
4) 2-Methylnaphthalene	7.53	142	30961	0.1300	ug/mL	87
6) Acenaphthylene	8.96	152	81464	0.1817	ug/mL#	85
11) Phenanthrene	11.63	178	81799	0.1836	ug/mL#	92
12) Anthracene	11.72	178	66103	0.1466	ug/mL#	70
14) Fluoranthene	13.57	202	164024	0.3856	ug/mL	100
16) Benzo(a)anthracene	15.87	228	111988	0.3392	ug/mL#	55
17) Chrysene	15.93	228	152321	0.4460	ug/mL#	78
18) Pyrene	13.93	202	237101	0.4718	ug/mL#	85
20) Benzo(b)fluoranthene	17.53	252	168809	0.4726	ug/mL#	80
21) Benzo(k)fluoranthene	17.57	252	60546	0.1440	ug/mL#	83
22) Benzo(a)pyrene	18.07	252	173974	0.4696	ug/mL	94
23) Dibenzo(a,h)anthracene	20.40	278	28407	0.1276	ug/mL#	69
24) Indeno(1,2,3-cd)pyrene	20.34	276	93167	0.3153	ug/mL#	87
25) Benzo(g,h,i)perylene	20.98	276	149802	0.4519	ug/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

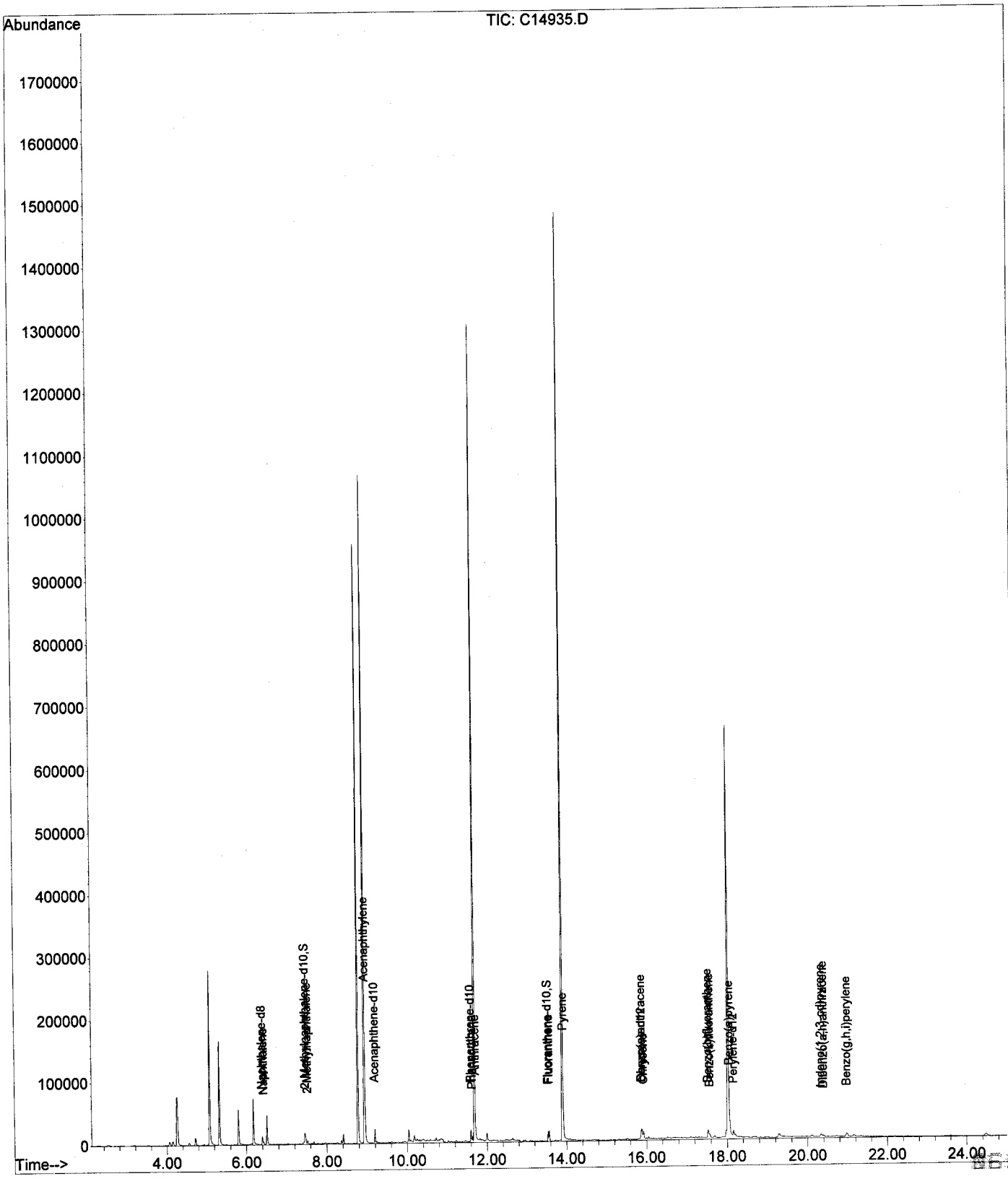
8698

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

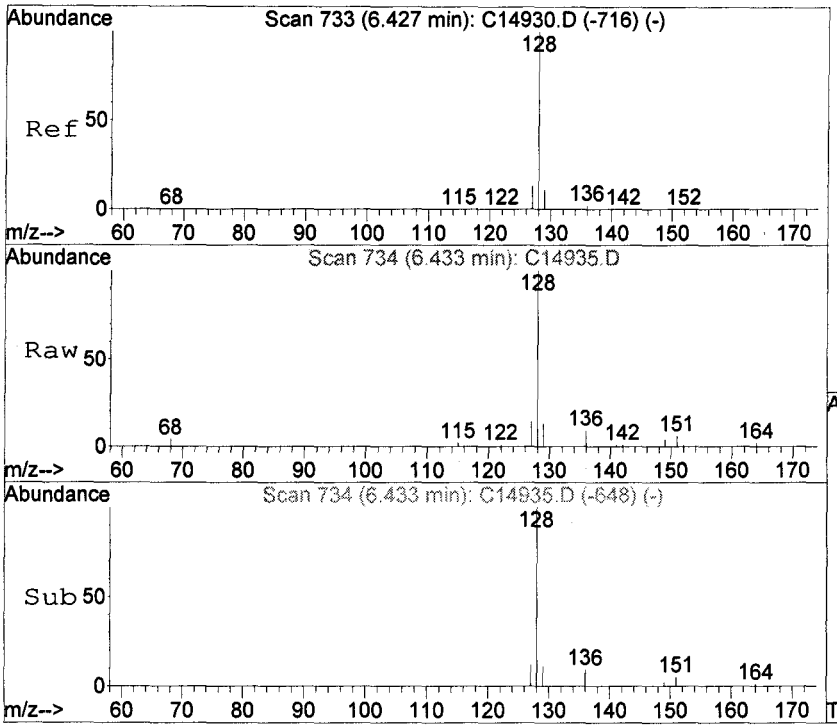
Operator: SK
Inst : C5975

Quant Time: Dec 20 10:23:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



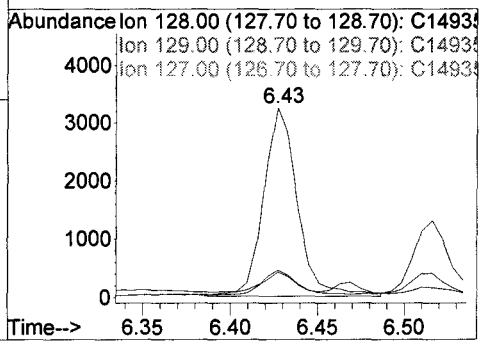
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

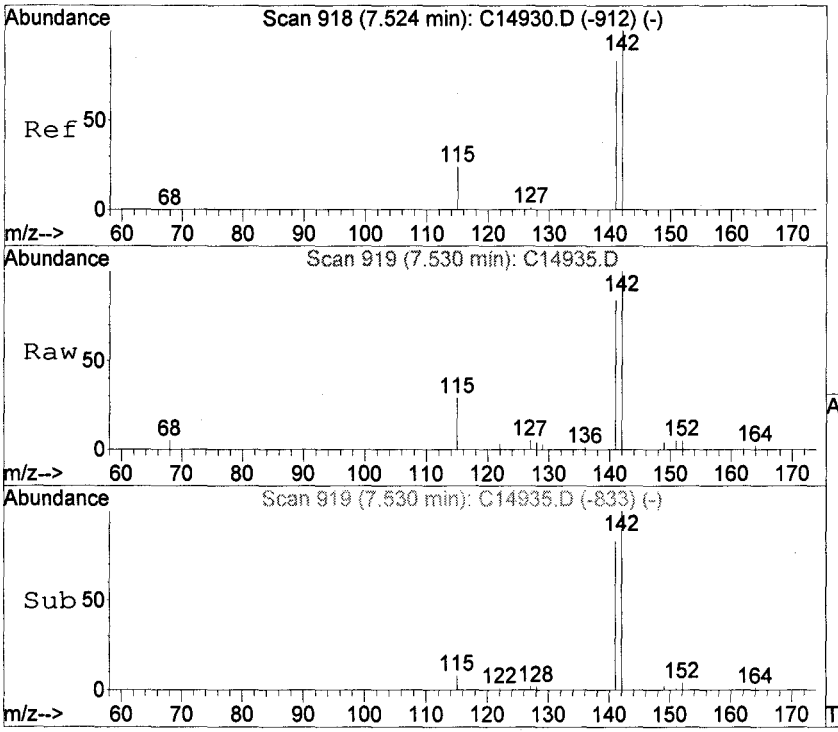
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.11 ug/mL
RT: 6.43 min Scan# 734
Delta R.T. 0.01 min
Integration Range:
Scan=726 to 743
R.T.= 6.39 to 6.49 (min)
Tgt Ion:128 Resp: 44105

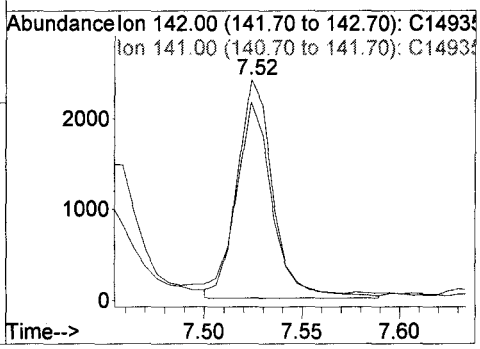
Ion	Ratio	Lower	Upper
128	100		
129	16.8	8.8	13.2#
127	14.1	10.7	16.1





#4
2-Methylnaphthalene
Concen: 0.13 ug/mL
RT: 7.53 min Scan# 919
Delta R.T. 0.01 min
Integration Range:
Scan=914 to 929
R.T.= 7.50 to 7.59 (min)
Tgt Ion:142 Resp: 30961

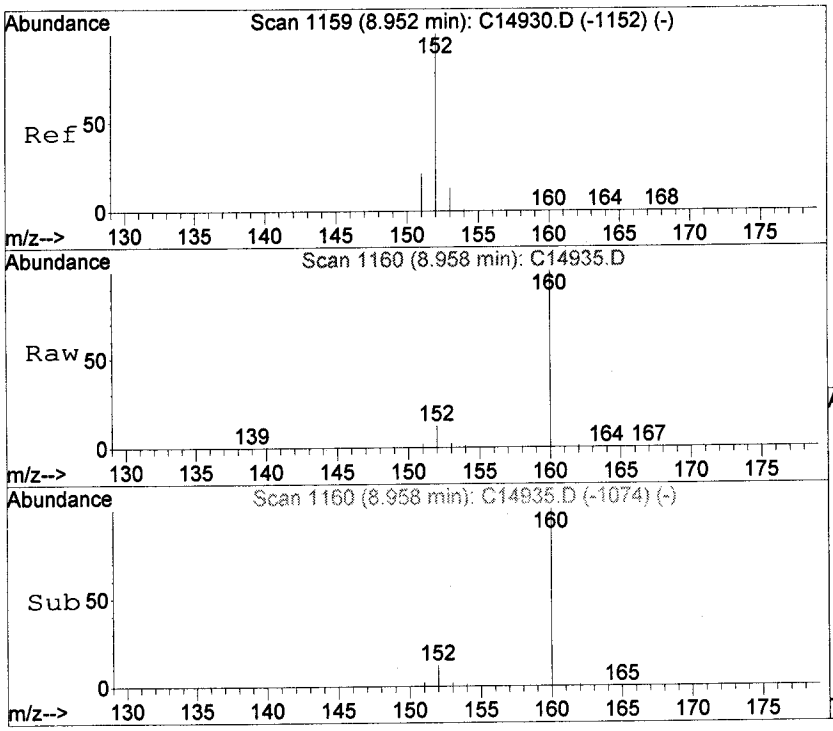
Ion	Ratio	Lower	Upper
142	100		
141	97.0	67.9	101.9



0692

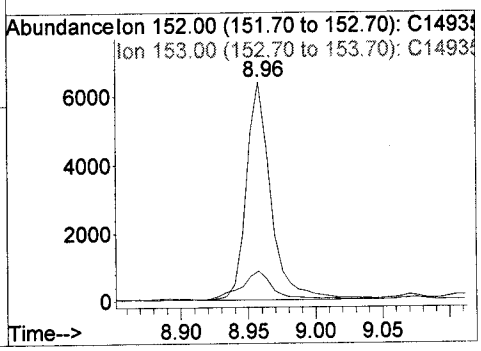
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

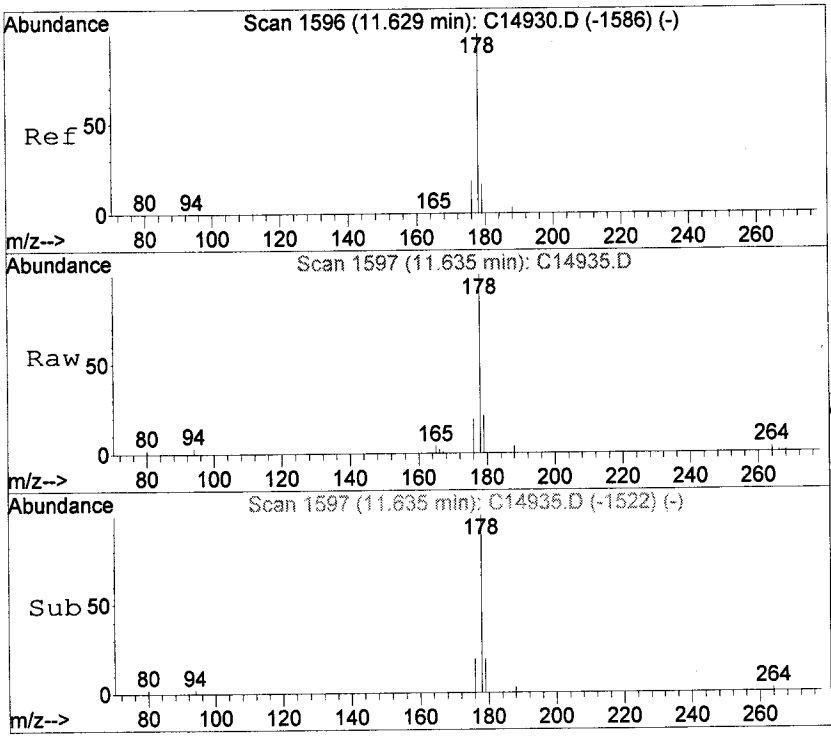
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.18 ug/mL
RT: 8.96 min Scan# 1160
Delta R.T. 0.01 min
Integration Range:
Scan=1153 to 1175
R.T.= 8.92 to 9.05 (min)
Tgt Ion:152 Resp: 81464

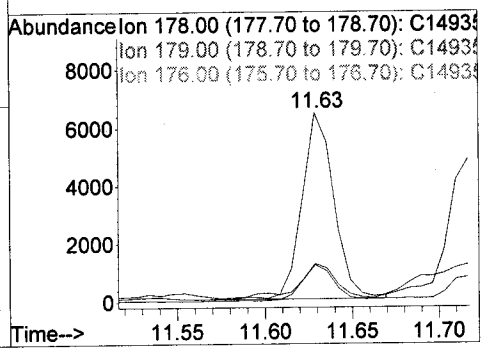
Ion	Ratio	Lower	Upper
152	100		
153	18.9	10.5	15.7#





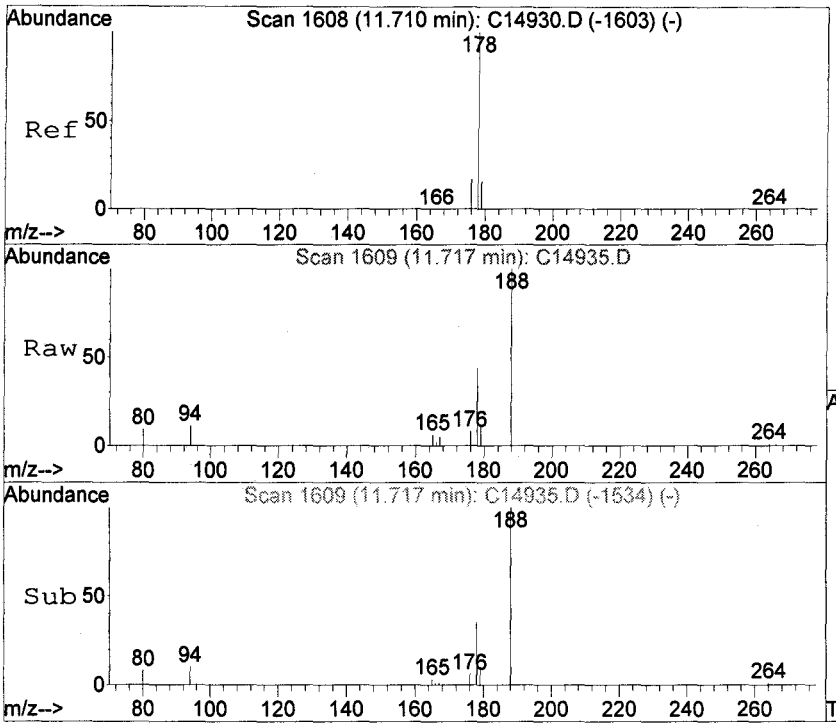
#11
Phenanthrene
Concen: 0.18 ug/mL
RT: 11.63 min Scan# 1597
Delta R.T. 0.01 min
Integration Range:
Scan=1587 to 1602
R.T.= 11.57 to 11.67 (min)
Tgt Ion:178 Resp: 81799

Ion	Ratio	Lower	Upper
178	100		
179	21.5	12.2	18.4#
176	19.4	14.5	21.7



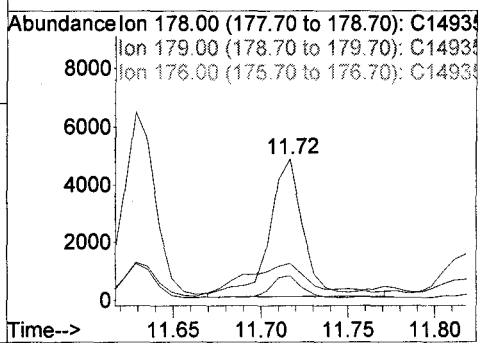
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

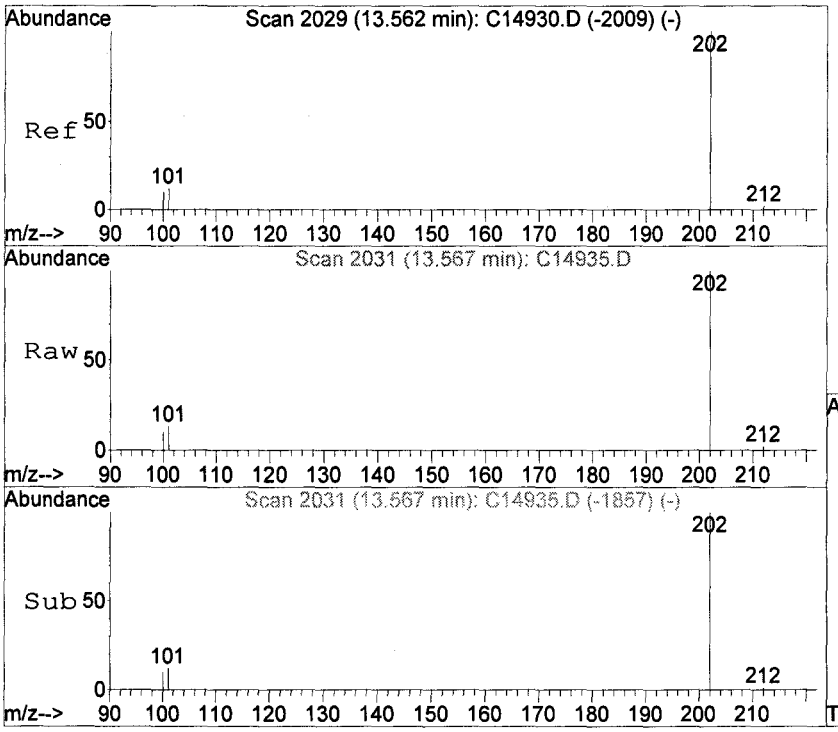
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.15 ug/mL
RT: 11.72 min Scan# 1609
Delta R.T. 0.01 min
Integration Range:
Scan=1602 to 1617
R.T.= 11.67 to 11.77 (min)
Tgt Ion:178 Resp: 66103

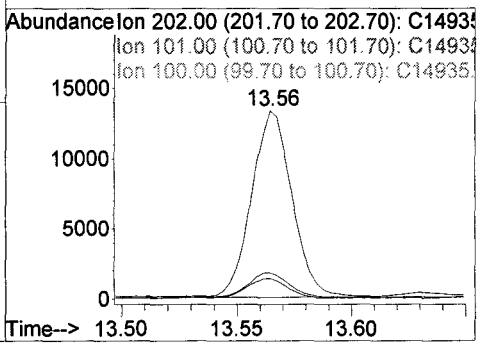
Ion	Ratio	Lower	Upper
178	100		
179	40.3	12.4	18.6#
176	19.3	13.8	20.8





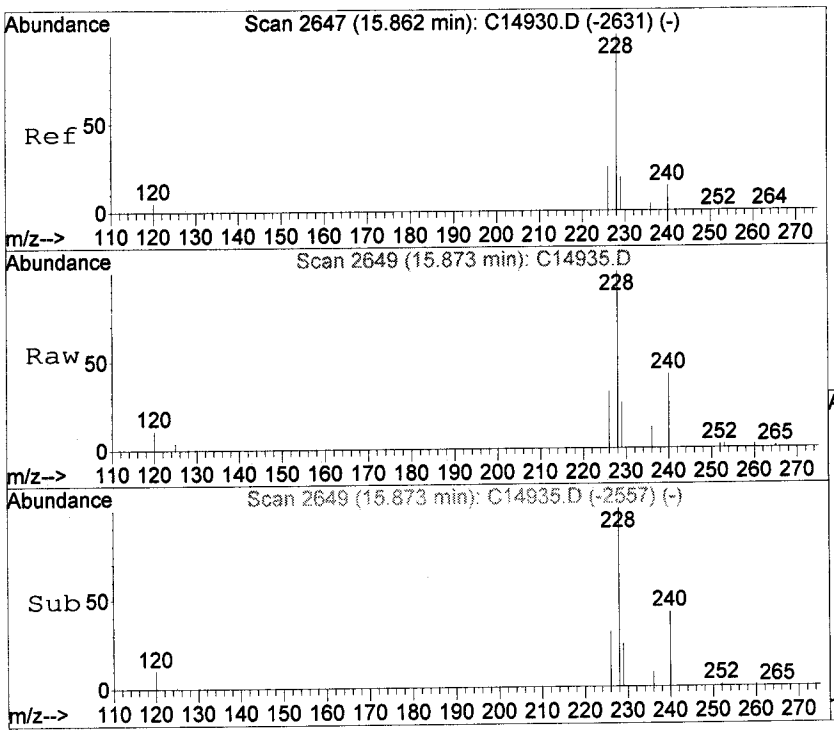
#14
Fluoranthene
Concen: 0.39 ug/mL
RT: 13.57 min Scan# 2031
Delta R.T. 0.01 min
Integration Range:
Scan=2020 to 2046
R.T.= 13.54 to 13.61 (min)
Tgt Ion:202 Resp: 164024

Ion	Ratio	Lower	Upper
202	100		
101	14.4	11.5	17.3
100	11.2	8.8	13.2



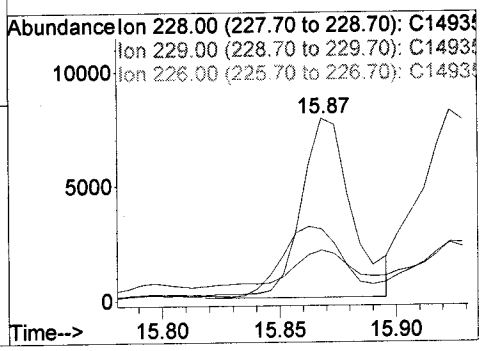
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

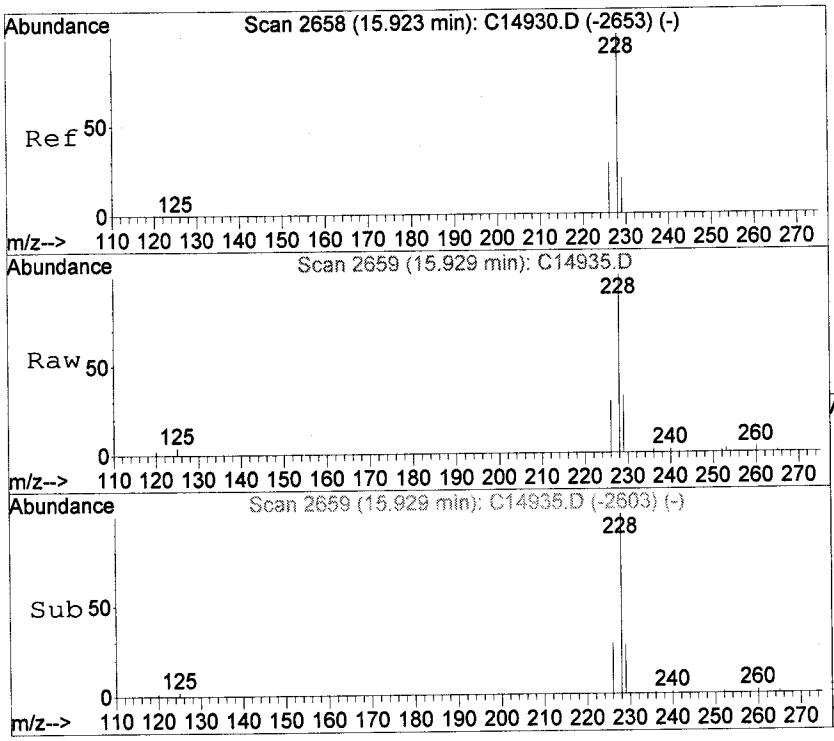
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.34 ug/mL
RT: 15.87 min Scan# 2649
Delta R.T. 0.01 min
Integration Range:
Scan=2639 to 2653
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 111988

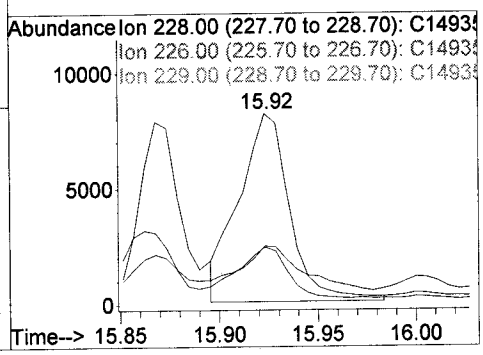
Ion	Ratio	Lower	Upper
228	100		
229	37.6	15.8	23.8#
226	51.0	20.5	30.7#





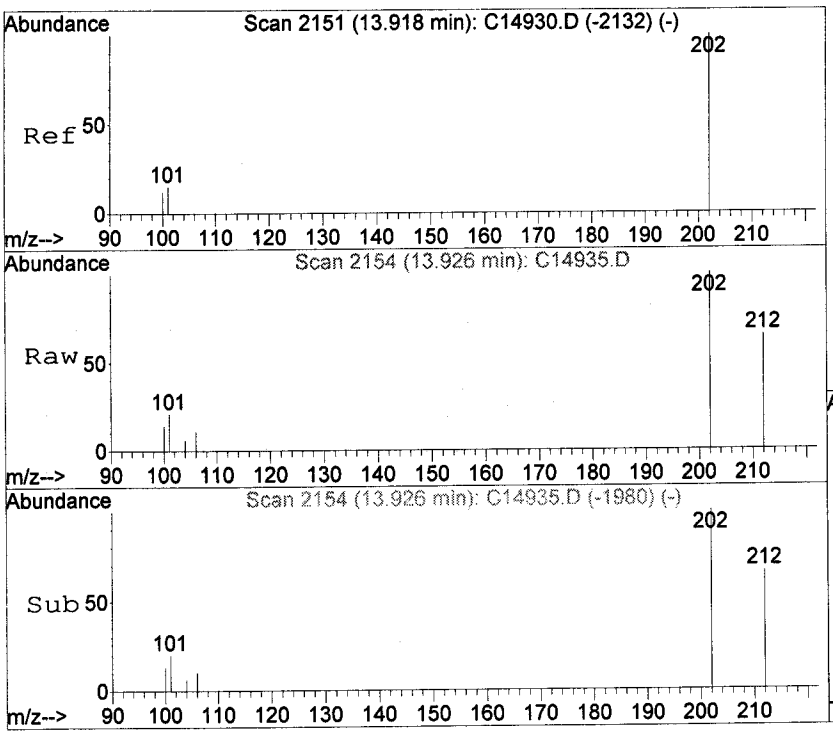
#17
Chrysene
Concen: 0.45 ug/mL
RT: 15.93 min Scan# 2659
Delta R.T. 0.01 min
Integration Range:
Scan=2653 to 2669
R.T.= 15.90 to 15.98 (min)
Tgt Ion:228 Resp: 152321

Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.8	34.2
229	38.2	15.9	23.9#



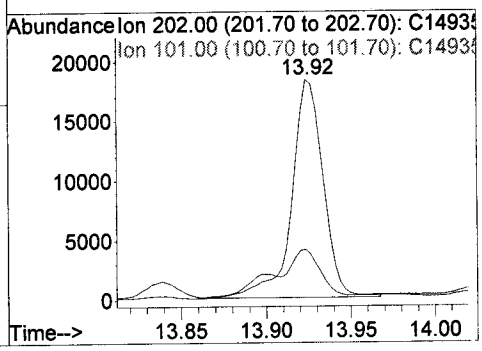
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

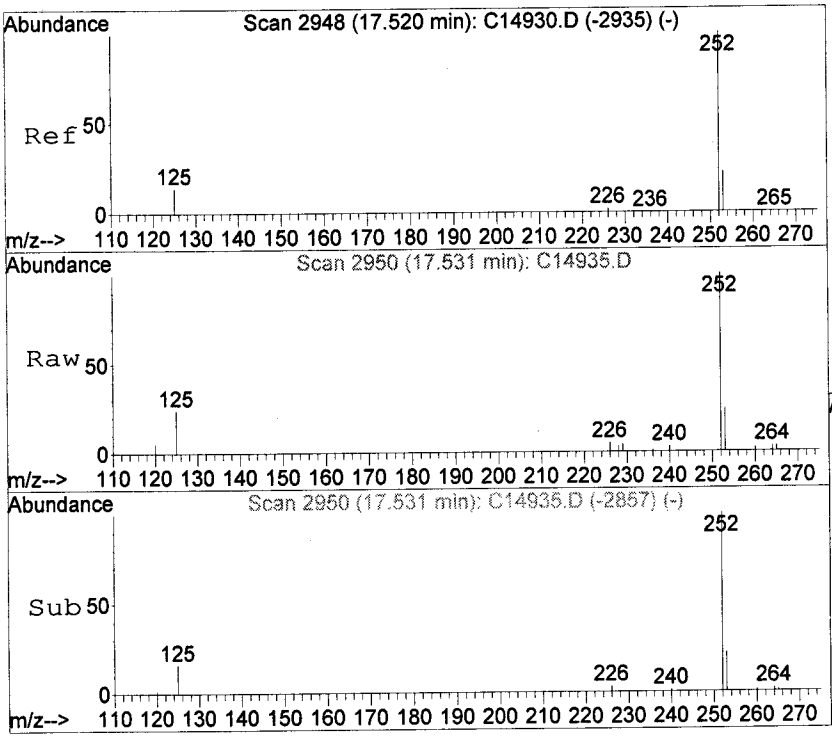
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.47 ug/mL
RT: 13.93 min Scan# 2154
Delta R.T. 0.01 min
Integration Range:
Scan=2133 to 2168
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 237101

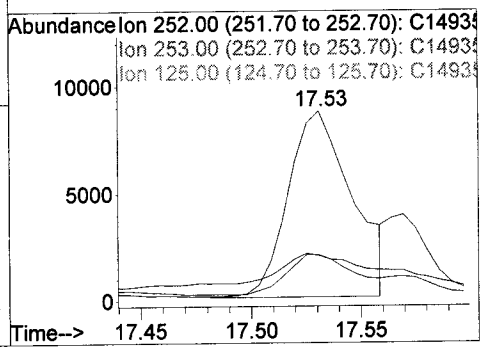
Ion	Ratio	Lower	Upper
202	100		
101	22.9	13.2	19.8#





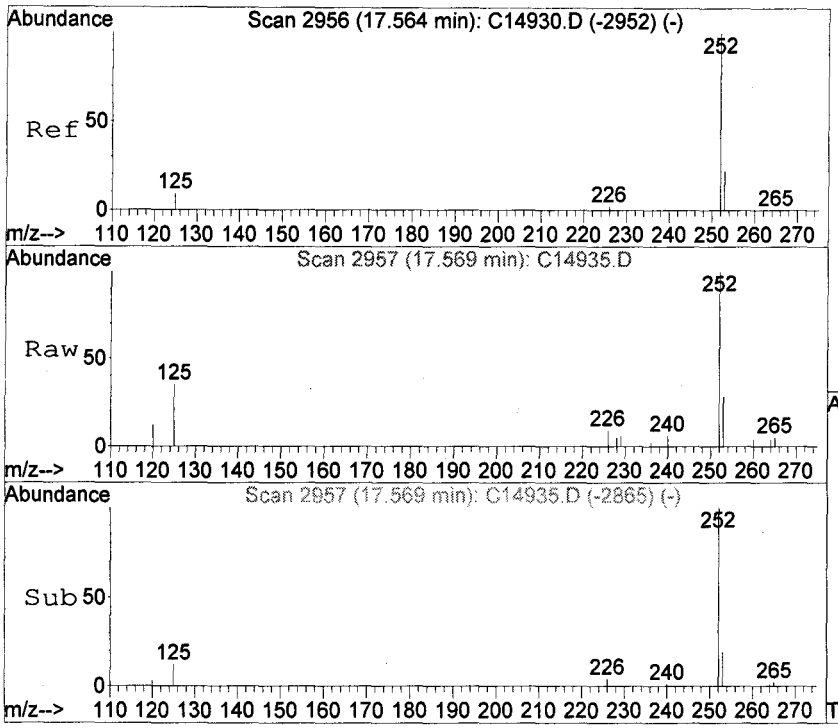
#20
Benzo(b)fluoranthene
Concen: 0.47 ug/mL
RT: 17.53 min Scan# 2950
Delta R.T. 0.01 min
Integration Range:
Scan=2941 to 2955
R.T.= 17.48 to 17.56 (min)
Tgt Ion:252 Resp: 168809

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	34.1	12.3	18.5#



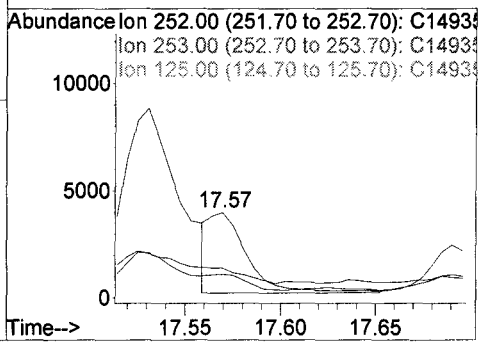
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

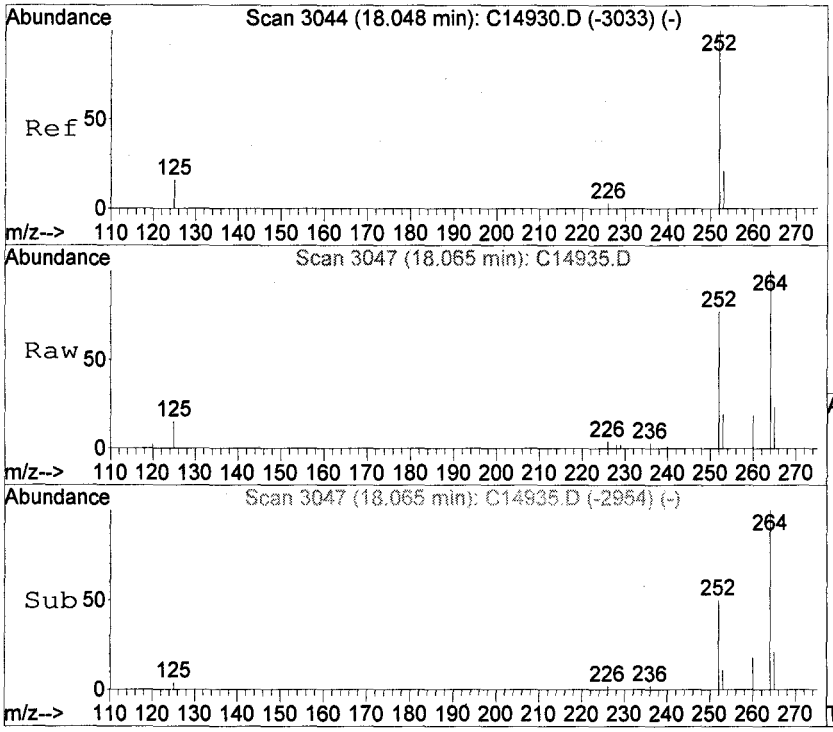
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.14 ug/mL
RT: 17.57 min Scan# 2957
Delta R.T. 0.01 min
Integration Range:
Scan=2955 to 2972
R.T.= 17.56 to 17.65 (min)
Tgt Ion:252 Resp: 60546

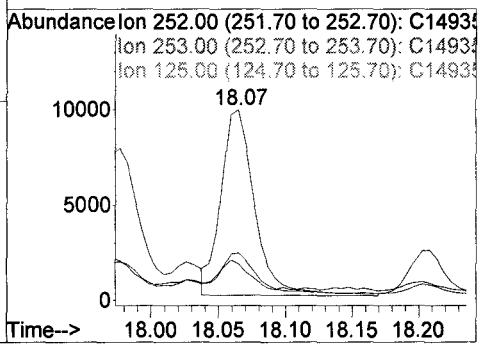
Ion	Ratio	Lower	Upper
252	100		
253	20.7	17.7	26.5
125	0.0	12.4	18.6#





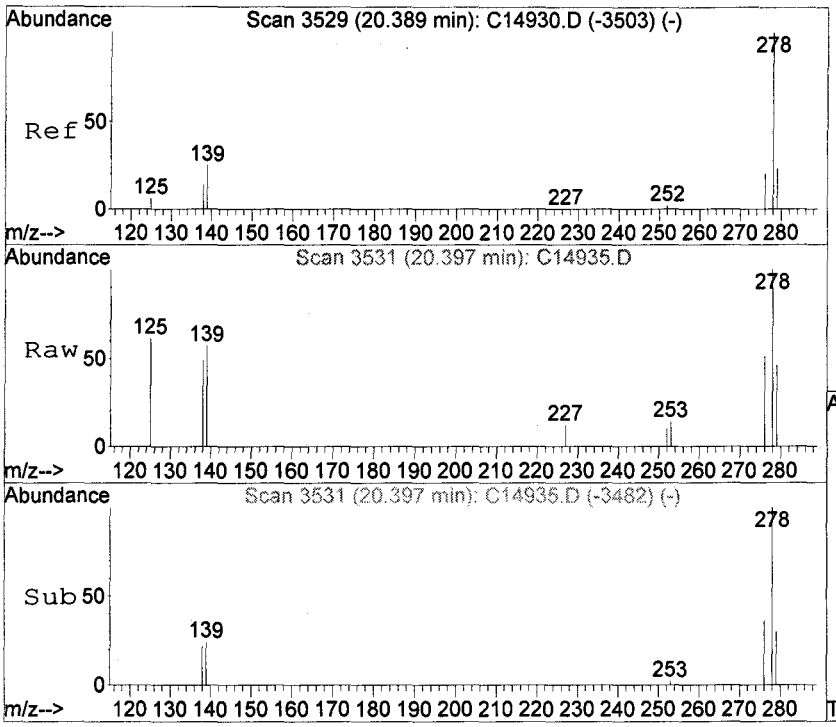
#22
Benzo(a)pyrene
Concen: 0.47 ug/mL
RT: 18.07 min Scan# 3047
Delta R.T. 0.01 min
Integration Range:
Scan=3042 to 3066
R.T.= 18.04 to 18.17 (min)
Tgt Ion:252 Resp: 173974

Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.1	25.7
125	18.2	13.1	19.7



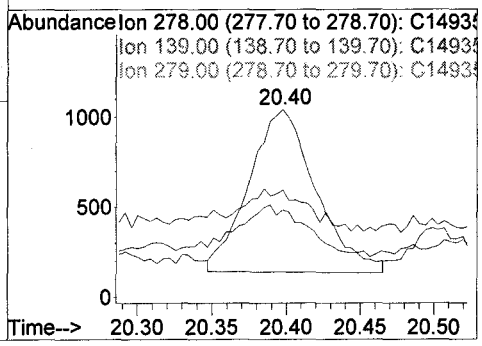
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

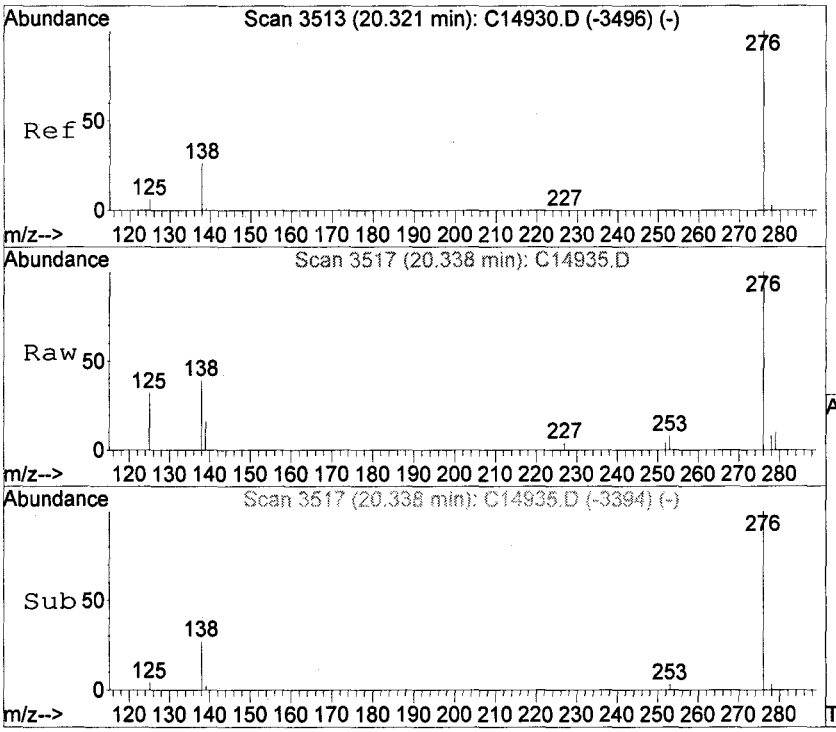
Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.13 ug/mL
RT: 20.40 min Scan# 3531
Delta R.T. 0.01 min
Integration Range:
Scan=3519 to 3547
R.T.= 20.35 to 20.46 (min)
Tgt Ion:278 Resp: 28407

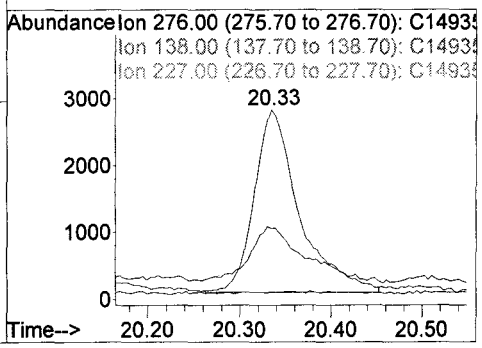
Ion	Ratio	Lower	Upper
278	100		
139	16.5	19.8	29.6#
279	0.0	18.4	27.6#





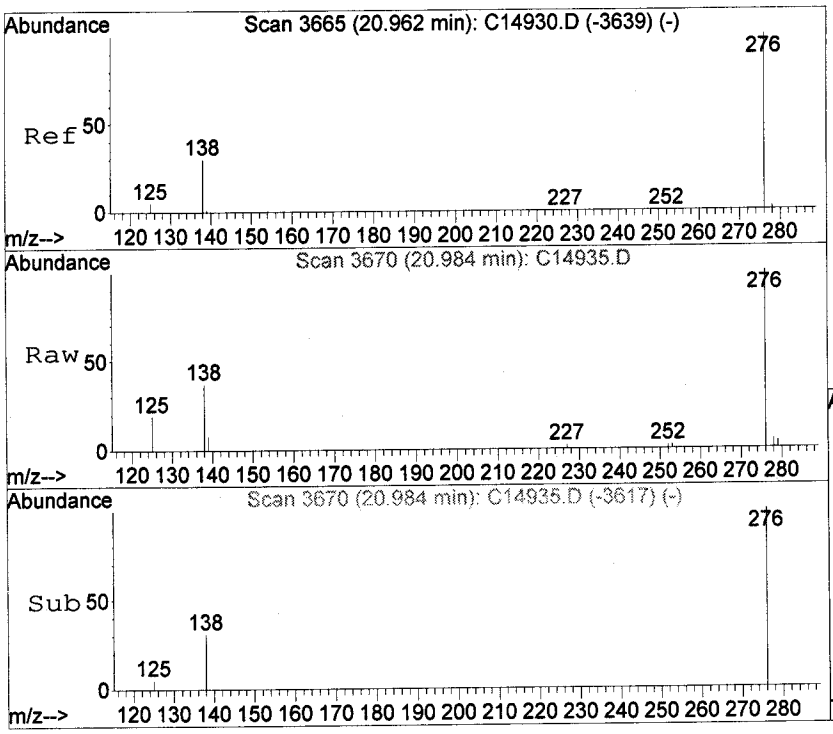
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.32 ug/mL
RT: 20.34 min Scan# 3517
Delta R.T. 0.02 min
Integration Range:
Scan=3499 to 3544
R.T.= 20.26 to 20.45 (min)
Tgt Ion:276 Resp: 93167

Ion	Ratio	Lower	Upper
276	100		
138	36.4	23.7	35.5#
227	0.4	0.0	0.0#



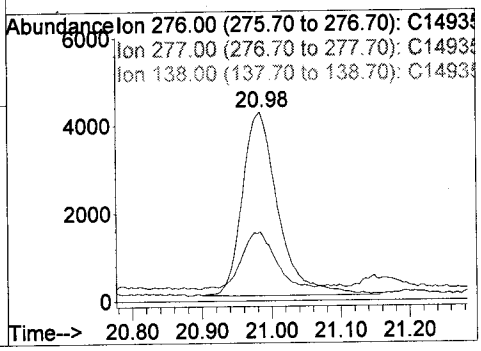
Data File : C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50
Sample : F4XQ2
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 7
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.45 ug/mL
RT: 20.98 min Scan# 3670
Delta R.T. 0.02 min
Integration Range:
Scan=3651 to 3711
R.T.= 20.90 to 21.16 (min)
Tgt Ion:276 Resp: 149802

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.5	26.2	39.2

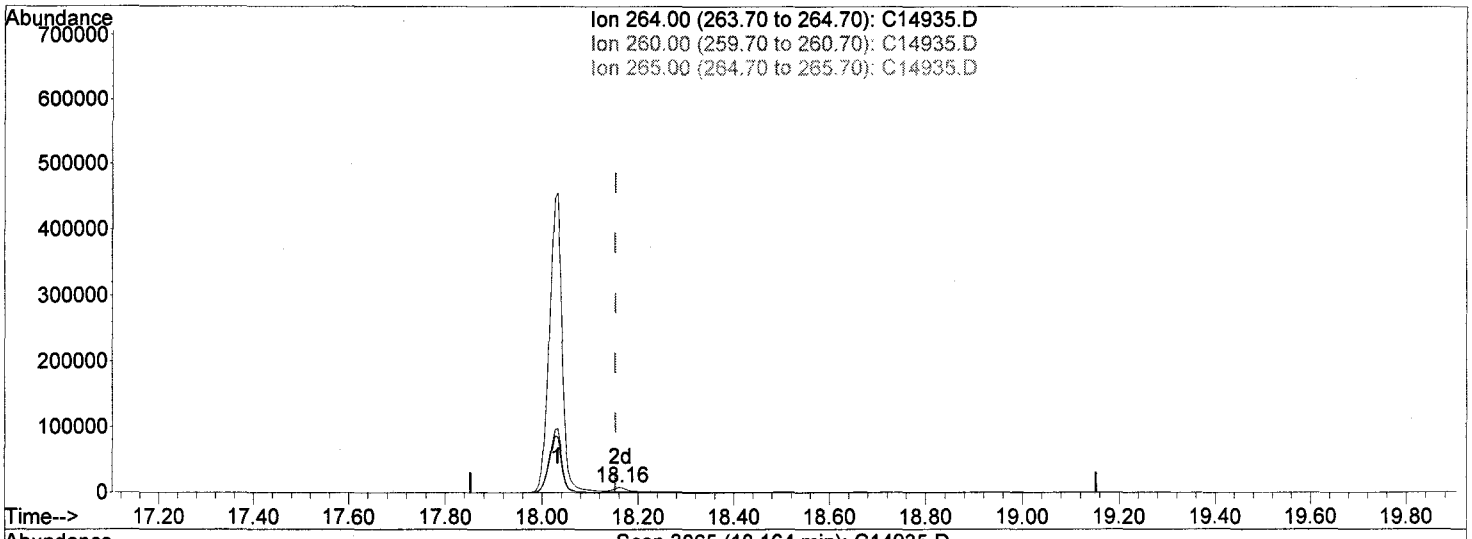


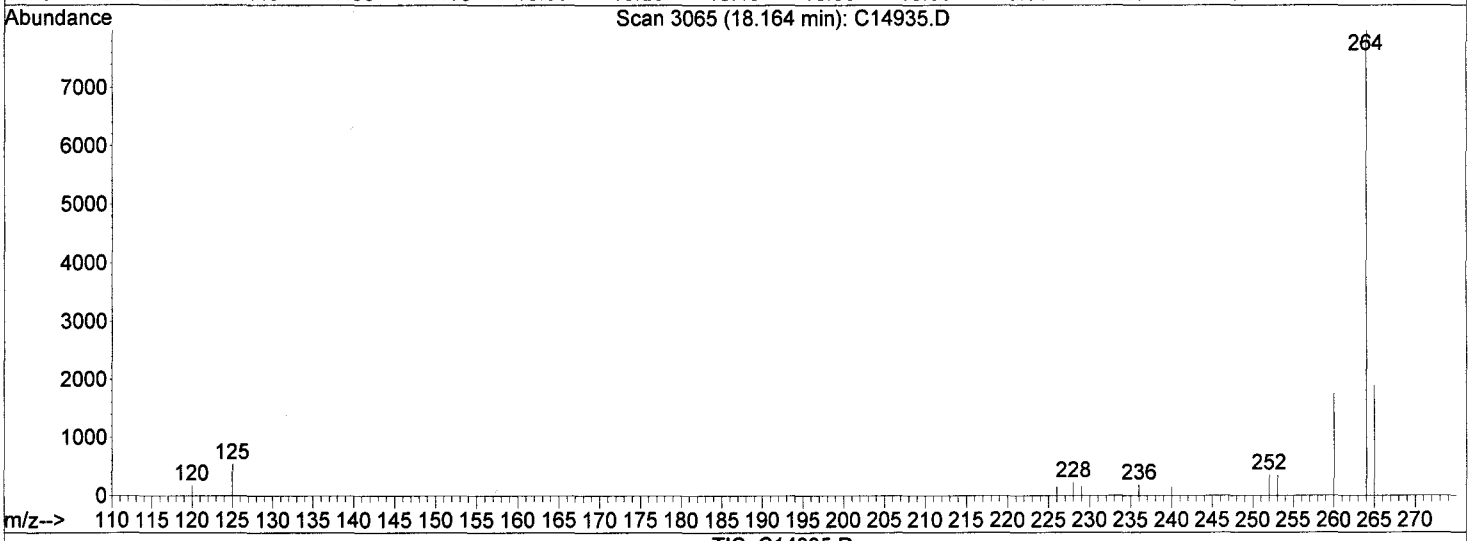
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14935.D
Acq On : 12/19/11 13:50 Operator: SK
Sample : F4XQ2 Inst : C5975
Misc : S-4476.03 60.7G/0.5ML INJ VOL: 1UL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 10:23:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14935.D

(19) Perylene-d12

18.164min (+0.011) 0.4000ug/mL m

response 130790

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1179.46#
265.00	21.10	1353.50#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04

Sample wt/vol: 60.40 (g/mL) G Lab File ID: C14936

Extraction: (Type) SONC

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	4.5	
91-57-6	2-Methylnaphthalene	4.4	
208-96-8	Acenaphthylene	13	
83-32-9	Acenaphthene	5.7	
86-73-7	Fluorene	3.5	
87-86-5	Pentachlorophenol	6.3	U
85-01-8	Phenanthrene	15	
120-12-7	Anthracene	18	
206-44-0	Fluoranthene	37	E
129-00-0	Pyrene	42	E
56-55-3	Benzo(a)anthracene	19	
218-01-9	Chrysene	26	
205-99-2	Benzo(b)fluoranthene	27	
207-08-9	Benzo(k)fluoranthene	8.7	
50-32-8	Benzo(a)pyrene	26	
193-39-5	Indeno(1,2,3-cd)pyrene	18	
53-70-3	Dibenzo(a,h)anthracene	7.6	
191-24-2	Benzo(g,h,i)perylene	23	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:25:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	144297	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	113277	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	214543	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	133226	0.4000	ug/mL	0.00
19) Perylene-d12	18.17	264	136971m	0.4000	ug/mL	0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	86029	0.3860	ug/mL	0.00
Spiked Amount 0.400			Recovery =	96.50%		
13) Fluoranthene-d10	13.54	212	181616	0.3843	ug/mL	0.00
Spiked Amount 0.400			Recovery =	96.07%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	53630	0.1437	ug/mL#	94
4) 2-Methylnaphthalene	7.53	142	32124	0.1414	ug/mL	97
6) Acenaphthylene	8.96	152	192457	0.4160	ug/mL#	91
7) Acenaphthene	9.25	154	49050	0.1810	ug/mL#	59
8) Fluorene	10.09	166	35397	0.1105	ug/mL	88
11) Phenanthrene	11.64	178	235569	0.4824	ug/mL	96
12) Anthracene	11.72	178	286786	0.5802	ug/mL#	92
14) Fluoranthene	13.57	202	557393	1.1953	ug/mL	99
16) Benzo(a)anthracene	15.87	228	224446	0.6014	ug/mL#	62
17) Chrysene	15.93	228	323390	0.8378	ug/mL#	82
18) Pyrene	13.93	202	756613	1.3322	ug/mL#	86
20) Benzo(b)fluoranthene	17.54	252	325345	0.8697	ug/mL#	89
21) Benzo(k)fluoranthene	17.57	252	122307	0.2778	ug/mL#	84
22) Benzo(a)pyrene	18.07	252	323973	0.8351	ug/mL	98
23) Dibenzo(a,h)anthracene	20.41	278	56606	0.2427	ug/mL#	87
24) Indeno(1,2,3-cd)pyrene	20.35	276	180154	0.5821	ug/mL#	90
25) Benzo(g,h,i)perylene	20.99	276	258540	0.7447	ug/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

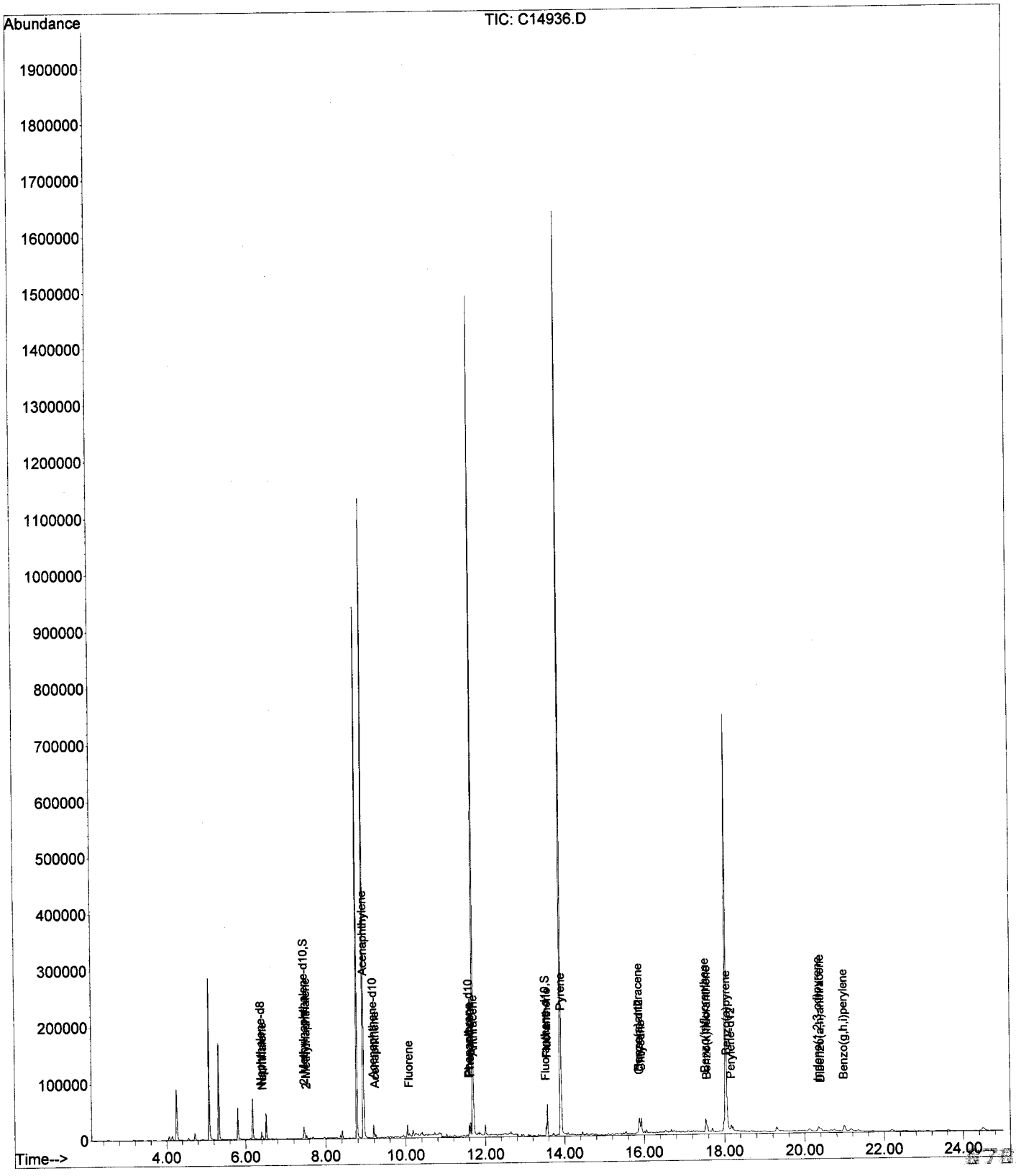
8762

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

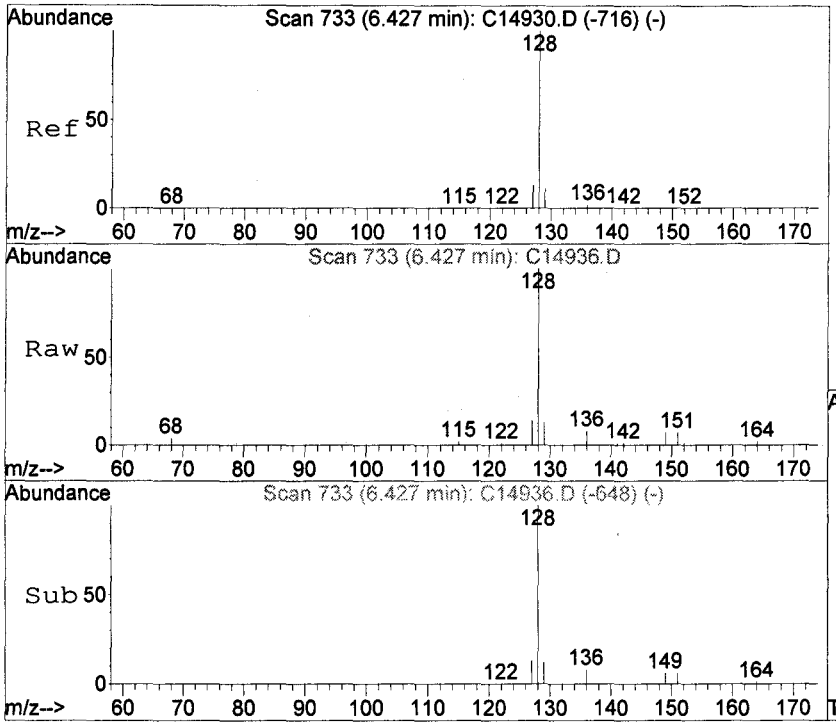
Operator: SK
Inst : C5975

Quant Time: Dec 20 10:25:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



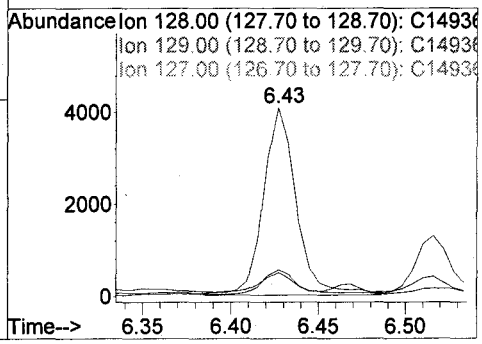
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

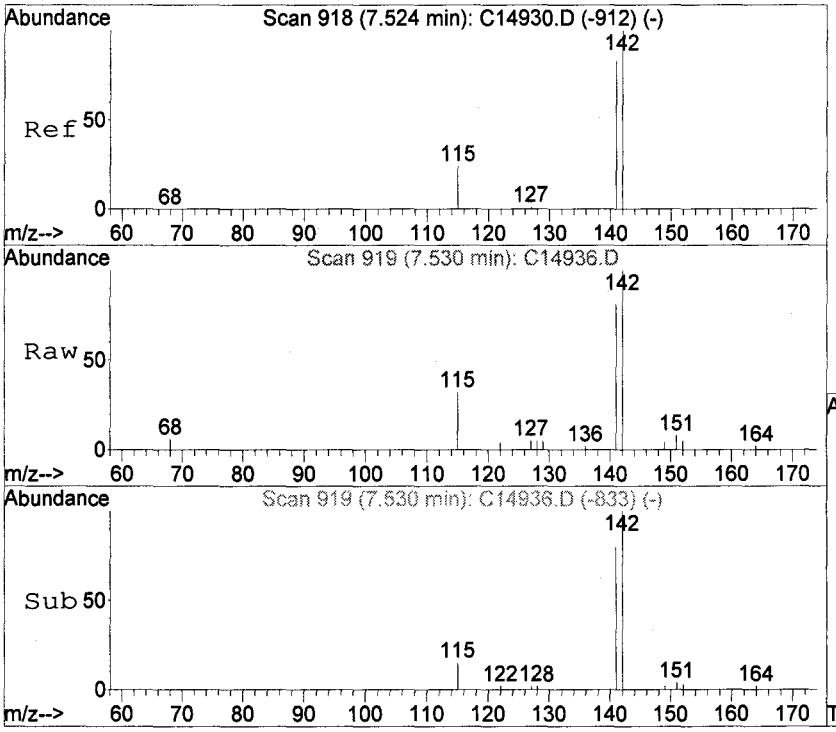
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.14 ug/mL
RT: 6.43 min Scan# 733
Delta R.T. 0.01 min
Integration Range:
Scan=726 to 743
R.T.= 6.39 to 6.49 (min)
Tgt Ion:128 Resp: 53630

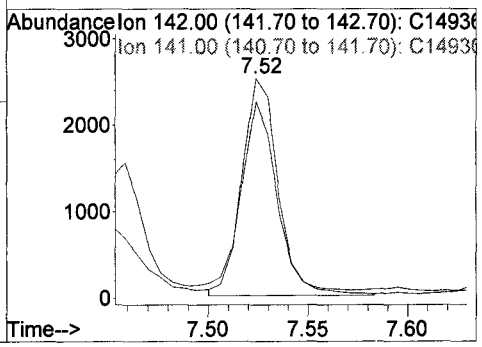
Ion	Ratio	Lower	Upper
128	100		
129	15.5	8.8	13.2#
127	13.9	10.7	16.1





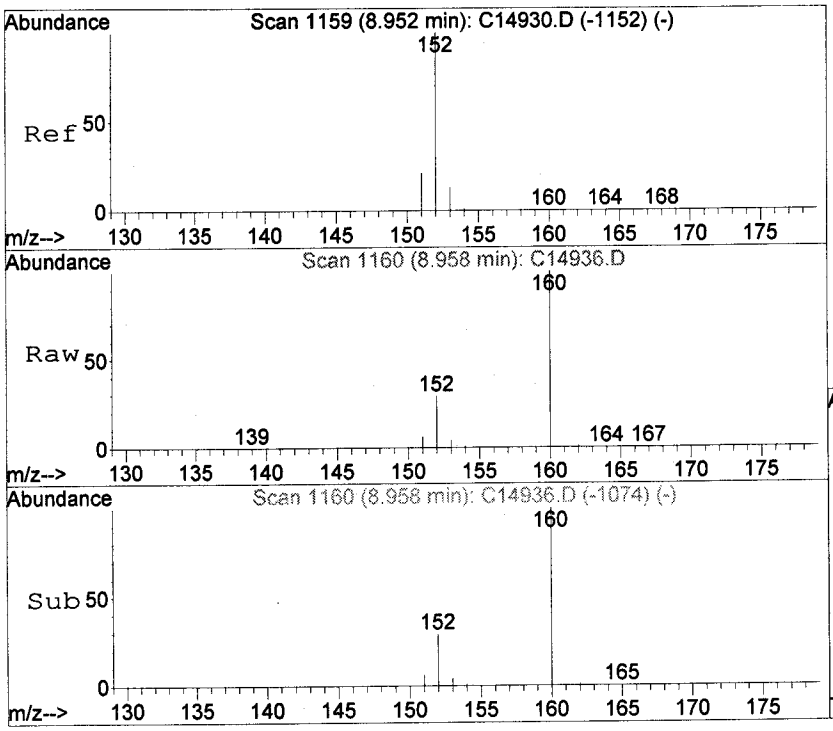
#4
2-Methylnaphthalene
Concen: 0.14 ug/mL
RT: 7.53 min Scan# 919
Delta R.T. 0.01 min
Integration Range:
Scan=914 to 928
R.T.= 7.50 to 7.58 (min)
Tgt Ion:142 Resp: 32124

Ion	Ratio	Lower	Upper
142	100		
141	87.8	67.9	101.9



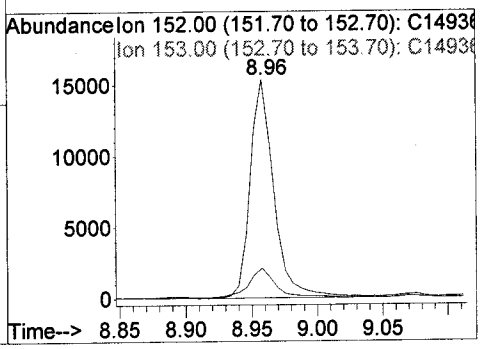
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

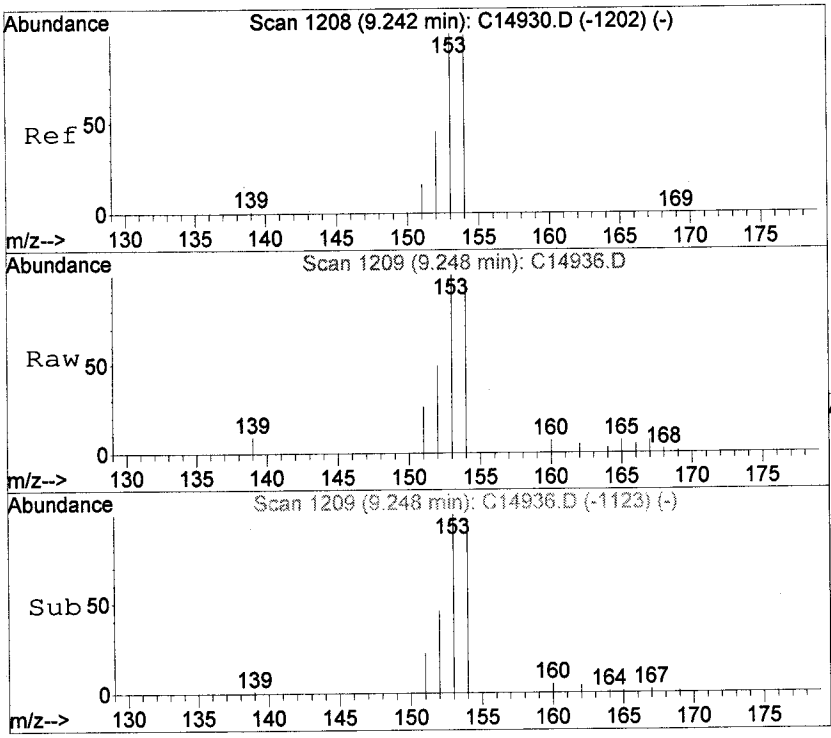
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.42 ug/mL
RT: 8.96 min Scan# 1160
Delta R.T. 0.01 min
Integration Range:
Scan=1153 to 1175
R.T.= 8.92 to 9.05 (min)
Tgt Ion:152 Resp: 192457

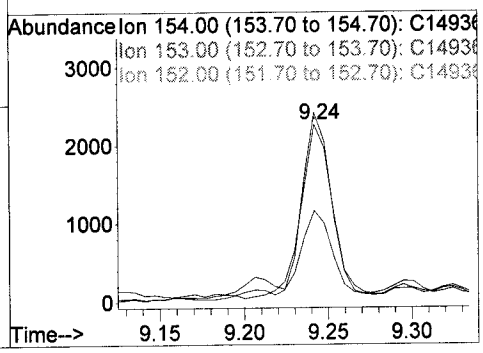
Ion	Ratio	Lower	Upper
152	100		
153	16.7	10.5	15.7#





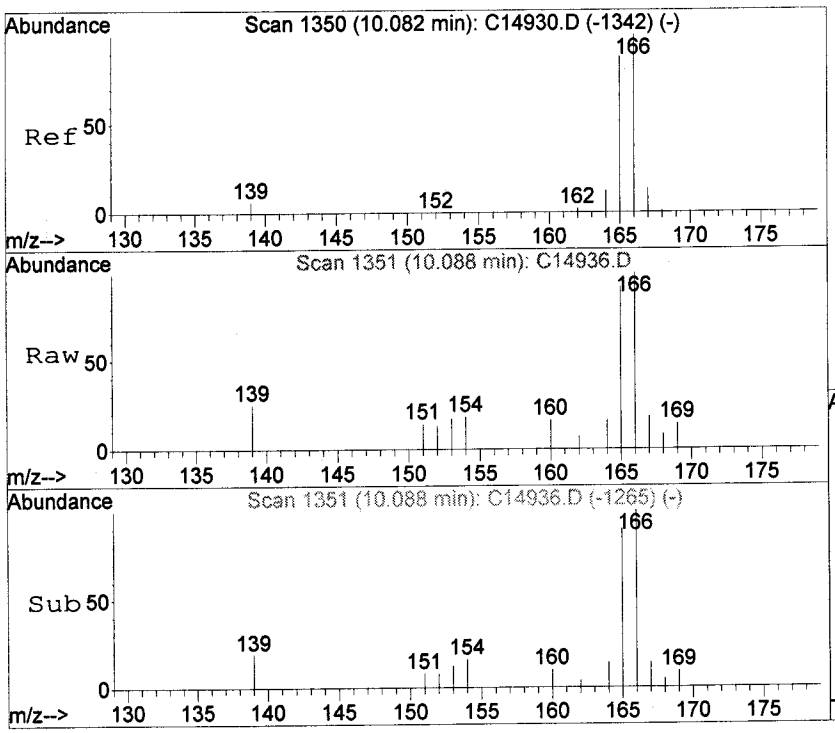
#7
Acenaphthene
Concen: 0.18 ug/mL
RT: 9.25 min Scan# 1209
Delta R.T. 0.01 min
Integration Range:
Scan=1197 to 1215
R.T.= 9.18 to 9.28 (min)
Tgt Ion:154 Resp: 49050

Ion	Ratio	Lower	Upper
154	100		
153	58.5	85.2	127.8#
152	29.3	39.4	59.0#



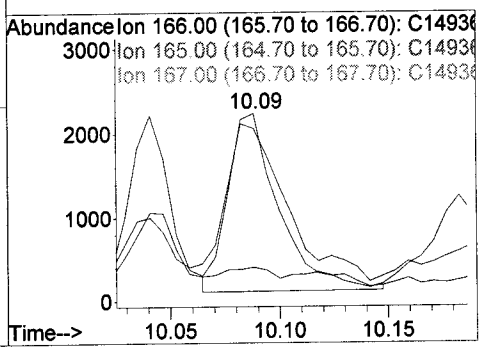
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

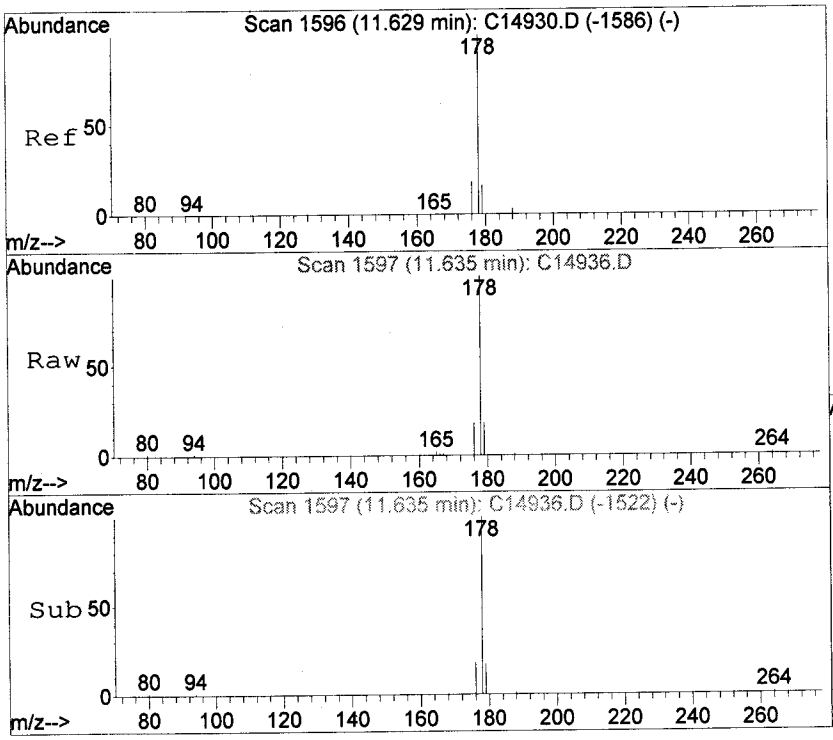
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#8
Fluorene
Concen: 0.11 ug/mL
RT: 10.09 min Scan# 1351
Delta R.T. 0.01 min
Integration Range:
Scan=1347 to 1361
R.T.= 10.06 to 10.15 (min)
Tgt Ion:166 Resp: 35397

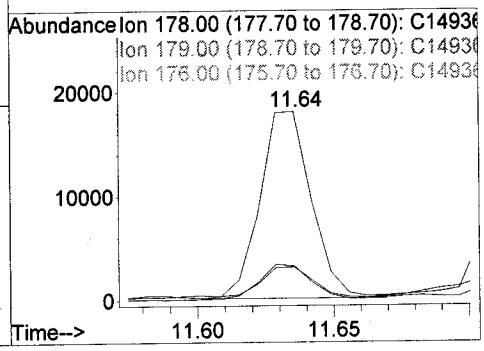
Ion	Ratio	Lower	Upper
166	100		
165	105.6	73.9	110.9
167	13.9	10.7	16.1





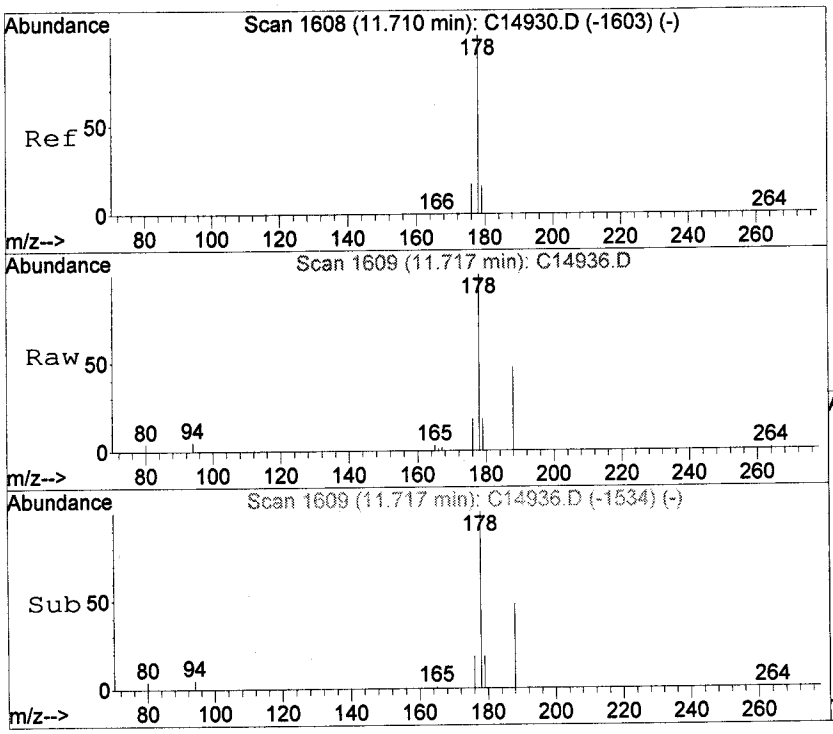
#11
Phenanthrene
Concen: 0.48 ug/mL
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Integration Range:
Scan=1592 to 1602
R.T.= 11.60 to 11.67 (min)
Tgt Ion:178 Resp: 235569

Ion	Ratio	Lower	Upper
178	100		
179	18.0	12.2	18.4
176	18.7	14.5	21.7



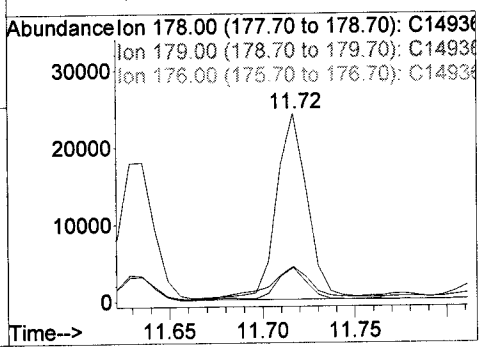
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

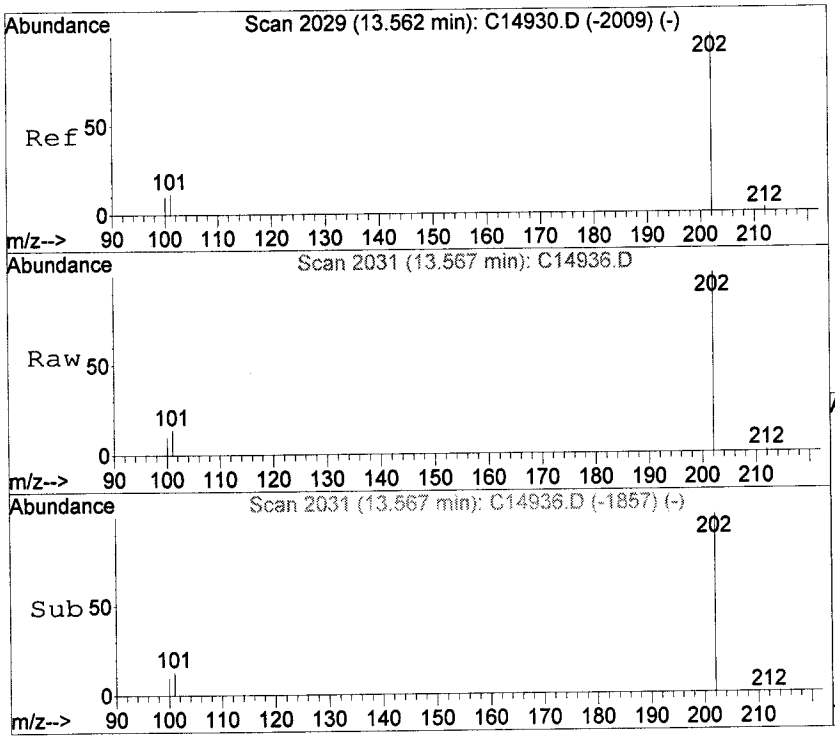
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.58 ug/mL
RT: 11.72 min Scan# 1609
Delta R.T. 0.01 min
Integration Range:
Scan=1602 to 1616
R.T.= 11.67 to 11.76 (min)
Tgt Ion:178 Resp: 286786

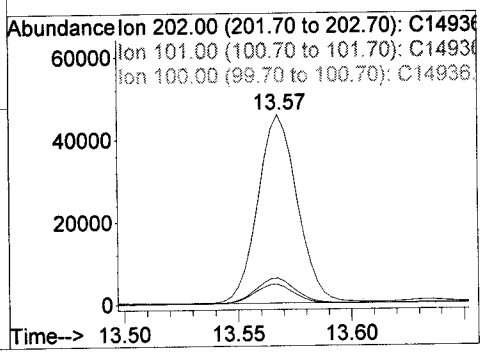
Ion	Ratio	Lower	Upper
178	100		
179	22.5	12.4	18.6#
176	17.7	13.8	20.8





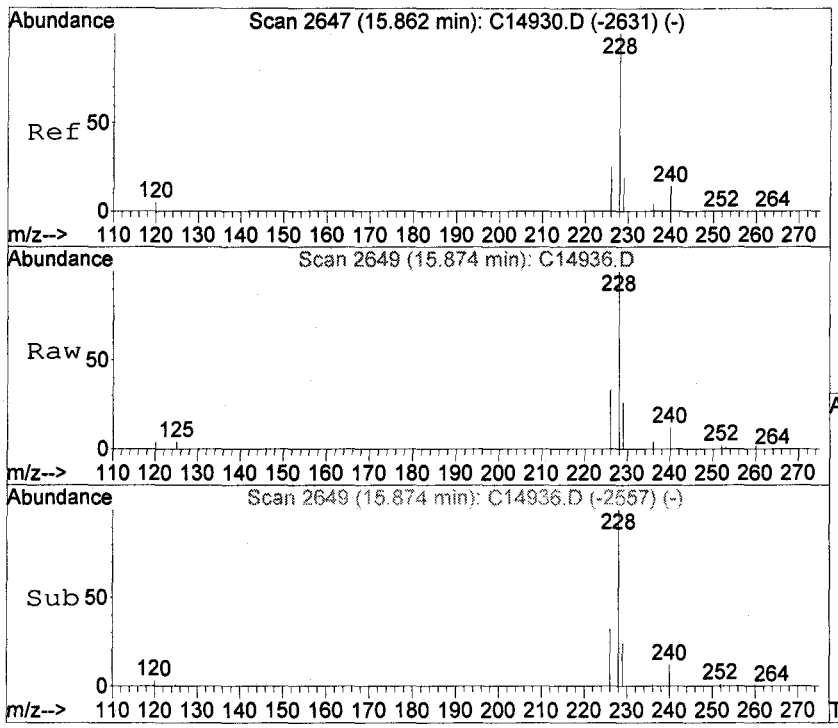
#14
Fluoranthene
Concen: 1.20 ug/mL
RT: 13.57 min Scan# 2031
Delta R.T. 0.01 min
Integration Range:
Scan=2020 to 2047
R.T.= 13.54 to 13.61 (min)
Tgt Ion:202 Resp: 557393

Ion	Ratio	Lower	Upper
202	100		
101	13.7	11.5	17.3
100	11.1	8.8	13.2



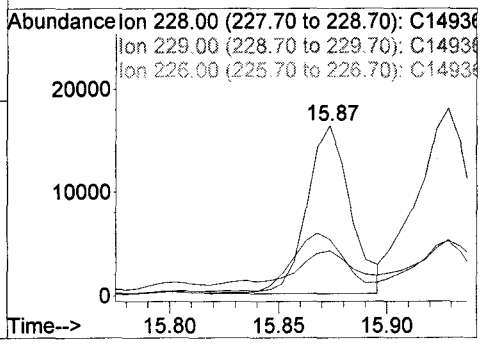
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

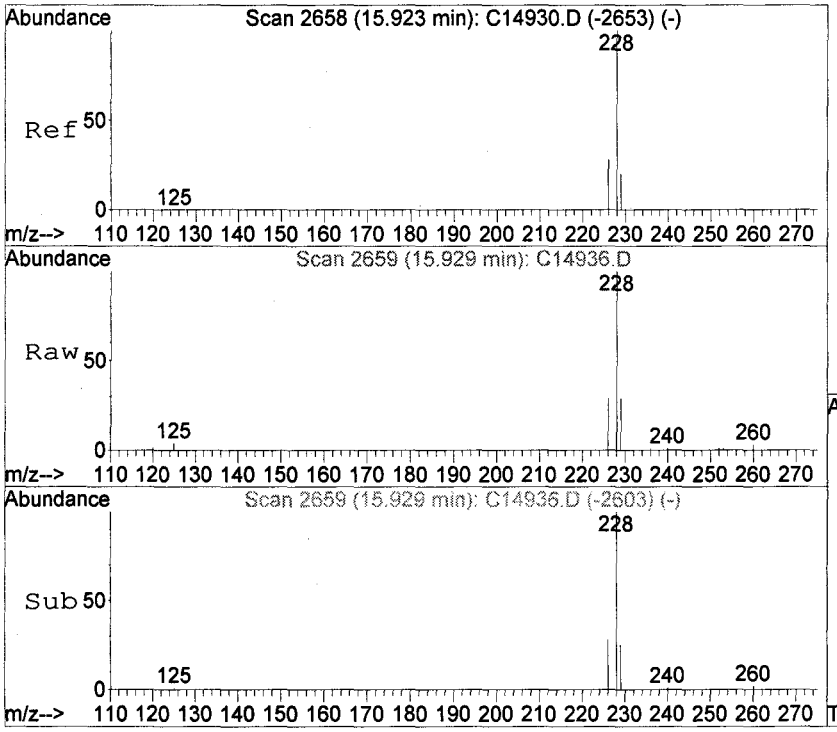
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.60 ug/mL
RT: 15.87 min Scan# 2649
Delta R.T. 0.01 min
Integration Range:
Scan=2639 to 2653
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 224446

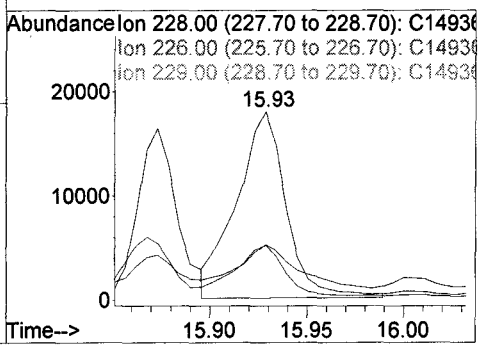
Ion	Ratio	Lower	Upper
228	100		
229	36.9	15.8	23.8#
226	45.2	20.5	30.7#





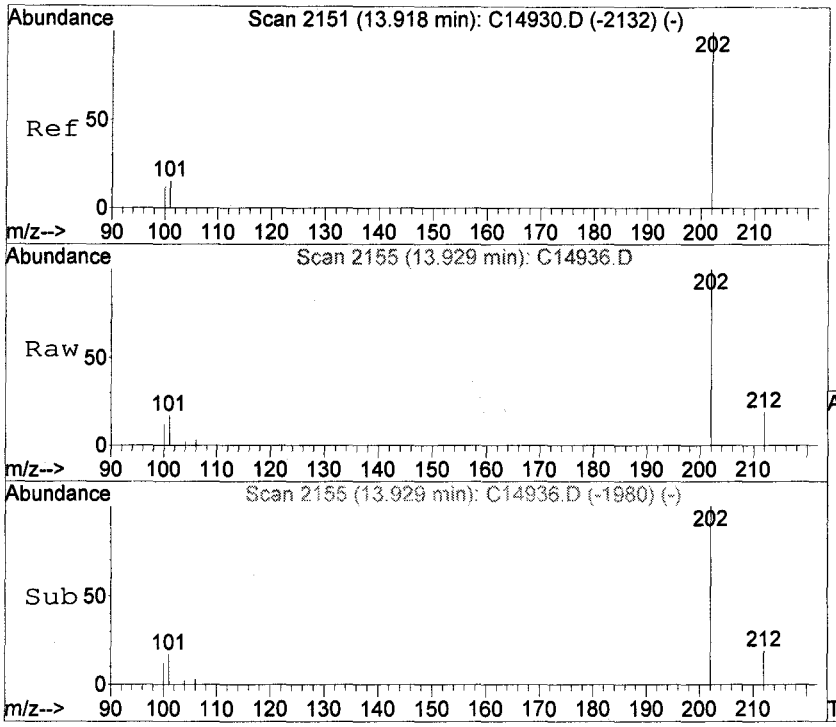
#17
Chrysene
Concen: 0.84 ug/mL
RT: 15.93 min Scan# 2659
Delta R.T. 0.01 min
Integration Range:
Scan=2653 to 2670
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 323390

Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.8	34.2
229	37.3	15.9	23.9#



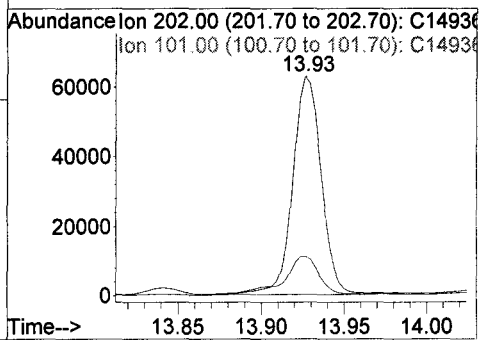
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

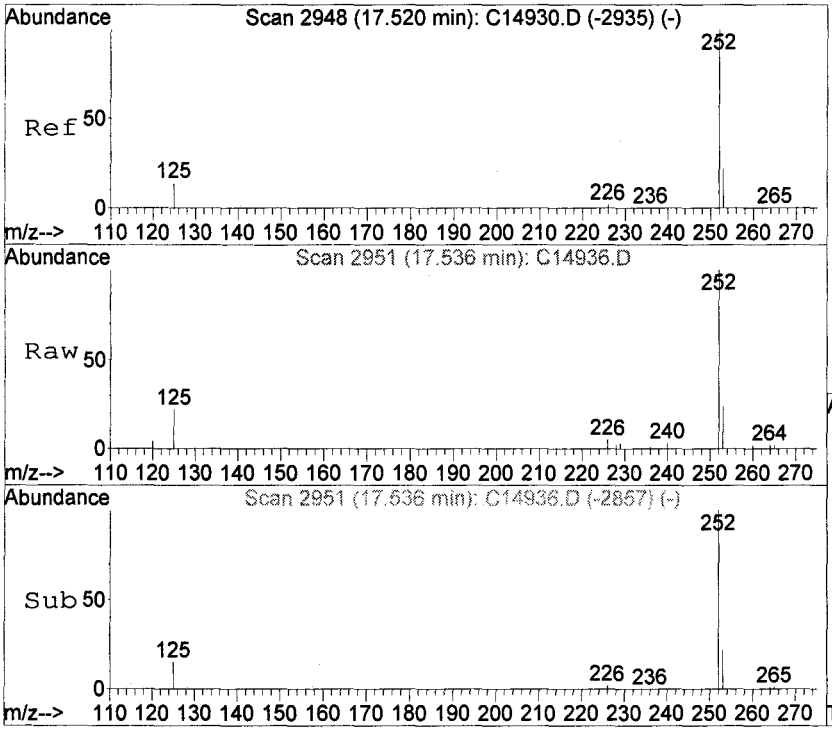
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 1.33 ug/mL
RT: 13.93 min Scan# 2155
Delta R.T. 0.01 min
Integration Range:
Scan=2133 to 2169
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 756613

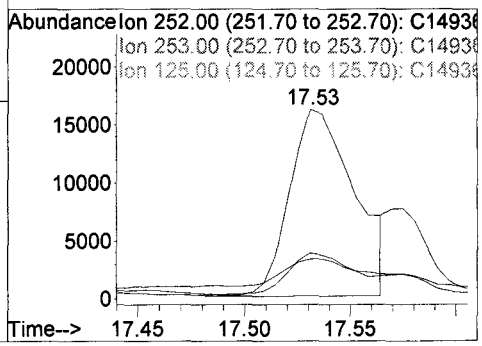
Ion	Ratio	Lower	Upper
202	100		
101	22.7	13.2	19.8#





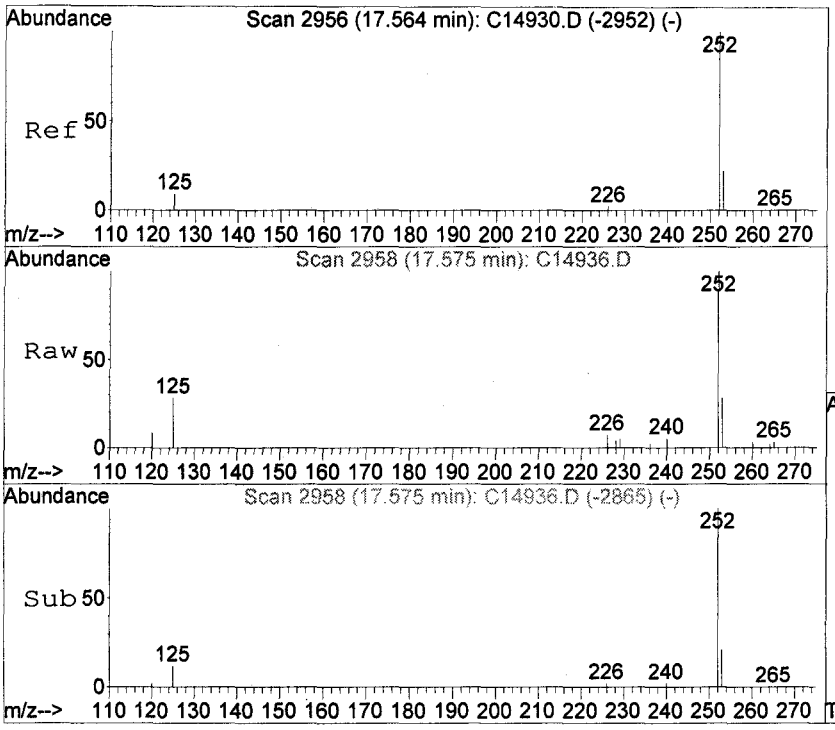
#20
Benzo(b)fluoranthene
Concen: 0.87 ug/mL
RT: 17.54 min Scan# 2951
Delta R.T. 0.02 min
Integration Range:
Scan=2941 to 2956
R.T.= 17.48 to 17.56 (min)
Tgt Ion:252 Resp: 325345

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	25.6	12.3	18.5#



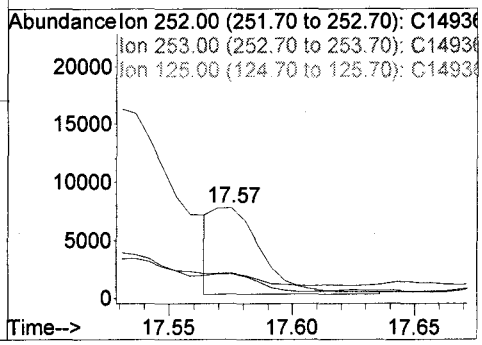
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

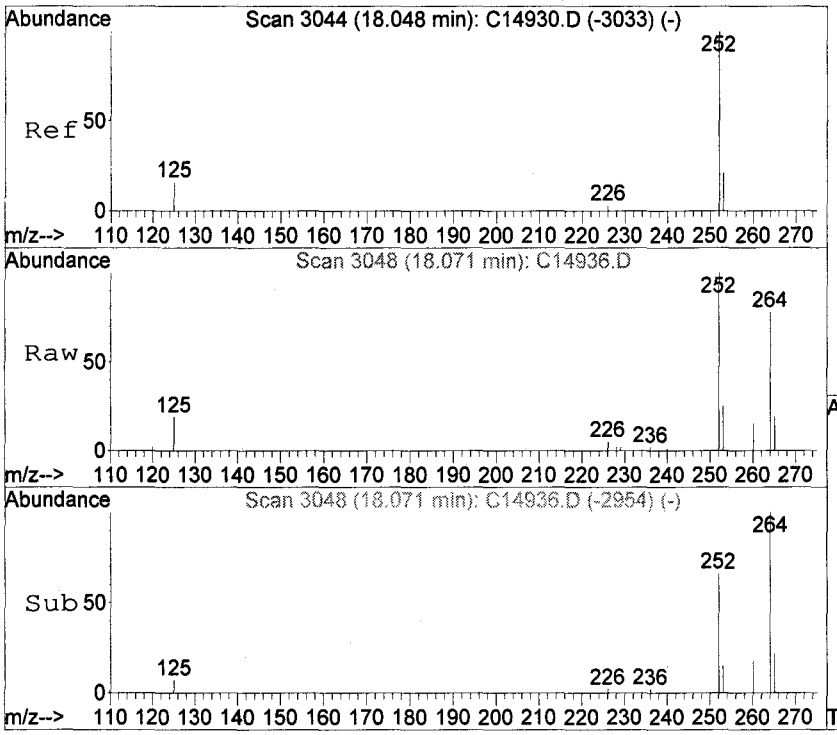
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.28 ug/mL
RT: 17.57 min Scan# 2958
Delta R.T. 0.01 min
Integration Range:
Scan=2956 to 2969
R.T.= 17.56 to 17.64 (min)
Tgt Ion:252 Resp: 122307

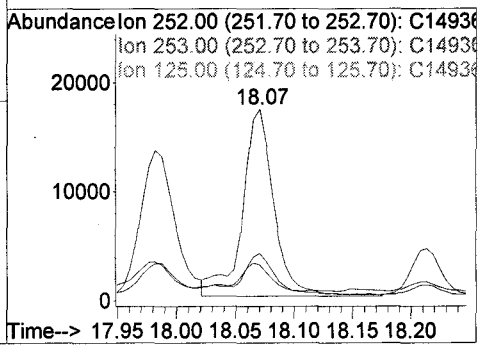
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	0.0	12.4	18.6#





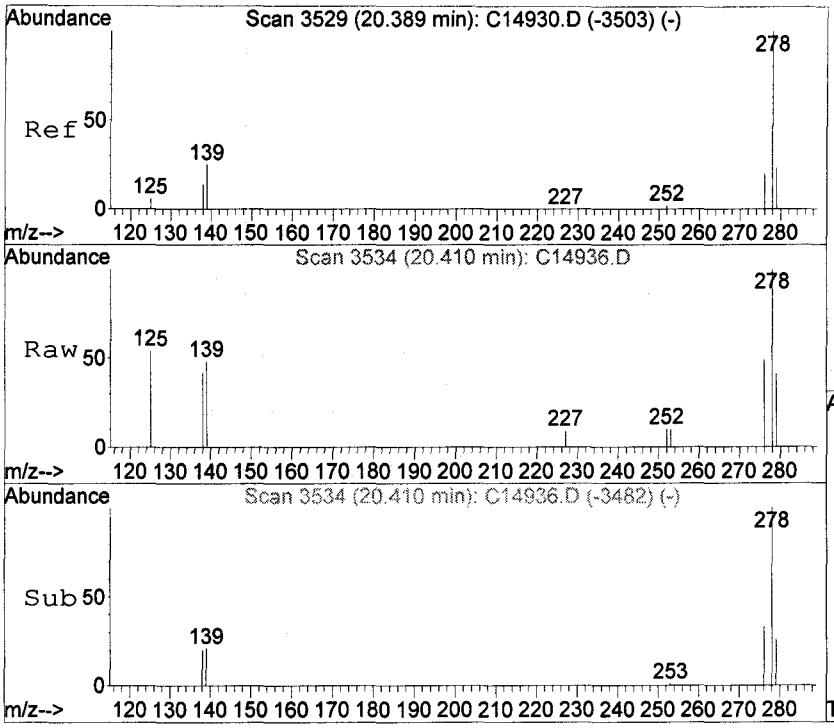
#22
Benzo(a)pyrene
Concen: 0.84 ug/mL
RT: 18.07 min Scan# 3048
Delta R.T. 0.02 min
Integration Range:
Scan=3039 to 3067
R.T.= 18.02 to 18.18 (min)
Tgt Ion:252 Resp: 323973

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.1	25.7
125	17.1	13.1	19.7



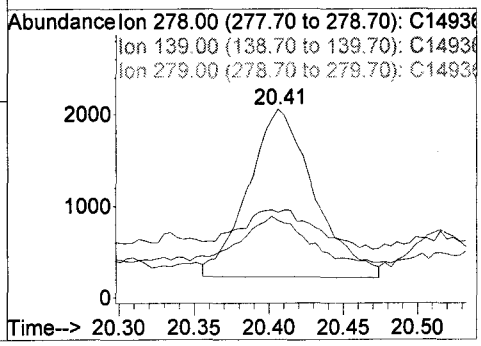
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

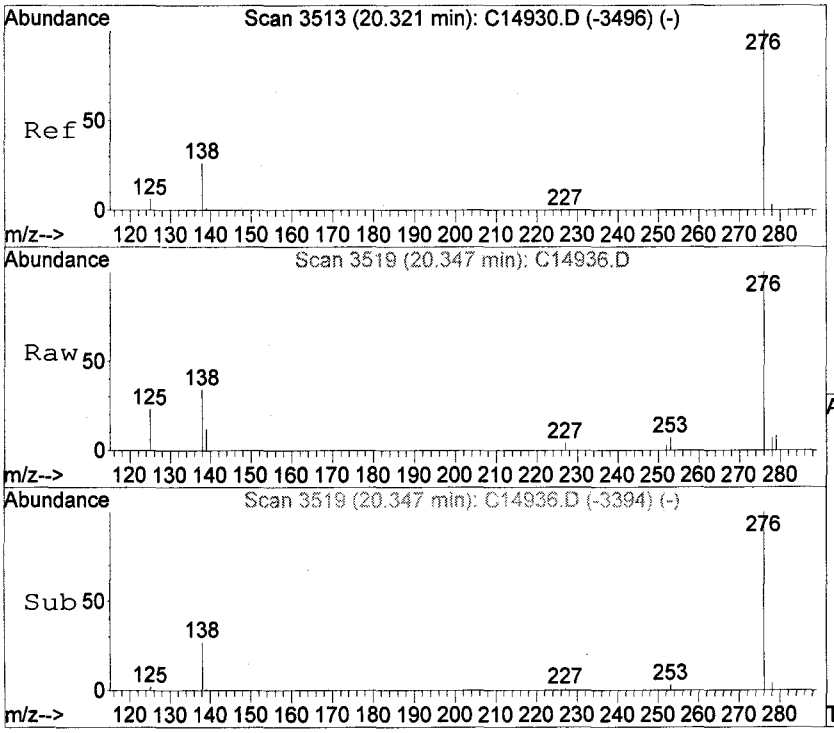
Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.24 ug/mL
RT: 20.41 min Scan# 3534
Delta R.T. 0.02 min
Integration Range:
Scan=3521 to 3549
R.T.= 20.36 to 20.47 (min)
Tgt Ion:278 Resp: 56606

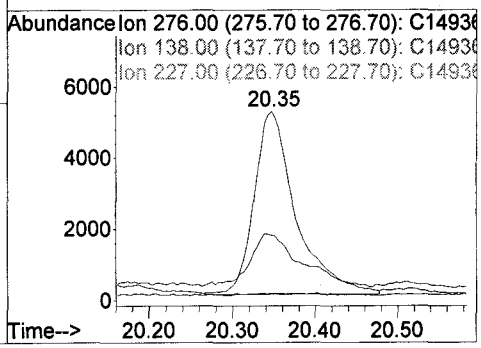
Ion	Ratio	Lower	Upper
278	100		
139	29.3	19.8	29.6
279	30.8	18.4	27.6#





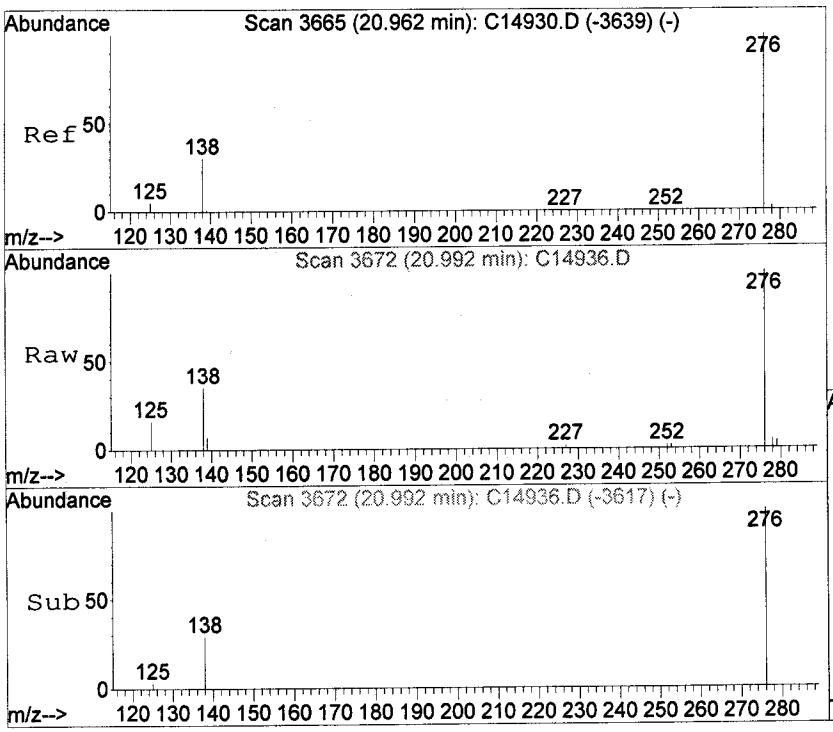
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.58 ug/mL
RT: 20.35 min Scan# 3519
Delta R.T. 0.03 min
Integration Range:
Scan=3500 to 3550
R.T.= 20.27 to 20.48 (min)
Tgt Ion:276 Resp: 180154

Ion	Ratio	Lower	Upper
276	100		
138	35.0	23.7	35.5
227	0.6	0.0	0.0#



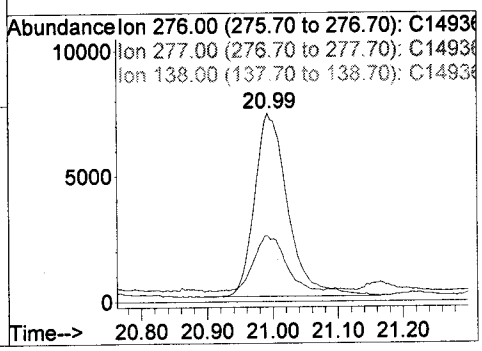
Data File : C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21
Sample : F4XQ3
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 8
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.74 ug/mL
RT: 20.99 min Scan# 3672
Delta R.T. 0.03 min
Integration Range:
Scan=3650 to 3713
R.T.= 20.90 to 21.16 (min)
Tgt Ion:276 Resp: 258540

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.1	26.2	39.2



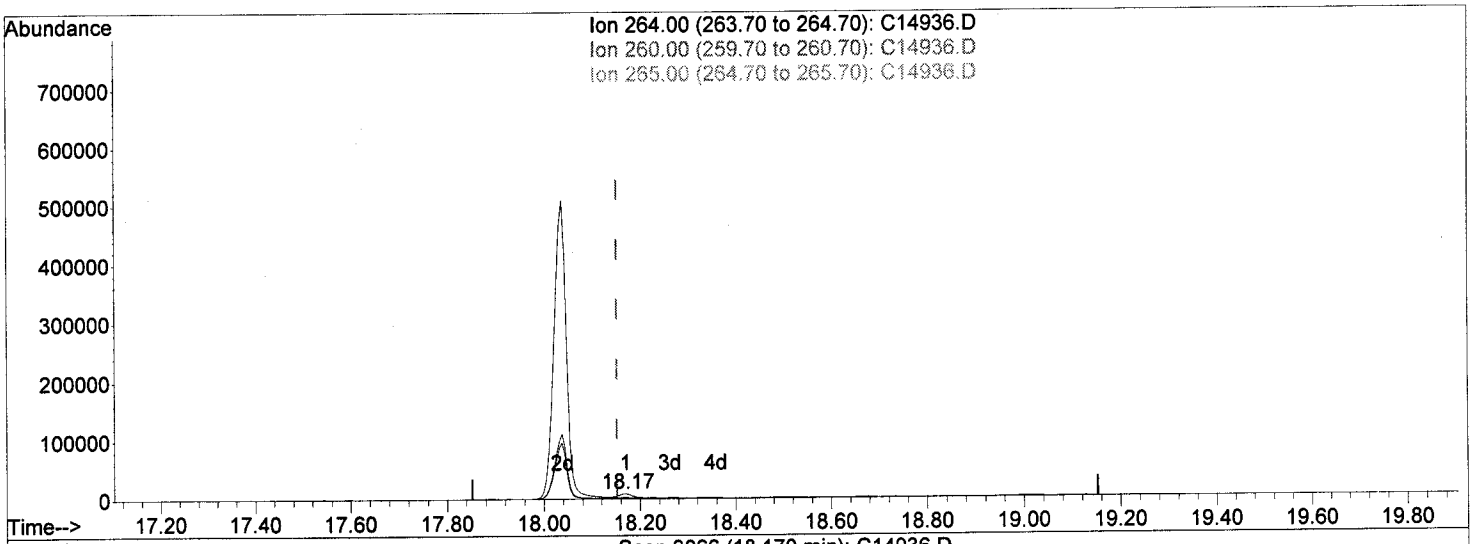
E712

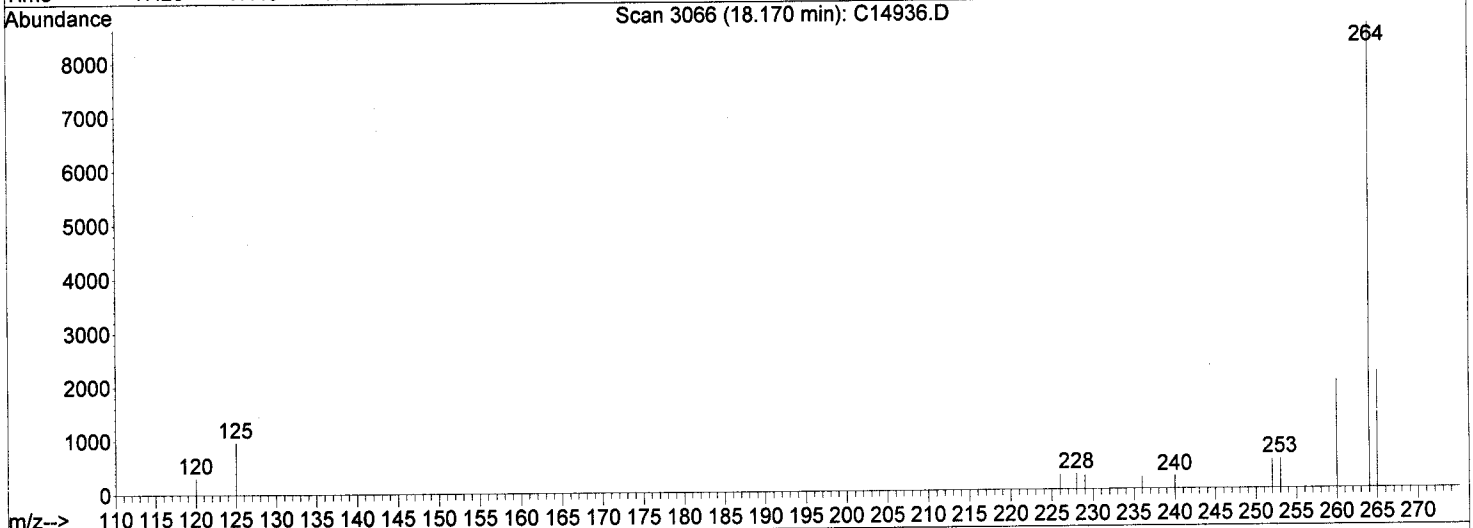
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14936.D
Acq On : 12/19/11 14:21 Operator: SK
Sample : F4XQ3 Inst : C5975
Misc : S-4476.04 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 10:25:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14936.D

(19) Perylene-d12

18.170min (+0.017) 0.4000ug/mL m

response 136971

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	38.54#
265.00	21.10	36.41#
0.00	0.00	0.00

0713

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ3DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04DL

Sample wt/vol: 60.40 (g/mL) G Lab File ID: C14949

Extraction: (Type) SONC

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/20/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	15	U
91-57-6	2-Methylnaphthalene	15	U
208-96-8	Acenaphthylene	15	DJ
83-32-9	Acenaphthene	15	U
86-73-7	Fluorene	15	U
87-86-5	Pentachlorophenol	31	U
85-01-8	Phenanthrene	17	D
120-12-7	Anthracene	21	D
206-44-0	Fluoranthene	44	D
129-00-0	Pyrene	45	D
56-55-3	Benzo(a)anthracene	21	D
218-01-9	Chrysene	30	D
205-99-2	Benzo(b)fluoranthene	23	D
207-08-9	Benzo(k)fluoranthene	15	U
50-32-8	Benzo(a)pyrene	21	D
193-39-5	Indeno(1,2,3-cd)pyrene	17	D
53-70-3	Dibenzo(a,h)anthracene	15	U
191-24-2	Benzo(g,h,i)perylene	21	D

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14
Sample : F4XQ3DL 5X
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 21 13:44:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration

12/21/11

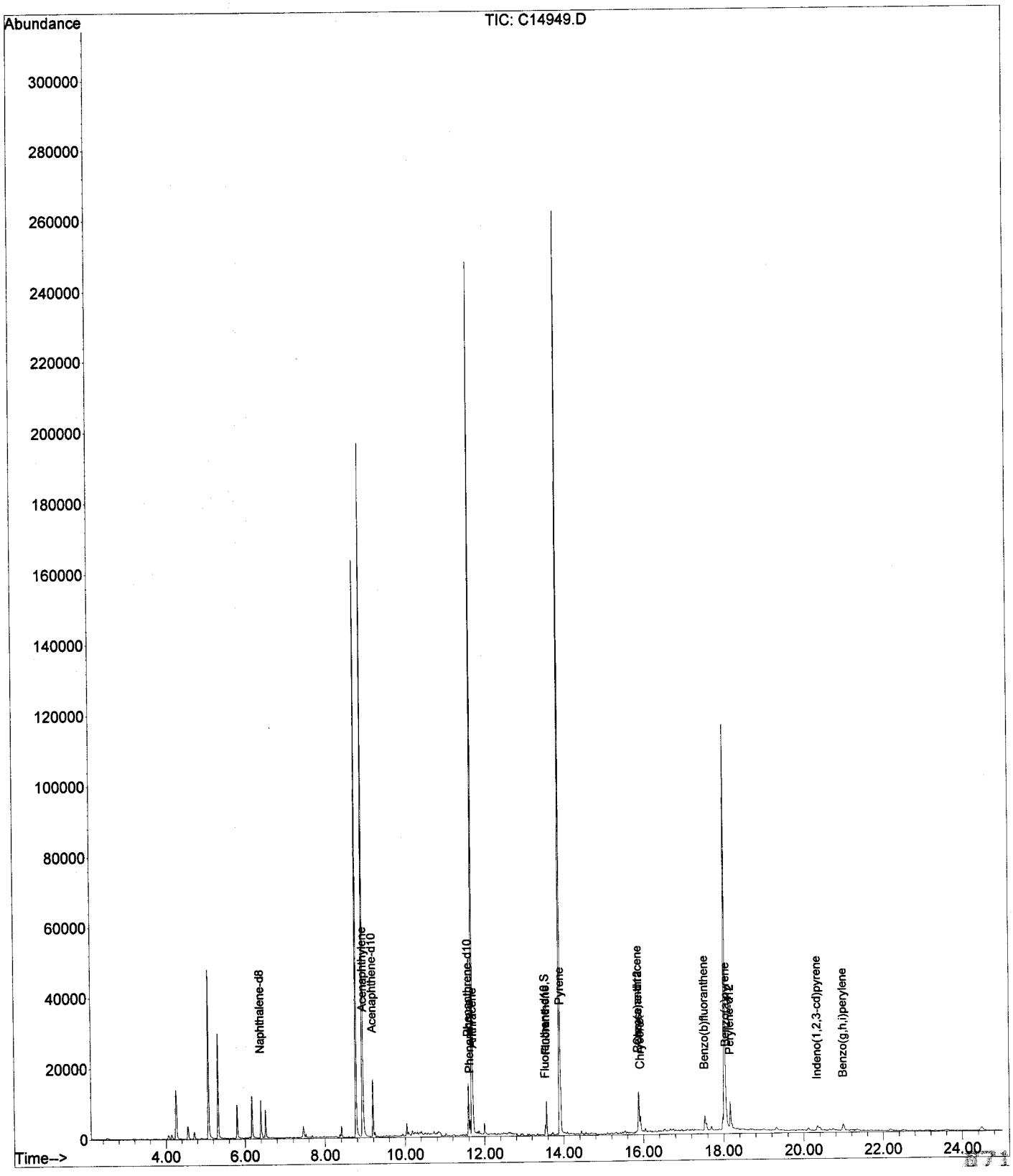
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	130880	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	86997	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	156819	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	101923	0.4000	ug/mL	0.00
19) Perylene-d12	18.17	264	135991	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	15862m	0.0785	ug/mL	0.00
Spiked Amount 0.400			Recovery = 19.62%			
13) Fluoranthene-d10	13.54	212	31550	0.0913	ug/mL	0.00
Spiked Amount 0.400			Recovery = 22.82%			
Target Compounds						Qvalue
6) Acenaphthylene	8.96	152	35256m	0.0992	ug/mL	
11) Phenanthrene	11.63	178	39796	0.1115	ug/mL#	95
12) Anthracene	11.72	178	48520	0.1343	ug/mL#	89
14) Fluoranthene	13.57	202	95747	0.2809	ug/mL	99
16) Benzo(a)anthracene	15.87	228	38228	0.1339	ug/mL#	65
17) Chrysene	15.93	228	57040	0.1932	ug/mL#	82
18) Pyrene	13.93	202	126420	0.2910	ug/mL#	89
20) Benzo(b)fluoranthene	17.54	252	55244	0.1487	ug/mL#	95
22) Benzo(a)pyrene	18.07	252	51844	0.1346	ug/mL#	94
24) Indeno(1,2,3-cd)pyrene	20.35	276	33919	0.1104	ug/mL#	96
25) Benzo(g,h,i)perylene	20.99	276	46095	0.1337	ug/mL#	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

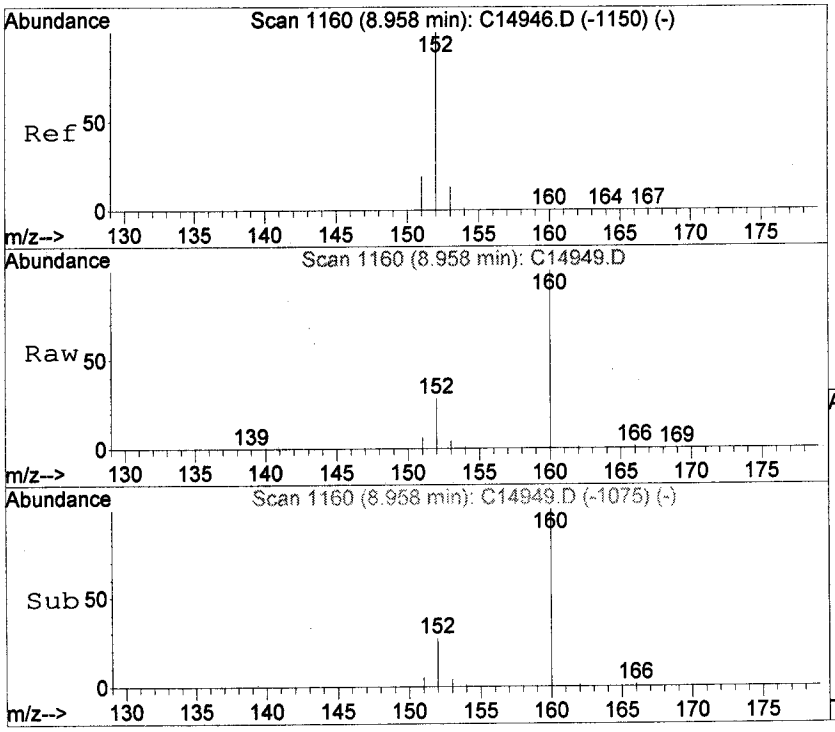
Data File: C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14 Operator: SK
Sample : F4XQ3DL 5X Inst : C5975
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 13:44:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration



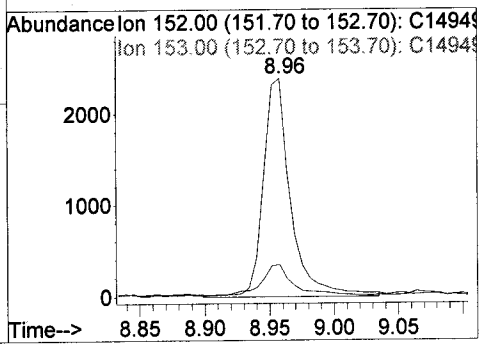
Data File : C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14
Sample : F4XQ3DL 5X
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

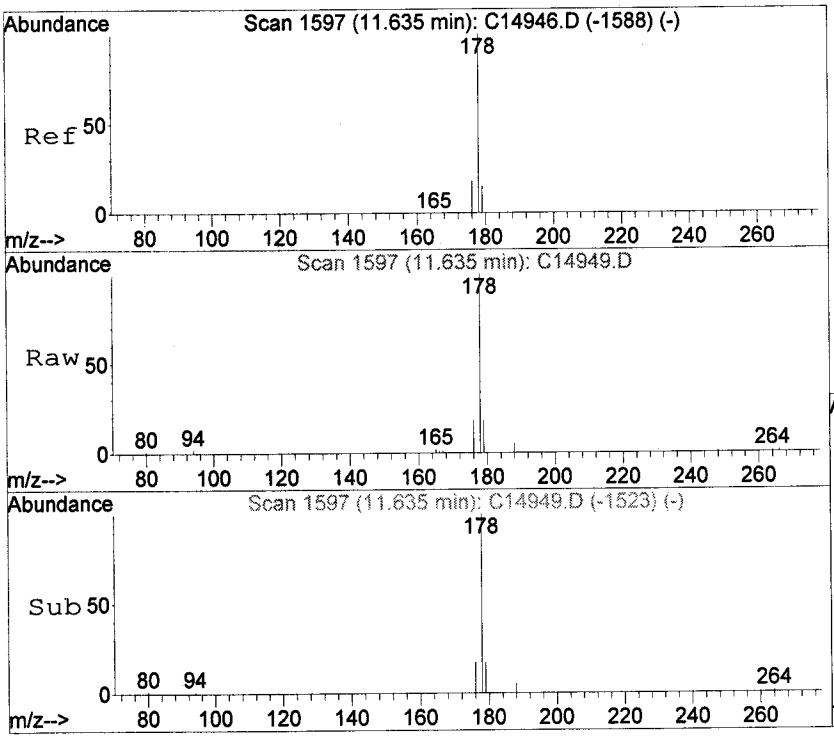
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.10 ug/mL m
RT: 8.96 min Scan# 1160
Delta R.T. 0.00 min
Integration Range:
Scan=1150 to 1173
R.T.= 8.90 to 9.03 (min)
Tgt Ion:152 Resp: 35256

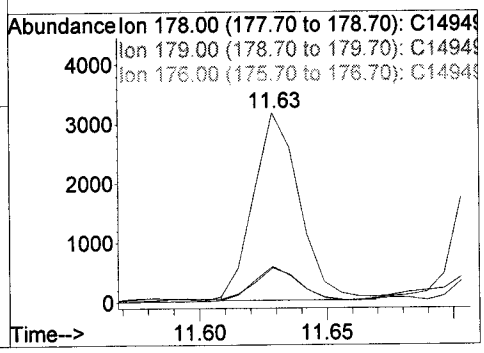
Ion	Ratio	Lower	Upper
152	100		
153	0.3	10.5	15.7#





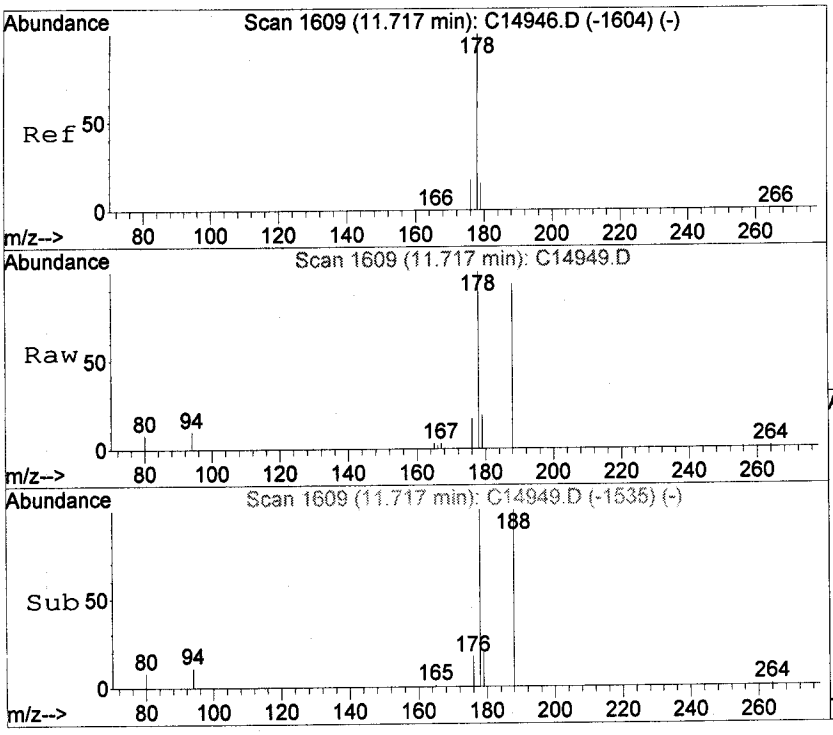
#11
Phenanthrene
Concen: 0.11 ug/mL
RT: 11.63 min Scan# 1597
Delta R.T. -0.00 min
Integration Range:
Scan=1592 to 1602
R.T.= 11.60 to 11.67 (min)
Tgt Ion:178 Resp: 39796

Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.2	18.4#
176	18.4	14.5	21.7



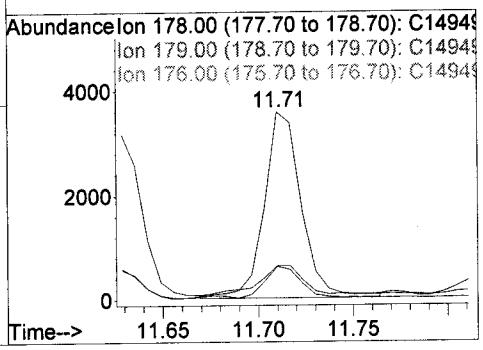
Data File : C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14
Sample : F4XQ3DL 5X
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

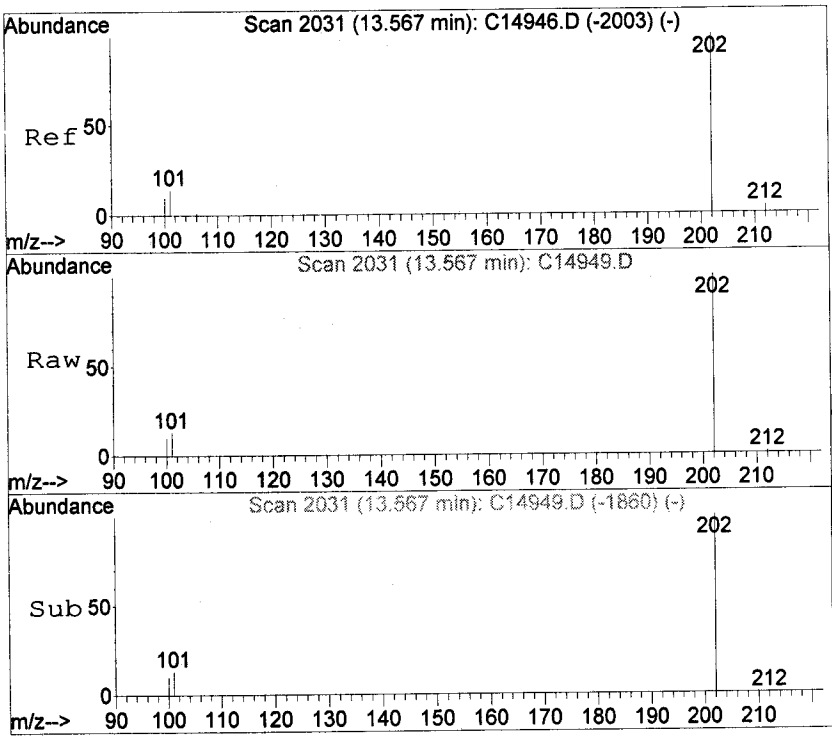
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.13 ug/mL
RT: 11.72 min Scan# 1609
Delta R.T. -0.00 min
Integration Range:
Scan=1602 to 1616
R.T.= 11.67 to 11.76 (min)
Tgt Ion:178 Resp: 48520

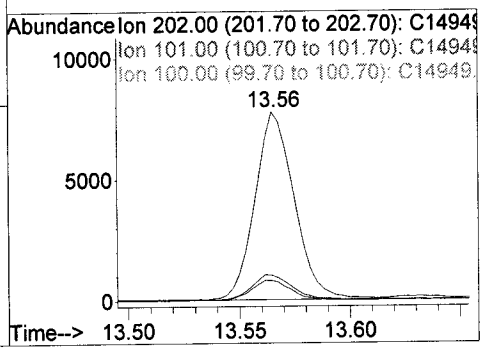
Ion	Ratio	Lower	Upper
178	100		
179	24.2	12.4	18.6#
176	18.6	13.8	20.8



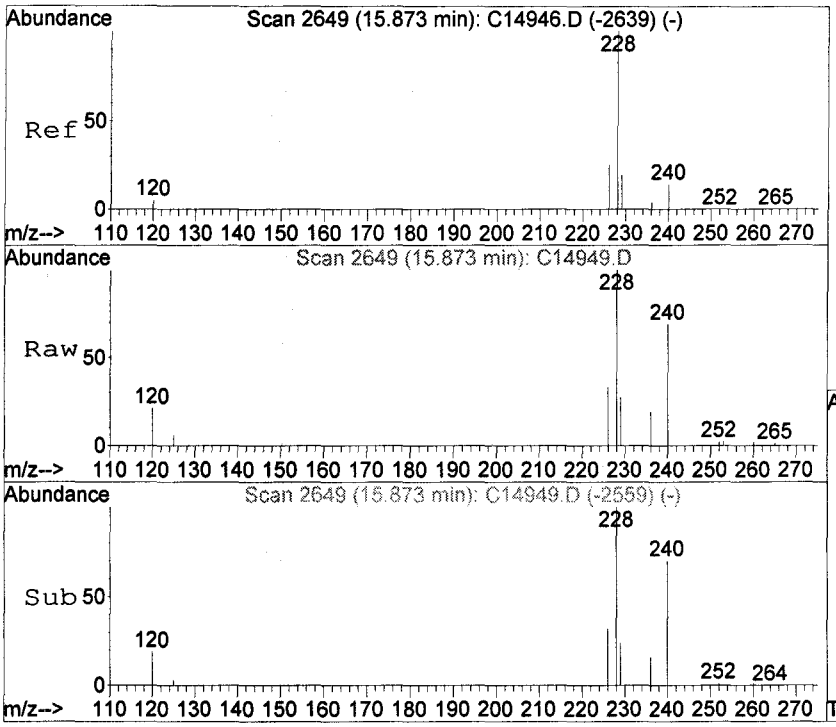


#14
Fluoranthene
Concen: 0.28 ug/mL
RT: 13.57 min Scan# 2031
Delta R.T. -0.00 min
Integration Range:
Scan=2020 to 2047
R.T.= 13.54 to 13.61 (min)
Tgt Ion:202 Resp: 95747

Ion	Ratio	Lower	Upper
202	100		
101	14.0	11.5	17.3
100	11.5	8.8	13.2

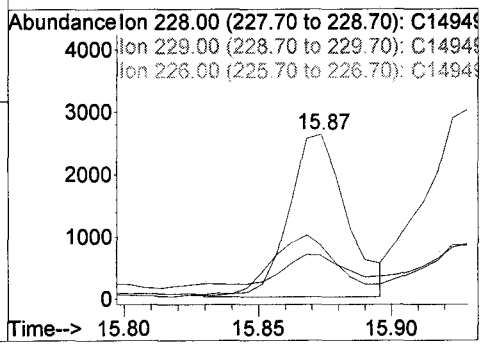


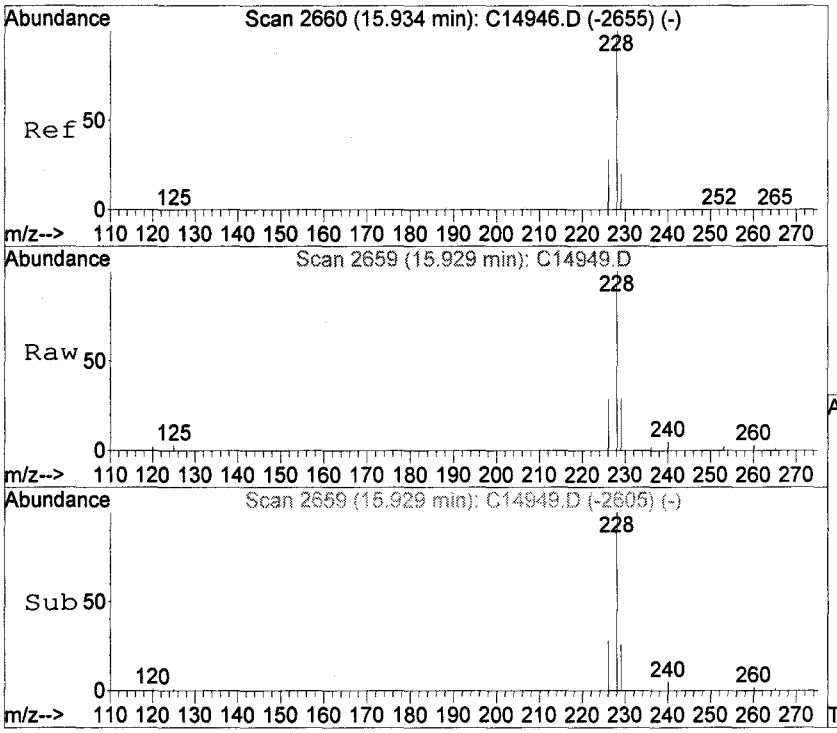
Data File : C:\MSDCHEM\1\DATA\C14949.D Vial: 5
Acq On : 12/20/11 12:14 Operator: SK
Sample : F4XQ3DL 5X Inst : C5975
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: LSCINT.E



#16
Benzo(a)anthracene
Concen: 0.13 ug/mL
RT: 15.87 min Scan# 2649
Delta R.T. -0.00 min
Integration Range:
Scan=2641 to 2653
R.T.= 15.83 to 15.90 (min)
Tgt Ion:228 Resp: 38228

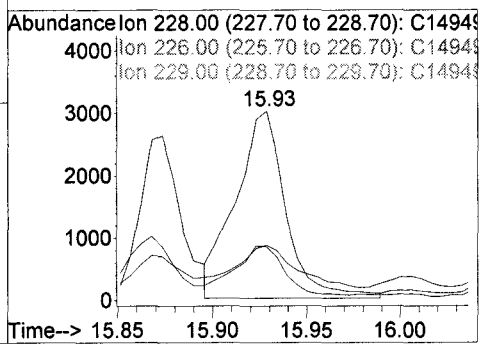
Ion	Ratio	Lower	Upper
228	100		
229	32.1	15.8	23.8#
226	46.2	20.5	30.7#





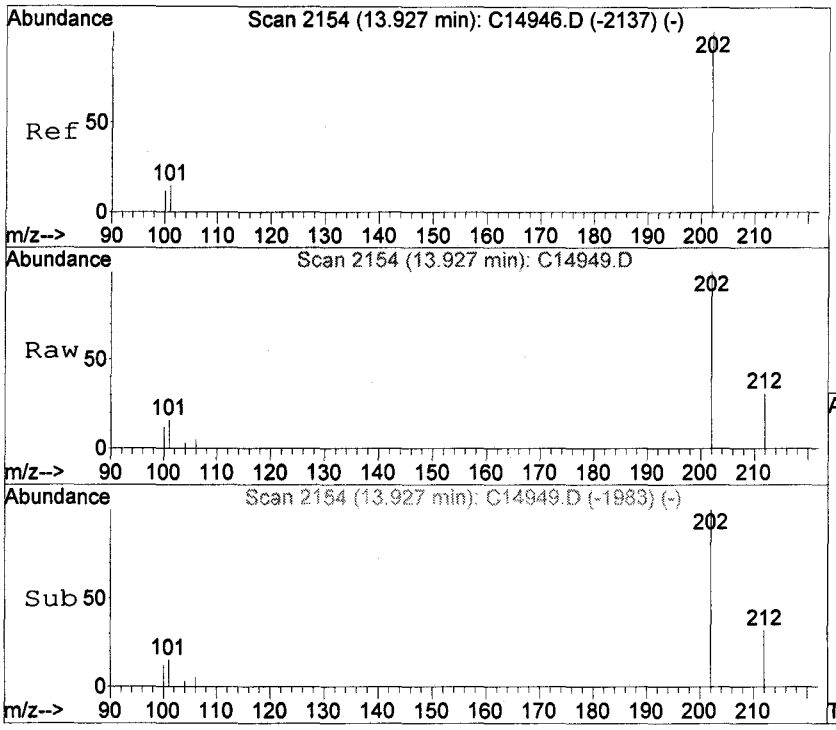
#17
Chrysene
Concen: 0.19 ug/mL
RT: 15.93 min Scan# 2659
Delta R.T. -0.00 min
Integration Range:
Scan=2653 to 2670
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 57040

Ion	Ratio	Lower	Upper
228	100		
226	31.4	22.8	34.2
229	36.9	15.9	23.9#



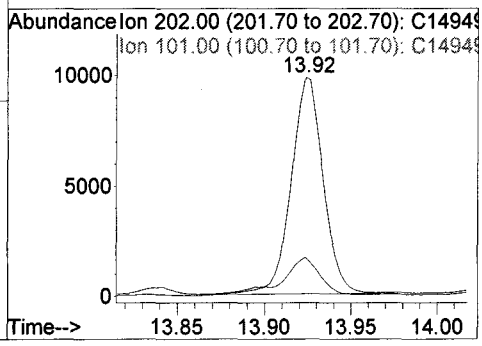
Data File : C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14
Sample : F4XQ3DL 5X
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

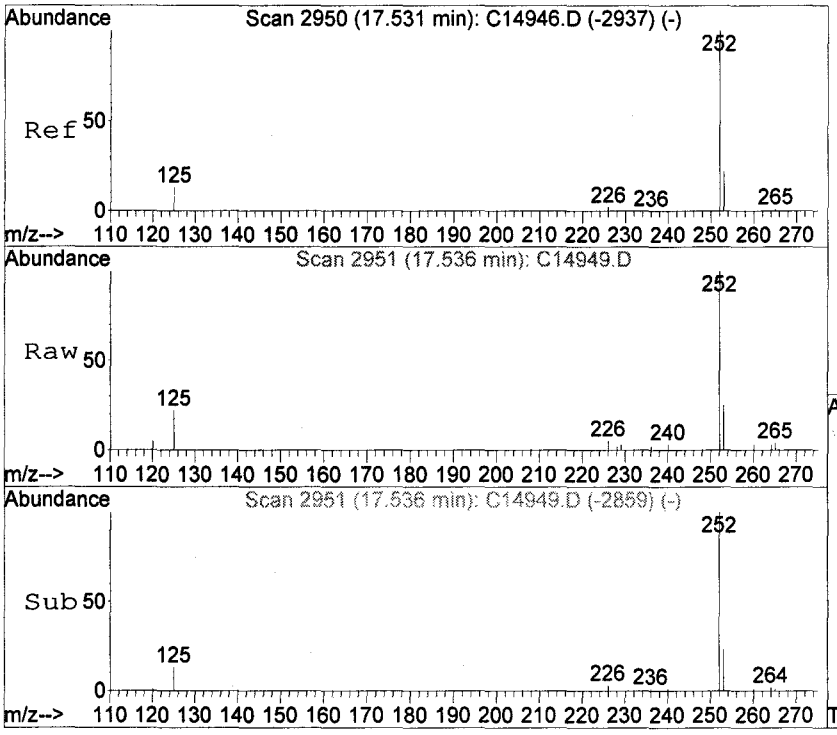
Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.29 ug/mL
RT: 13.93 min Scan# 2154
Delta R.T. -0.00 min
Integration Range:
Scan=2133 to 2168
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 126420

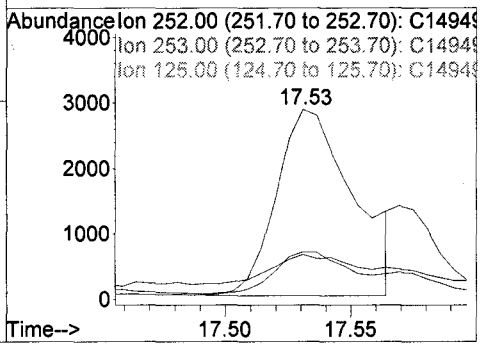
Ion	Ratio	Lower	Upper
202	100		
101	21.3	13.2	19.8#



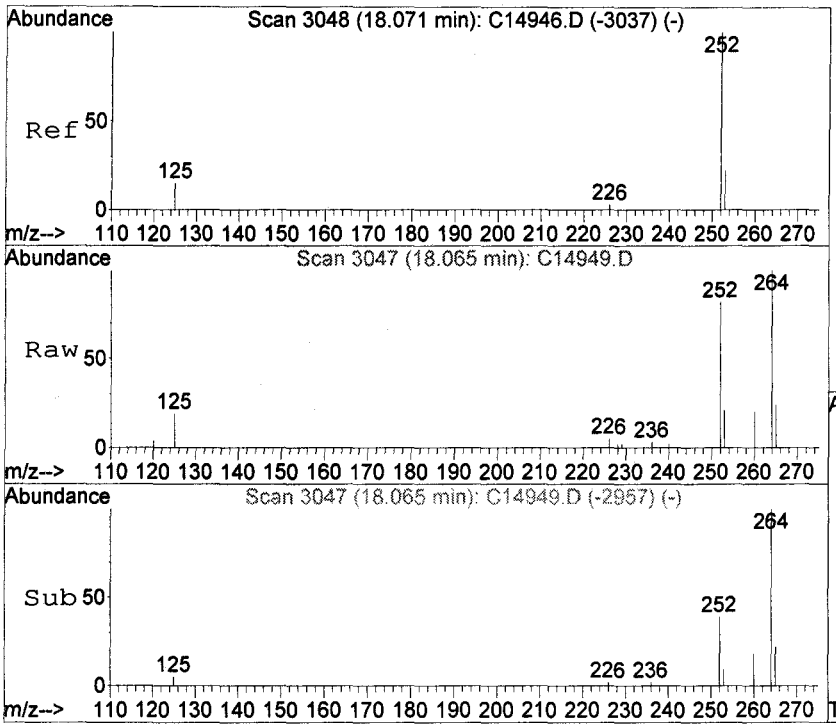


#20
Benzo(b)fluoranthene
Concen: 0.15 ug/mL
RT: 17.54 min Scan# 2951
Delta R.T. 0.00 min
Integration Range:
Scan=2943 to 2956
R.T.= 17.49 to 17.56 (min)
Tgt Ion:252 Resp: 55244

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	18.5	12.3	18.5#

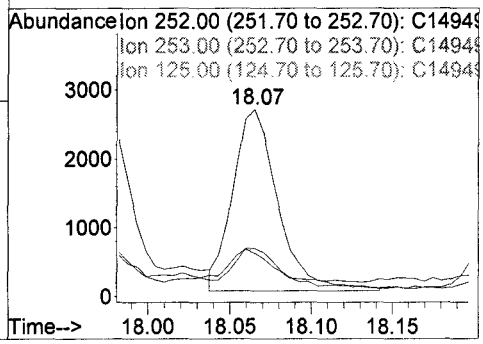


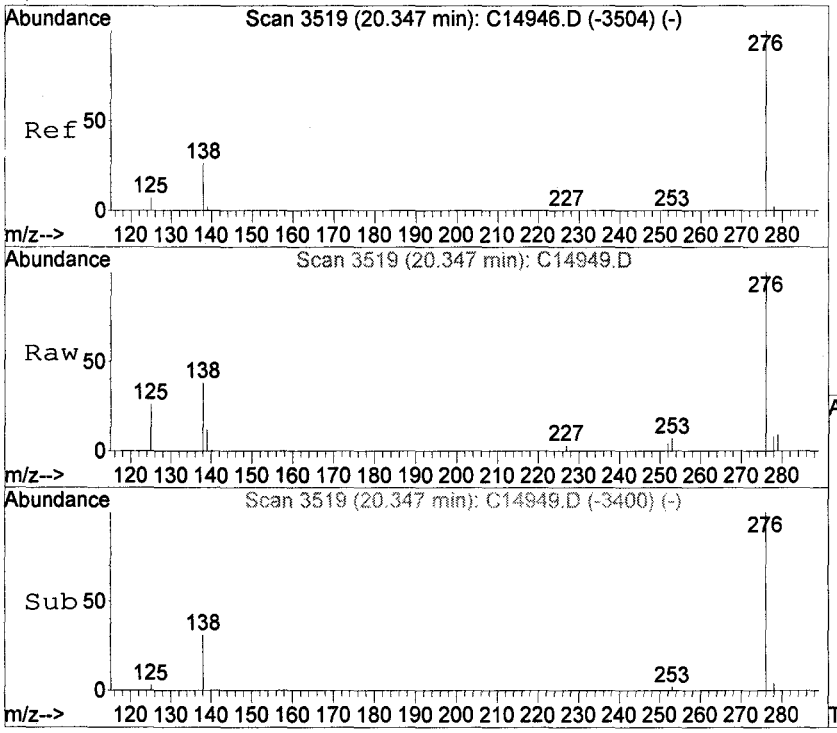
Data File : C:\MSDCHEM\1\DATA\C14949.D Vial: 5
Acq On : 12/20/11 12:14 Operator: SK
Sample : F4XQ3DL 5X Inst : C5975
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: LSCINT.E



#22
Benzo(a)pyrene
Concen: 0.13 ug/mL
RT: 18.07 min Scan# 3047
Delta R.T. -0.00 min
Integration Range:
Scan=3042 to 3061
R.T.= 18.04 to 18.14 (min)
Tgt Ion:252 Resp: 51844

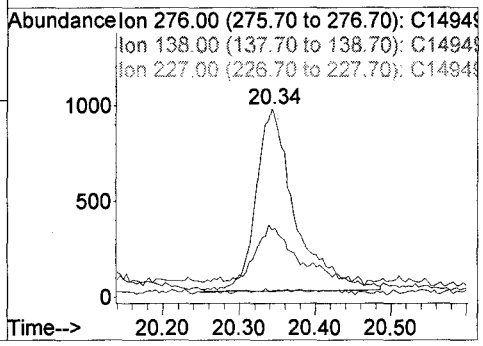
Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	20.1	13.1	19.7#





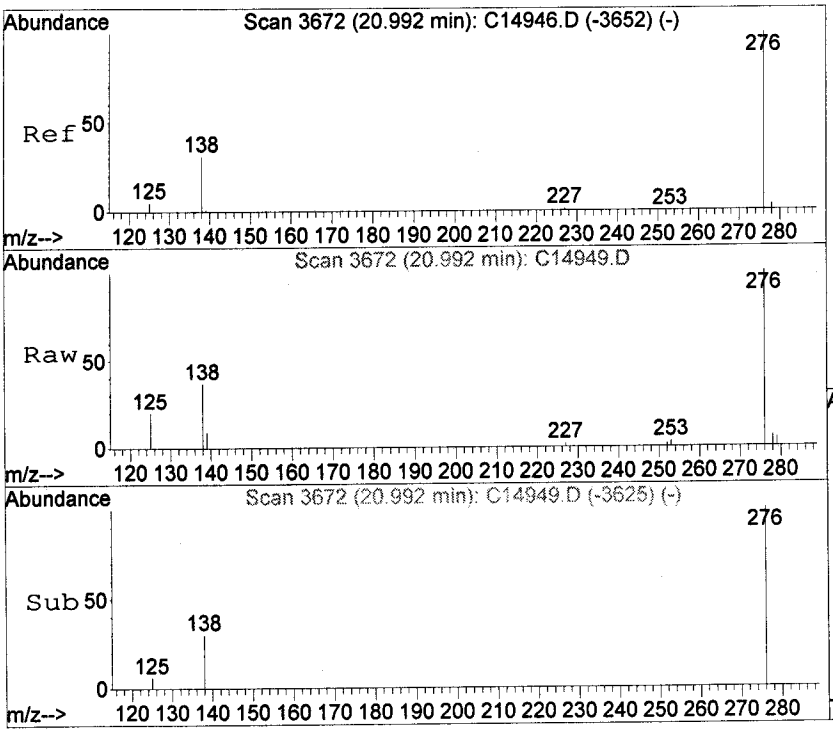
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.11 ug/mL
RT: 20.35 min Scan# 3519
Delta R.T. -0.00 min
Integration Range:
Scan=3497 to 3552
R.T.= 20.25 to 20.49 (min)
Tgt Ion:276 Resp: 33919

Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.7	35.5
227	1.4	0.0	0.0#



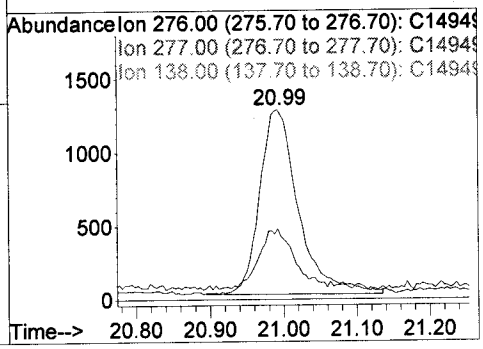
Data File : C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14
Sample : F4XQ3DL 5X
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 5
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.13 ug/mL
RT: 20.99 min Scan# 3672
Delta R.T. 0.00 min
Integration Range:
Scan=3649 to 3706
R.T.= 20.90 to 21.14 (min)
Tgt Ion:276 Resp: 46095

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	32.4	26.2	39.2

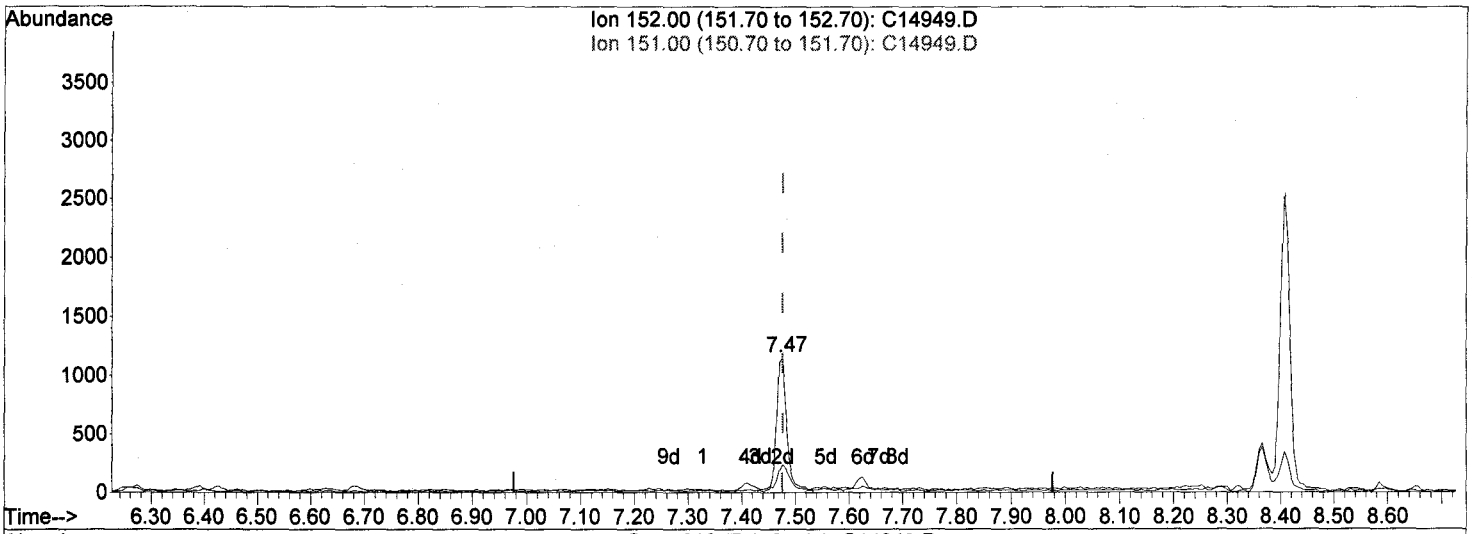


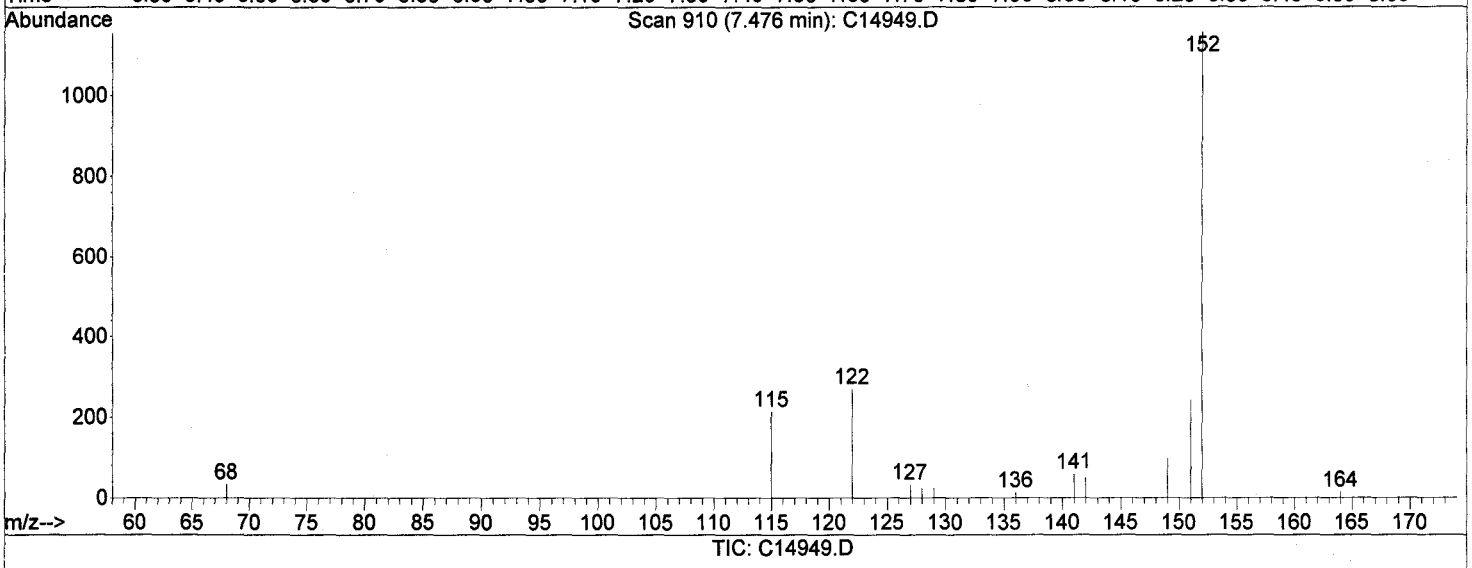
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14 Operator: SK
Sample : F4XQ3DL 5X Inst : C5975
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 13:44:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration

12/22/11





TIC: C14949.D

(3) 2-Methylnaphthalene-d10 (S)

7.476min (-0.001) 0.0785ug/mL m

response 15862

Ion	Exp%	Act%
152.00	100	100
151.00	18.70	0.31#
0.00	0.00	0.00
0.00	0.00	0.00

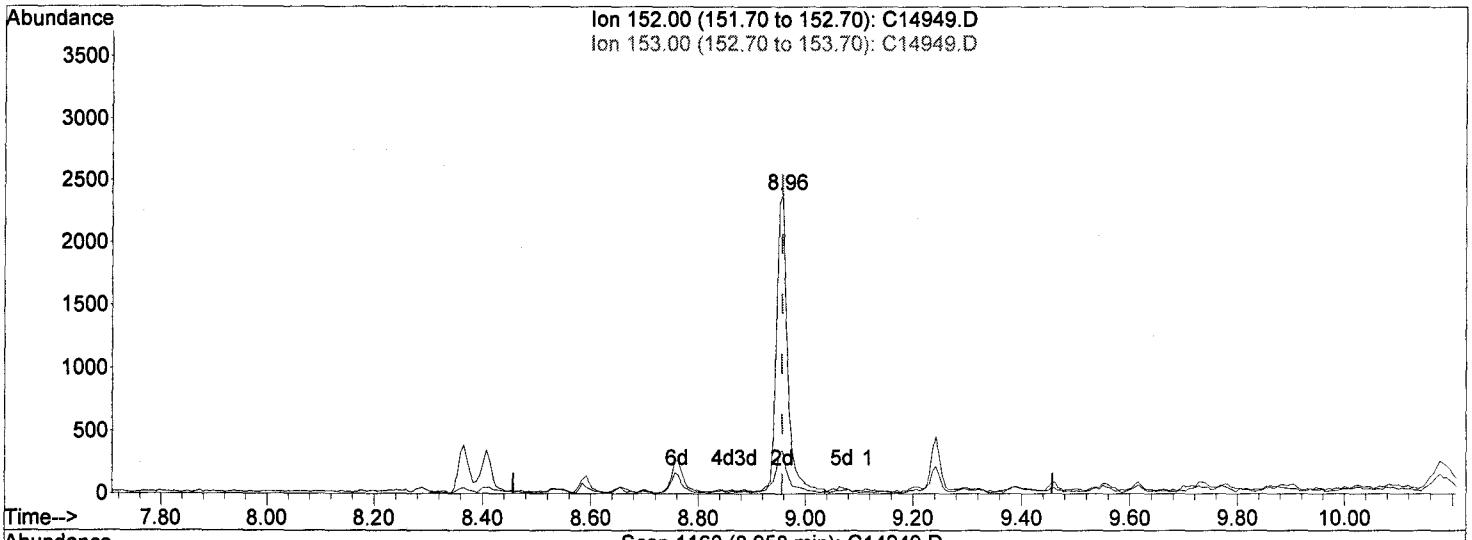
6723

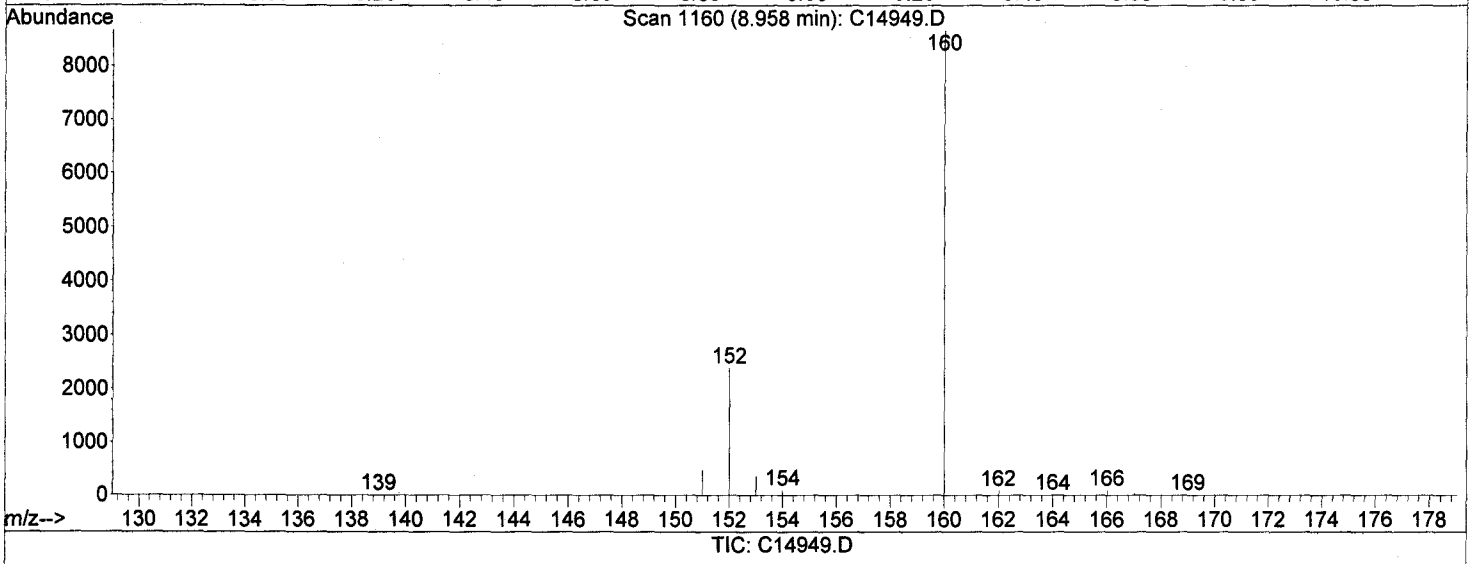
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14949.D
Acq On : 12/20/11 12:14 Operator: SK
Sample : F4XQ3DL 5X Inst : C5975
Misc : S-4476.04DL 60.4G/0.5ML INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 21 13:44:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration

12/22/11





TIC: C14949.D

(6) Acenaphthylene

8.958min (+0.001) 0.0992ug/mL m

response 35256

Ion	Exp%	Act%
152.00	100	100
153.00	13.10	0.26#
0.00	0.00	0.00
0.00	0.00	0.00

0724

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.05

Sample wt/vol: 60.80 (g/mL) G Lab File ID: C14937

Extraction: (Type) SONC

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.7	
91-57-6	2-Methylnaphthalene	4.4	
208-96-8	Acenaphthylene	19	
83-32-9	Acenaphthene	7.5	
86-73-7	Fluorene	5.2	
87-86-5	Pentachlorophenol	6.5	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	8.9	
206-44-0	Fluoranthene	19	
129-00-0	Pyrene	29	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	18	
205-99-2	Benzo(b)fluoranthene	24	
207-08-9	Benzo(k)fluoranthene	7.6	
50-32-8	Benzo(a)pyrene	27	
193-39-5	Indeno(1,2,3-cd)pyrene	16	
53-70-3	Dibenzo(a,h)anthracene	7.1	
191-24-2	Benzo(g,h,i)perylene	21	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:25:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.40	136	158188	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.20	164	122031	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.60	188	238659	0.4000 ug/mL	0.00
15) Chrysene-d12	15.89	240	147405	0.4000 ug/mL	0.01
19) Perylene-d12	18.17	264	167378m	0.4000 ug/mL	0.02
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.48	152	92101	0.3769 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 94.23%	
13) Fluoranthene-d10	13.54	212	221186	0.4208 ug/mL	0.01
Spiked Amount 0.400			Recovery	= 105.20%	
Target Compounds					Qvalue
2) Naphthalene	6.43	128	46802	0.1144 ug/mL#	66
4) 2-Methylnaphthalene	7.53	142	33689	0.1353 ug/mL	96
6) Acenaphthylene	8.96	152	300225	0.6023 ug/mL#	93
7) Acenaphthene	9.25	154	67705	0.2319 ug/mL	95
8) Fluorene	10.09	166	56087	0.1626 ug/mL#	82
11) Phenanthrene	11.64	178	194829	0.3587 ug/mL#	95
12) Anthracene	11.72	178	151396	0.2753 ug/mL#	73
14) Fluoranthene	13.57	202	309017	0.5957 ug/mL	99
16) Benzo(a)anthracene	15.88	228	160775	0.3894 ug/mL#	17
17) Chrysene	15.93	228	242042	0.5667 ug/mL#	71
18) Pyrene	13.93	202	565634	0.9001 ug/mL#	86
20) Benzo(b)fluoranthene	17.54	252	333321	0.7292 ug/mL#	85
21) Benzo(k)fluoranthene	17.58	252	126498	0.2351 ug/mL#	83
22) Benzo(a)pyrene	18.08	252	393536	0.8301 ug/mL	97
23) Dibenzo(a,h)anthracene	20.41	278	63006	0.2211 ug/mL#	89
24) Indeno(1,2,3-cd)pyrene	20.35	276	190048	0.5025 ug/mL#	91
25) Benzo(g,h,i)perylene	21.00	276	274798	0.6478 ug/mL#	96

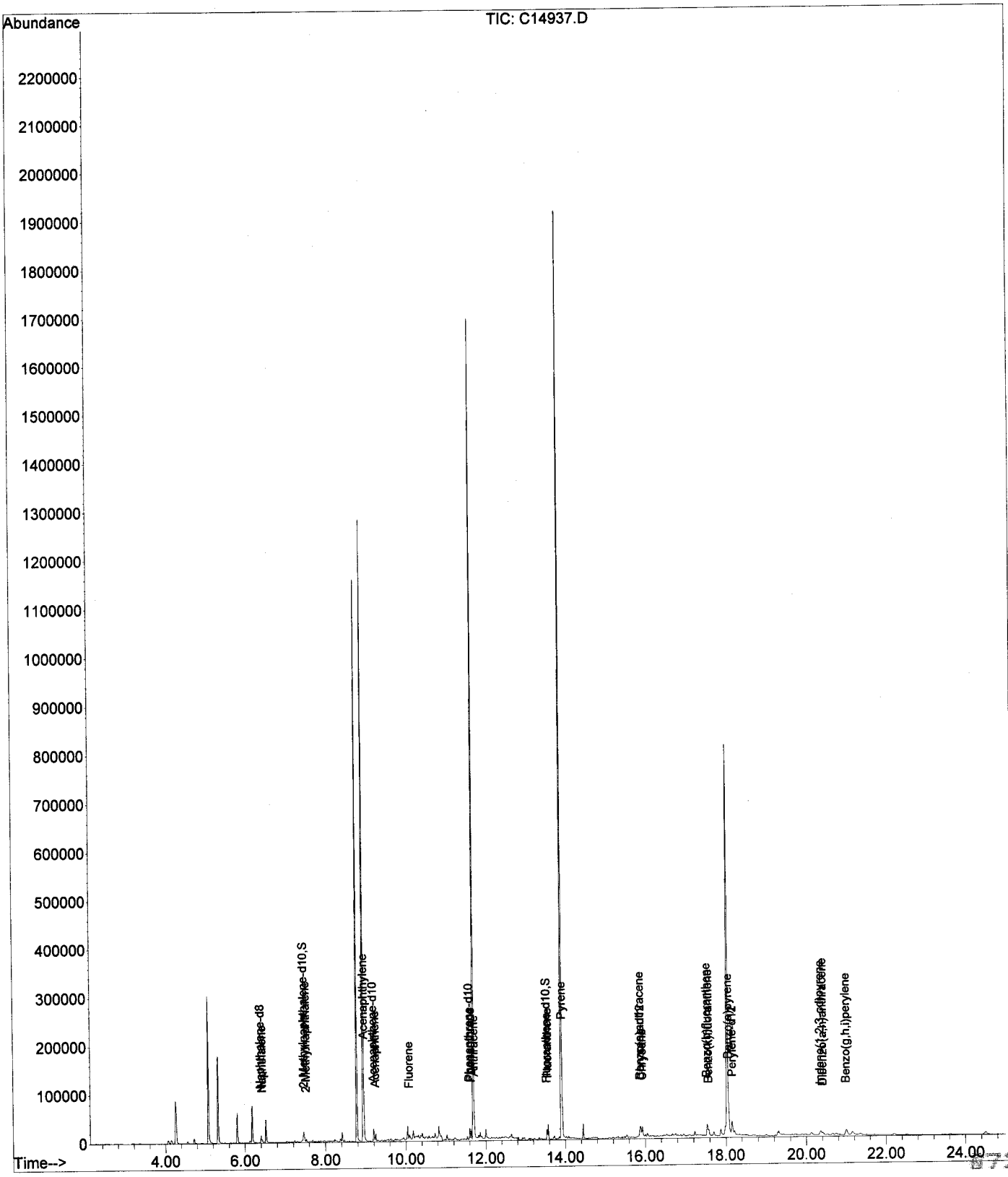
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

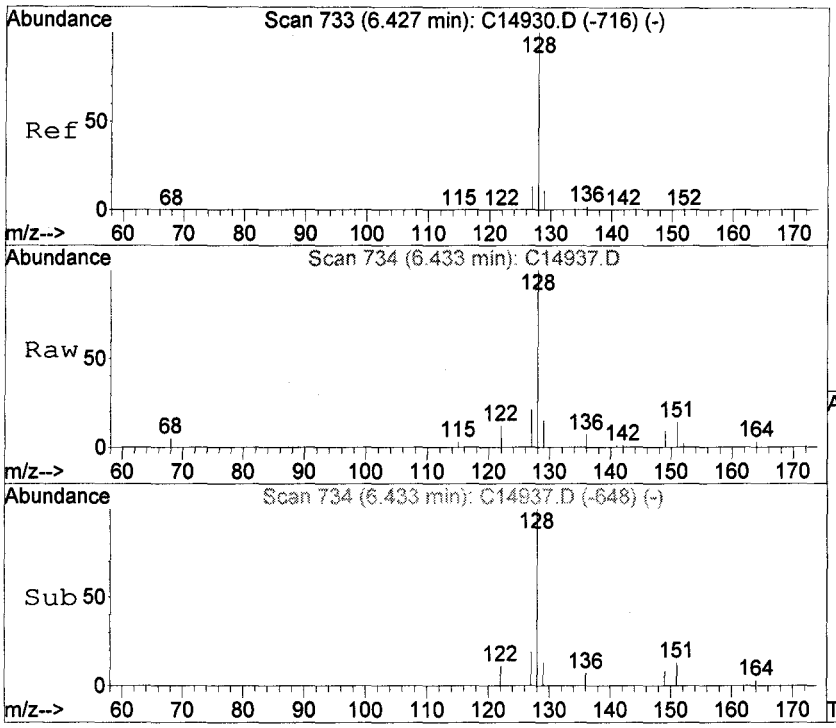
Operator: SK
Inst : C5975

Quant Time: Dec 20 10:25:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



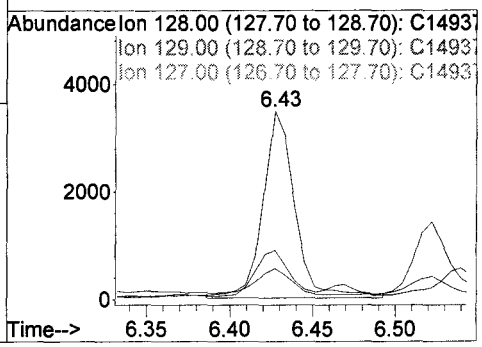
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

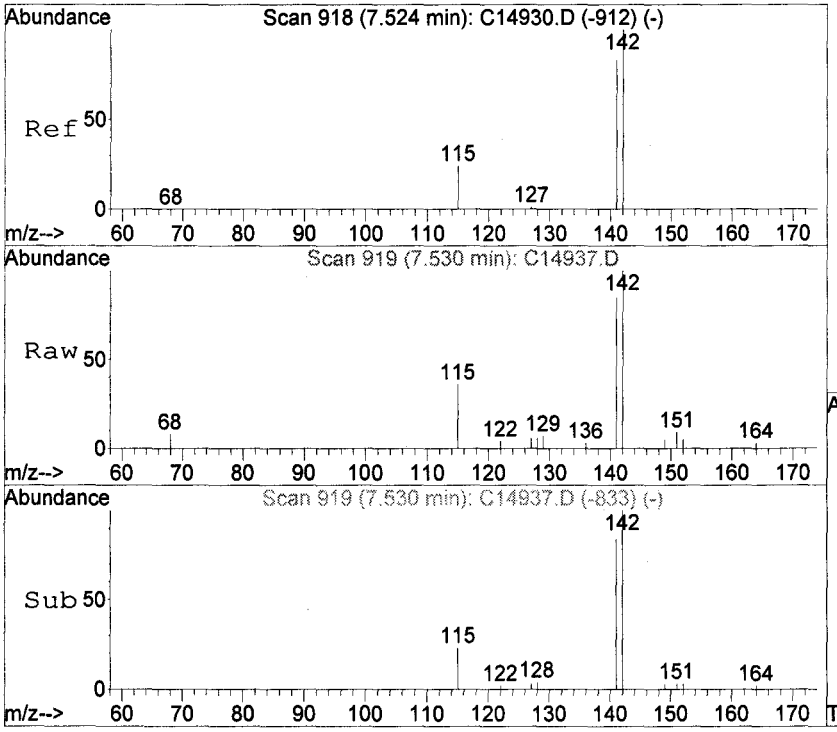
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.11 ug/mL
RT: 6.43 min Scan# 734
Delta R.T. 0.01 min
Integration Range:
Scan=726 to 744
R.T.= 6.39 to 6.49 (min)
Tgt Ion:128 Resp: 46802

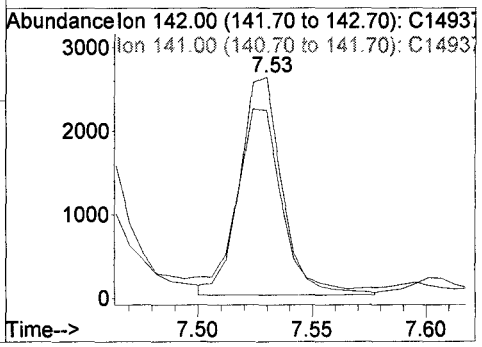
Ion	Ratio	Lower	Upper
128	100		
129	23.1	8.8	13.2#
127	27.5	10.7	16.1#





#4
2-Methylnaphthalene
Concen: 0.14 ug/mL
RT: 7.53 min Scan# 919
Delta R.T. 0.01 min
Integration Range:
Scan=914 to 927
R.T.= 7.50 to 7.58 (min)
Tgt Ion:142 Resp: 33689

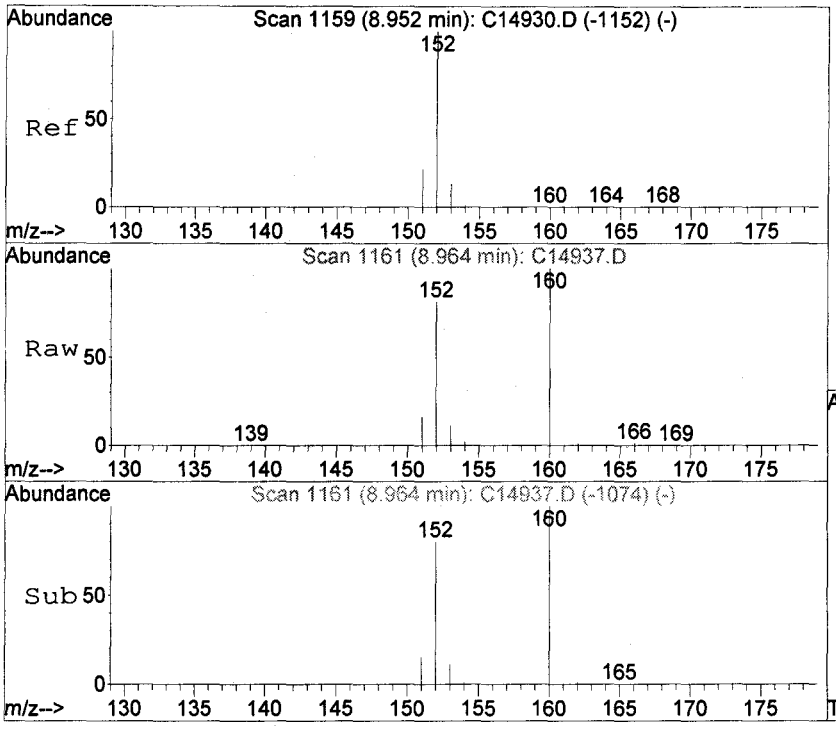
Ion	Ratio	Lower	Upper
142	100		
141	89.0	67.9	101.9



0728

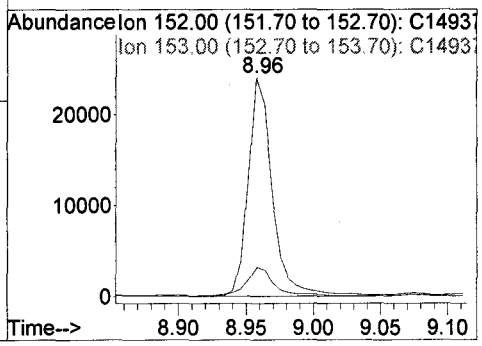
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

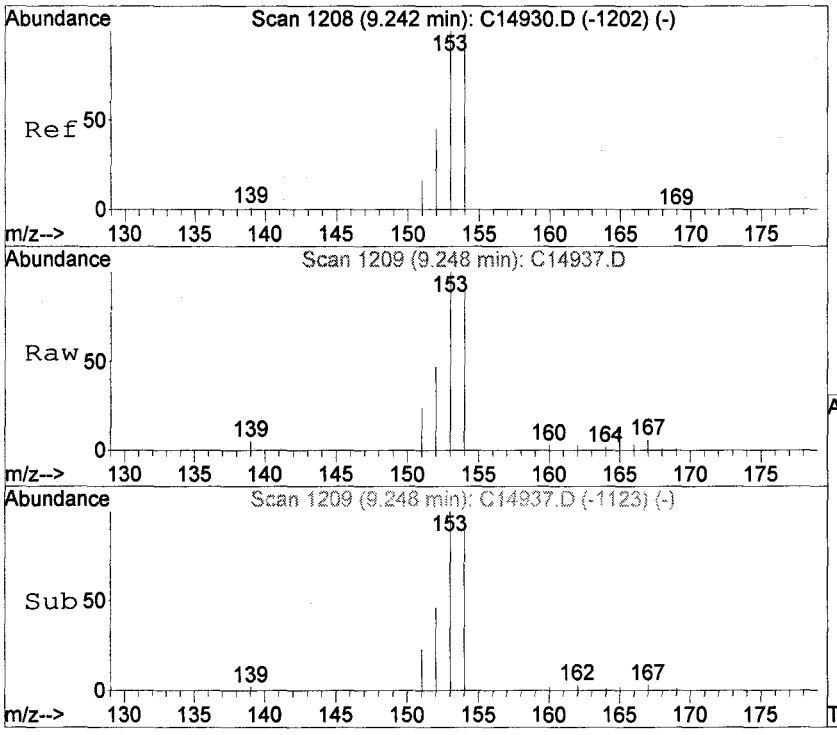
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.60 ug/mL
RT: 8.96 min Scan# 1161
Delta R.T. 0.01 min
Integration Range:
Scan=1153 to 1175
R.T.= 8.92 to 9.05 (min)
Tgt Ion:152 Resp: 300225

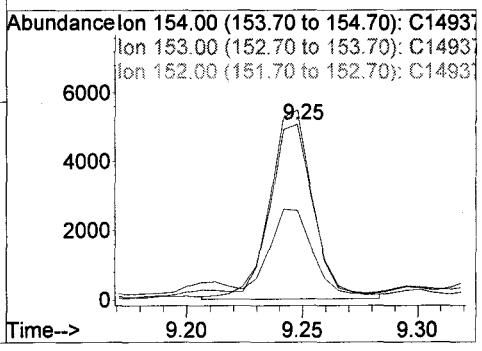
Ion	Ratio	Lower	Upper
152	100		
153	16.0	10.5	15.7#





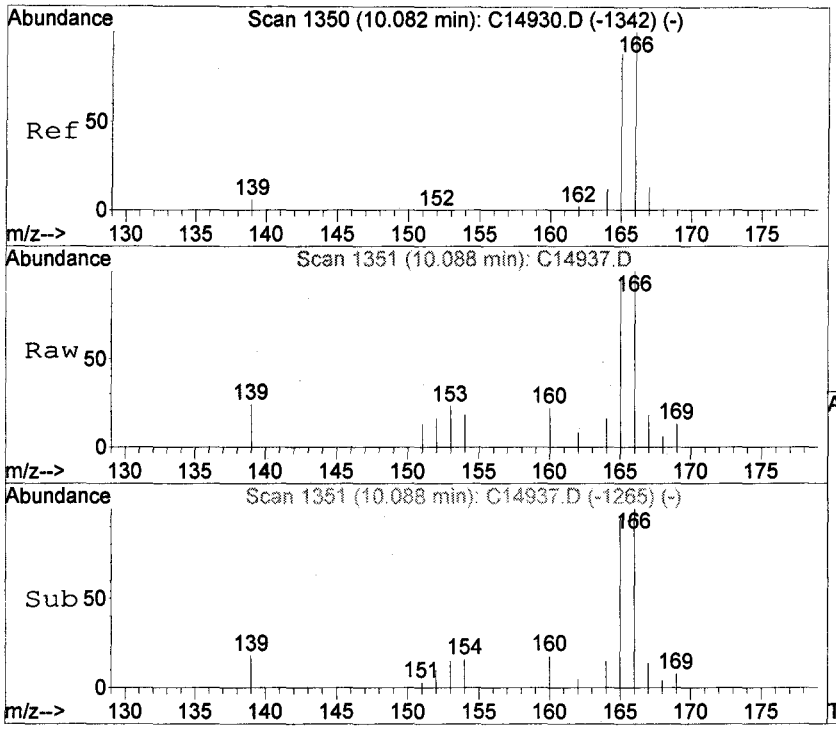
#7
Acenaphthene
Concen: 0.23 ug/mL
RT: 9.25 min Scan# 1209
Delta R.T. 0.01 min
Integration Range:
Scan=1202 to 1215
R.T.= 9.21 to 9.28 (min)
Tgt Ion:154 Resp: 67705

Ion	Ratio	Lower	Upper
154	100		
153	99.6	85.2	127.8
152	48.5	39.4	59.0



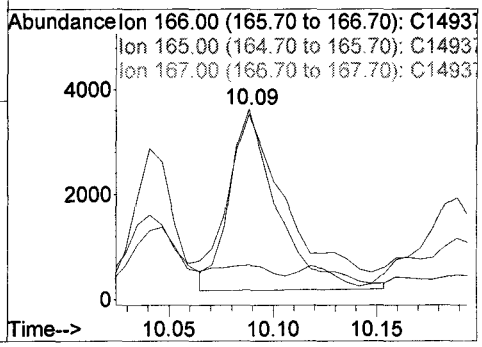
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

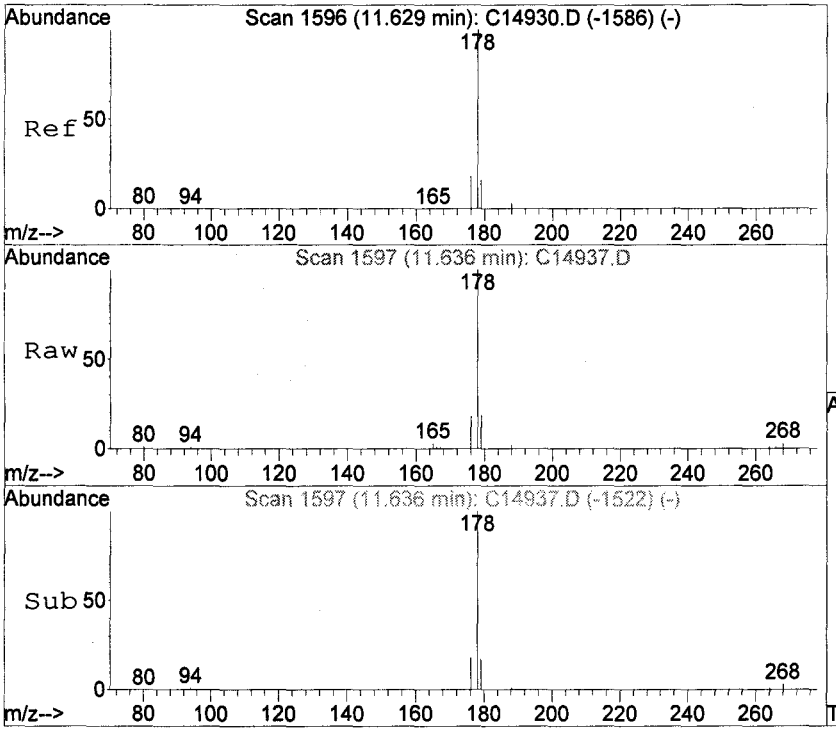
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#8
Fluorene
Concen: 0.16 ug/mL
RT: 10.09 min Scan# 1351
Delta R.T. 0.01 min
Integration Range:
Scan=1347 to 1362
R.T.= 10.06 to 10.15 (min)
Tgt Ion:166 Resp: 56087

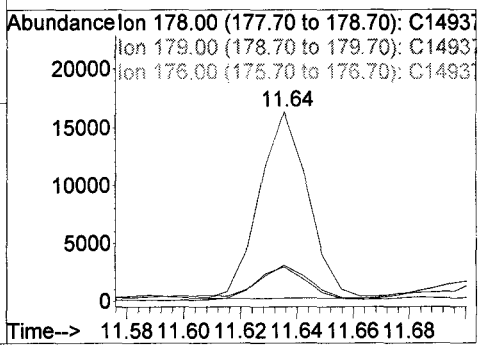
Ion	Ratio	Lower	Upper
166	100		
165	110.5	73.9	110.9
167	18.0	10.7	16.1#





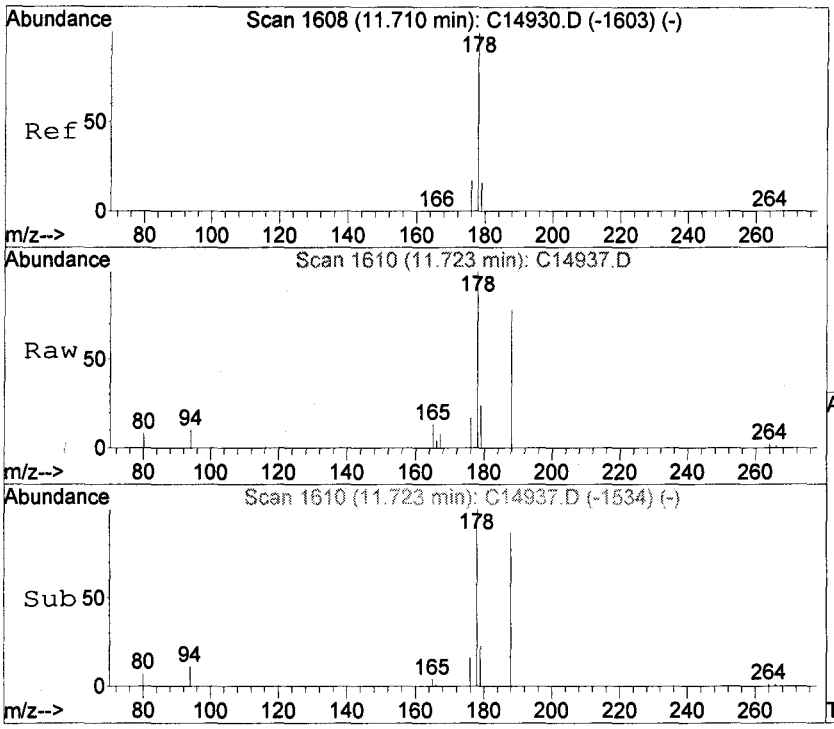
#11
Phenanthrene
Concen: 0.36 ug/mL
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Integration Range:
Scan=1593 to 1602
R.T.= 11.61 to 11.67 (min)
Tgt Ion:178 Resp: 194829

Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.2	18.4#
176	18.8	14.5	21.7



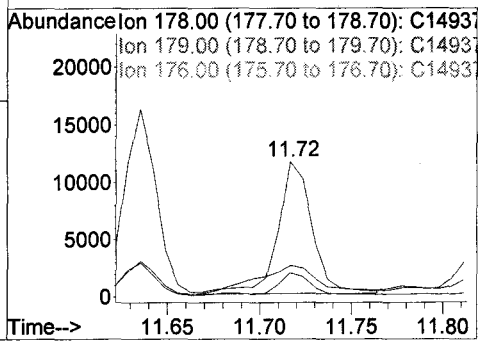
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

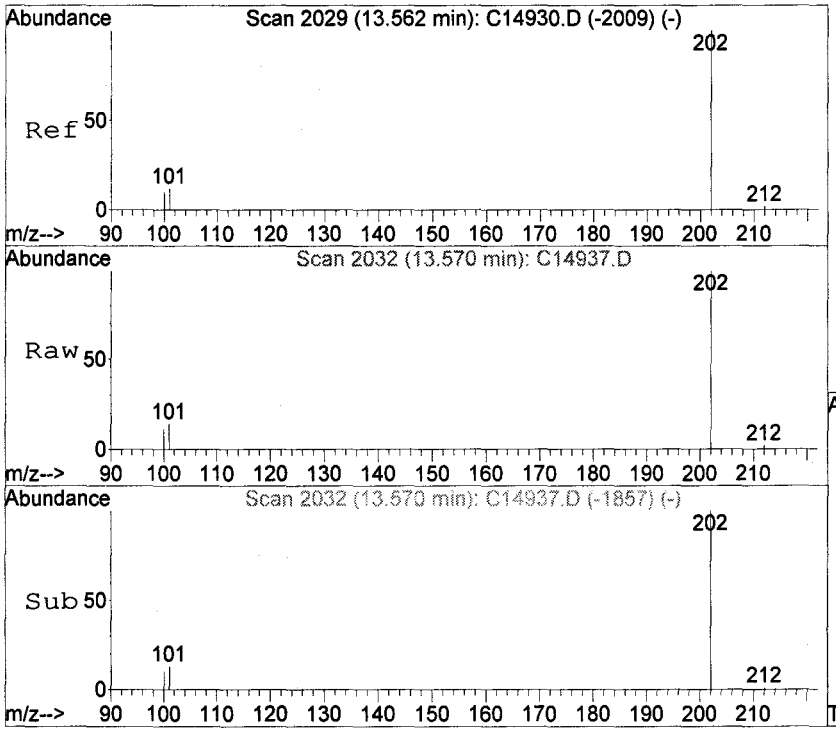
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.28 ug/mL
RT: 11.72 min Scan# 1610
Delta R.T. 0.01 min
Integration Range:
Scan=1602 to 1616
R.T.= 11.67 to 11.76 (min)
Tgt Ion:178 Resp: 151396

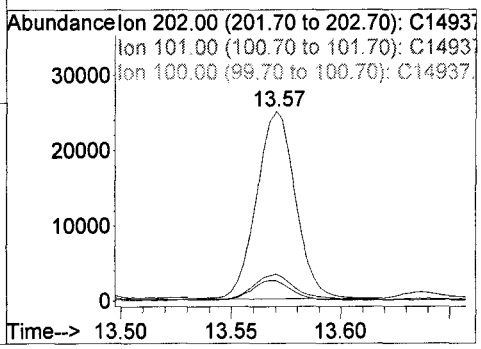
Ion	Ratio	Lower	Upper
178	100		
179	38.5	12.4	18.6#
176	18.3	13.8	20.8





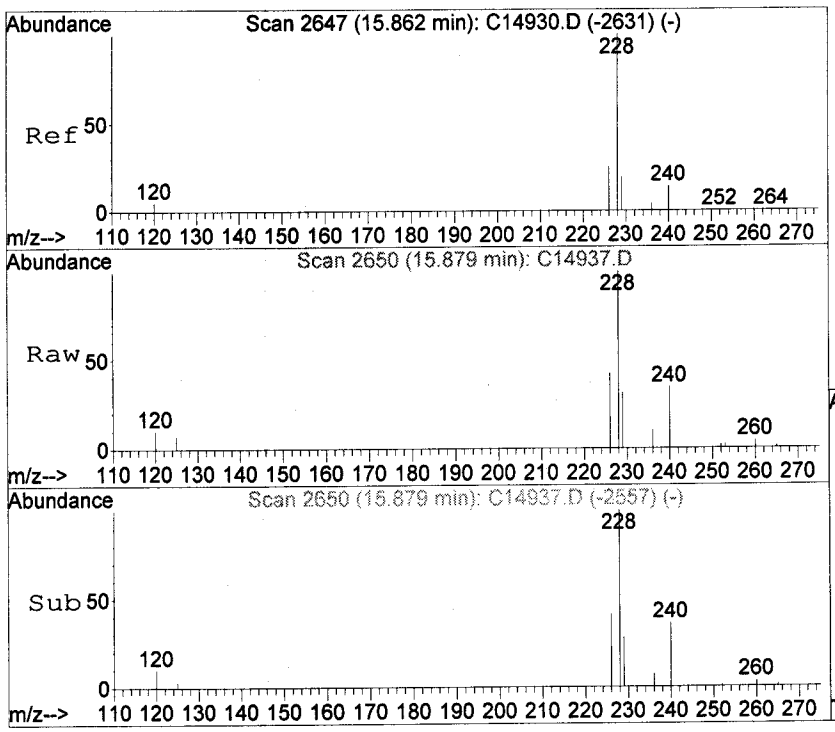
#14
Fluoranthene
Concen: 0.60 ug/mL
RT: 13.57 min Scan# 2032
Delta R.T. 0.01 min
Integration Range:
Scan=2021 to 2048
R.T.= 13.54 to 13.62 (min)
Tgt Ion:202 Resp: 309017

Ion	Ratio	Lower	Upper
202	100		
101	14.8	11.5	17.3
100	11.3	8.8	13.2



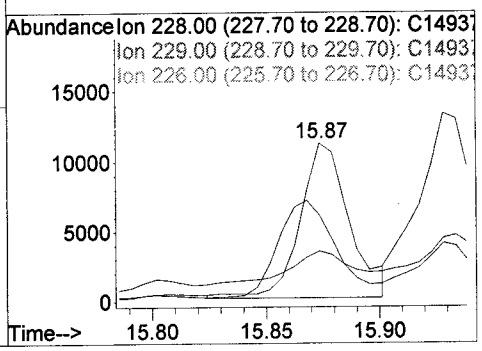
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

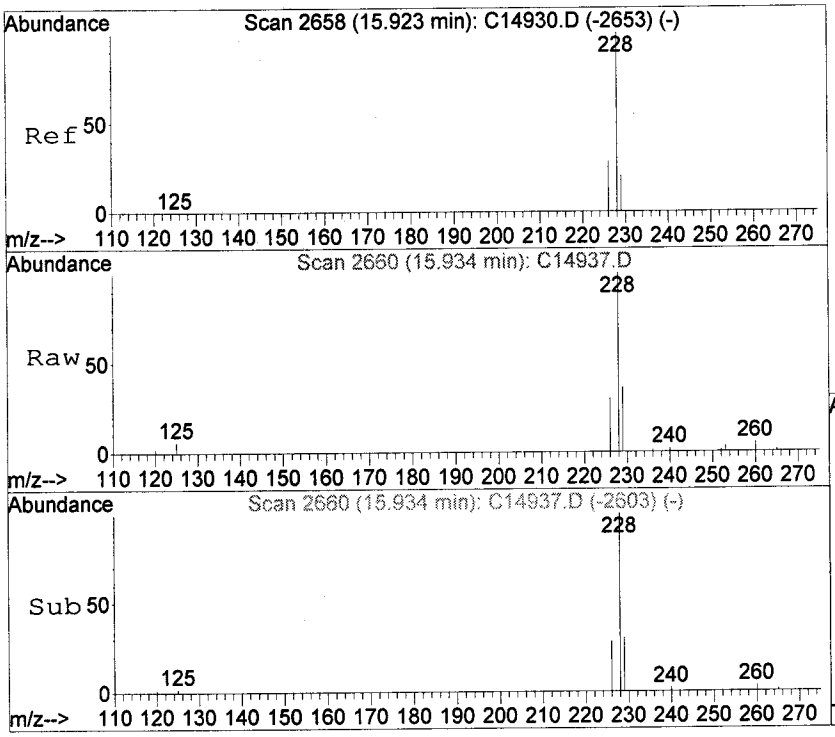
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.39 ug/mL
RT: 15.88 min Scan# 2650
Delta R.T. 0.01 min
Integration Range:
Scan=2640 to 2654
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 160775

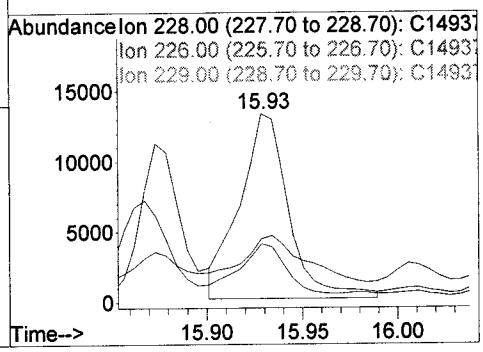
Ion	Ratio	Lower	Upper
228	100		
229	46.3	15.8	23.8#
226	77.8	20.5	30.7#



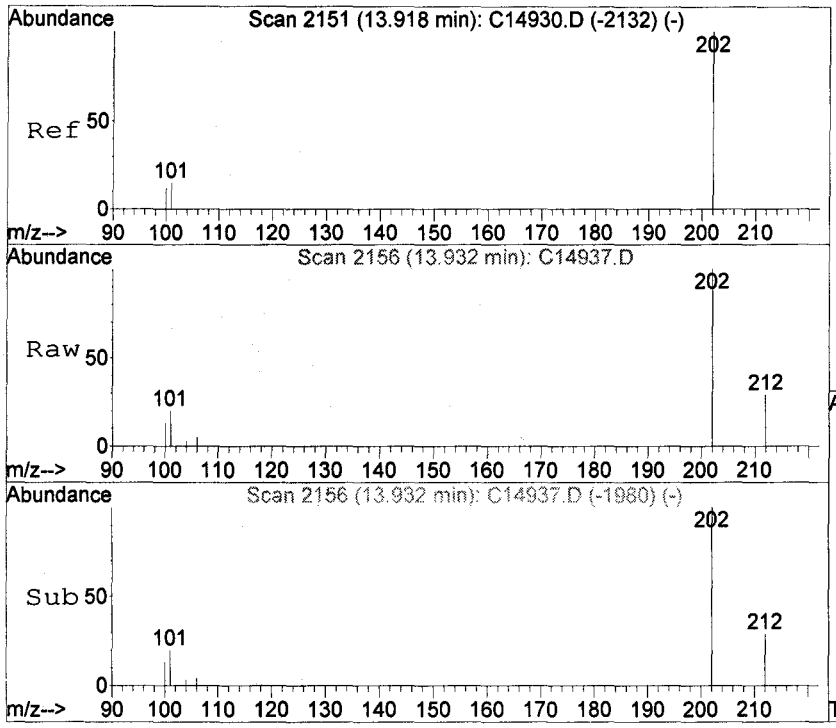


#17
Chrysene
Concen: 0.57 ug/mL
RT: 15.93 min Scan# 2660
Delta R.T. 0.01 min
Integration Range:
Scan=2654 to 2670
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 242042

Ion	Ratio	Lower	Upper
228	100		
226	32.2	22.8	34.2
229	47.8	15.9	23.9#

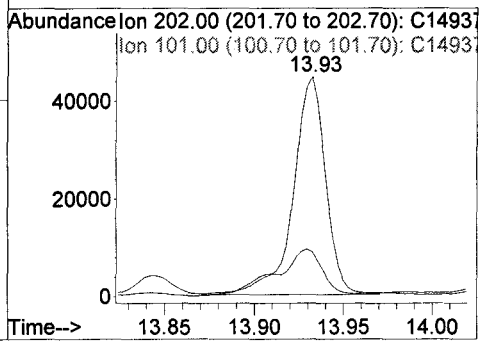


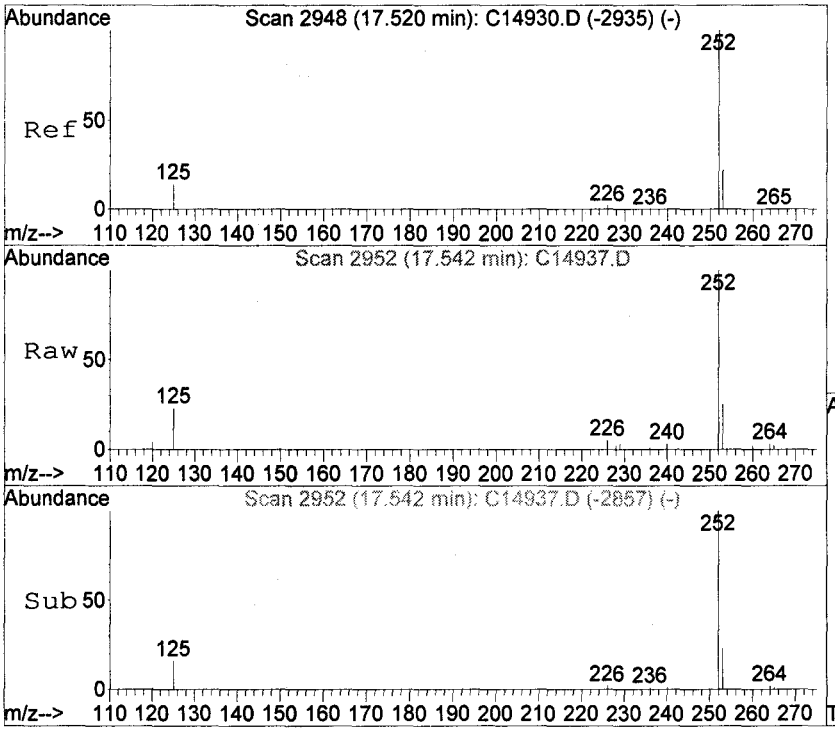
Data File : C:\MSDCHEM\1\DATA\C14937.D Vial: 9
Acq On : 12/19/11 14:52 Operator: SK
Sample : F4XQ4 Inst : C5975
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: LSCINT.E



#18
Pyrene
Concen: 0.90 ug/mL
RT: 13.93 min Scan# 2156
Delta R.T. 0.02 min
Integration Range:
Scan=2135 to 2169
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 565634

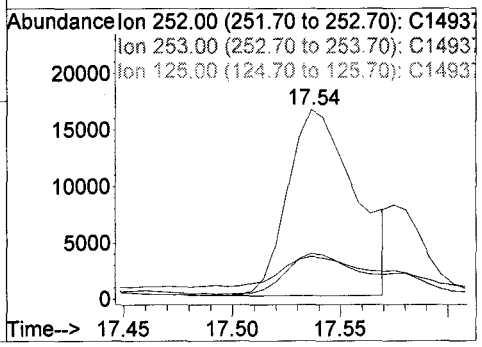
Ion	Ratio	Lower	Upper
202	100		
101	22.6	13.2	19.8#





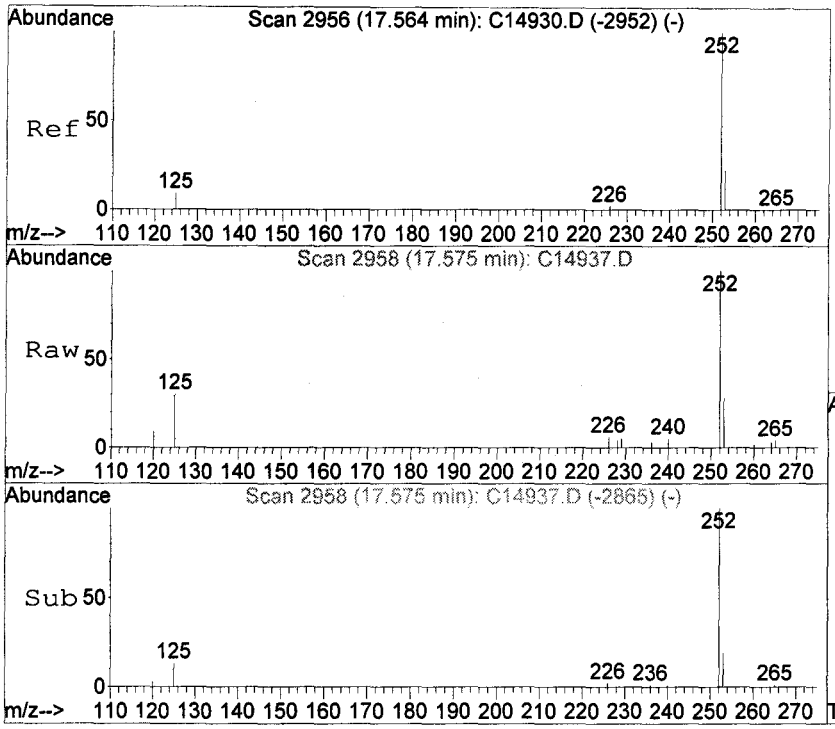
#20
Benzo(b)fluoranthene
Concen: 0.73 ug/mL
RT: 17.54 min Scan# 2952
Delta R.T. 0.02 min
Integration Range:
Scan=2942 to 2957
R.T.= 17.49 to 17.57 (min)
Tgt Ion:252 Resp: 333321

Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.5	26.3
125	27.2	12.3	18.5#



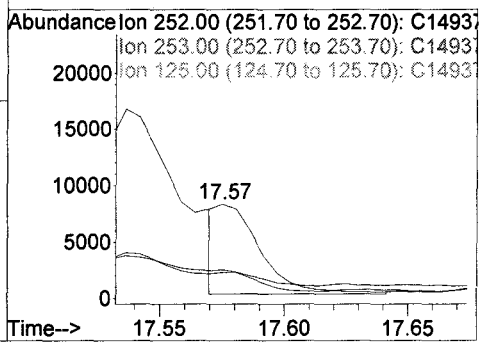
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

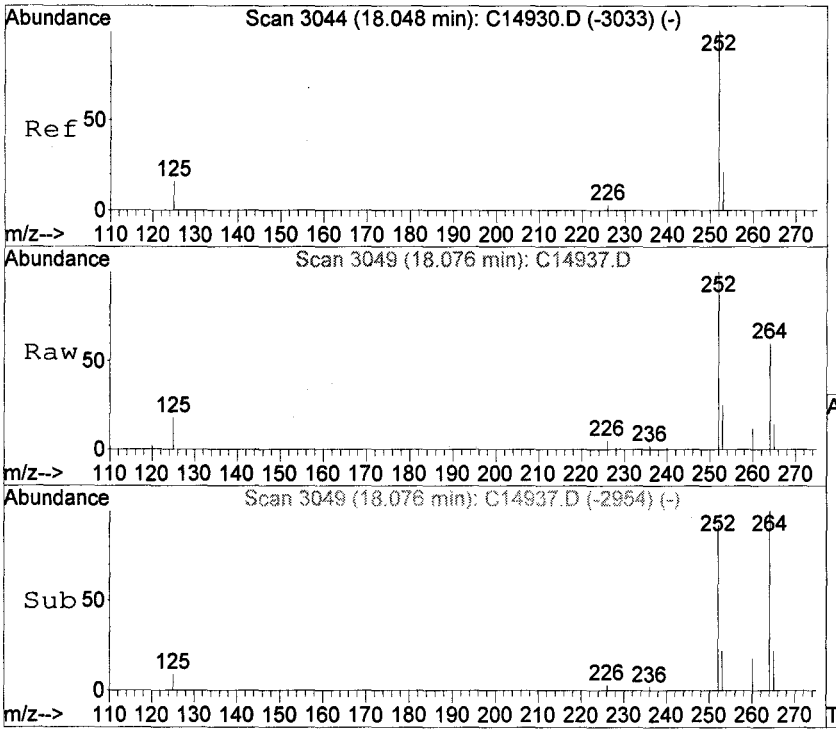
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.24 ug/mL
RT: 17.58 min Scan# 2958
Delta R.T. 0.01 min
Integration Range:
Scan=2957 to 2970
R.T.= 17.57 to 17.64 (min)
Tgt Ion:252 Resp: 126498

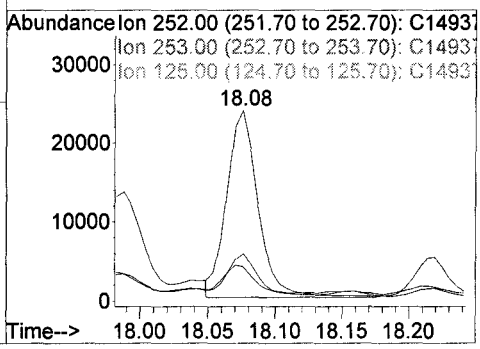
Ion	Ratio	Lower	Upper
252	100		
253	20.8	17.7	26.5
125	0.0	12.4	18.6#





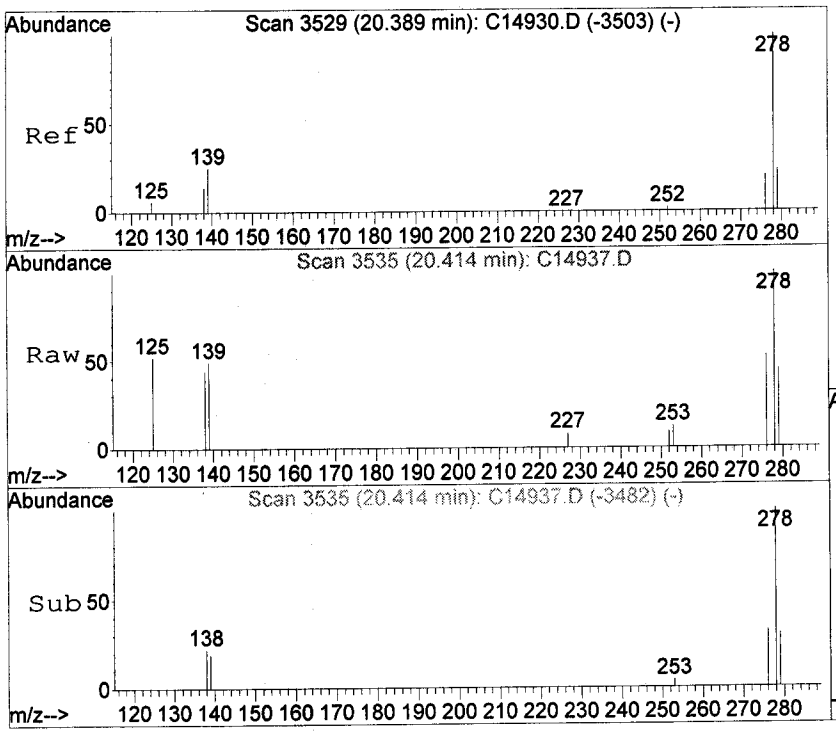
#22
Benzo(a)pyrene
Concen: 0.83 ug/mL
RT: 18.08 min Scan# 3049
Delta R.T. 0.03 min
Integration Range:
Scan=3044 to 3067
R.T.= 18.05 to 18.18 (min)
Tgt Ion:252 Resp: 393536

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	15.5	13.1	19.7



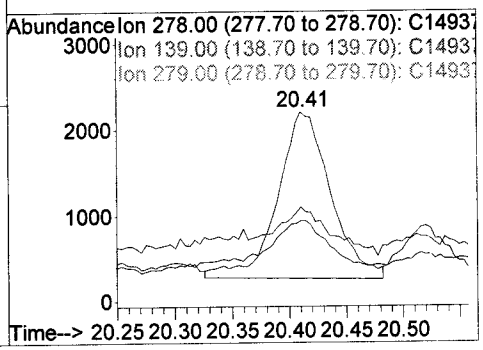
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

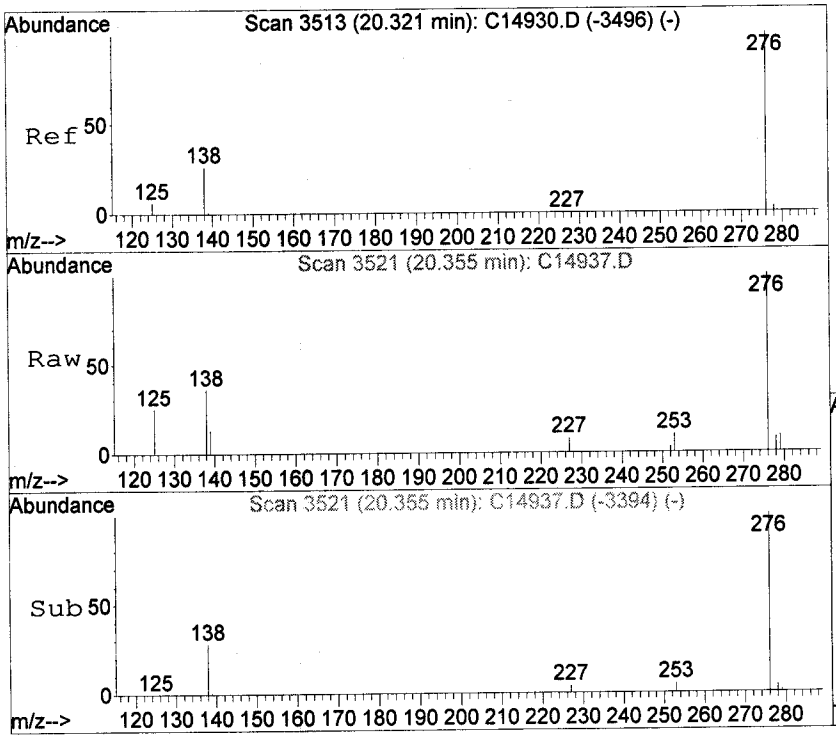
Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.22 ug/mL
RT: 20.41 min Scan# 3535
Delta R.T. 0.02 min
Integration Range:
Scan=3514 to 3551
R.T.= 20.33 to 20.48 (min)
Tgt Ion:278 Resp: 63006

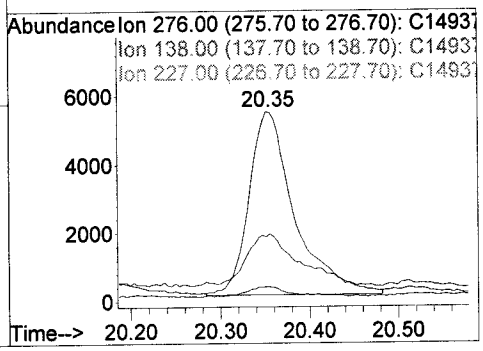
Ion	Ratio	Lower	Upper
278	100		
139	26.9	19.8	29.6
279	32.2	18.4	27.6#





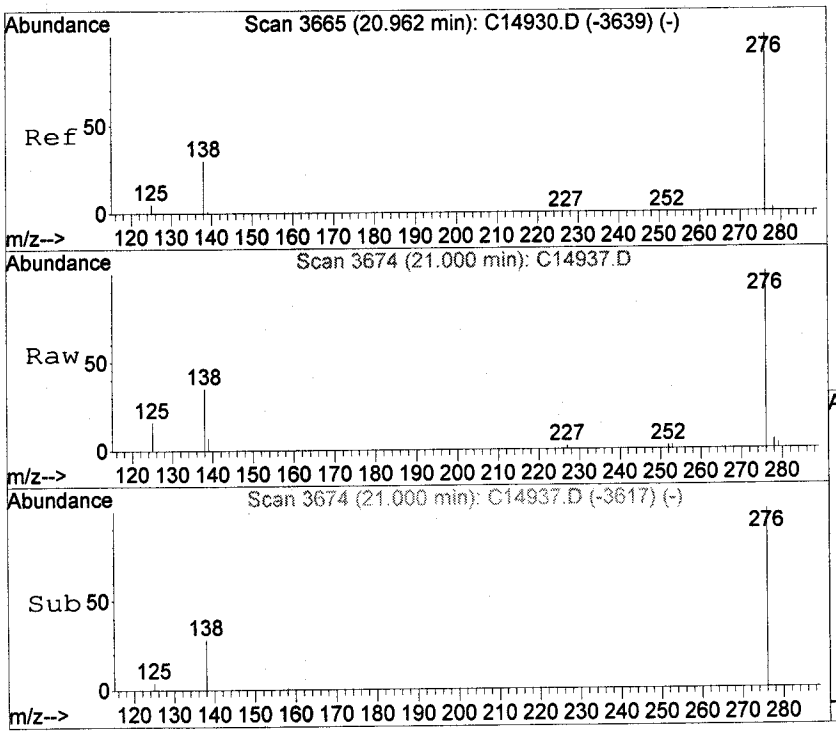
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.50 ug/mL
RT: 20.35 min Scan# 3521
Delta R.T. 0.03 min
Integration Range:
Scan=3504 to 3551
R.T.= 20.28 to 20.48 (min)
Tgt Ion:276 Resp: 190048

Ion	Ratio	Lower	Upper
276	100		
138	34.2	23.7	35.5
227	4.7	0.0	0.0#



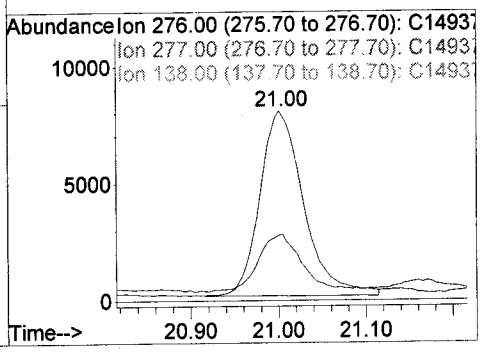
Data File : C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 9
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.65 ug/mL
RT: 21.00 min Scan# 3674
Delta R.T. 0.04 min
Integration Range:
Scan=3654 to 3701
R.T.= 20.92 to 21.11 (min)
Tgt Ion:276 Resp: 274798

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	30.3	26.2	39.2



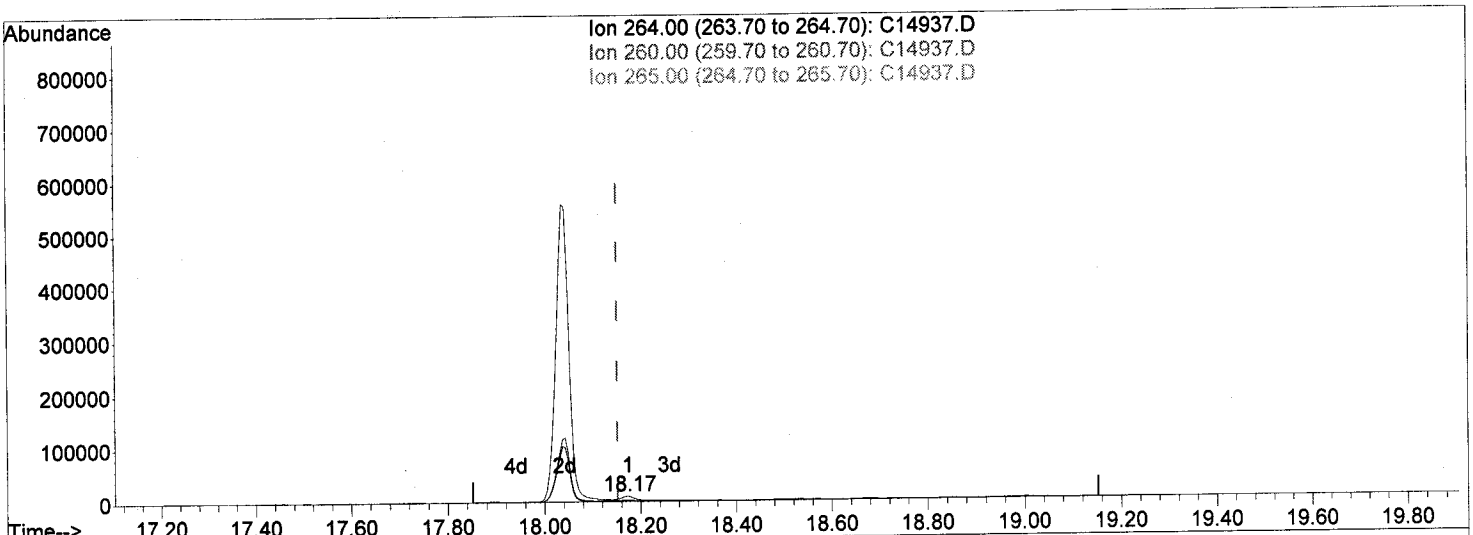
Quantitation Report (Qedit)

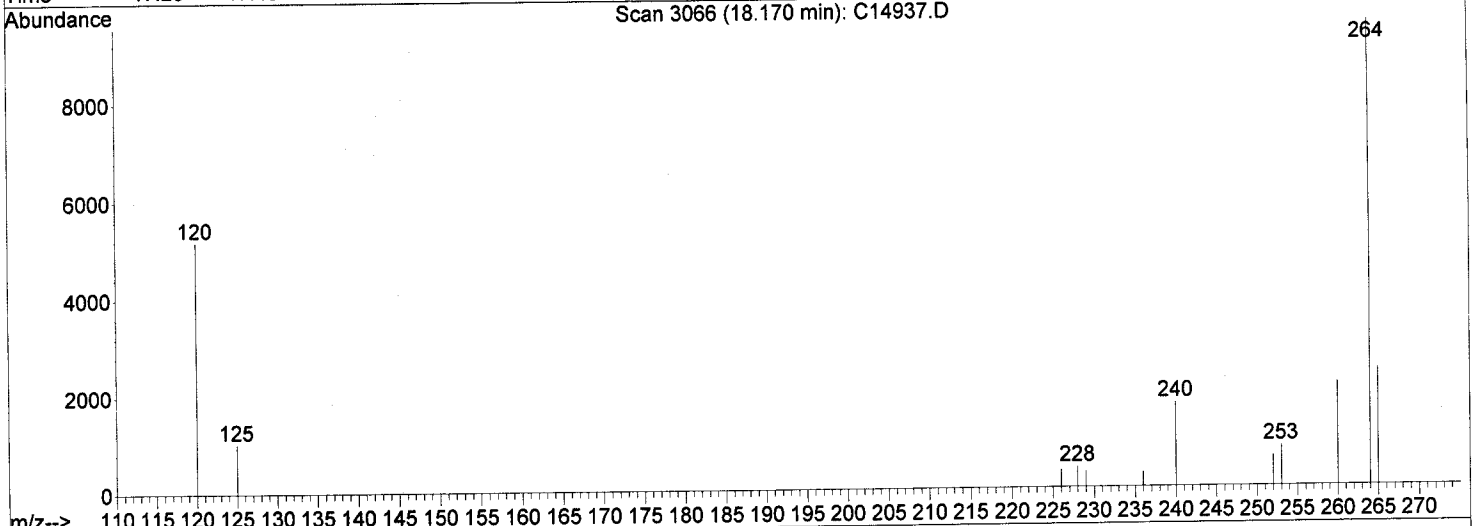
Data File: C:\MSDCHEM\1\DATA\C14937.D
Acq On : 12/19/11 14:52
Sample : F4XQ4
Misc : S-4476.05 60.8G/0.5ML INJ VOL: 1UL
ALS Vial : 9 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:25:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14937.D

(19) Perylene-d12

18.170min (+0.017) 0.4000ug/mL m

response 167378

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	35.07#
265.00	21.10	35.88#
0.00	0.00	0.00

E737

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.08

Sample wt/vol: 60.90 (g/mL) G Lab File ID: C14925

Extraction: (Type) SONC

% Moisture: 36 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.5	U
91-57-6	2-Methylnaphthalene	2.5	J
208-96-8	Acenaphthylene	2.5	U
83-32-9	Acenaphthene	2.5	U
86-73-7	Fluorene	2.5	U
87-86-5	Pentachlorophenol	5.2	U
85-01-8	Phenanthrene	2.5	U
120-12-7	Anthracene	2.5	U
206-44-0	Fluoranthene	4.7	
129-00-0	Pyrene	5.9	
56-55-3	Benzo(a)anthracene	2.6	
218-01-9	Chrysene	3.5	
205-99-2	Benzo(b)fluoranthene	2.7	
207-08-9	Benzo(k)fluoranthene	2.5	U
50-32-8	Benzo(a)pyrene	2.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	U
53-70-3	Dibenzo(a,h)anthracene	2.5	U
191-24-2	Benzo(g,h,i)perylene	3.5	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47 Operator: SK
Sample : F4XQ5 Inst : C5975
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 09:56:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

K 12/19/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	174983	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	127795	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	219574	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	132025	0.4000	ug/mL	0.00
19) Perylene-d12	18.15	264	145552m	0.4000	ug/mL	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	90657	0.3354	ug/mL	0.00
Spiked Amount 0.400			Recovery =	83.85%		
13) Fluoranthene-d10	13.53	212	166366	0.3440	ug/mL	0.00
Spiked Amount 0.400			Recovery =	86.00%		
Target Compounds						Qvalue
4) 2-Methylnaphthalene	7.52	142	26846	0.0974	ug/mL#	71
14) Fluoranthene	13.56	202	88076	0.1845	ug/mL	94
16) Benzo(a)anthracene	15.87	228	38052	0.1029	ug/mL#	67
17) Chrysene	15.92	228	52398	0.1370	ug/mL#	83
18) Pyrene	13.92	202	128362	0.2281	ug/mL#	64
20) Benzo(b)fluoranthene	17.52	252	41579	0.1046	ug/mL#	56
22) Benzo(a)pyrene	18.06	252	38707	0.0939	ug/mL#	77
25) Benzo(g,h,i)perylene	20.96	276	50458	0.1368	ug/mL#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

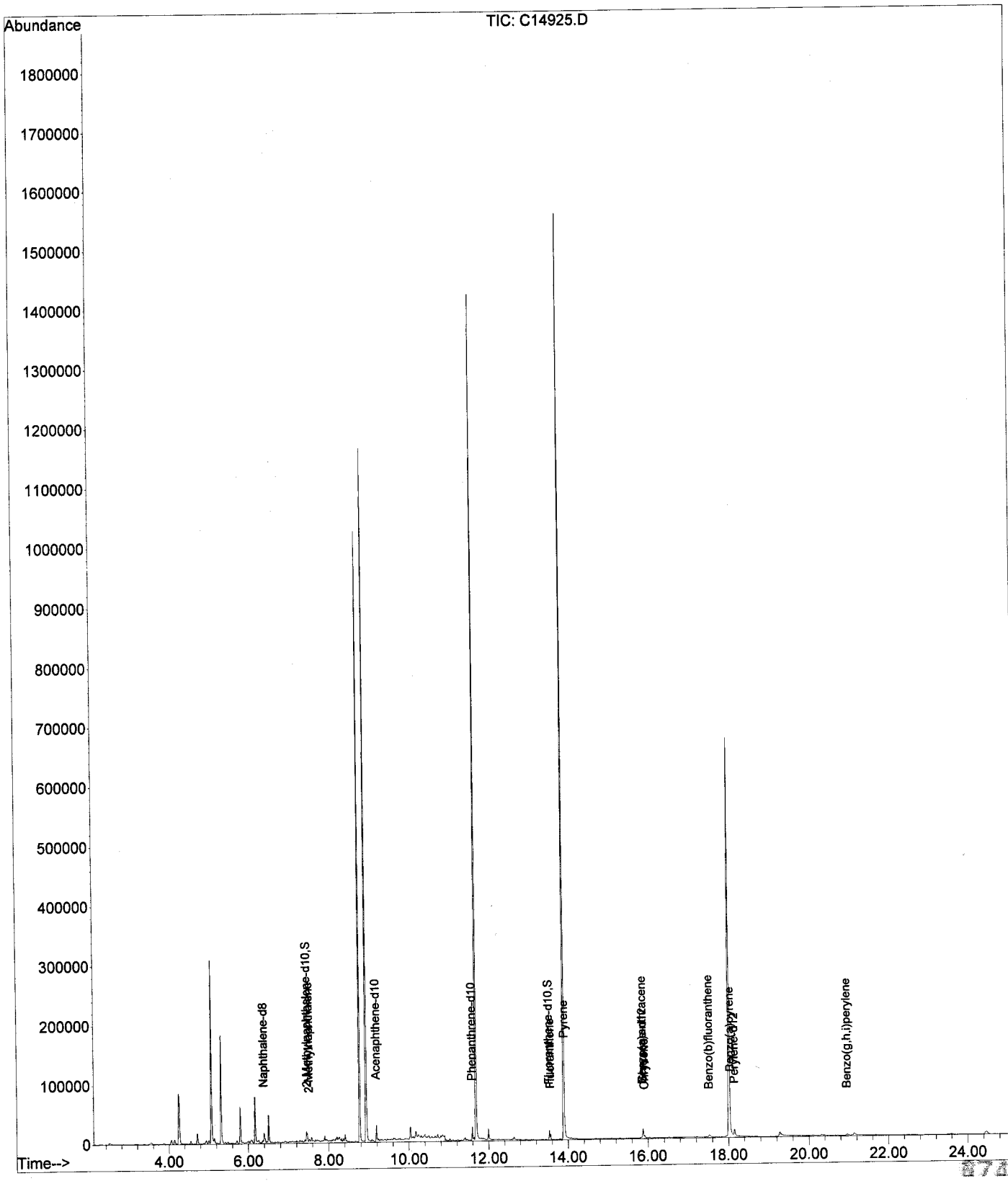
5739

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47
Sample : F4XQ5
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

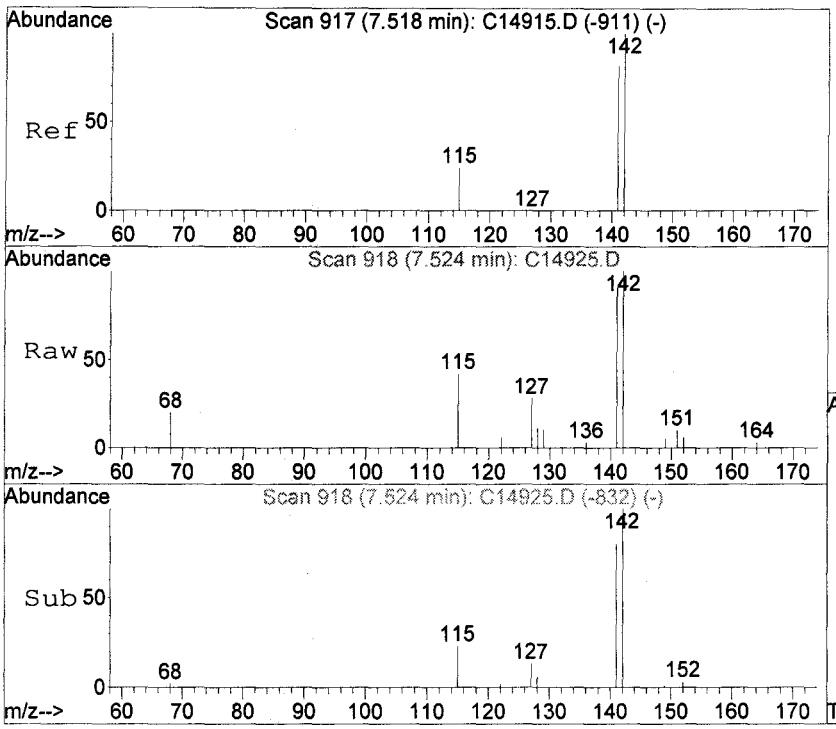
Operator: SK
Inst : C5975

Quant Time: Dec 19 09:56:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



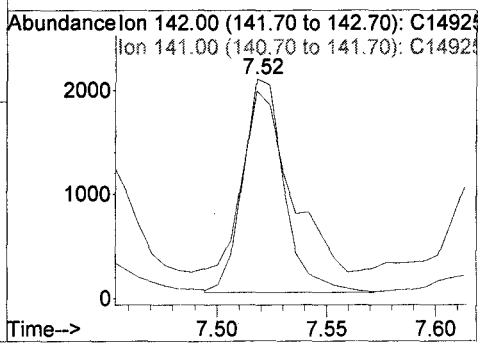
Data File : C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47
Sample : F4XQ5
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

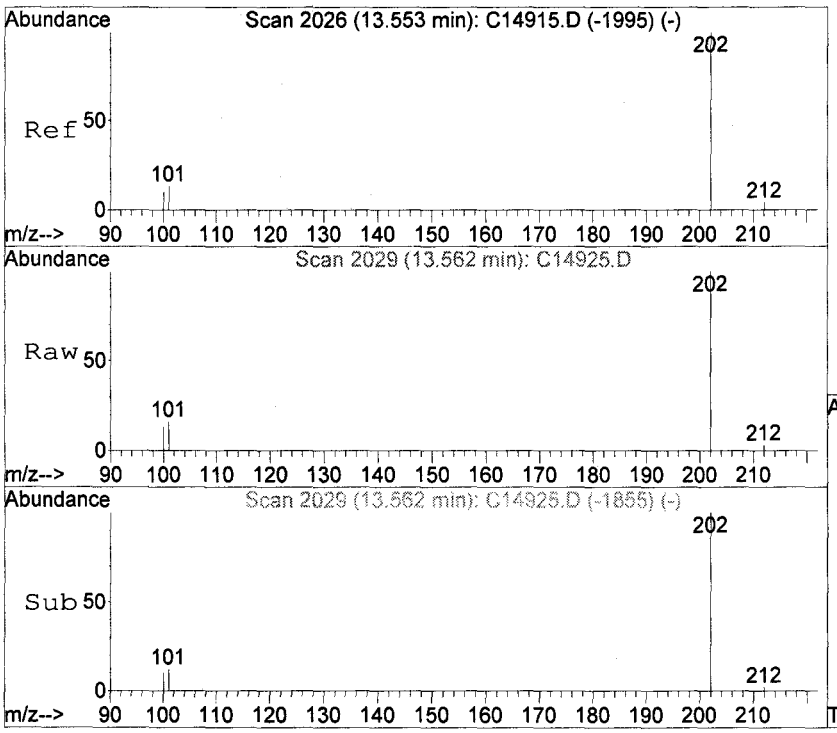
Vial: 12
Operator: SK
Inst : C5975
Multiplr: 1.00



#4
2-Methylnaphthalene
Concen: 0.10 ug/mL
RT: 7.52 min Scan# 918
Delta R.T. 0.01 min
Integration Range:
Scan=913 to 926
R.T.= 7.49 to 7.57 (min)
Tgt Ion:142 Resp: 26846

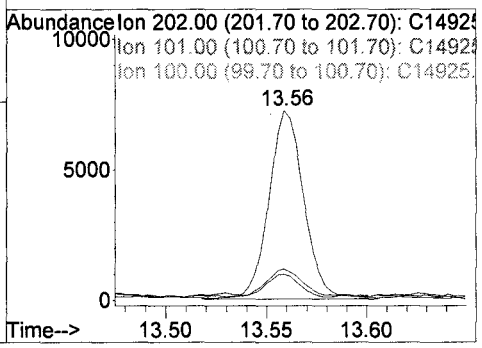
Ion	Ratio	Lower	Upper
142	100		
141	111.5	67.9	101.9#





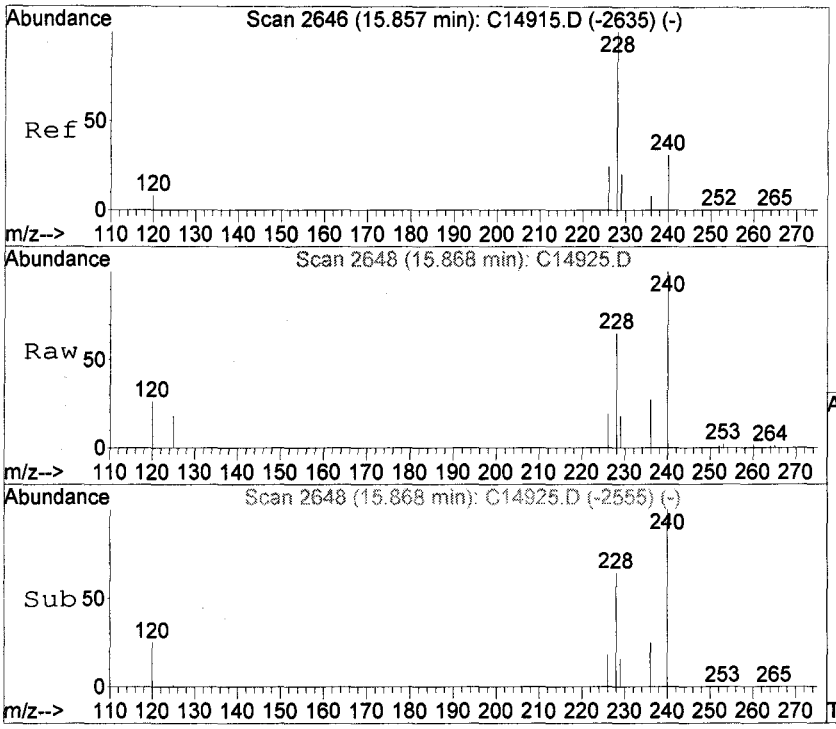
#14
Fluoranthene
Concen: 0.18 ug/mL
RT: 13.56 min Scan# 2029
Delta R.T. 0.01 min
Integration Range:
Scan=2014 to 2044
R.T.= 13.52 to 13.61 (min)
Tgt Ion:202 Resp: 88076

Ion	Ratio	Lower	Upper
202	100		
101	17.1	11.5	17.3
100	13.2	8.8	13.2



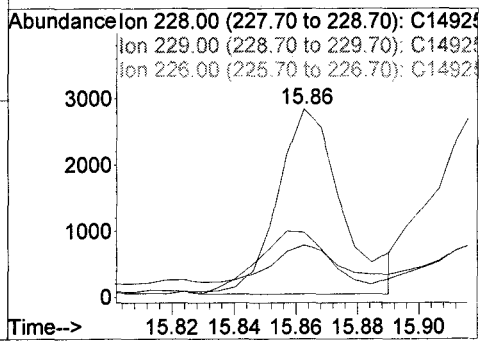
Data File : C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47
Sample : F4XQ5
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

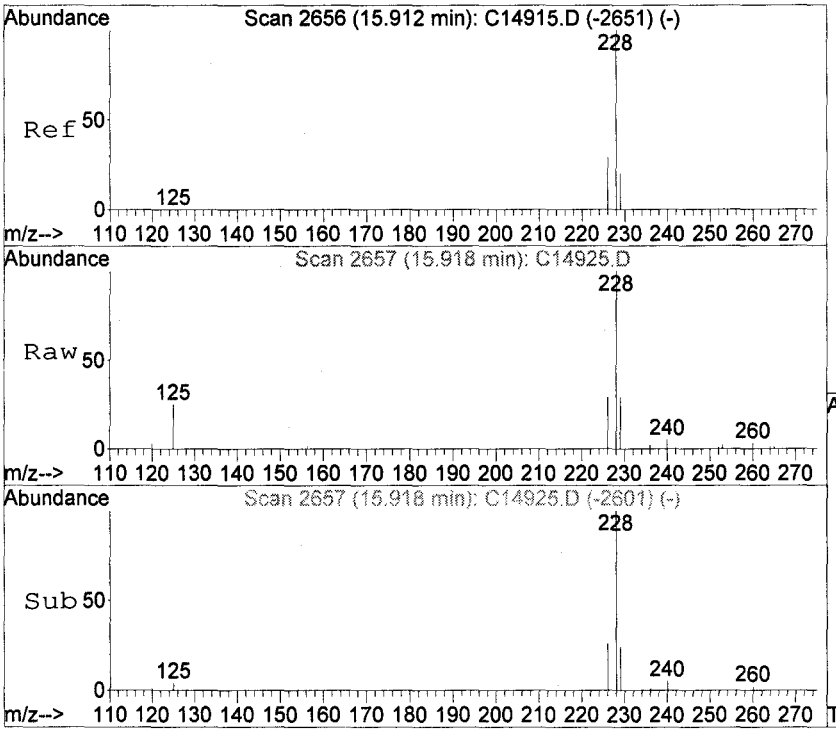
Vial: 12
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.10 ug/mL
RT: 15.87 min Scan# 2648
Delta R.T. 0.01 min
Integration Range:
Scan=2641 to 2652
R.T.= 15.83 to 15.89 (min)
Tgt Ion:228 Resp: 38052

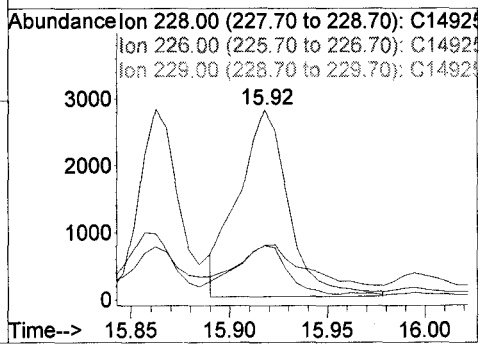
Ion	Ratio	Lower	Upper
228	100		
229	33.0	15.8	23.8#
226	44.3	20.5	30.7#





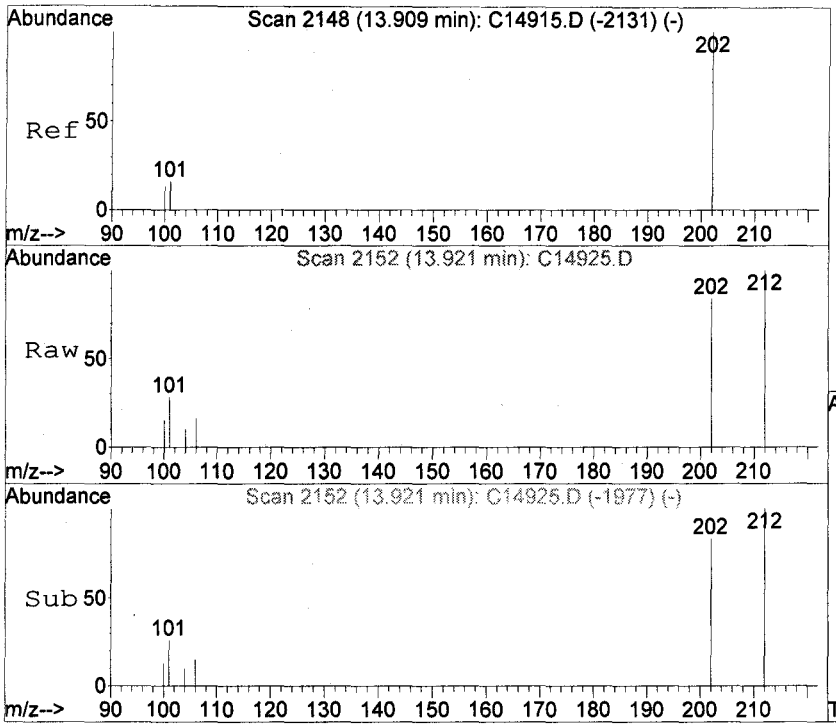
#17
Chrysene
Concen: 0.14 ug/mL
RT: 15.92 min Scan# 2657
Delta R.T. 0.01 min
Integration Range:
Scan=2652 to 2668
R.T.= 15.89 to 15.98 (min)
Tgt Ion:228 Resp: 52398

Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.8	34.2
229	36.1	15.9	23.9#



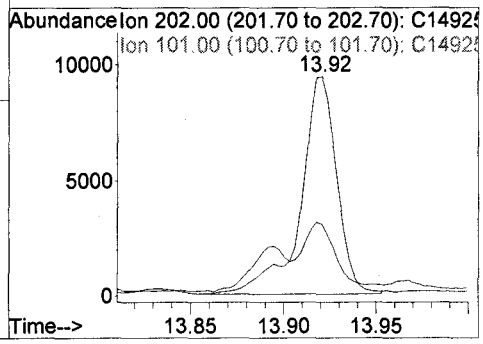
Data File : C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47
Sample : F4XQ5
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

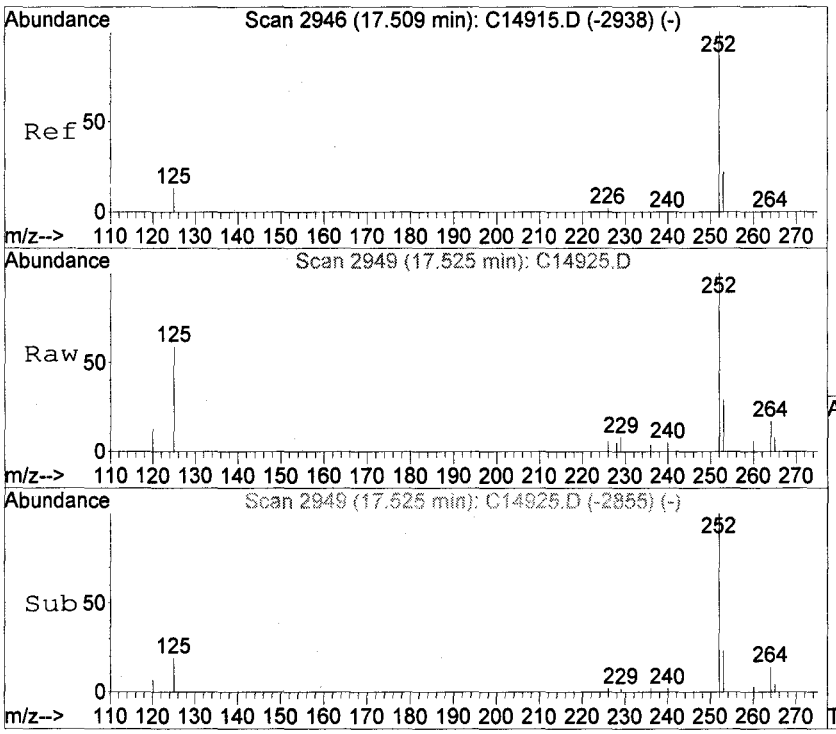
Vial: 12
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.23 ug/mL
RT: 13.92 min Scan# 2152
Delta R.T. 0.01 min
Integration Range:
Scan=2131 to 2163
R.T.= 13.86 to 13.95 (min)
Tgt Ion:202 Resp: 128362

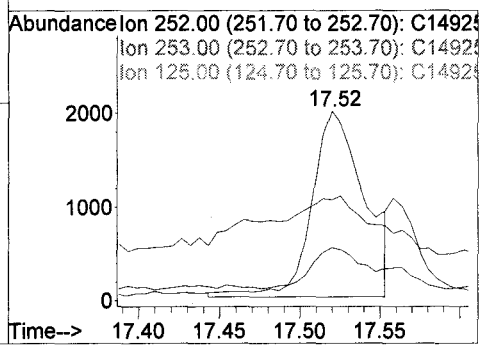
Ion	Ratio	Lower	Upper
202	100		
101	32.0	13.2	19.8#





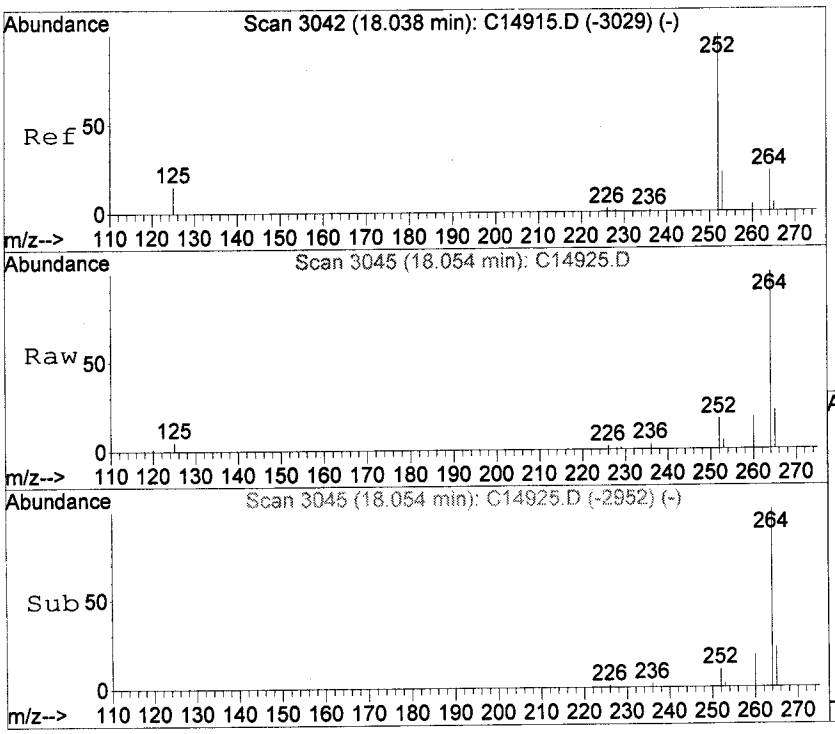
#20
Benzo(b)fluoranthene
Concen: 0.10 ug/mL
RT: 17.52 min Scan# 2949
Delta R.T. 0.01 min
Integration Range:
Scan=2934 to 2954
R.T.= 17.44 to 17.55 (min)
Tgt Ion:252 Resp: 41579

Ion	Ratio	Lower	Upper
252	100		
253	26.7	17.5	26.3#
125	54.5	12.3	18.5#



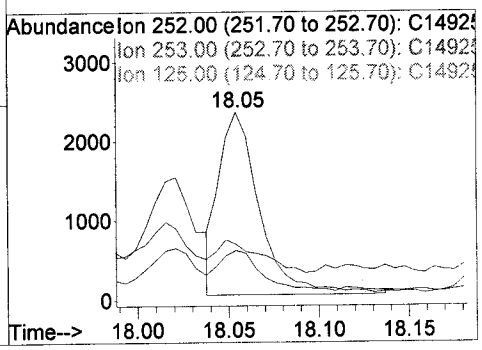
Data File : C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47
Sample : F4XQ5
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

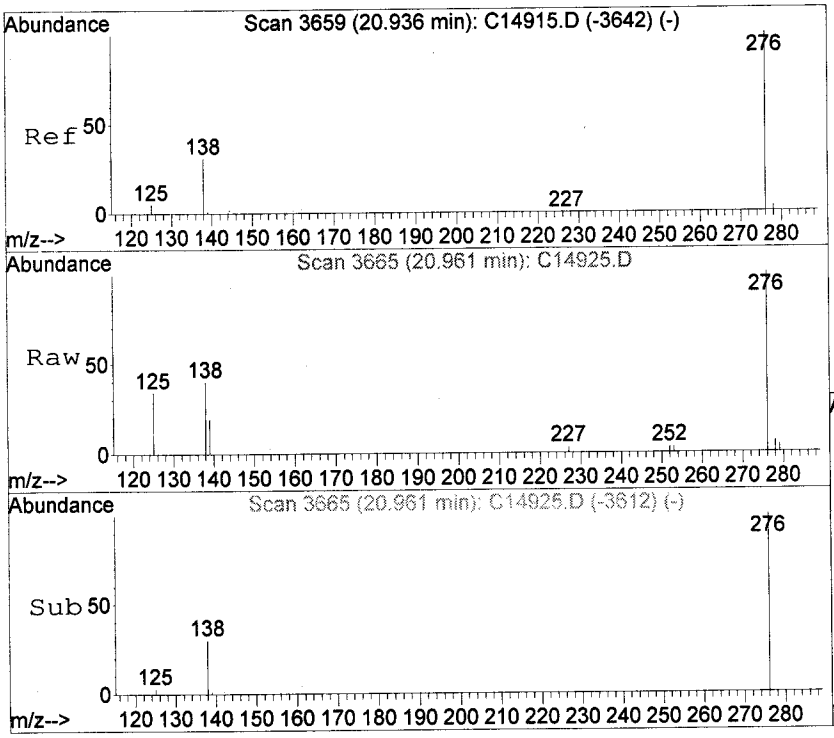
Vial: 12
Operator: SK
Inst : C5975
Multiplr: 1.00



#22
Benzo(a)pyrene
Concen: 0.09 ug/mL
RT: 18.06 min Scan# 3045
Delta R.T. 0.02 min
Integration Range:
Scan=3042 to 3060
R.T.= 18.04 to 18.14 (min)
Tgt Ion:252 Resp: 38707

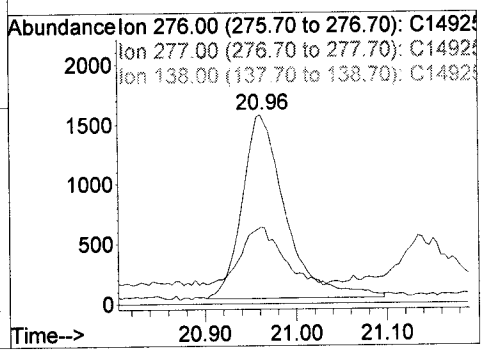
Ion	Ratio	Lower	Upper
252	100		
253	36.7	17.1	25.7#
125	21.1	13.1	19.7#





#25
Benzo(g,h,i)perylene
Concen: 0.14 ug/mL
RT: 20.96 min Scan# 3665
Delta R.T. 0.02 min
Integration Range:
Scan=3651 to 3697
R.T.= 20.90 to 21.10 (min)
Tgt Ion:276 Resp: 50458

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	28.4	26.2	39.2

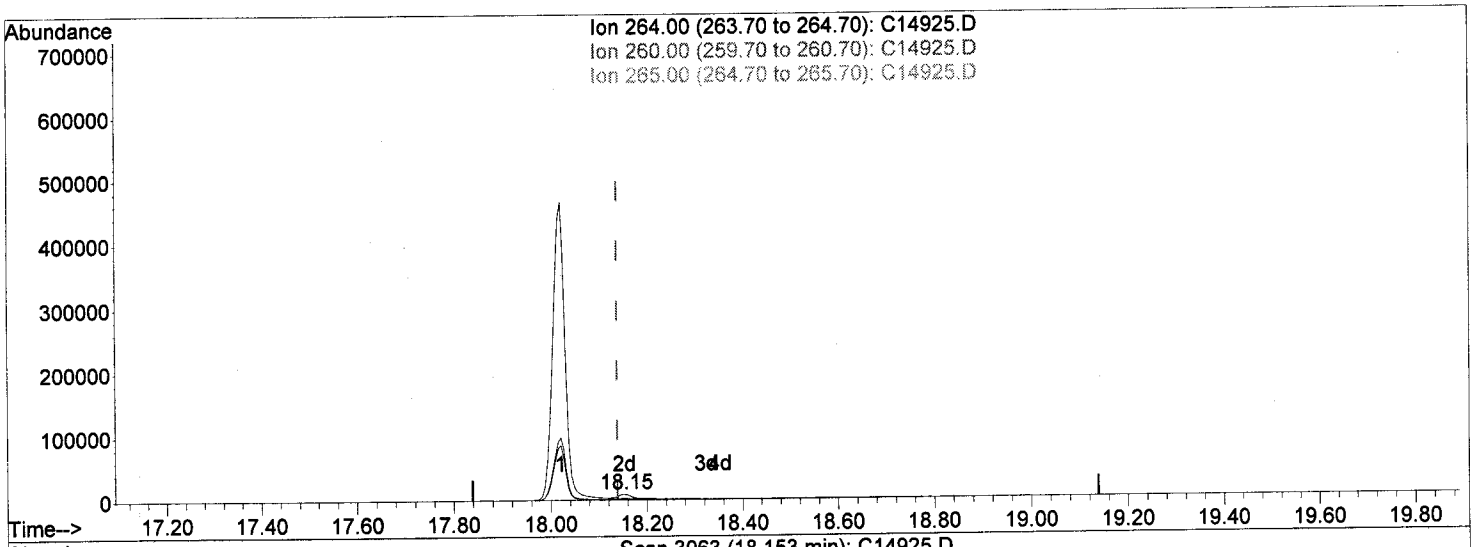


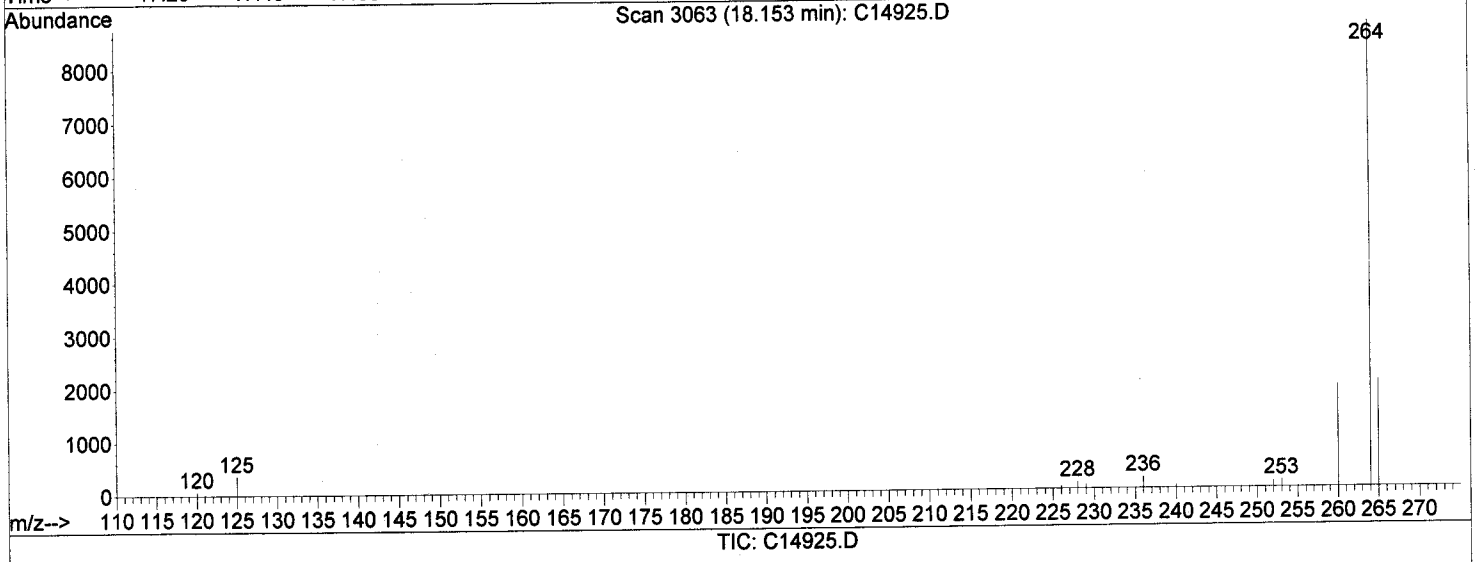
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14925.D
Acq On : 12/15/11 15:47 Operator: SK
Sample : F4XQ5 Inst : C5975
Misc : S-4460.08 60.9G/0.5ML INJ VOL: 1UL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 19 09:56:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

12/19/11





TIC: C14925.D

(19) Perylene-d12

18.153min (+0.014) 0.4000ug/mL m

response 145552

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1047.13#
265.00	21.10	1199.47#
0.00	0.00	0.00

0745

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04

Sample wt/vol: 60.60 (g/mL) G Lab File ID: C14932

Extraction: (Type) SONC

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.7	
91-57-6	2-Methylnaphthalene	3.8	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	4.3	
86-73-7	Fluorene	4.4	
87-86-5	Pentachlorophenol	5.3	U
85-01-8	Phenanthrene	16	
120-12-7	Anthracene	11	
206-44-0	Fluoranthene	37	E
129-00-0	Pyrene	51	E
56-55-3	Benzo(a)anthracene	21	
218-01-9	Chrysene	30	E
205-99-2	Benzo(b)fluoranthene	20	
207-08-9	Benzo(k)fluoranthene	5.8	
50-32-8	Benzo(a)pyrene	17	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenzo(a,h)anthracene	5.3	
191-24-2	Benzo(g,h,i)perylene	14	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17 Operator: SK
Sample : F4XQ6 Inst : C5975
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 10:21:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	186327	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	140279	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	246041	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	142475	0.4000	ug/mL	0.00
19) Perylene-d12	18.16	264	141193m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	99836	0.3469	ug/mL	0.00
Spiked Amount 0.400			Recovery = 86.72%			
13) Fluoranthene-d10	13.53	212	209155	0.3860	ug/mL	0.00
Spiked Amount 0.400			Recovery = 96.50%			
Target Compounds						Qvalue
2) Naphthalene	6.43	128	49624	0.1029	ug/mL#	90
4) 2-Methylnaphthalene	7.52	142	42207	0.1439	ug/mL	90
6) Acenaphthylene	8.96	152	239461	0.4179	ug/mL#	92
7) Acenaphthene	9.24	154	55248	0.1646	ug/mL	92
8) Fluorene	10.08	166	66247	0.1671	ug/mL#	81
11) Phenanthrene	11.63	178	343696	0.6138	ug/mL	95
12) Anthracene	11.71	178	237521	0.4190	ug/mL#	57
14) Fluoranthene	13.56	202	762954	1.4267	ug/mL	100
16) Benzo(a)anthracene	15.87	228	321470	0.8055	ug/mL#	69
17) Chrysene	15.92	228	473113	1.1461	ug/mL#	67
18) Pyrene	13.92	202	1178102	1.9397	ug/mL#	89
20) Benzo(b)fluoranthene	17.53	252	291223	0.7552	ug/mL	95
21) Benzo(k)fluoranthene	17.57	252	100394	0.2212	ug/mL	96
22) Benzo(a)pyrene	18.06	252	262940	0.6575	ug/mL#	89
23) Dibenzo(a,h)anthracene	20.40	278	48460	0.2016	ug/mL#	73
24) Indeno(1,2,3-cd)pyrene	20.33	276	130944	0.4105	ug/mL#	97
25) Benzo(g,h,i)perylene	20.98	276	190332	0.5319	ug/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

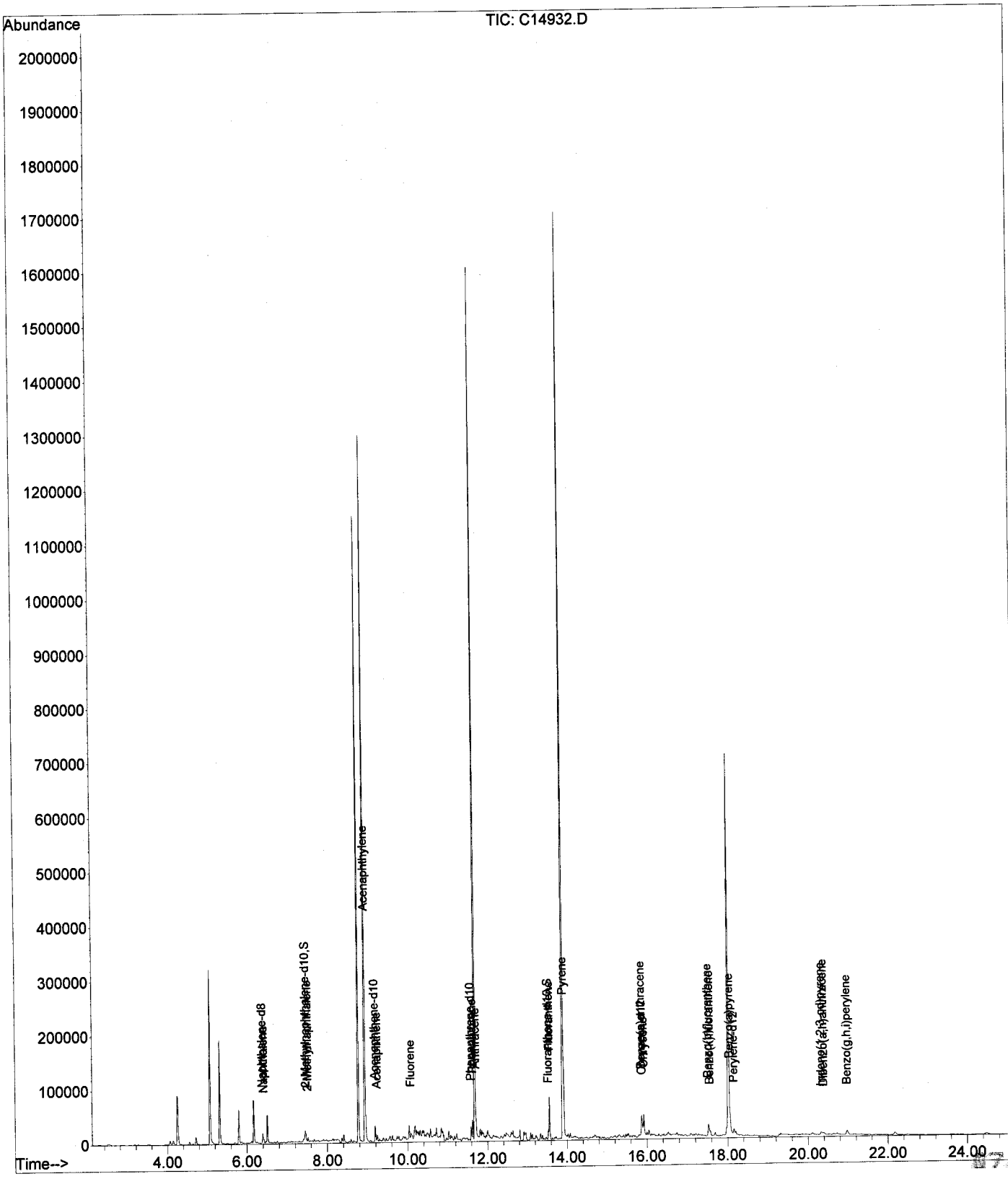
6747

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

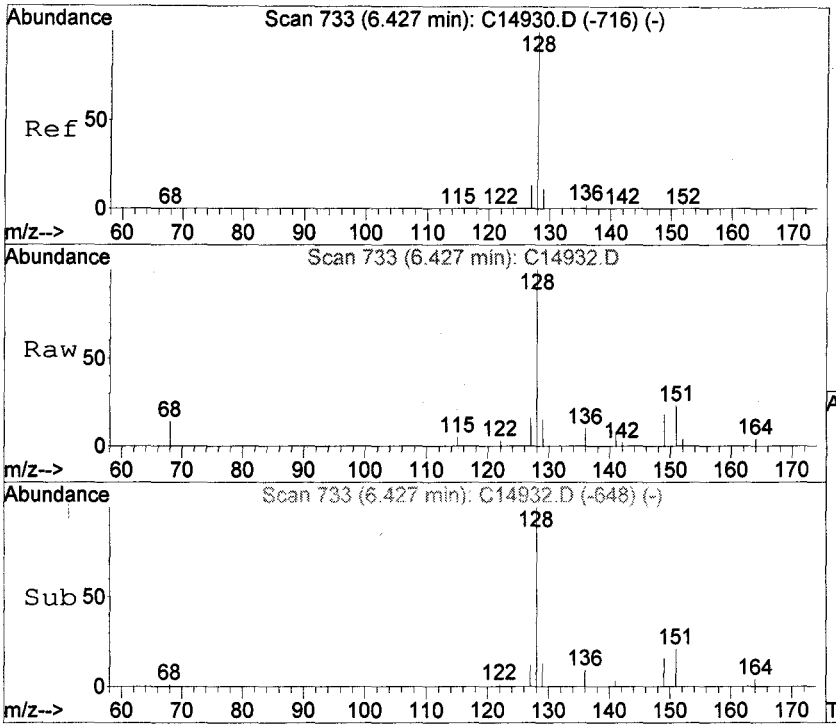
Operator: SK
Inst : C5975

Quant Time: Dec 20 10:21:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



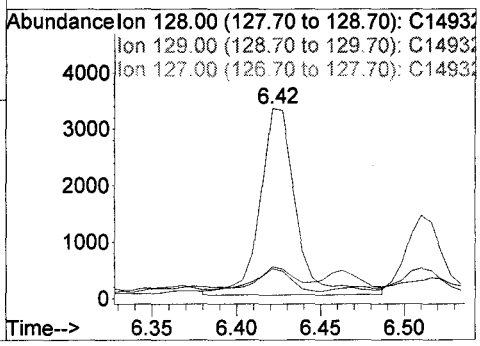
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

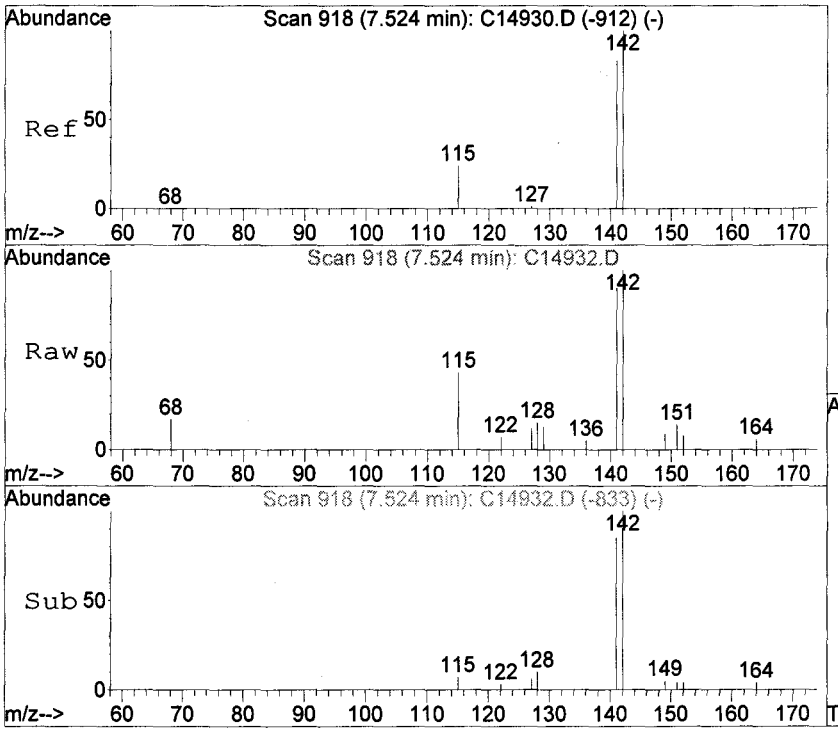
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.10 ug/mL
RT: 6.43 min Scan# 733
Delta R.T. 0.00 min
Integration Range:
Scan=725 to 743
R.T.= 6.38 to 6.49 (min)
Tgt Ion:128 Resp: 49624

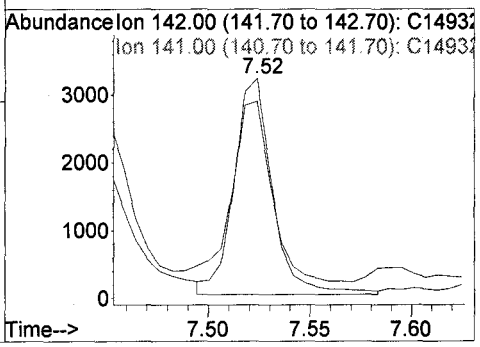
Ion	Ratio	Lower	Upper
128	100		
129	17.3	8.8	13.2#
127	15.5	10.7	16.1





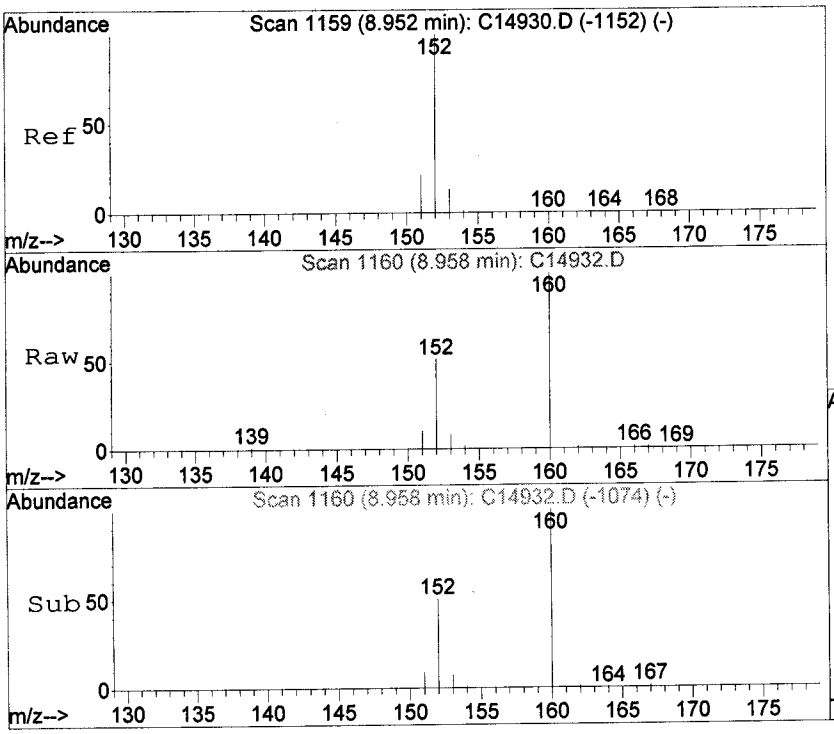
#4
2-Methylnaphthalene
Concen: 0.14 ug/mL
RT: 7.52 min Scan# 918
Delta R.T. 0.00 min
Integration Range:
Scan=913 to 928
R.T.= 7.49 to 7.58 (min)
Tgt Ion:142 Resp: 42207

Ion	Ratio	Lower	Upper
142	100		
141	94.4	67.9	101.9



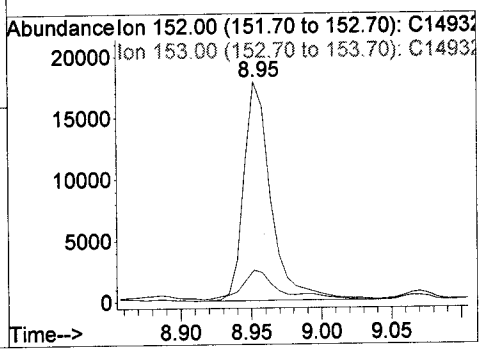
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

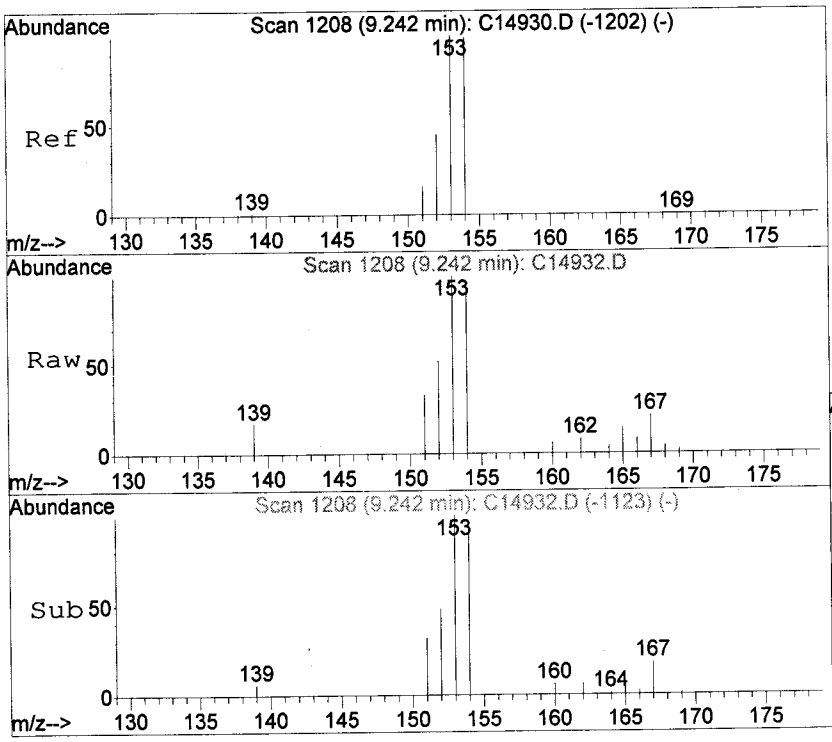
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.42 ug/mL
RT: 8.96 min Scan# 1160
Delta R.T. 0.00 min
Integration Range:
Scan=1153 to 1174
R.T.= 8.92 to 9.04 (min)
Tgt Ion:152 Resp: 239461

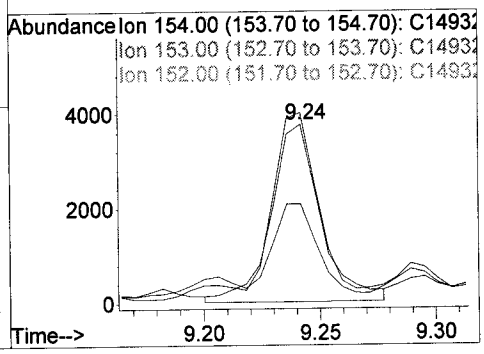
Ion	Ratio	Lower	Upper
152	100		
153	16.4	10.5	15.7#





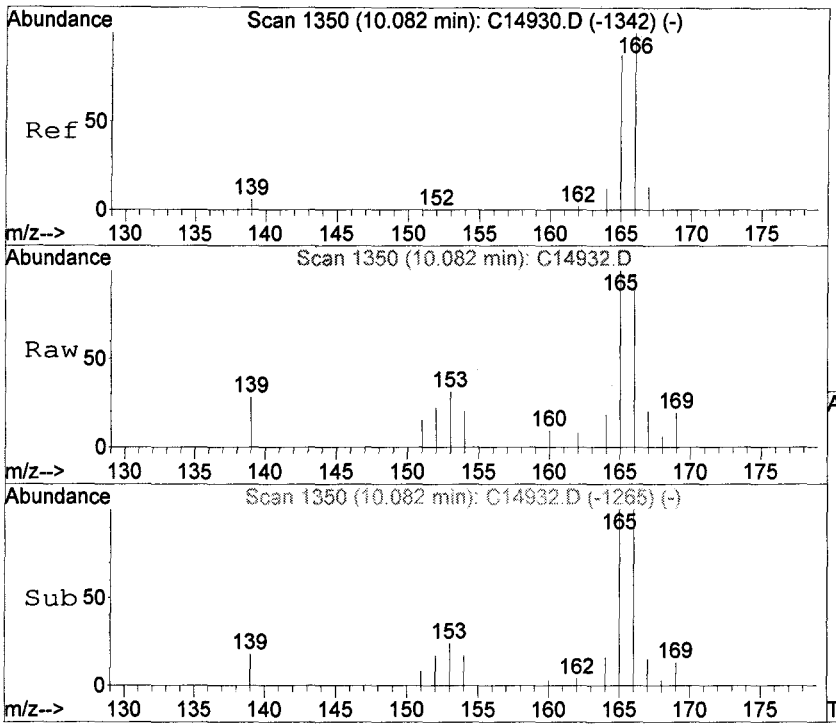
#7
Acenaphthene
Concen: 0.16 ug/mL
RT: 9.24 min Scan# 1208
Delta R.T. 0.00 min
Integration Range:
Scan=1201 to 1214
R.T.= 9.20 to 9.28 (min)
Tgt Ion:154 Resp: 55248

Ion	Ratio	Lower	Upper
154	100		
153	94.0	85.2	127.8
152	49.5	39.4	59.0



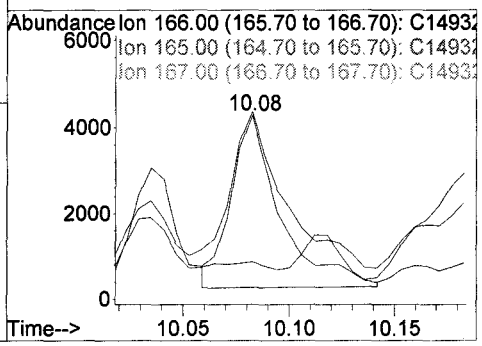
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

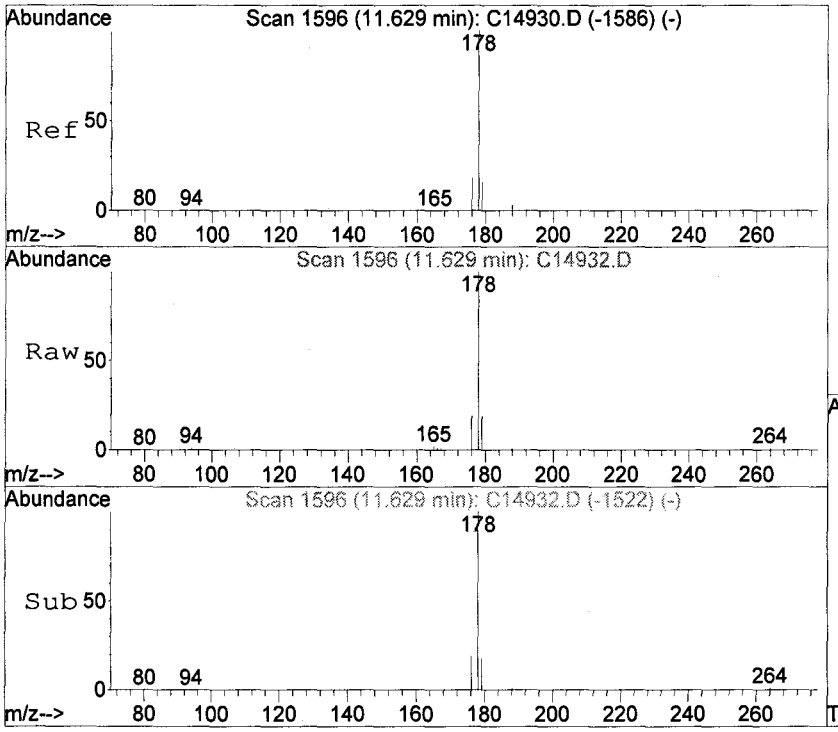
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#8
Fluorene
Concen: 0.17 ug/mL
RT: 10.08 min Scan# 1350
Delta R.T. 0.00 min
Integration Range:
Scan=1346 to 1360
R.T.= 10.06 to 10.14 (min)
Tgt Ion:166 Resp: 66247

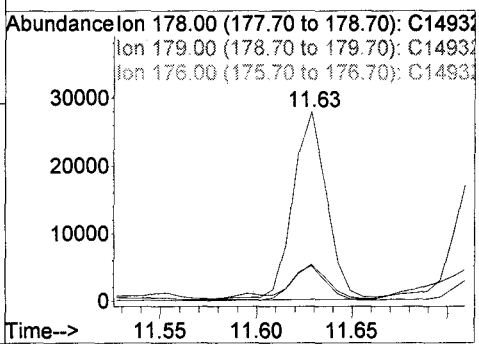
Ion	Ratio	Lower	Upper
166	100		
165	111.3	73.9	110.9#
167	18.1	10.7	16.1#





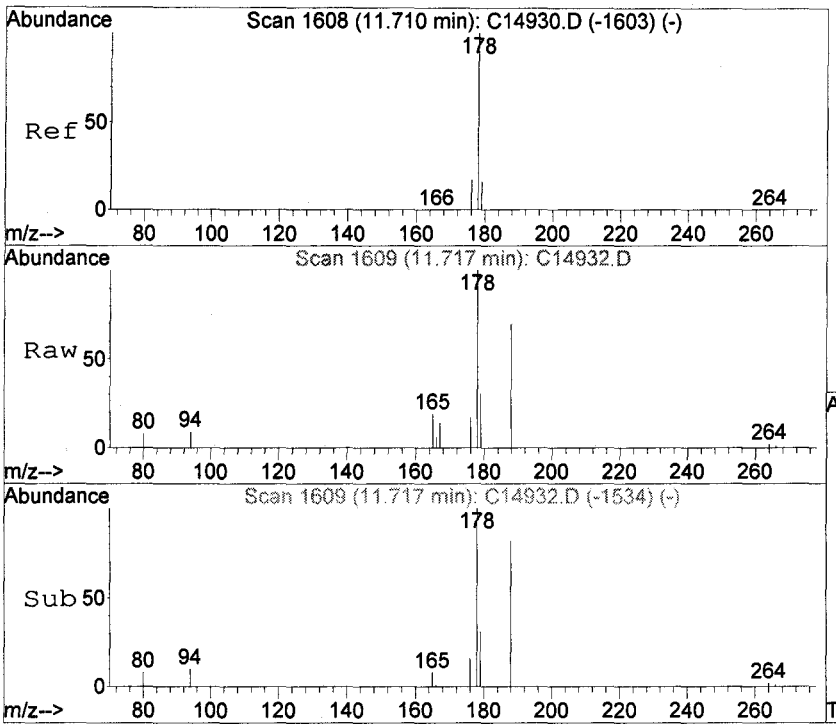
#11
Phenanthrene
Concen: 0.61 ug/mL
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Integration Range:
Scan=1588 to 1601
R.T.= 11.57 to 11.66 (min)
Tgt Ion:178 Resp: 343696

Ion	Ratio	Lower	Upper
178	100		
179	18.3	12.2	18.4
176	19.1	14.5	21.7



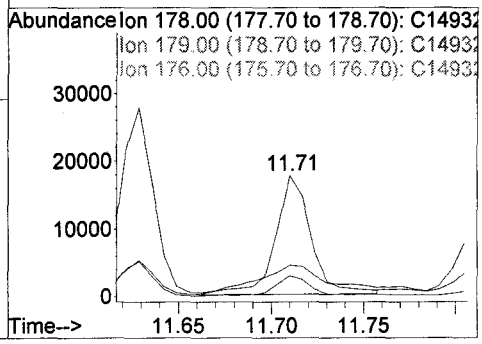
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

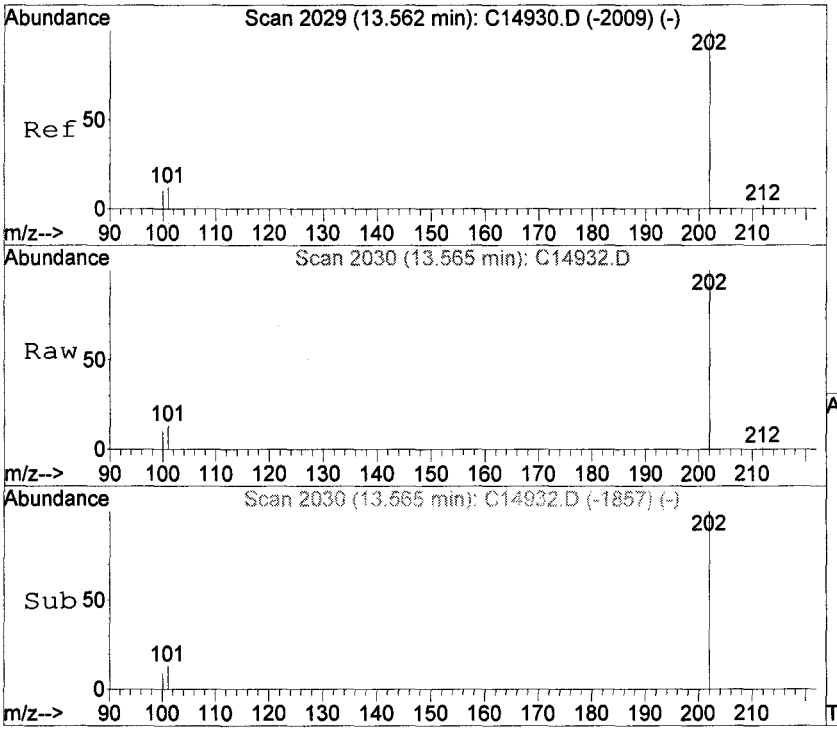
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.42 ug/mL
RT: 11.71 min Scan# 1609
Delta R.T. 0.00 min
Integration Range:
Scan=1601 to 1615
R.T.= 11.66 to 11.76 (min)
Tgt Ion:178 Resp: 237521

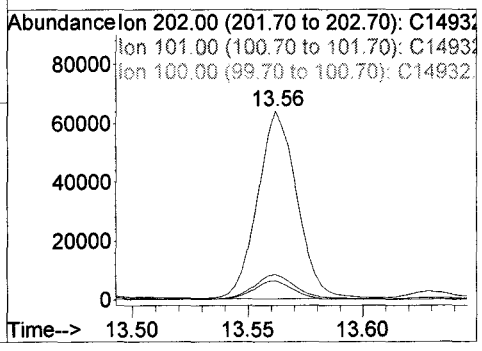
Ion	Ratio	Lower	Upper
178	100		
179	51.9	12.4	18.6#
176	18.9	13.8	20.8





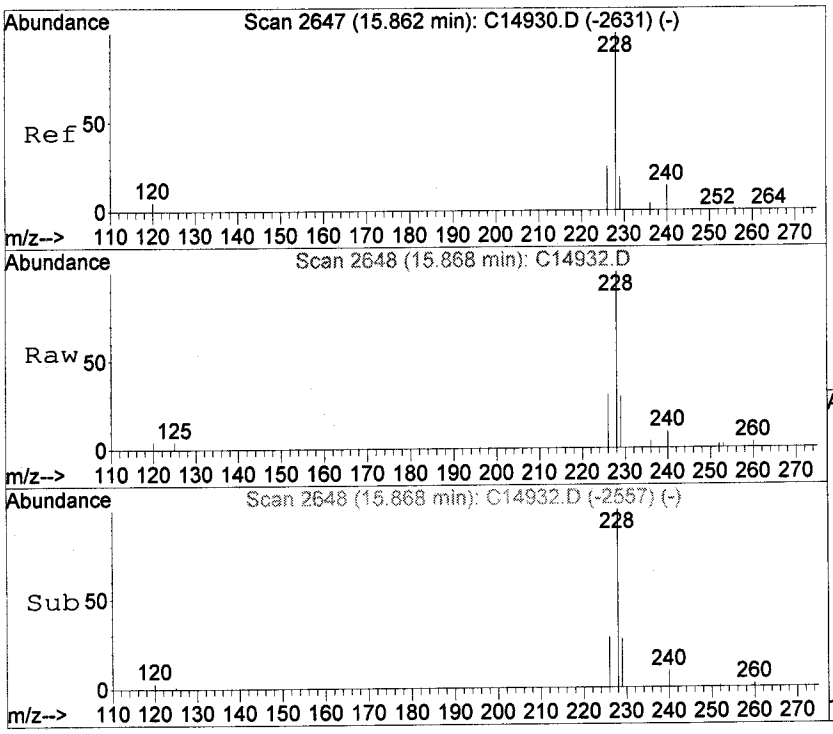
#14
Fluoranthene
Concen: 1.43 ug/mL
RT: 13.56 min Scan# 2030
Delta R.T. 0.00 min
Integration Range:
Scan=2018 to 2045
R.T.= 13.53 to 13.61 (min)
Tgt Ion:202 Resp: 762954

Ion	Ratio	Lower	Upper
202	100		
101	14.2	11.5	17.3
100	10.9	8.8	13.2



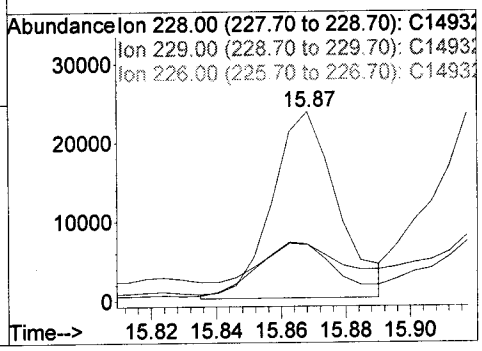
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

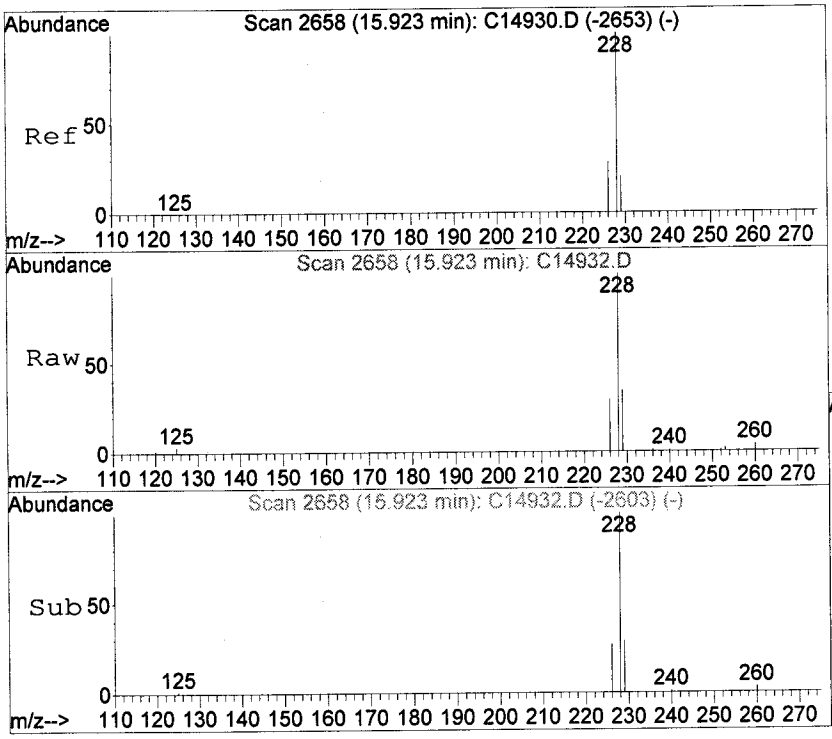
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.81 ug/mL
RT: 15.87 min Scan# 2648
Delta R.T. 0.00 min
Integration Range:
Scan=2642 to 2652
R.T.= 15.84 to 15.89 (min)
Tgt Ion:228 Resp: 321470

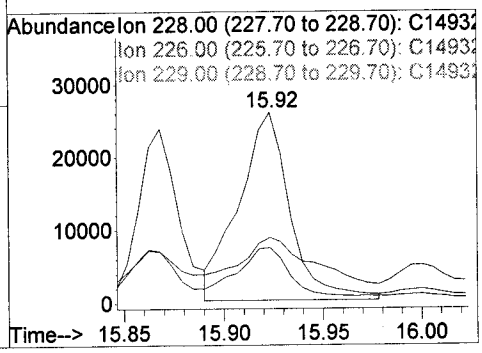
Ion	Ratio	Lower	Upper
228	100		
229	37.8	15.8	23.8#
226	37.9	20.5	30.7#





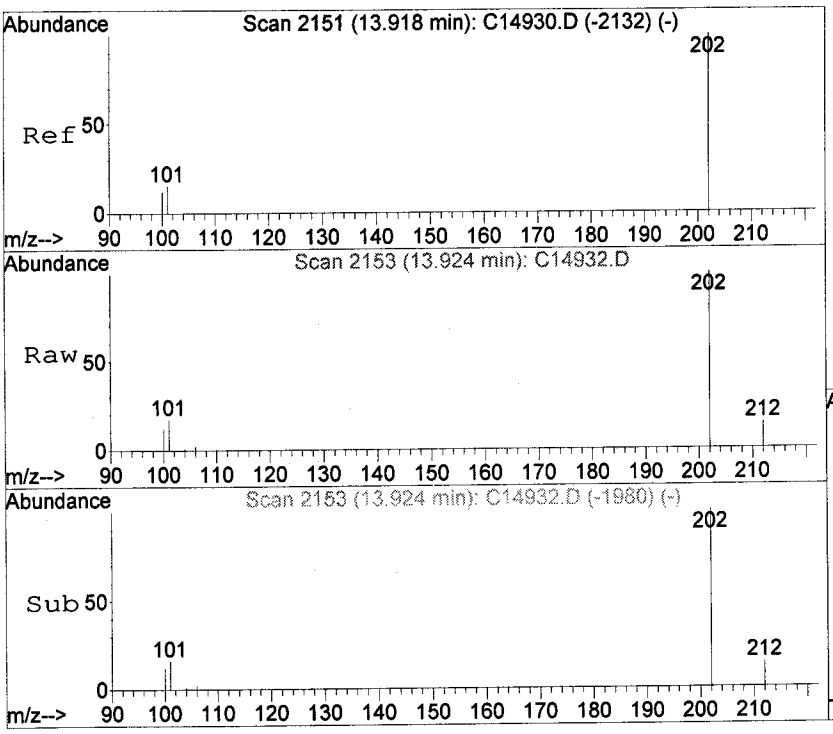
#17
Chrysene
Concen: 1.15 ug/mL
RT: 15.92 min Scan# 2658
Delta R.T. 0.00 min
Integration Range:
Scan=2652 to 2668
R.T.= 15.89 to 15.98 (min)
Tgt Ion:228 Resp: 473113

Ion	Ratio	Lower	Upper
228	100		
226	32.8	22.8	34.2
229	50.9	15.9	23.9#



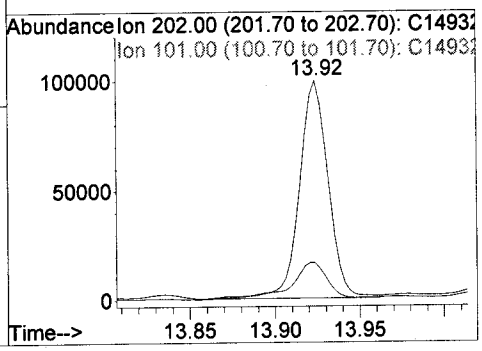
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

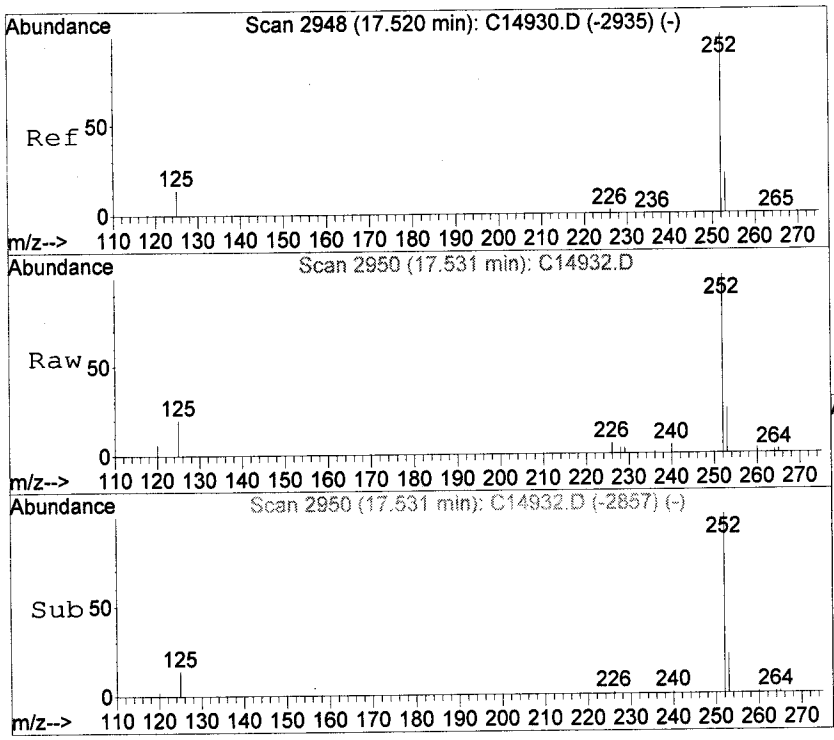
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 1.94 ug/mL
RT: 13.92 min Scan# 2153
Delta R.T. 0.01 min
Integration Range:
Scan=2131 to 2166
R.T.= 13.86 to 13.96 (min)
Tgt Ion:202 Resp: 1178102

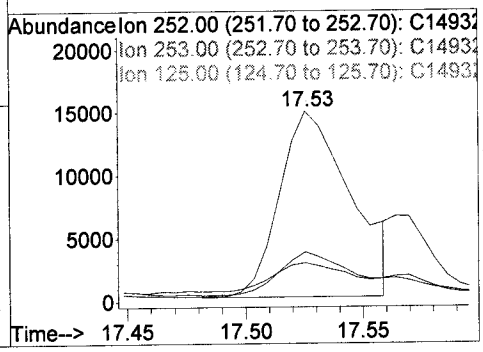
Ion	Ratio	Lower	Upper
202	100		
101	21.4	13.2	19.8#





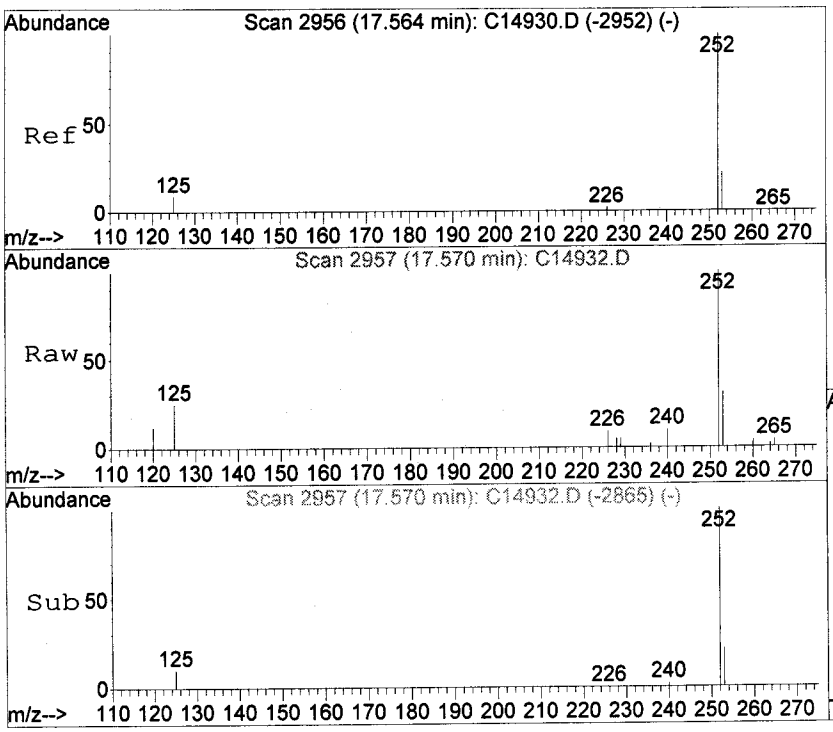
#20
Benzo(b)fluoranthene
Concen: 0.76 ug/mL
RT: 17.53 min Scan# 2950
Delta R.T. 0.01 min
Integration Range:
Scan=2941 to 2955
R.T.= 17.48 to 17.56 (min)
Tgt Ion:252 Resp: 291223

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	18.2	12.3	18.5



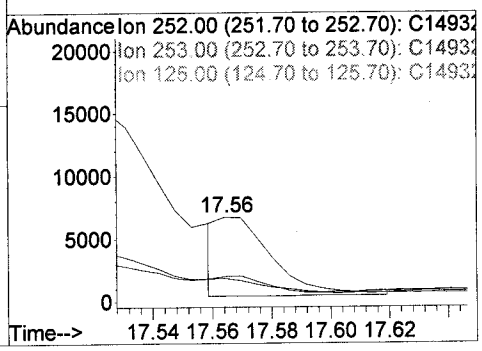
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

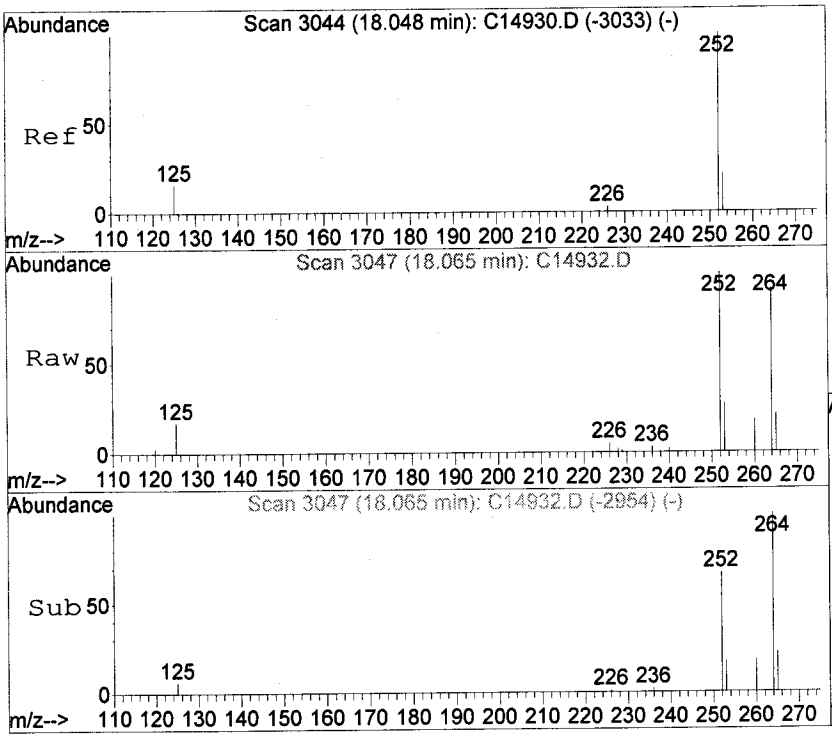
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.22 ug/mL
RT: 17.57 min Scan# 2957
Delta R.T. 0.01 min
Integration Range:
Scan=2955 to 2966
R.T.= 17.56 to 17.62 (min)
Tgt Ion:252 Resp: 100394

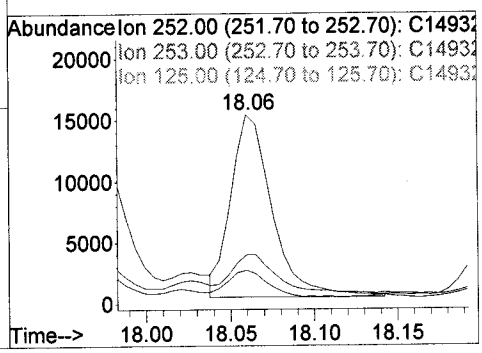
Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.7	26.5
125	18.1	12.4	18.6





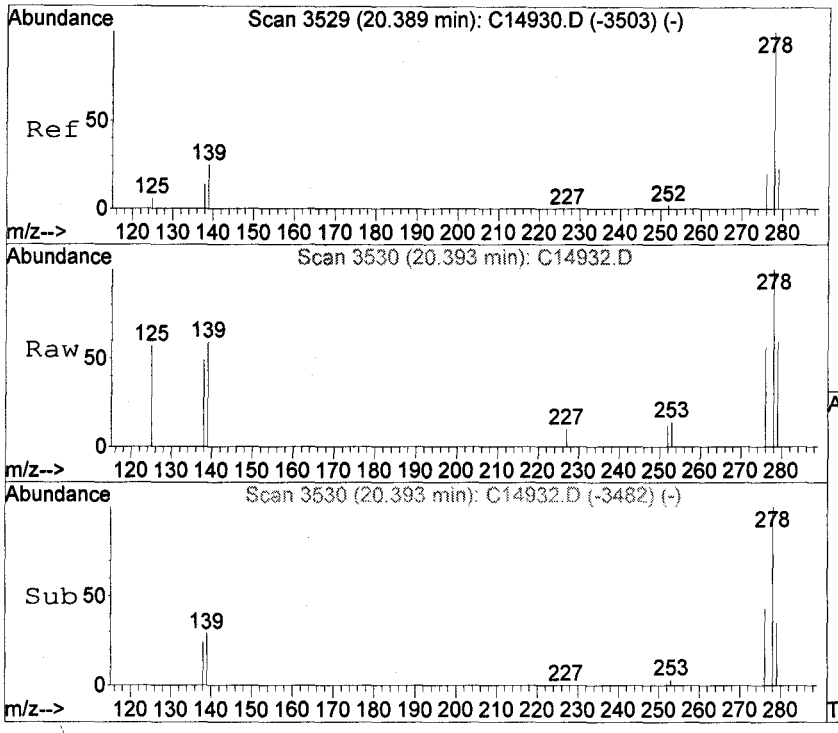
#22
Benzo(a)pyrene
Concen: 0.66 ug/mL
RT: 18.06 min Scan# 3047
Delta R.T. 0.01 min
Integration Range:
Scan=3042 to 3061
R.T.= 18.04 to 18.14 (min)
Tgt Ion:252 Resp: 262940

Ion	Ratio	Lower	Upper
252	100		
253	30.4	17.1	25.7#
125	16.8	13.1	19.7



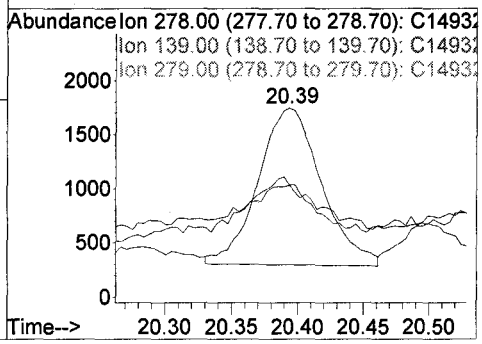
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

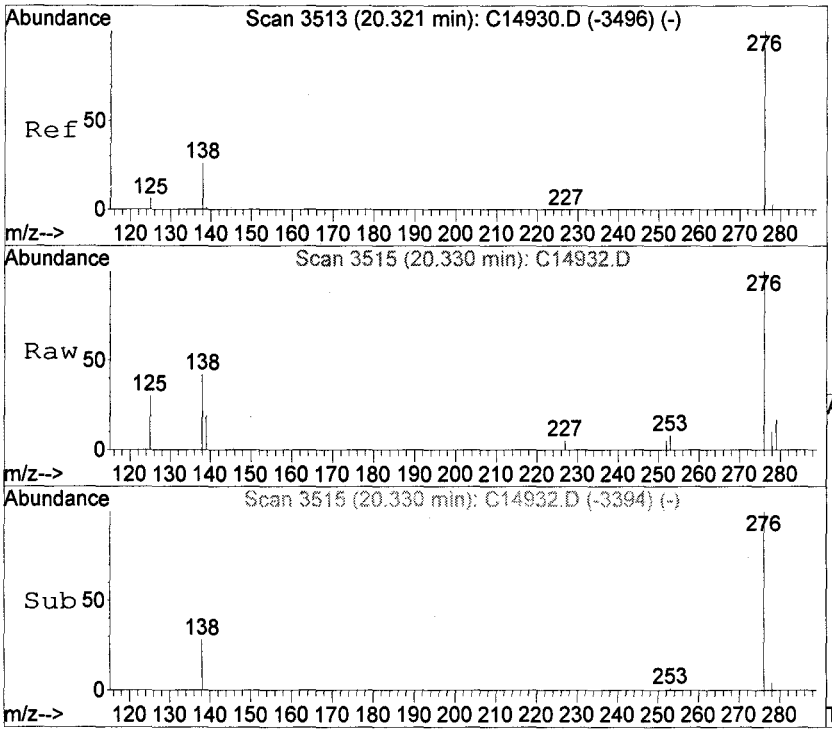
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.20 ug/mL
RT: 20.40 min Scan# 3530
Delta R.T. 0.01 min
Integration Range:
Scan=3515 to 3546
R.T.= 20.33 to 20.46 (min)
Tgt Ion:278 Resp: 48460

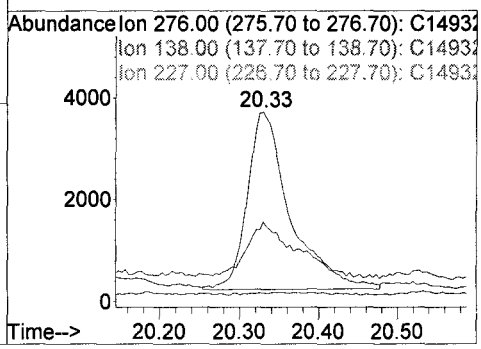
Ion	Ratio	Lower	Upper
278	100		
139	32.7	19.8	29.6#
279	41.9	18.4	27.6#





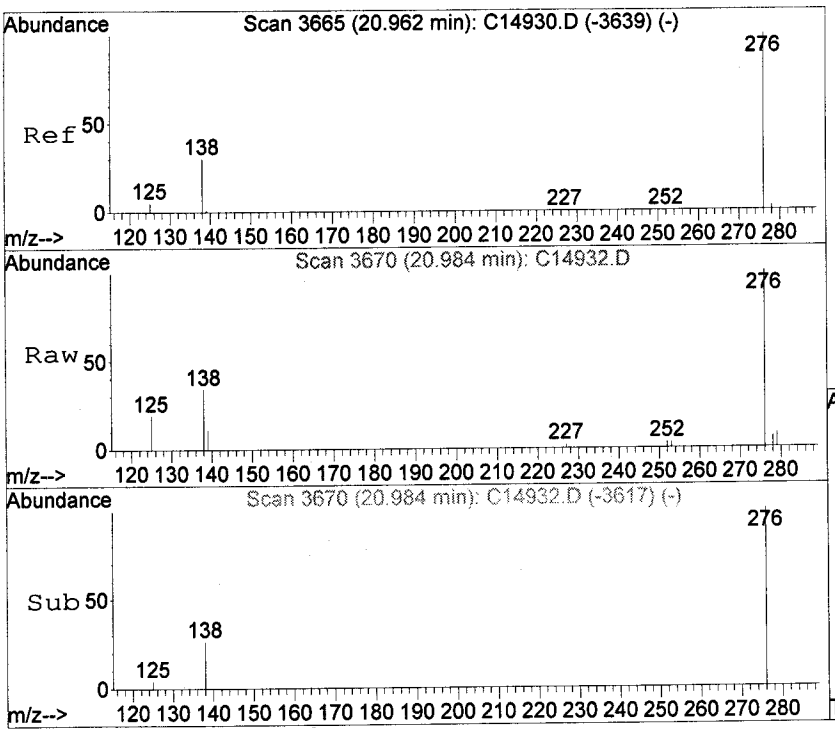
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.41 ug/mL
RT: 20.33 min Scan# 3515
Delta R.T. 0.01 min
Integration Range:
Scan=3497 to 3550
R.T.= 20.25 to 20.48 (min)
Tgt Ion:276 Resp: 130944

Ion	Ratio	Lower	Upper
276	100		
138	27.9	23.7	35.5
227	0.4	0.0	0.0#



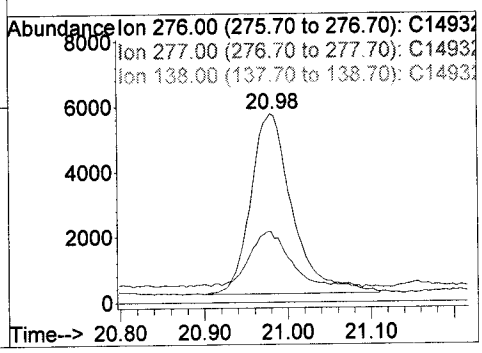
Data File : C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17
Sample : F4XQ6
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.53 ug/mL
RT: 20.98 min Scan# 3670
Delta R.T. 0.02 min
Integration Range:
Scan=3651 to 3700
R.T.= 20.90 to 21.11 (min)
Tgt Ion:276 Resp: 190332

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	29.2	26.2	39.2

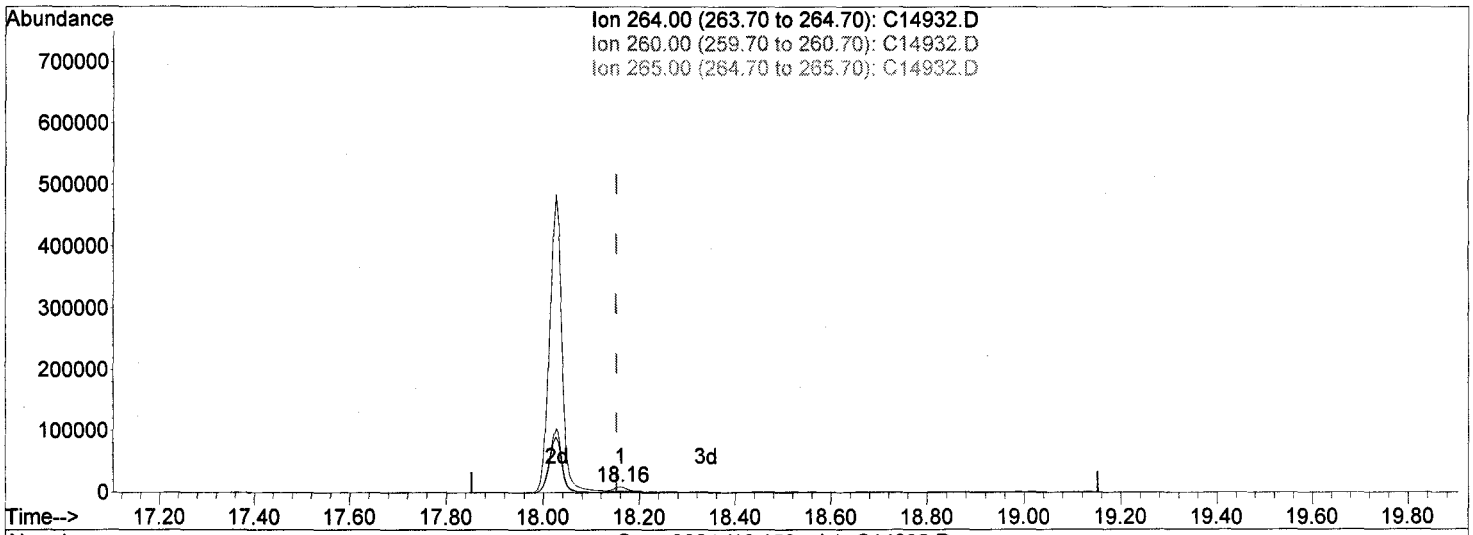


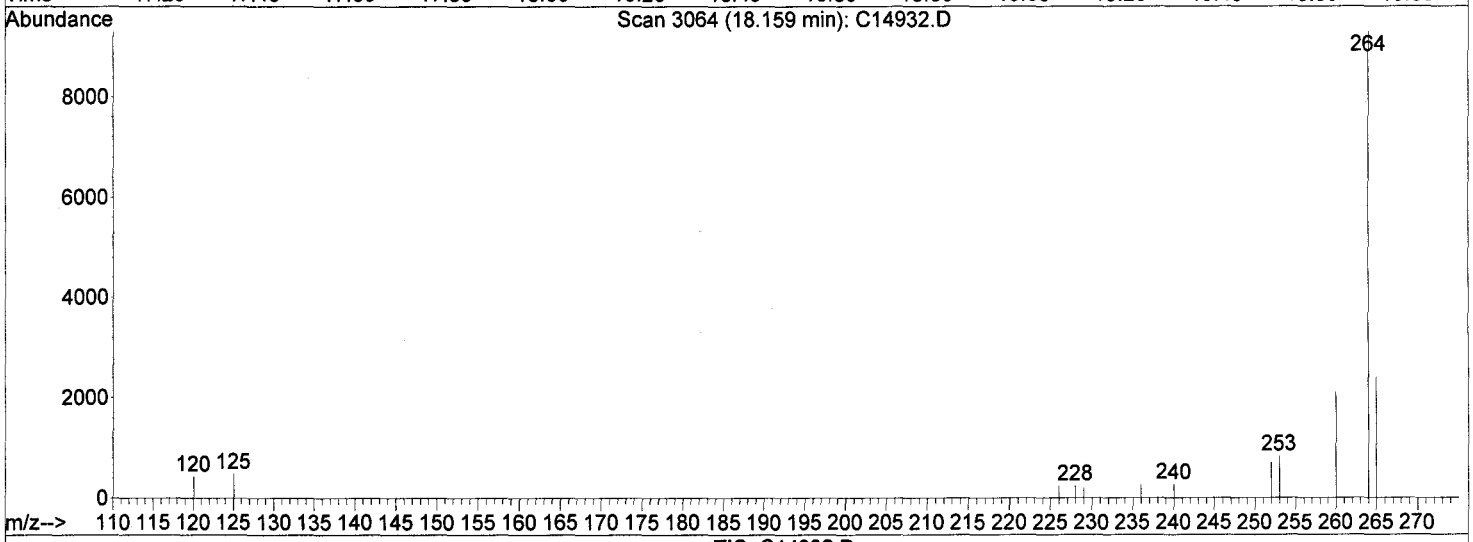
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14932.D
Acq On : 12/19/11 12:17 Operator: SK
Sample : F4XQ6 Inst : C5975
Misc : S-4465.04 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 10:21:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14932.D

(19) Perylene-d12

18.159min (+0.006) 0.4000ug/mL m

response 141193

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	37.92#
265.00	21.10	38.29#
0.00	0.00	0.00

0758

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ6DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04DL

Sample wt/vol: 60.60 (g/mL) G Lab File ID: C14948

Extraction: (Type) SONC

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/20/2011

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	U
91-57-6	2-Methylnaphthalene	13	U
208-96-8	Acenaphthylene	14	D
83-32-9	Acenaphthene	13	U
86-73-7	Fluorene	13	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	19	D
120-12-7	Anthracene	13	D
206-44-0	Fluoranthene	45	D
129-00-0	Pyrene	56	D
56-55-3	Benzo(a)anthracene	25	D
218-01-9	Chrysene	35	D
205-99-2	Benzo(b)fluoranthene	19	D
207-08-9	Benzo(k)fluoranthene	13	U
50-32-8	Benzo(a)pyrene	16	D
193-39-5	Indeno(1,2,3-cd)pyrene	13	U
53-70-3	Dibenzo(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	14	D

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43 Operator: SK
Sample : F4XQ6DL 5X Inst : C5975
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 13:43:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration

12/21/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	151292	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	101259	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	176067	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	107996	0.4000	ug/mL	0.00
19) Perylene-d12	18.17	264	134666	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	16692	0.0714	ug/mL	0.00
Spiked Amount 0.400			Recovery =	17.85%		
13) Fluoranthene-d10	13.54	212	34909	0.0900	ug/mL	0.00
Spiked Amount 0.400			Recovery =	22.50%		
Target Compounds						Qvalue
6) Acenaphthylene	8.96	152	45462	0.1099	ug/mL	95
11) Phenanthrene	11.63	178	57623	0.1438	ug/mL#	93
12) Anthracene	11.72	178	41211	0.1016	ug/mL#	66
14) Fluoranthene	13.57	202	131575	0.3438	ug/mL	100
16) Benzo(a)anthracene	15.87	228	56809	0.1878	ug/mL#	69
17) Chrysene	15.93	228	82947	0.2651	ug/mL#	67
18) Pyrene	13.93	202	198549	0.4313	ug/mL#	88
20) Benzo(b)fluoranthene	17.53	252	53052	0.1442	ug/mL#	83
22) Benzo(a)pyrene	18.07	252	47692	0.1250	ug/mL#	93
25) Benzo(g,h,i)perylene	20.99	276	35951	0.1053	ug/mL#	98

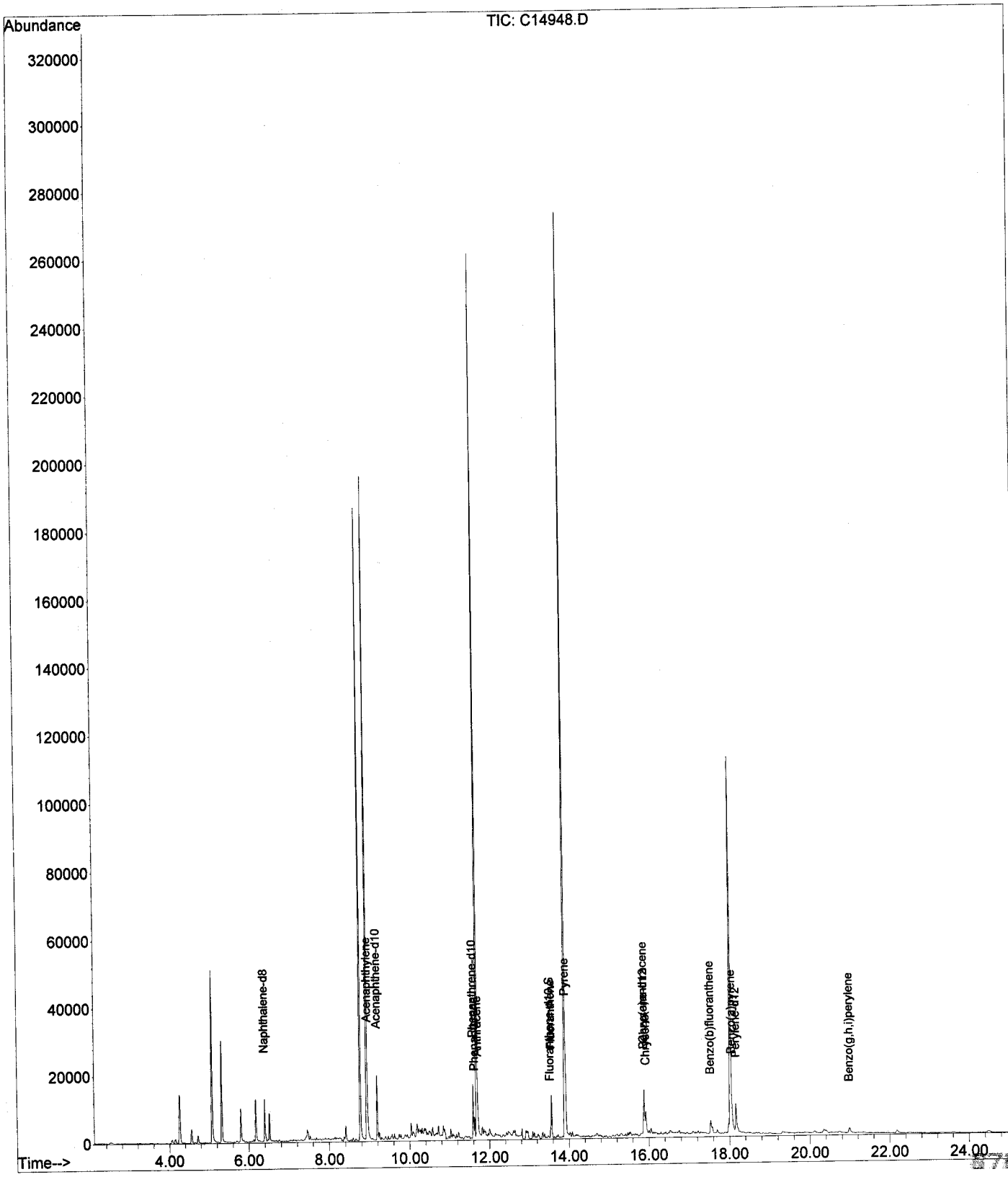
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43
Sample : F4XQ6DL 5X
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

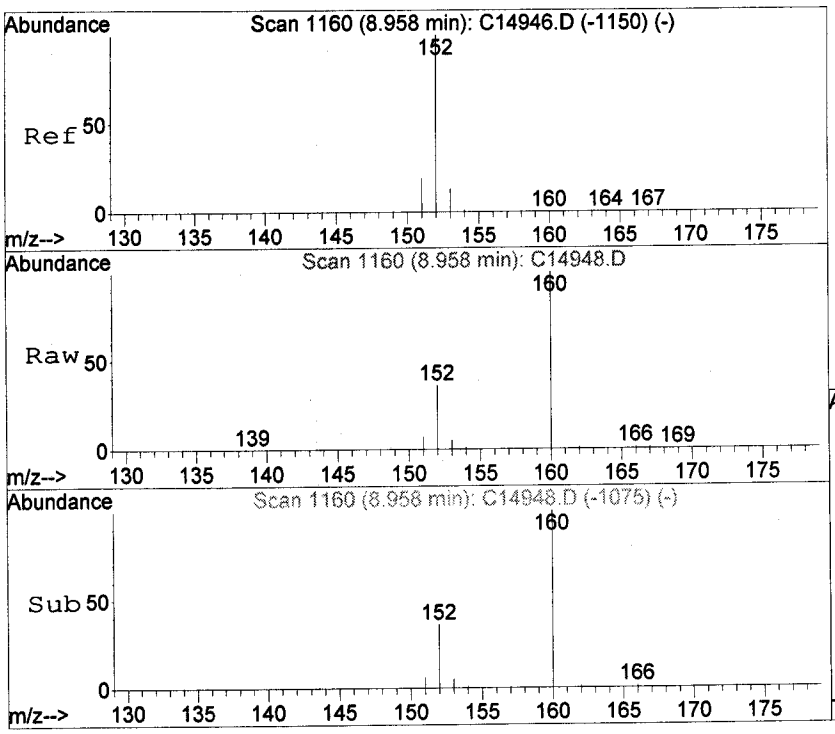
Operator: SK
Inst : C5975

Quant Time: Dec 21 13:43:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration



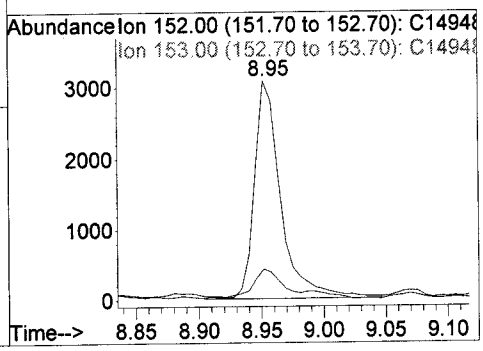
Data File : C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43
Sample : F4XQ6DL 5X
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

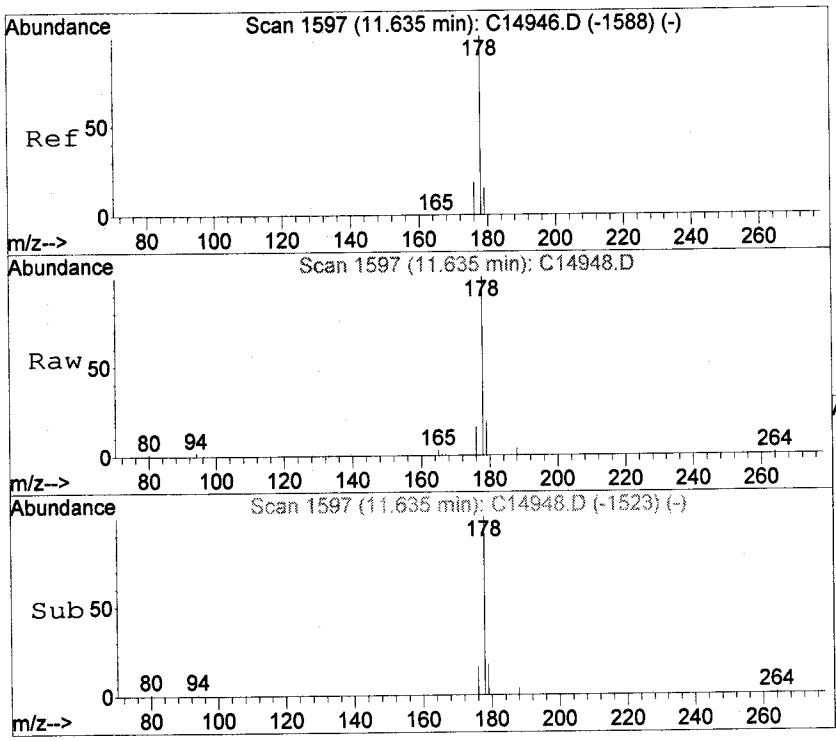
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.11 ug/mL
RT: 8.96 min Scan# 1160
Delta R.T. -0.00 min
Integration Range:
Scan=1151 to 1175
R.T.= 8.90 to 9.05 (min)
Tgt Ion:152 Resp: 45462

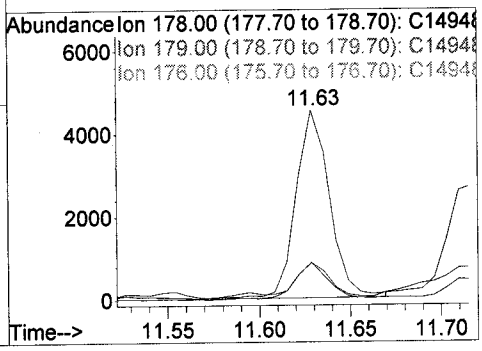
Ion	Ratio	Lower	Upper
152	100		
153	15.0	10.5	15.7





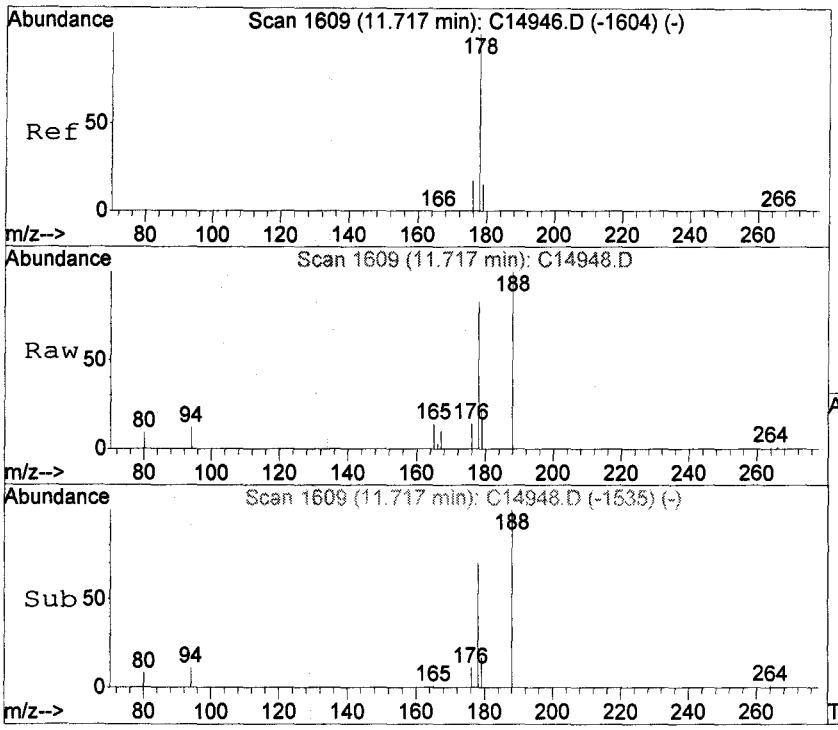
#11
Phenanthrene
Concen: 0.14 ug/mL
RT: 11.63 min Scan# 1597
Delta R.T. -0.00 min
Integration Range:
Scan=1587 to 1602
R.T.= 11.57 to 11.67 (min)
Tgt Ion:178 Resp: 57623

Ion	Ratio	Lower	Upper
178	100		
179	20.4	12.2	18.4#
176	19.3	14.5	21.7



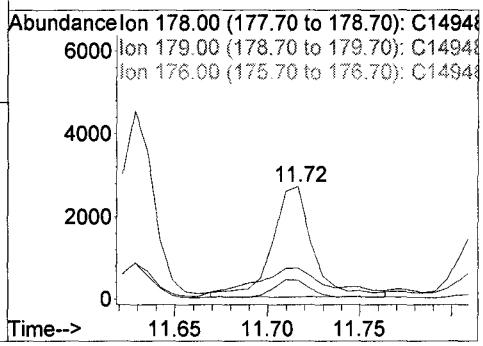
Data File : C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43
Sample : F4XQ6DL 5X
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

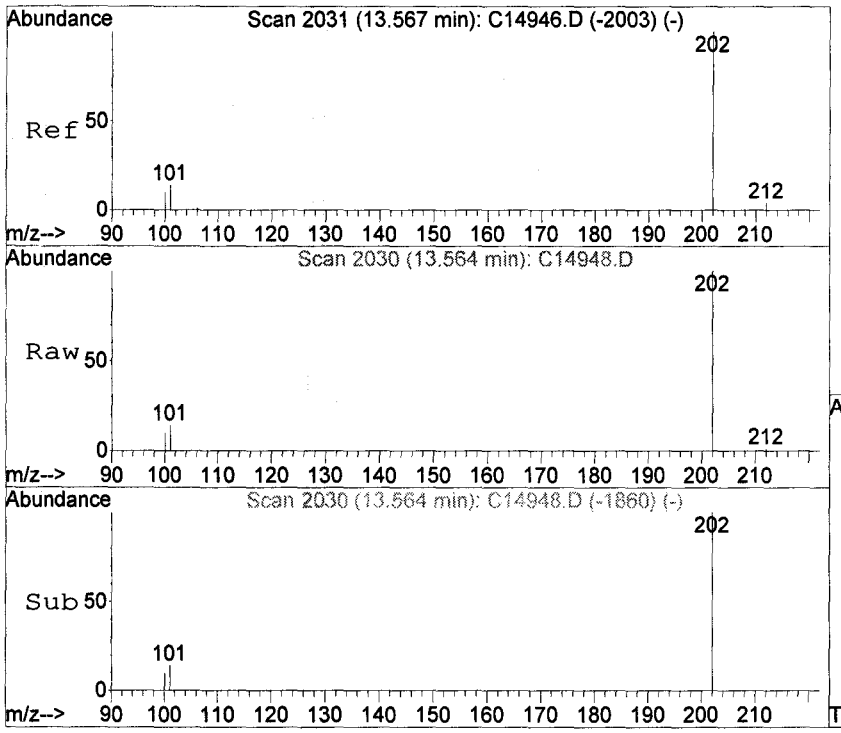
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.10 ug/mL
RT: 11.72 min Scan# 1609
Delta R.T. -0.00 min
Integration Range:
Scan=1602 to 1616
R.T.= 11.67 to 11.76 (min)
Tgt Ion:178 Resp: 41211

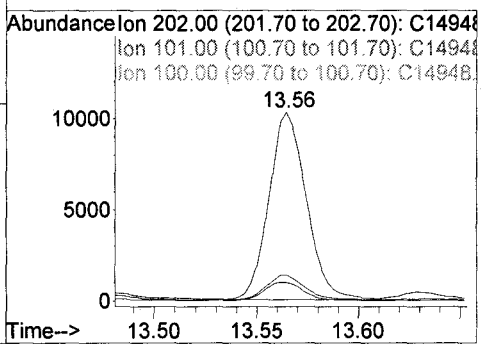
Ion	Ratio	Lower	Upper
178	100		
179	45.3	12.4	18.6#
176	17.4	13.8	20.8





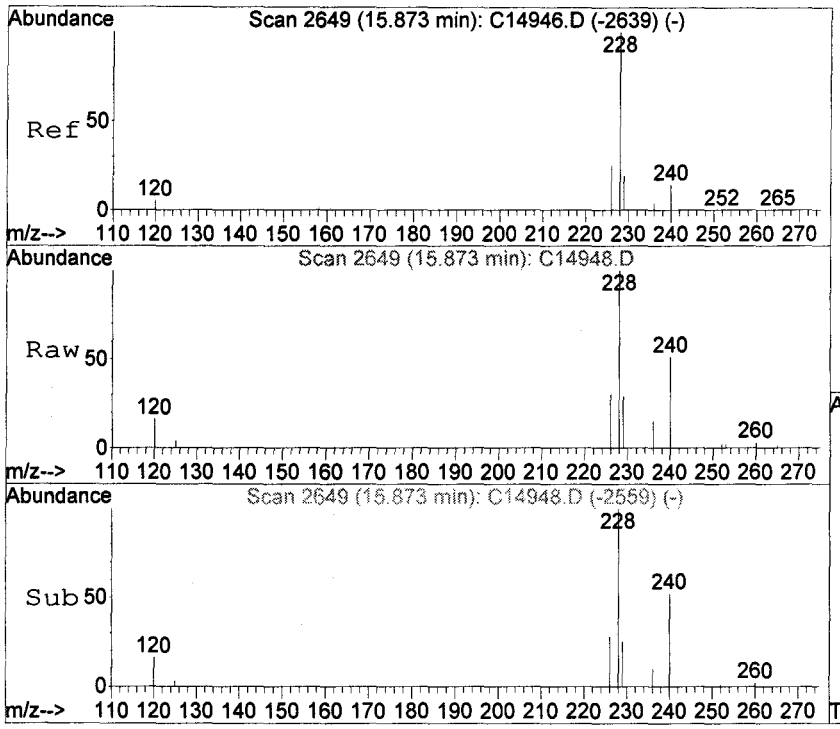
#14
Fluoranthene
Concen: 0.34 ug/mL
RT: 13.57 min Scan# 2030
Delta R.T. -0.00 min
Integration Range:
Scan=2016 to 2046
R.T.= 13.52 to 13.61 (min)
Tgt Ion:202 Resp: 131575

Ion	Ratio	Lower	Upper
202	100		
101	14.6	11.5	17.3
100	11.0	8.8	13.2



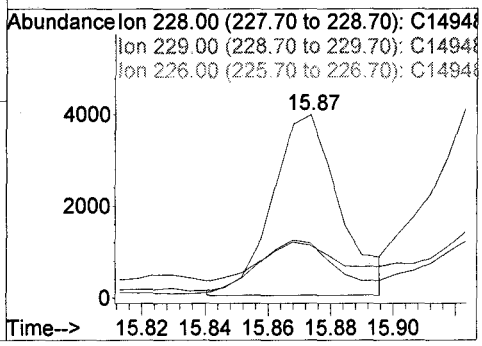
Data File : C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43
Sample : F4XQ6DL 5X
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

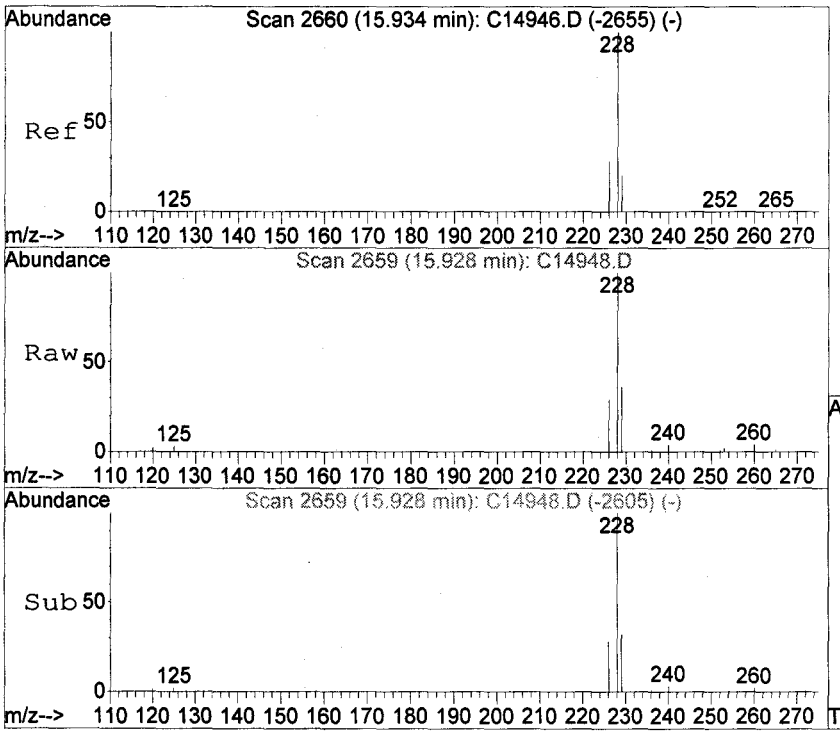
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.19 ug/mL
RT: 15.87 min Scan# 2649
Delta R.T. -0.00 min
Integration Range:
Scan=2643 to 2653
R.T.= 15.84 to 15.90 (min)
Tgt Ion:228 Resp: 56809

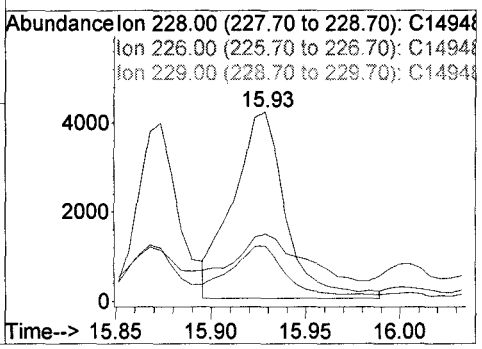
Ion	Ratio	Lower	Upper
228	100		
229	37.7	15.8	23.8#
226	38.3	20.5	30.7#





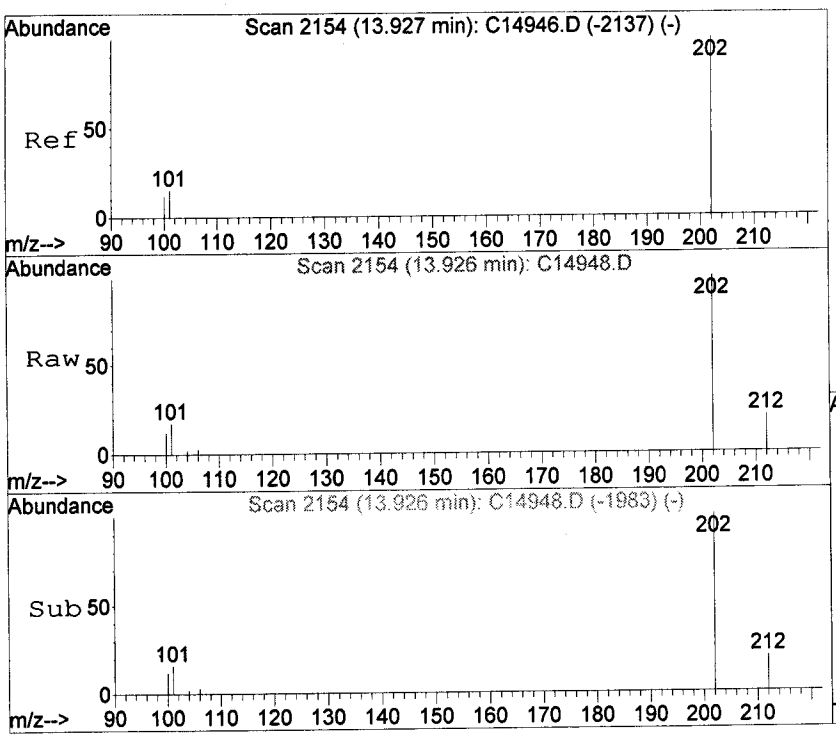
#17
Chrysene
Concen: 0.27 ug/mL
RT: 15.93 min Scan# 2659
Delta R.T. -0.00 min
Integration Range:
Scan=2653 to 2670
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 82947

Ion	Ratio	Lower	Upper
228	100		
226	32.2	22.8	34.2
229	52.4	15.9	23.9#



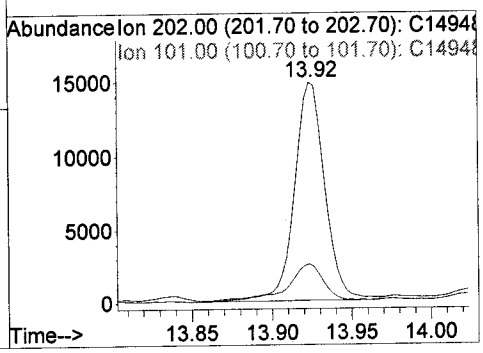
Data File : C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43
Sample : F4XQ6DL 5X
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

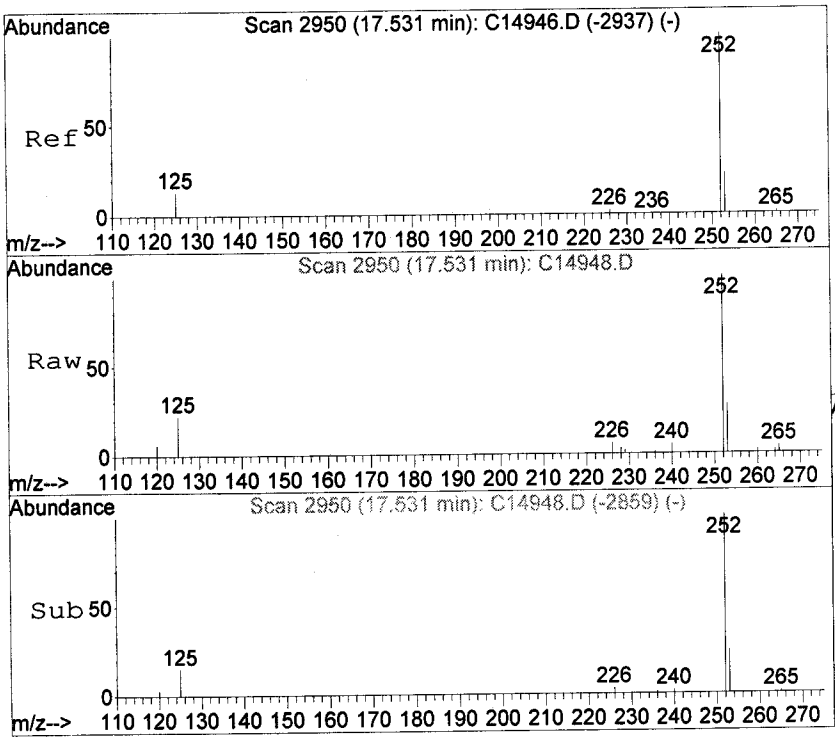
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.43 ug/mL
RT: 13.93 min Scan# 2154
Delta R.T. -0.00 min
Integration Range:
Scan=2131 to 2168
R.T.= 13.86 to 13.97 (min)
Tgt Ion:202 Resp: 198549

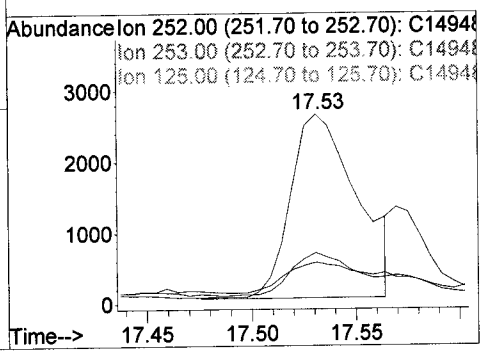
Ion	Ratio	Lower	Upper
202	100		
101	21.5	13.2	19.8#





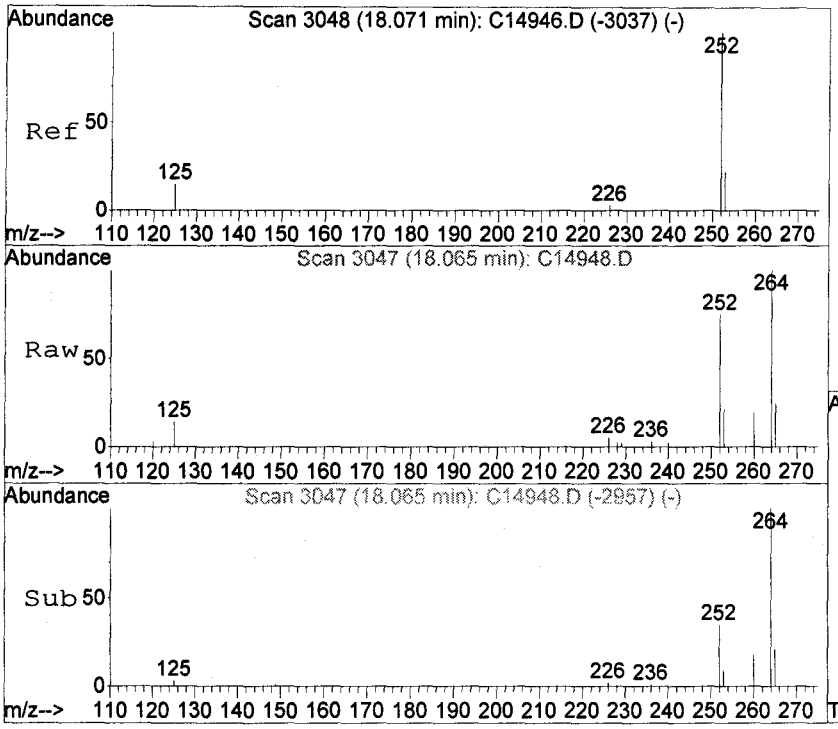
#20
Benzo(b)fluoranthene
Concen: 0.14 ug/mL
RT: 17.53 min Scan# 2950
Delta R.T. 0.00 min
Integration Range:
Scan=2940 to 2956
R.T.= 17.48 to 17.56 (min)
Tgt Ion:252 Resp: 53052

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	29.4	12.3	18.5#



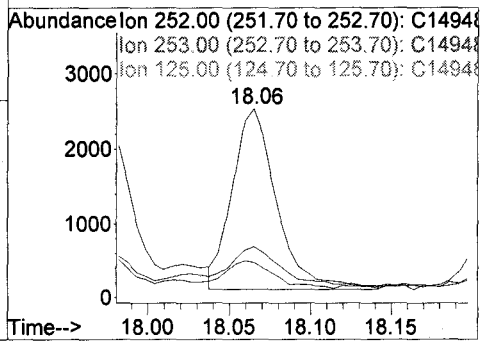
Data File : C:\MSDCHEM\1\DATA\C14948.D
Acq On : 12/20/11 11:43
Sample : F4XQ6DL 5X
Misc : S-4465.04DL 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

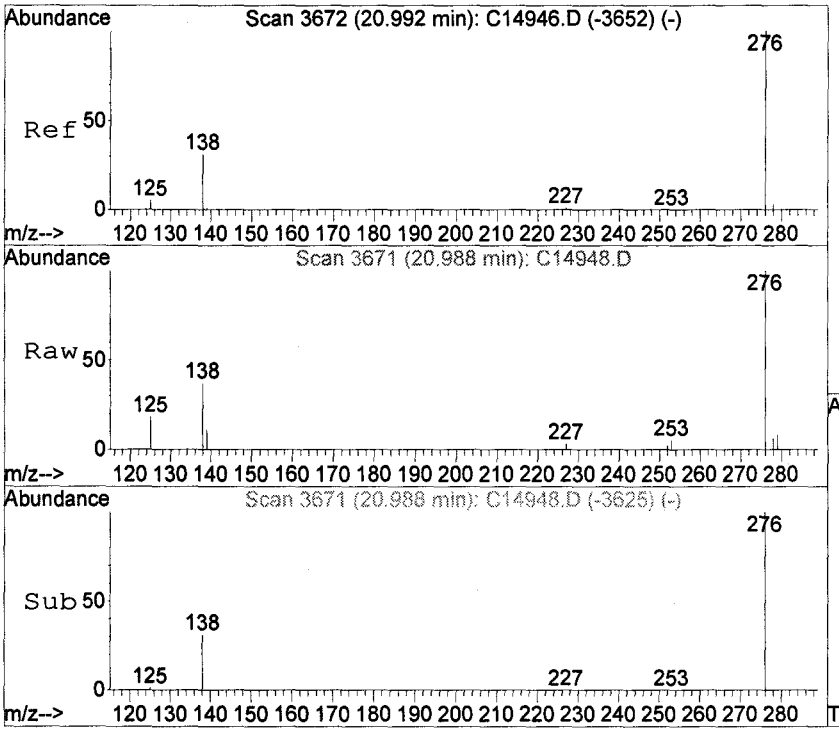
Vial: 4
Operator: SK
Inst : C5975
Multiplr: 1.00



#22
Benzo(a)pyrene
Concen: 0.13 ug/mL
RT: 18.07 min Scan# 3047
Delta R.T. -0.00 min
Integration Range:
Scan=3042 to 3061
R.T.= 18.04 to 18.14 (min)
Tgt Ion:252 Resp: 47692

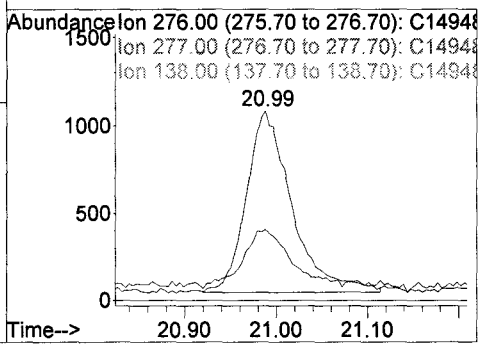
Ion	Ratio	Lower	Upper
252	100		
253	26.9	17.1	25.7#
125	15.8	13.1	19.7





#25
Benzo(g,h,i)perylene
Concen: 0.11 ug/mL
RT: 20.99 min Scan# 3671
Delta R.T. -0.00 min
Integration Range:
Scan=3655 to 3701
R.T.= 20.92 to 21.11 (min)
Tgt Ion:276 Resp: 35951

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	31.5	26.2	39.2



1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06

Sample wt/vol: 60.30 (g/mL) G Lab File ID: C14941

Extraction: (Type) SONC

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.4	
91-57-6	2-Methylnaphthalene	2.9	
208-96-8	Acenaphthylene	13	
83-32-9	Acenaphthene	3.0	
86-73-7	Fluorene	3.4	
87-86-5	Pentachlorophenol	5.3	U
85-01-8	Phenanthrene	20	
120-12-7	Anthracene	17	
206-44-0	Fluoranthene	84	E
129-00-0	Pyrene	77	E
56-55-3	Benzo(a)anthracene	44	E
218-01-9	Chrysene	52	E
205-99-2	Benzo(b)fluoranthene	56	E
207-08-9	Benzo(k)fluoranthene	18	
50-32-8	Benzo(a)pyrene	41	E
193-39-5	Indeno(1,2,3-cd)pyrene	26	
53-70-3	Dibenzo(a,h)anthracene	9.8	
191-24-2	Benzo(g,h,i)perylene	26	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41 Operator: SK
Sample : F4XQ7 Inst : C5975
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 20 10:28:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.40	136	130492	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.20	164	99902	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.59	188	204098m	0.4000 ug/mL	0.00
15) Chrysene-d12	15.90	240	131845	0.4000 ug/mL	0.01
19) Perylene-d12	18.18	264	139095m	0.4000 ug/mL	0.02
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.48	152	79477	0.3943 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 98.57%	
13) Fluoranthene-d10	13.54	212	191846	0.4268 ug/mL	0.01
Spiked Amount 0.400			Recovery	= 106.70%	
Target Compounds					Qvalue
2) Naphthalene	6.43	128	43179	0.1279 ug/mL#	90
4) 2-Methylnaphthalene	7.53	142	22693	0.1105 ug/mL	100
6) Acenaphthylene	8.96	152	203855	0.4996 ug/mL	94
7) Acenaphthene	9.25	154	27261	0.1141 ug/mL	95
8) Fluorene	10.09	166	36116	0.1279 ug/mL	87
11) Phenanthrene	11.64	178	349856	0.7531 ug/mL	98
12) Anthracene	11.72	178	307293	0.6535 ug/mL#	86
14) Fluoranthene	13.57	202	1412778	3.1847 ug/mL	99
16) Benzo(a)anthracene	15.88	228	612384	1.6581 ug/mL#	86
17) Chrysene	15.93	228	748212	1.9586 ug/mL#	88
18) Pyrene	13.93	202	1648811	2.9336 ug/mL#	92
20) Benzo(b)fluoranthene	17.54	252	809792	2.1317 ug/mL	98
21) Benzo(k)fluoranthene	17.58	252	303208	0.6782 ug/mL	98
22) Benzo(a)pyrene	18.08	252	606567	1.5396 ug/mL	98
23) Dibenzo(a,h)anthracene	20.42	278	87980	0.3715 ug/mL#	94
24) Indeno(1,2,3-cd)pyrene	20.36	276	310040m	0.9865 ug/mL	
25) Benzo(g,h,i)perylene	21.01	276	347597m	0.9860 ug/mL	

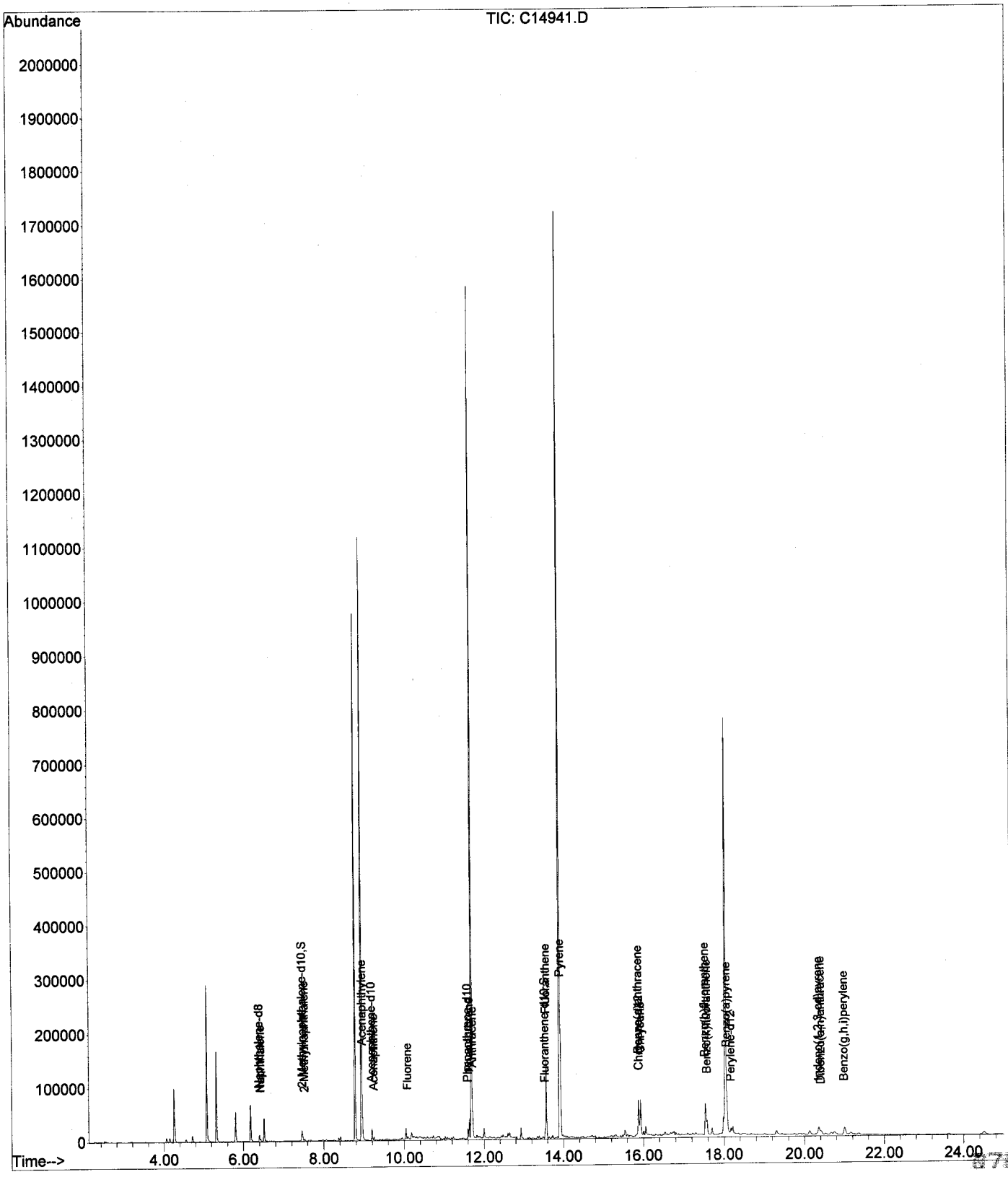
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

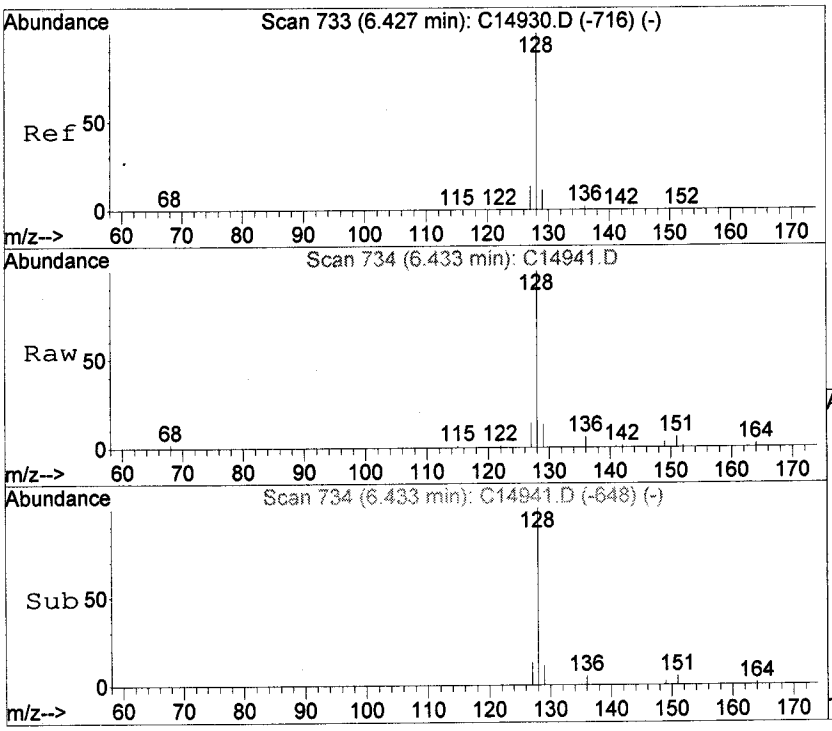
Operator: SK
Inst : C5975

Quant Time: Dec 20 10:28:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



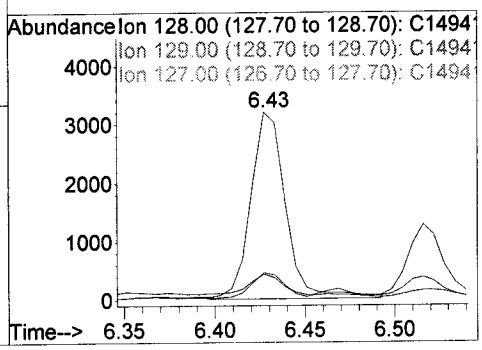
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

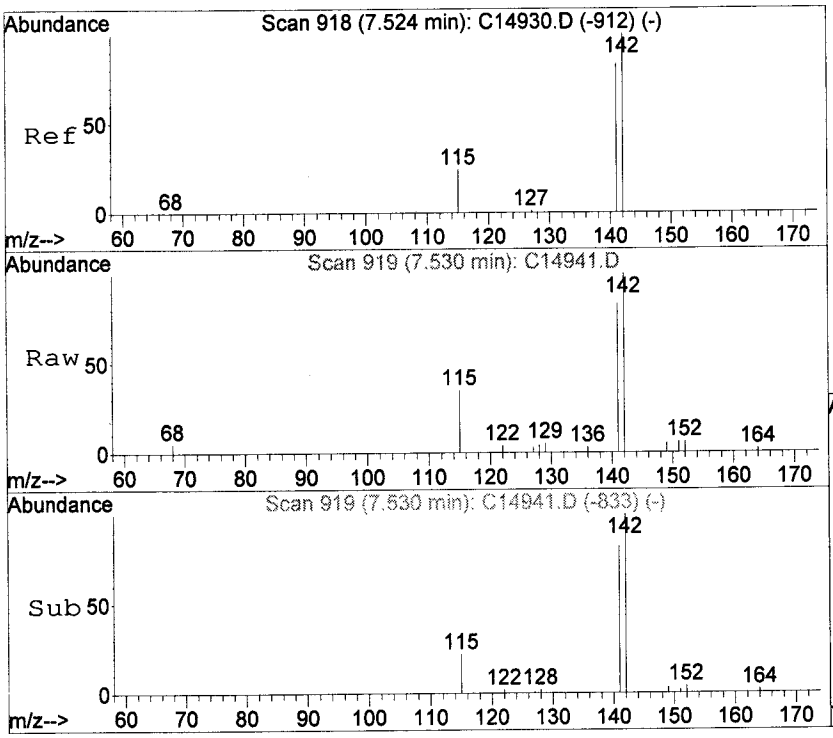
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.13 ug/mL
RT: 6.43 min Scan# 734
Delta R.T. 0.01 min
Integration Range:
Scan=728 to 744
R.T.= 6.40 to 6.49 (min)
Tgt Ion:128 Resp: 43179

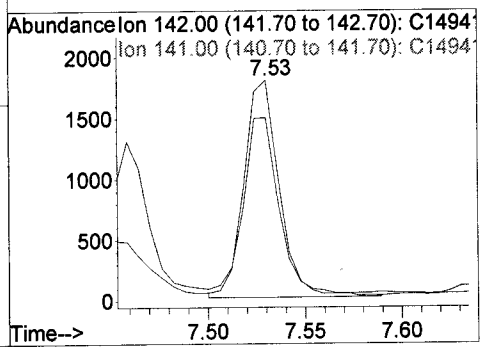
Ion	Ratio	Lower	Upper
128	100		
129	19.5	8.8	13.2#
127	13.3	10.7	16.1





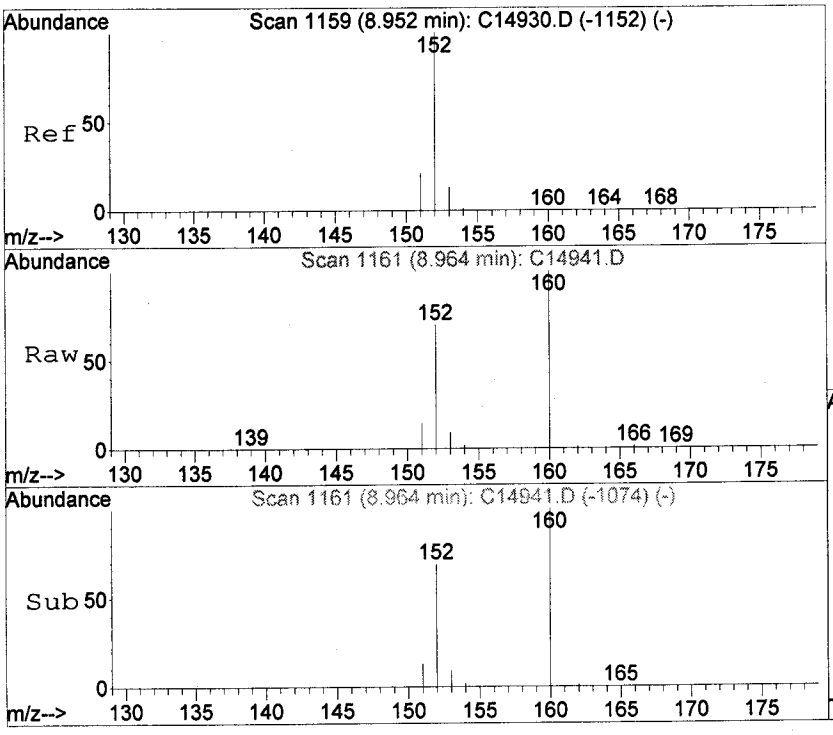
#4
2-Methylnaphthalene
Concen: 0.11 ug/mL
RT: 7.53 min Scan# 919
Delta R.T. 0.01 min
Integration Range:
Scan=914 to 929
R.T.= 7.50 to 7.59 (min)
Tgt Ion:142 Resp: 22693

Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.9	101.9



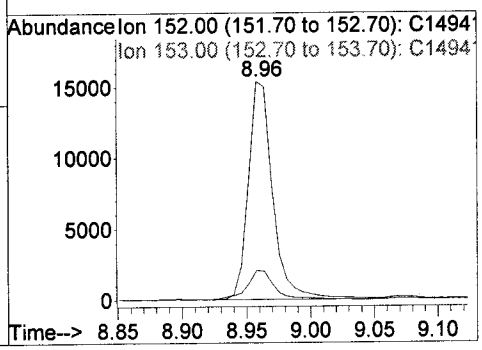
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

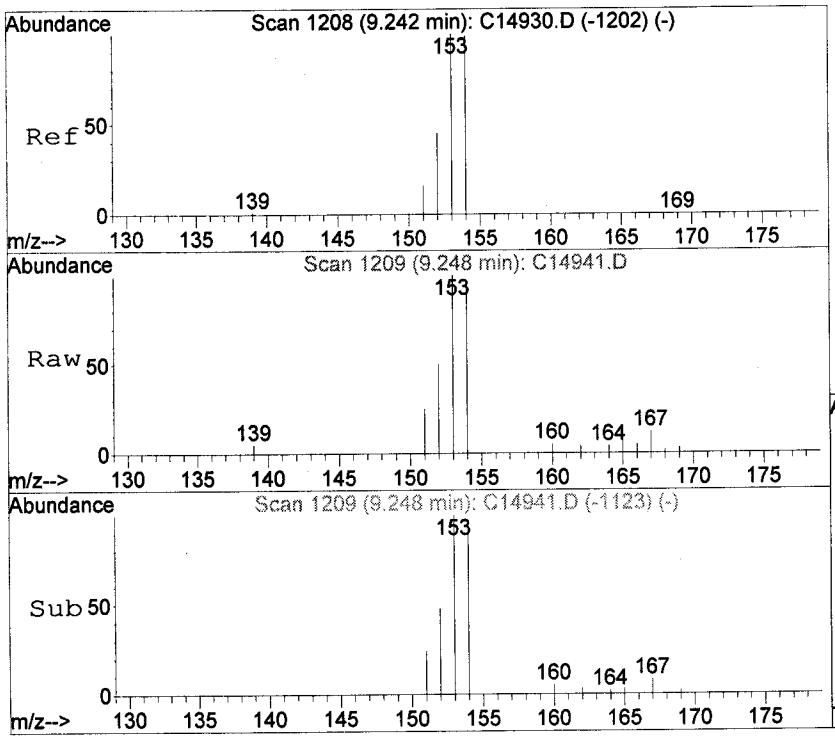
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.50 ug/mL
RT: 8.96 min Scan# 1161
Delta R.T. 0.01 min
Integration Range:
Scan=1153 to 1176
R.T.= 8.92 to 9.05 (min)
Tgt Ion:152 Resp: 203855

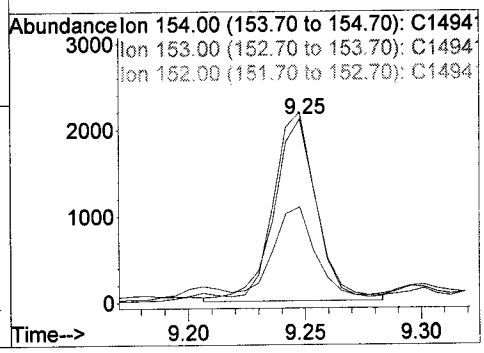
Ion	Ratio	Lower	Upper
152	100		
153	15.6	10.5	15.7





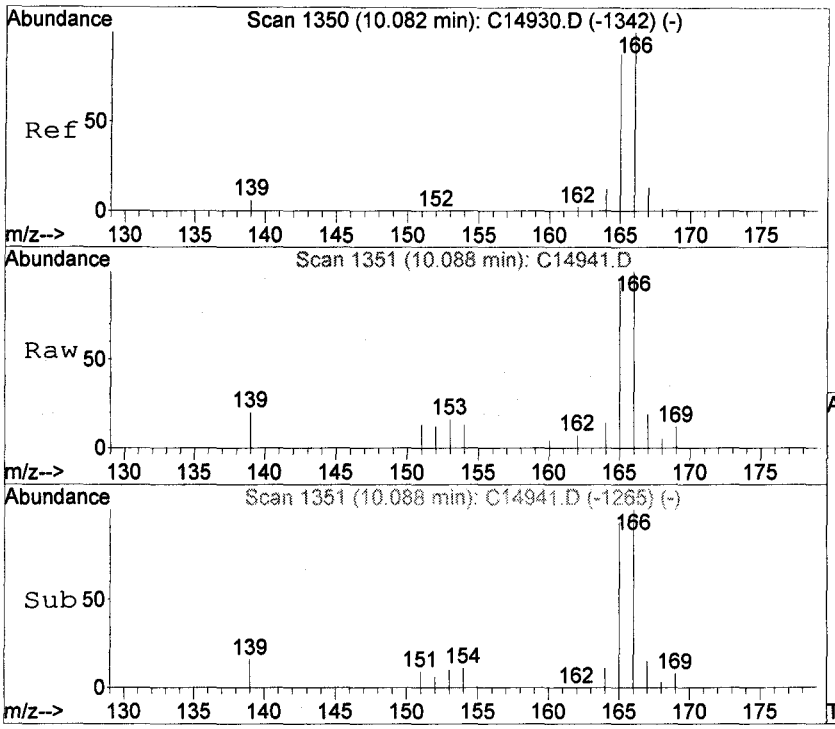
#7
Acenaphthene
Concen: 0.11 ug/mL
RT: 9.25 min Scan# 1209
Delta R.T. 0.01 min
Integration Range:
Scan=1202 to 1215
R.T.= 9.21 to 9.28 (min)
Tgt Ion:154 Resp: 27261

Ion	Ratio	Lower	Upper
154	100		
153	98.8	85.2	127.8
152	48.9	39.4	59.0



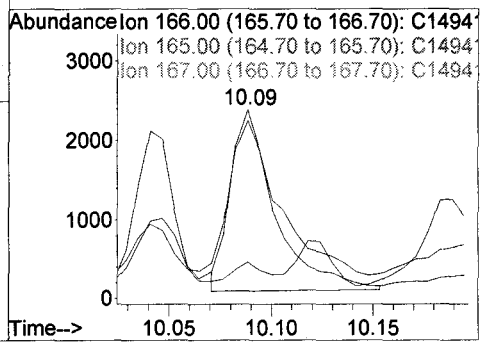
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

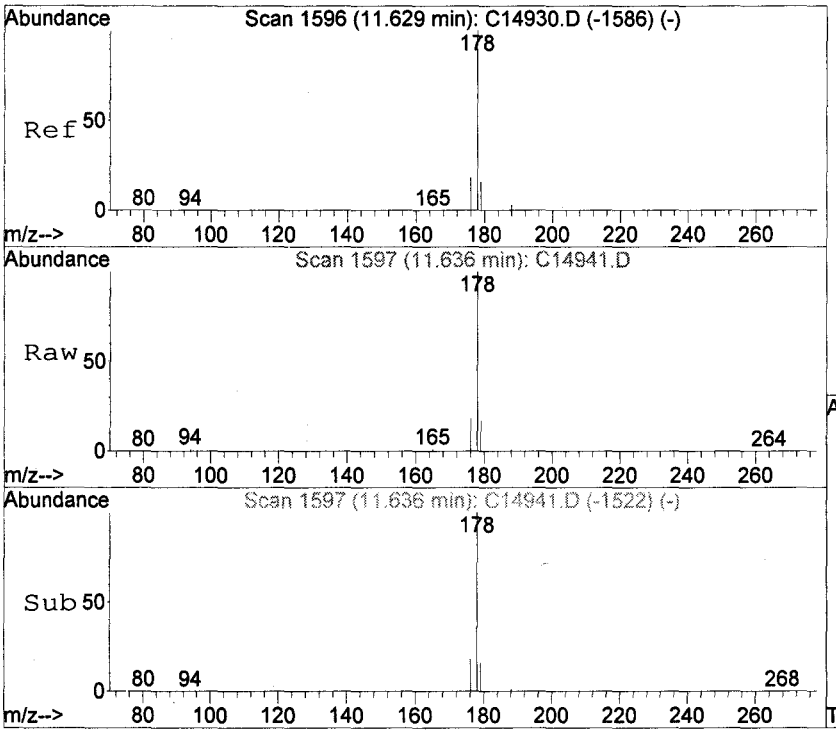
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#8
Fluorene
Concen: 0.13 ug/mL
RT: 10.09 min Scan# 1351
Delta R.T. 0.01 min
Integration Range:
Scan=1348 to 1362
R.T.= 10.07 to 10.15 (min)
Tgt Ion:166 Resp: 36116

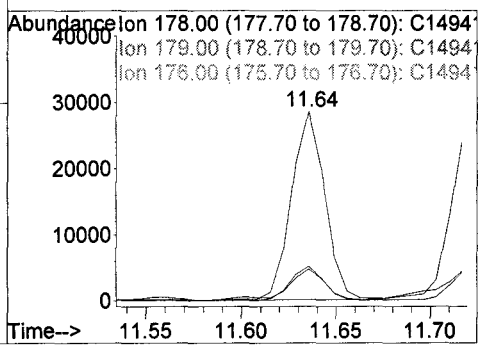
Ion	Ratio	Lower	Upper
166	100		
165	106.5	73.9	110.9
167	12.4	10.7	16.1





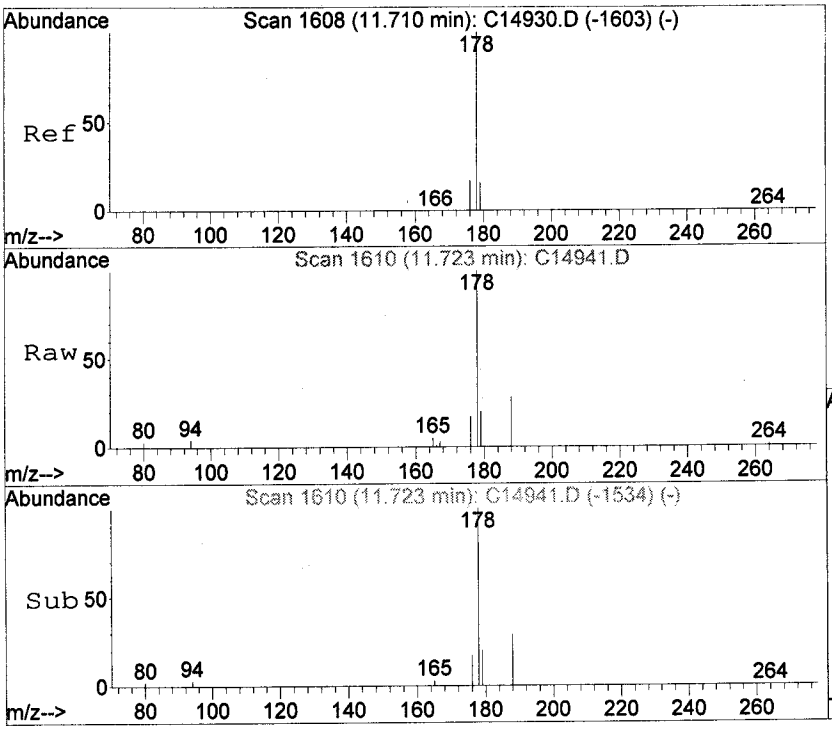
#11
Phenanthrene
Concen: 0.75 ug/mL
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Integration Range:
Scan=1589 to 1603
R.T.= 11.58 to 11.68 (min)
Tgt Ion:178 Resp: 349856

Ion	Ratio	Lower	Upper
178	100		
179	16.5	12.2	18.4
176	18.6	14.5	21.7



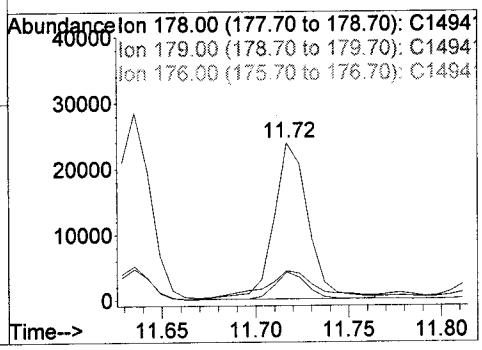
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

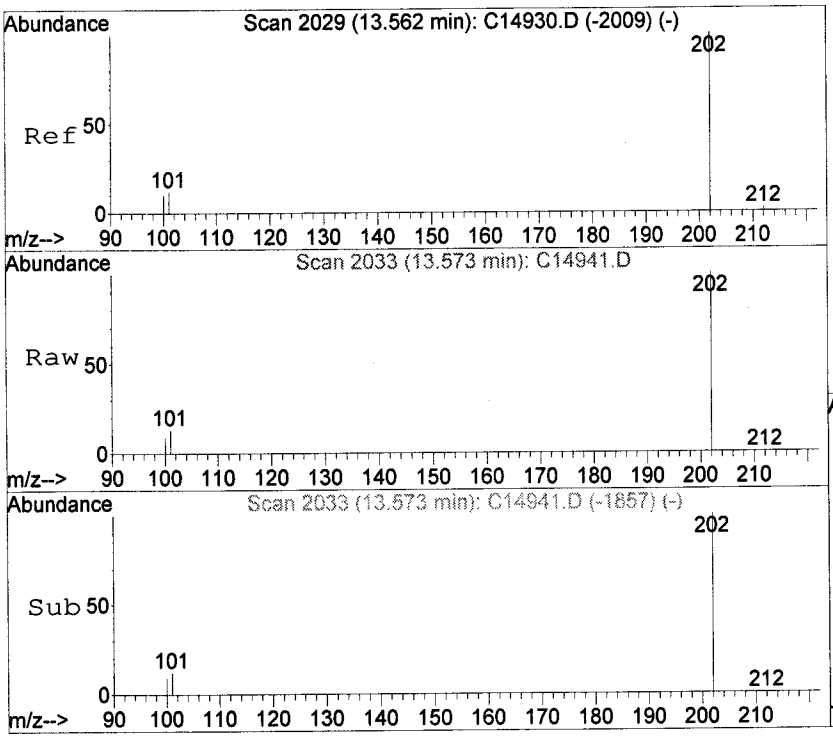
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#12
Anthracene
Concen: 0.65 ug/mL
RT: 11.72 min Scan# 1610
Delta R.T. 0.01 min
Integration Range:
Scan=1603 to 1616
R.T.= 11.68 to 11.76 (min)
Tgt Ion:178 Resp: 307293

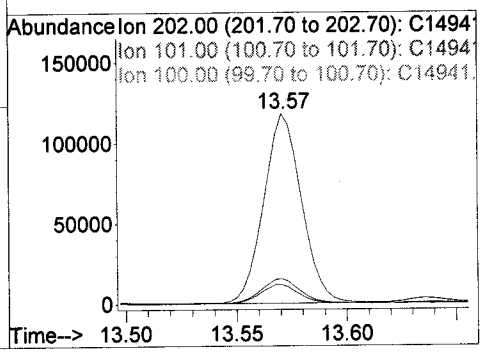
Ion	Ratio	Lower	Upper
178	100		
179	27.3	12.4	18.6#
176	17.5	13.8	20.8





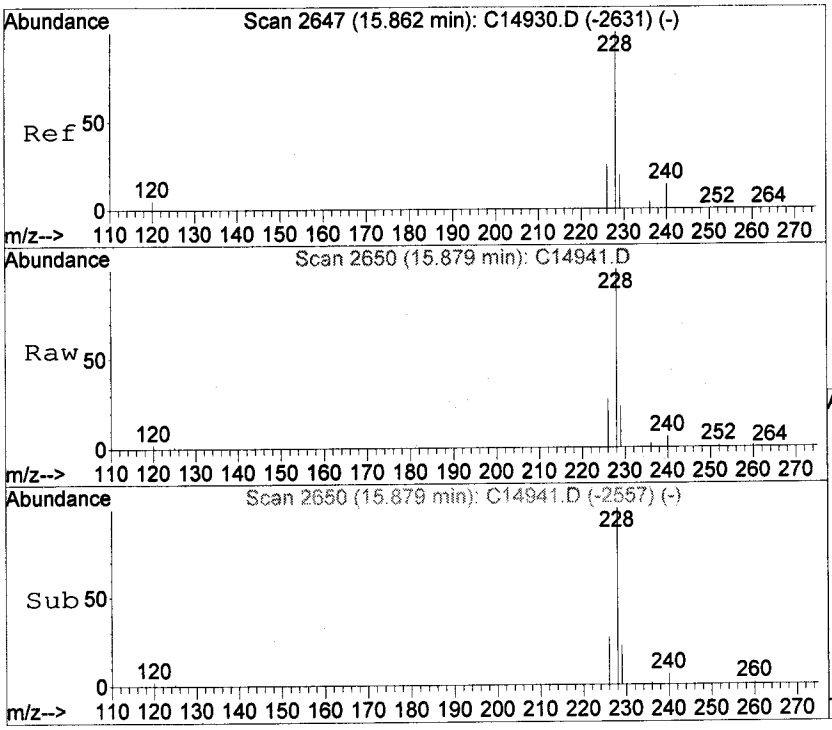
#14
Fluoranthene
Concen: 3.18 ug/mL
RT: 13.57 min Scan# 2033
Delta R.T. 0.01 min
Integration Range:
Scan=2020 to 2047
R.T.= 13.54 to 13.61 (min)
Tgt Ion:202 Resp: 1412778

Ion	Ratio	Lower	Upper
202	100		
101	13.7	11.5	17.3
100	10.6	8.8	13.2



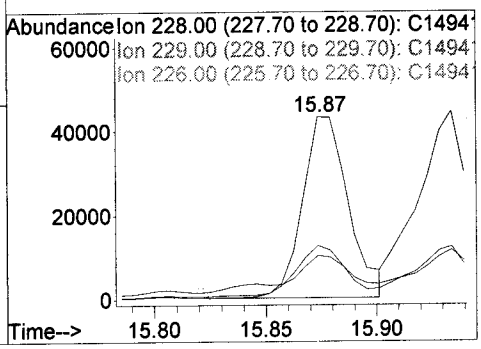
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

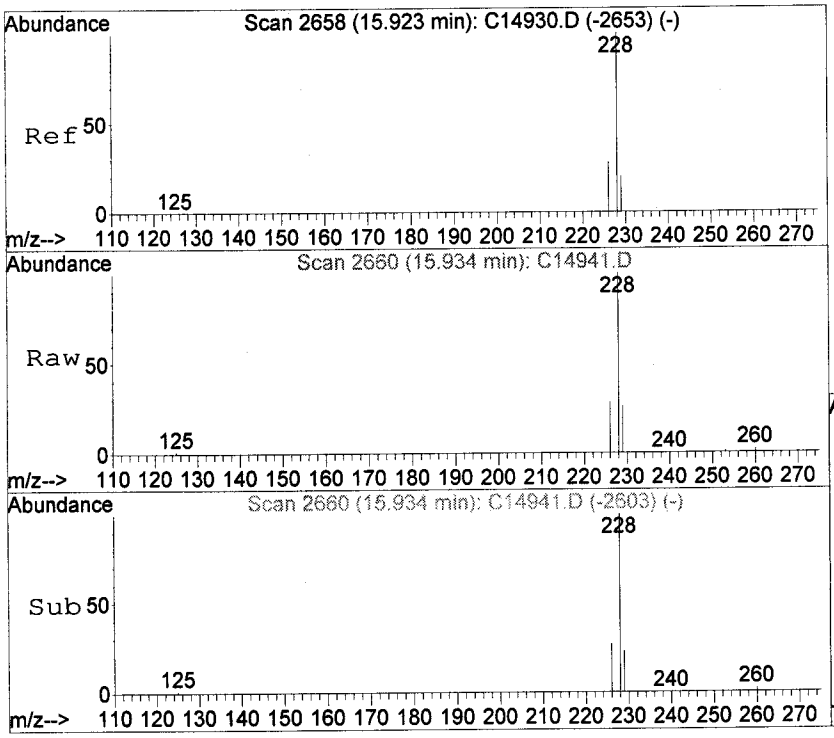
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 1.66 ug/mL
RT: 15.88 min Scan# 2650
Delta R.T. 0.01 min
Integration Range:
Scan=2640 to 2654
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 612384

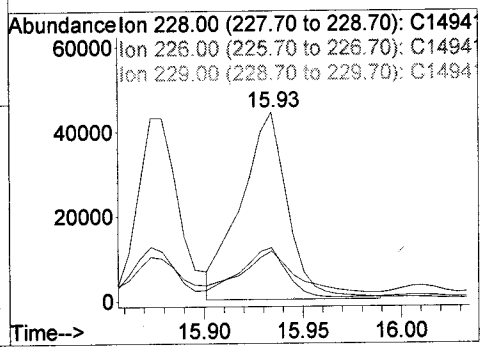
Ion	Ratio	Lower	Upper
228	100		
229	26.4	15.8	23.8#
226	32.4	20.5	30.7#





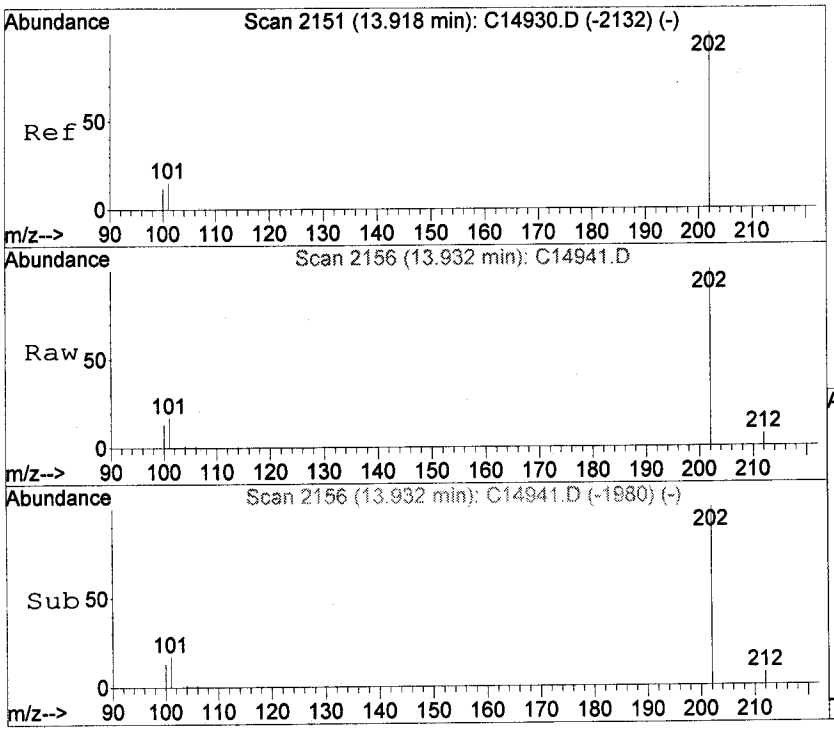
#17
Chrysene
Concen: 1.96 ug/mL
RT: 15.93 min Scan# 2660
Delta R.T. 0.01 min
Integration Range:
Scan=2654 to 2670
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 748212

Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.8	34.2
229	32.1	15.9	23.9#



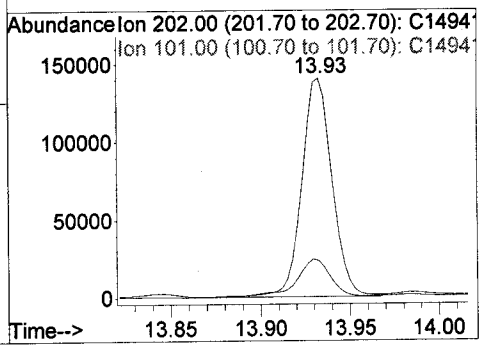
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

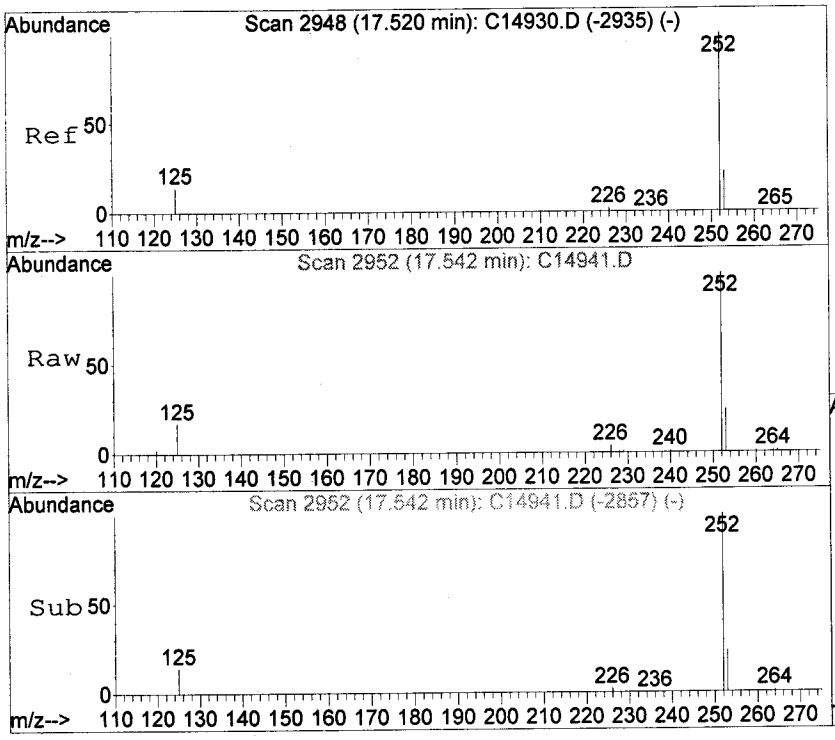
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 2.93 ug/mL
RT: 13.93 min Scan# 2156
Delta R.T. 0.02 min
Integration Range:
Scan=2134 to 2168
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 1648811

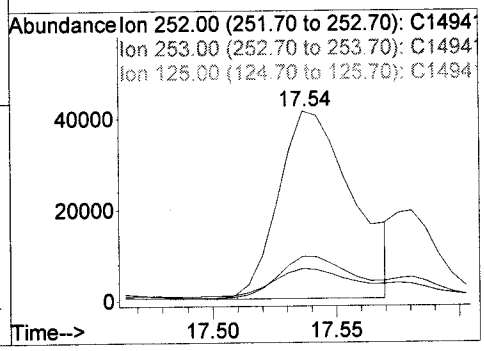
Ion	Ratio	Lower	Upper
202	100		
101	20.1	13.2	19.8#





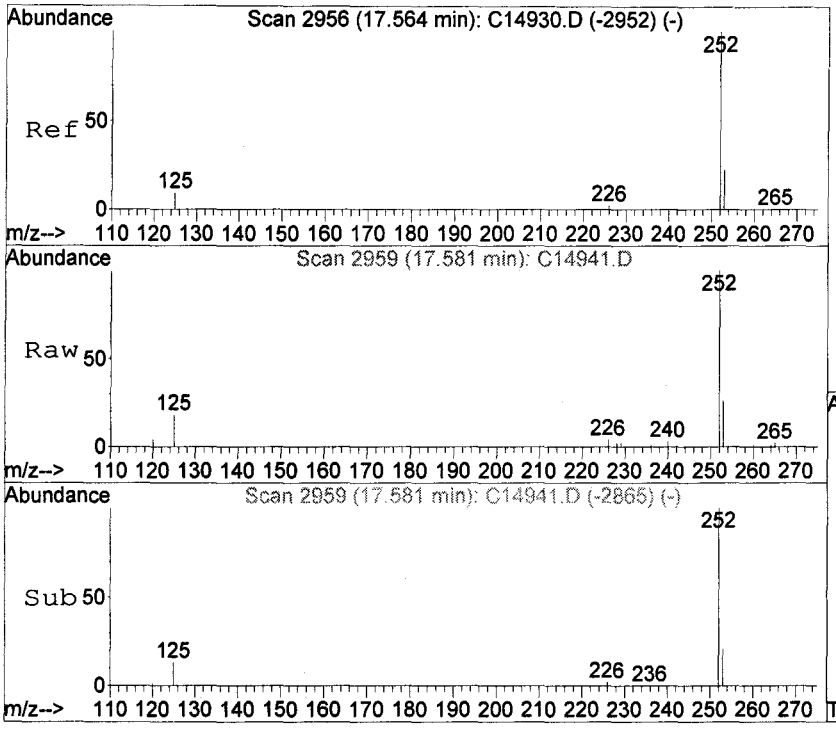
#20
Benzo(b)fluoranthene
Concen: 2.13 ug/mL
RT: 17.54 min Scan# 2952
Delta R.T. 0.02 min
Integration Range:
Scan=2944 to 2957
R.T.= 17.50 to 17.57 (min)
Tgt Ion:252 Resp: 809792

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	16.3	12.3	18.5



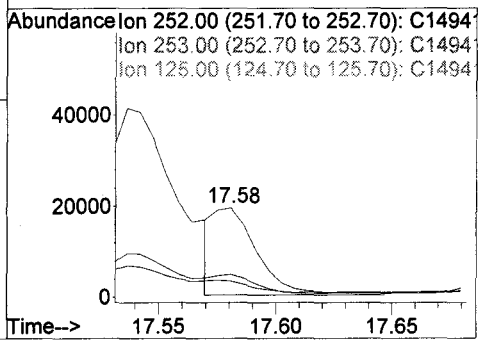
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

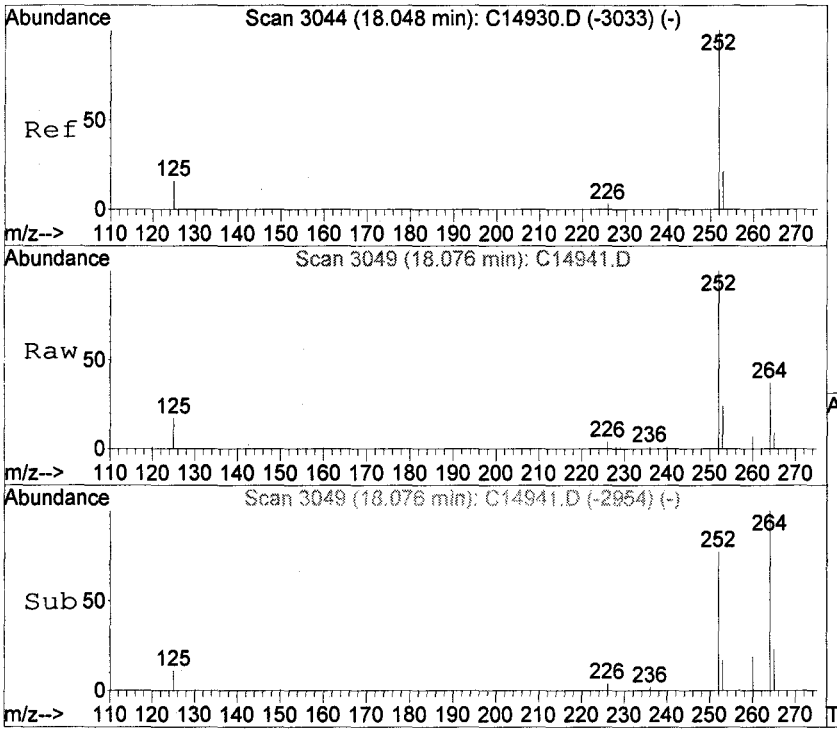
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.68 ug/mL
RT: 17.58 min Scan# 2959
Delta R.T. 0.02 min
Integration Range:
Scan=2957 to 2971
R.T.= 17.57 to 17.65 (min)
Tgt Ion:252 Resp: 303208

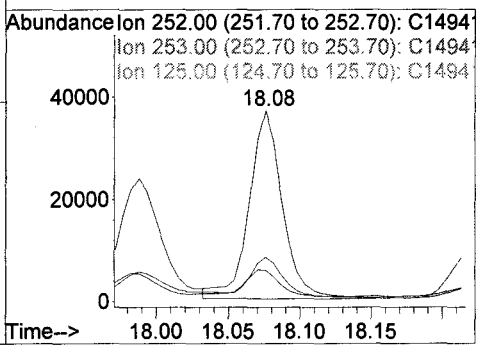
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	13.5	12.4	18.6





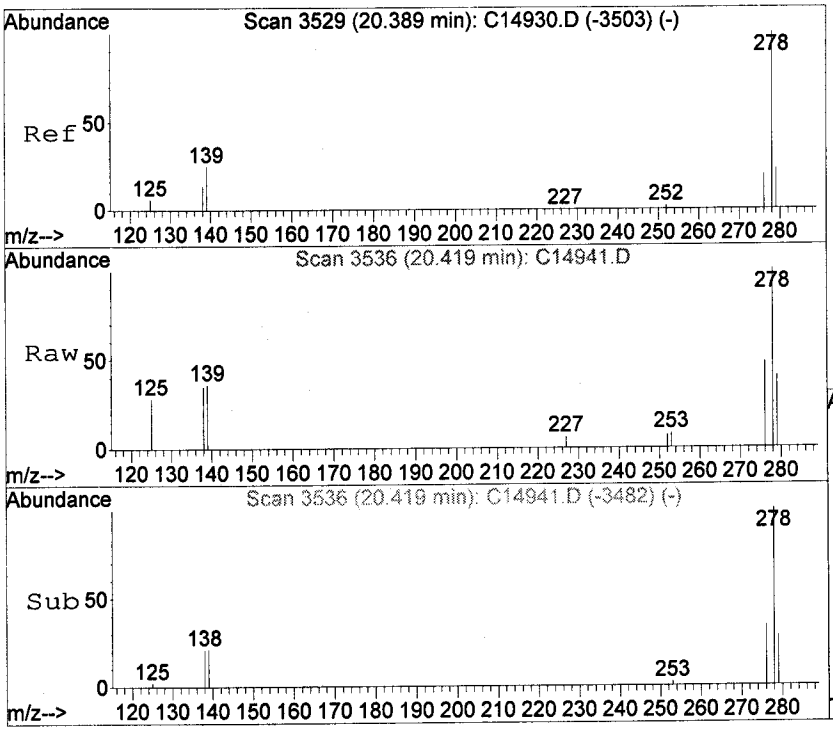
#22
Benzo(a)pyrene
Concen: 1.54 ug/mL
RT: 18.08 min Scan# 3049
Delta R.T. 0.03 min
Integration Range:
Scan=3041 to 3063
R.T.= 18.03 to 18.15 (min)
Tgt Ion:252 Resp: 606567

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	17.0	13.1	19.7



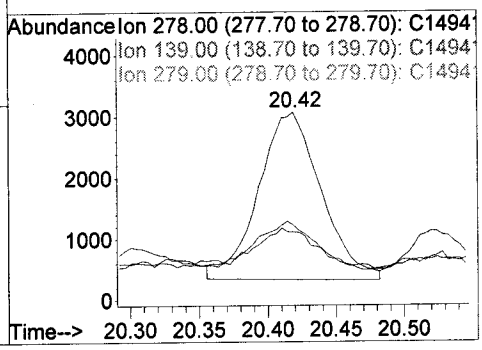
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

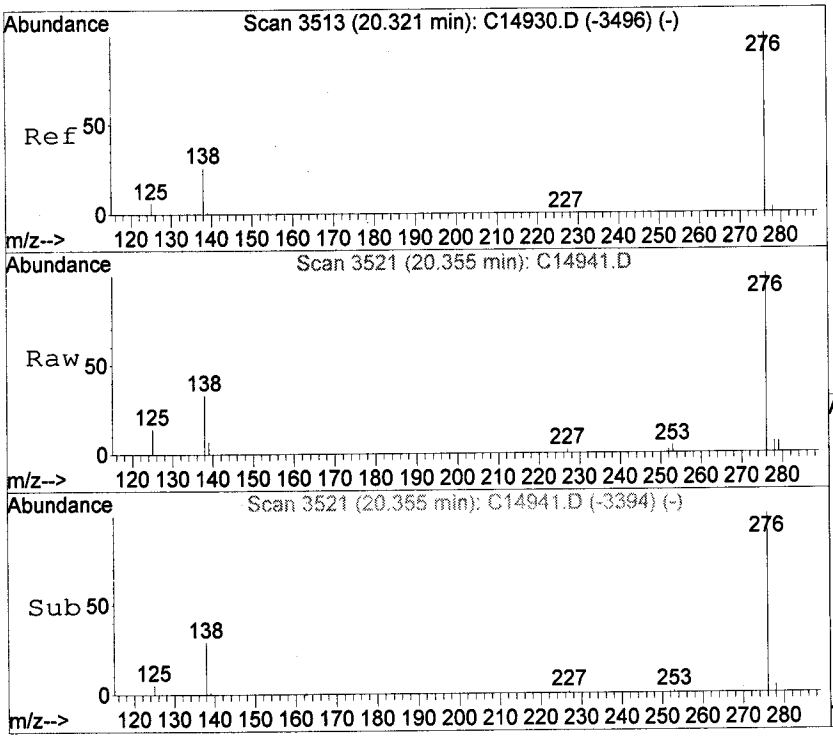
Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#23
Dibenzo(a,h)anthracene
Concen: 0.37 ug/mL
RT: 20.42 min Scan# 3536
Delta R.T. 0.03 min
Integration Range:
Scan=3521 to 3551
R.T.= 20.36 to 20.48 (min)
Tgt Ion:278 Resp: 87980

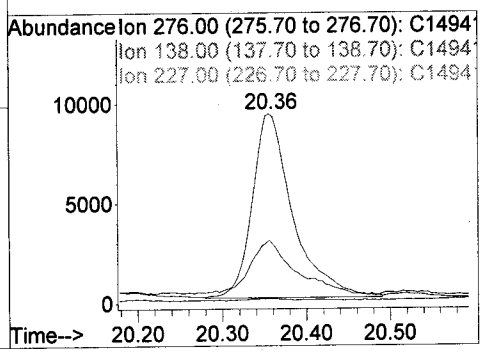
Ion	Ratio	Lower	Upper
278	100		
139	25.3	19.8	29.6
279	28.3	18.4	27.6#





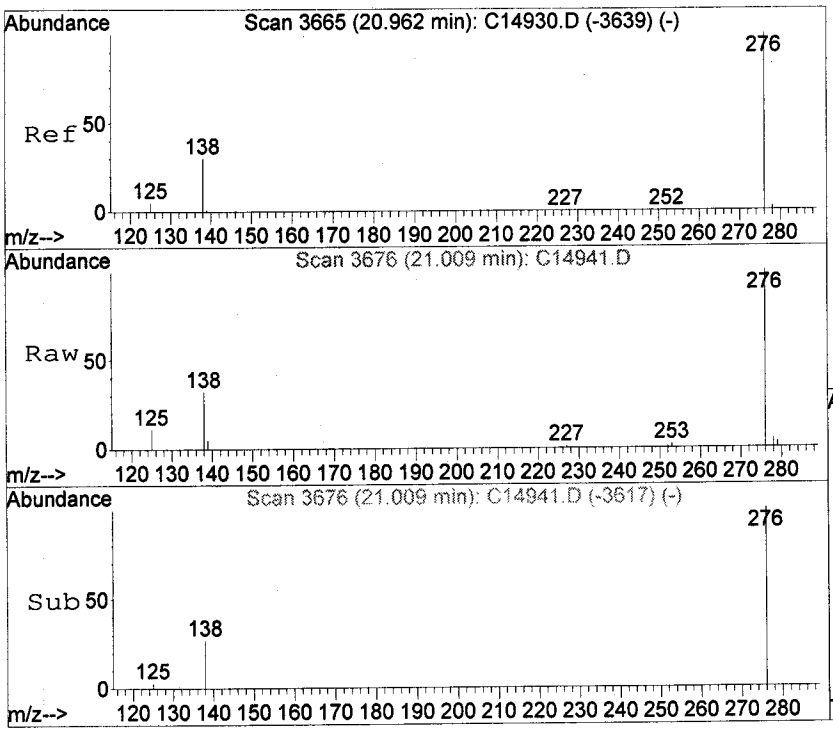
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.99 ug/mL m
RT: 20.36 min Scan# 3521
Delta R.T. 0.04 min
Integration Range:
Scan=3503 to 3553
R.T.= 20.28 to 20.49 (min)
Tgt Ion:276 Resp: 310040

Ion	Ratio	Lower	Upper
276	100		
138	35.4	23.7	35.5
227	0.9	0.0	0.0#



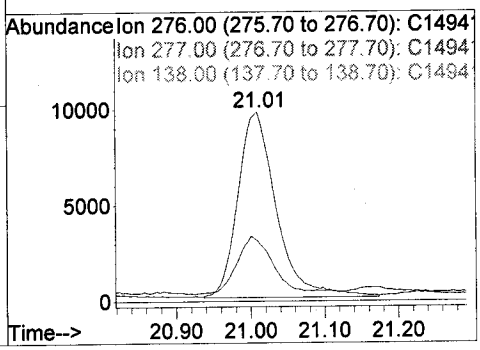
Data File : C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 13
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.99 ug/mL m
RT: 21.01 min Scan# 3676
Delta R.T. 0.05 min
Integration Range:
Scan=3659 to 3715
R.T.= 20.94 to 21.17 (min)
Tgt Ion:276 Resp: 347597

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	0.0	26.2	39.2#

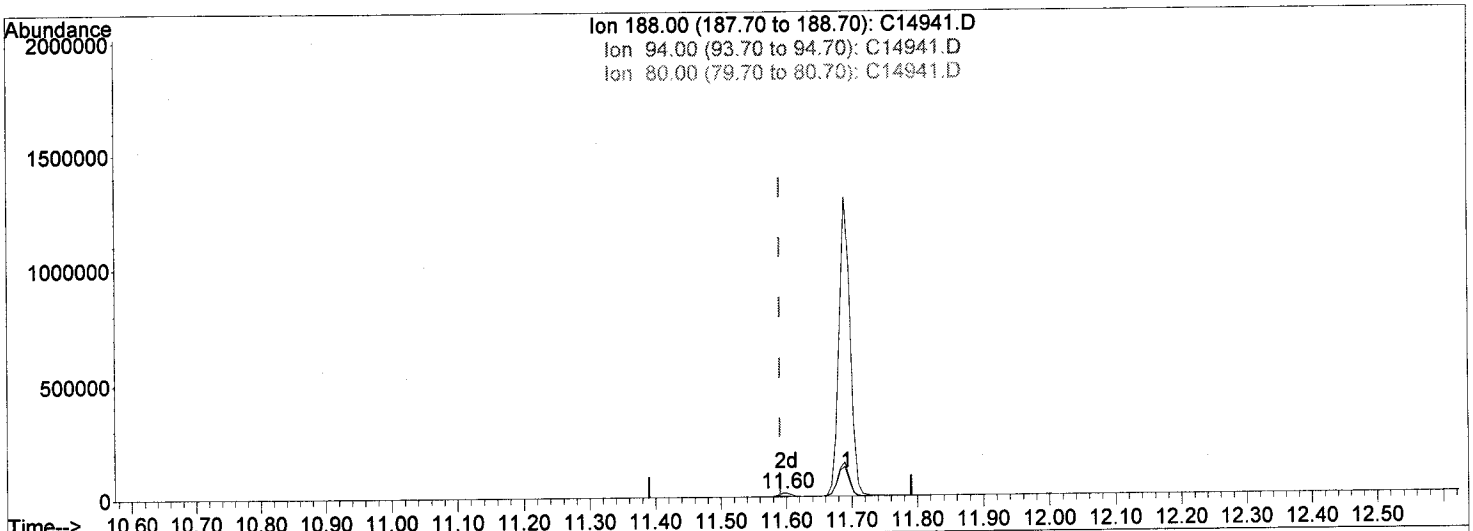


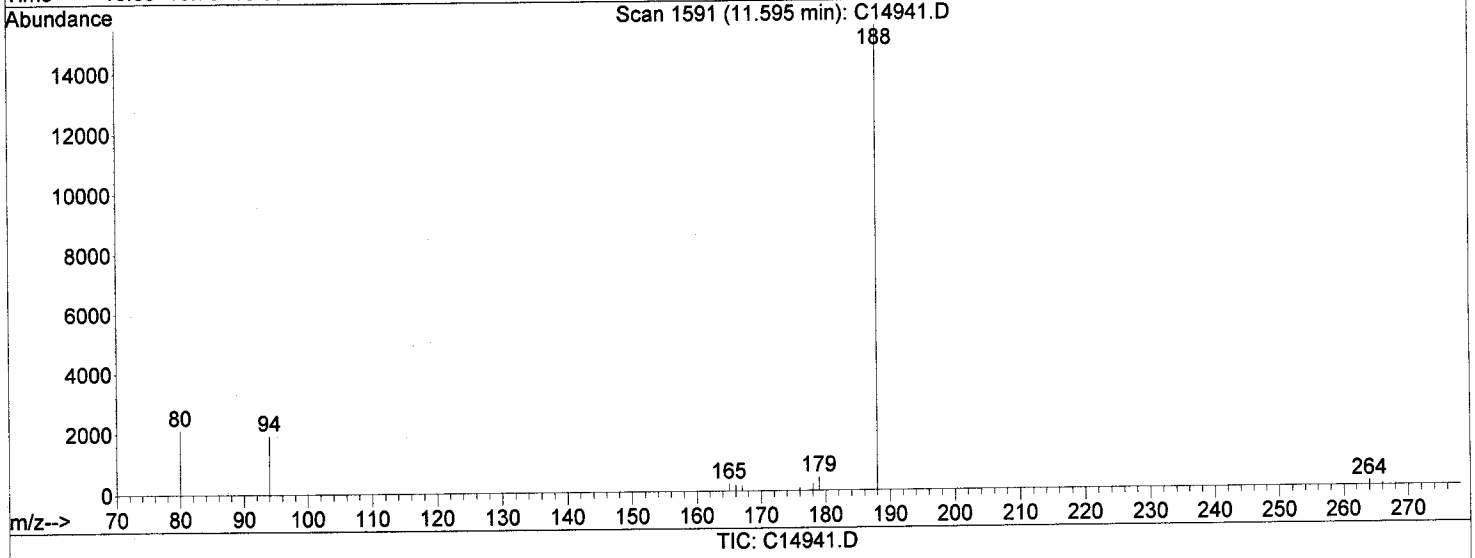
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41 Operator: SK
Sample : F4XQ7 Inst : C5975
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 20 10:28:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14941.D

(9) Phenanthrene-d10

11.595min (+0.004) 0.4000ug/mL m

response 204098

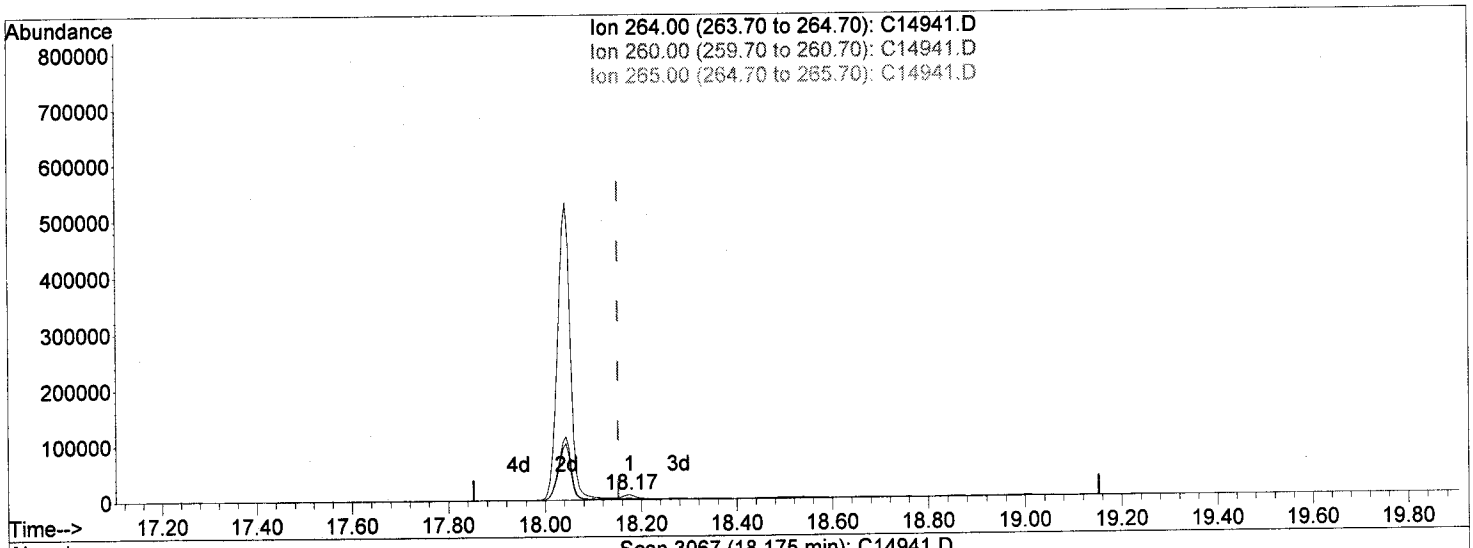
Ion	Exp%	Act%
188.00	100	100
94.00	11.00	875.43#
80.00	12.00	778.46#
0.00	0.00	0.00

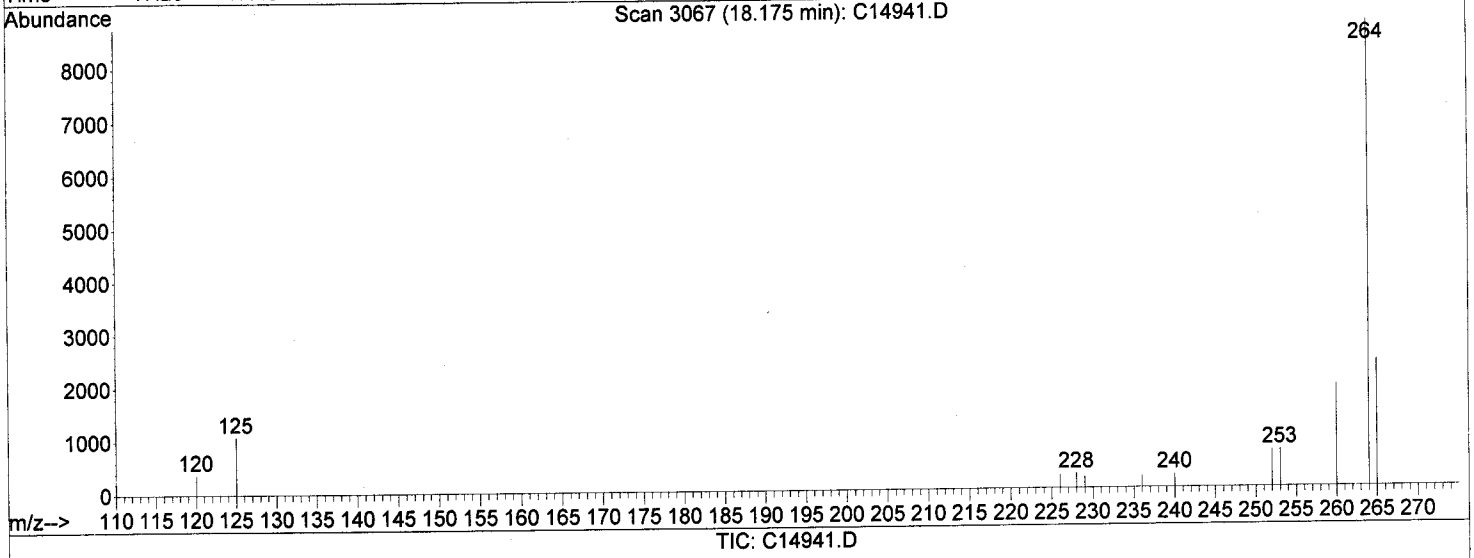
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41 Operator: SK
Sample : F4XQ7 Inst : C5975
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 20 10:28:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14941.D

(19) Perylene-d12

18.175min (+0.022) 0.4000ug/mL m

response 139095

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	33.39#
265.00	21.10	36.79#
0.00	0.00	0.00

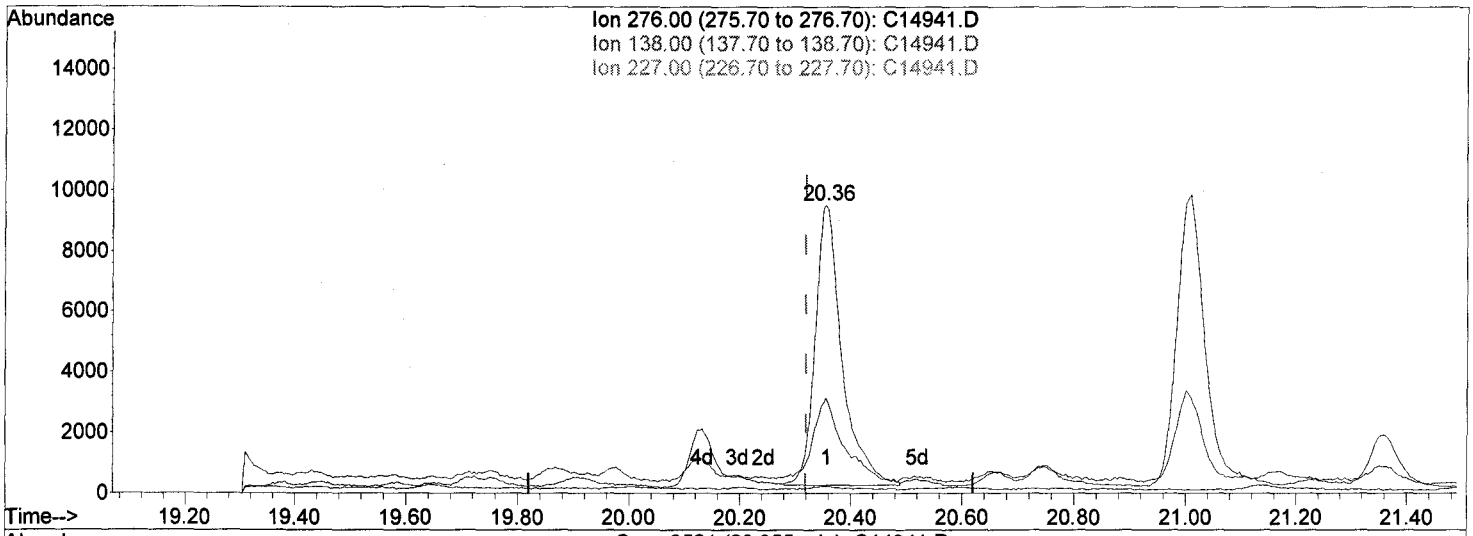
8786

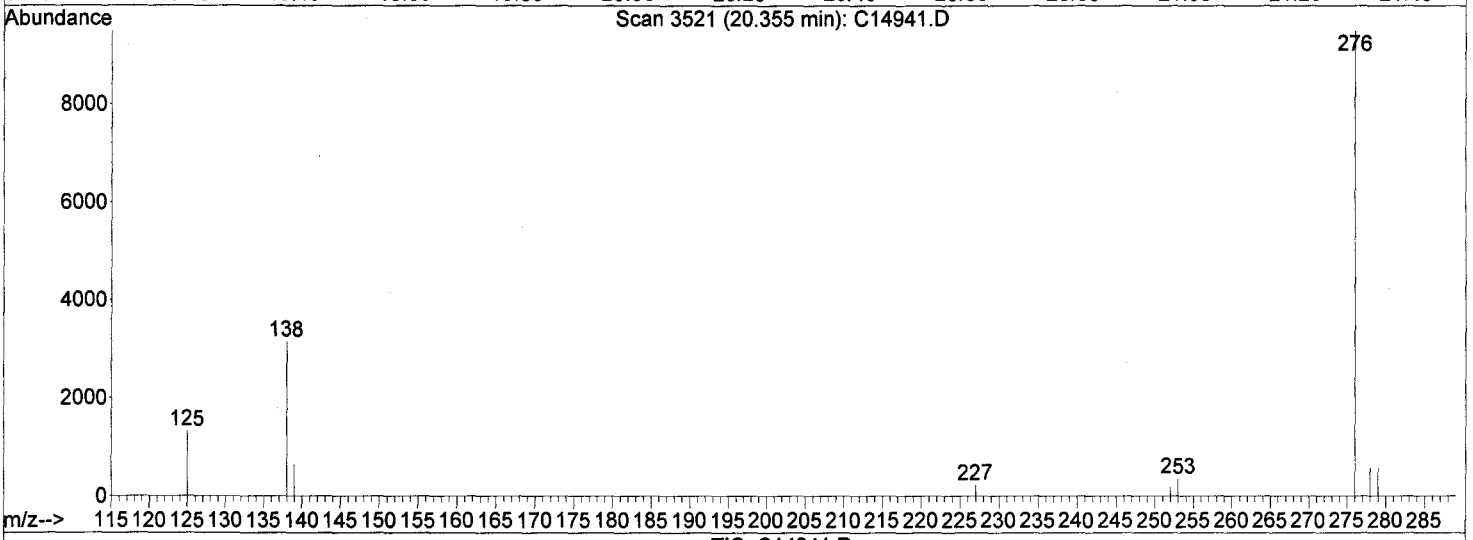
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41 Operator: SK
Sample : F4XQ7 Inst : C5975
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 20 10:28:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14941.D

(24) Indeno(1,2,3-cd)pyrene

20.355min (+0.035) 0.9865ug/mL m

response 310040

Ion	Exp%	Act%
276.00	100	100
138.00	29.60	35.38
227.00	0.00	0.91#
0.00	0.00	0.00

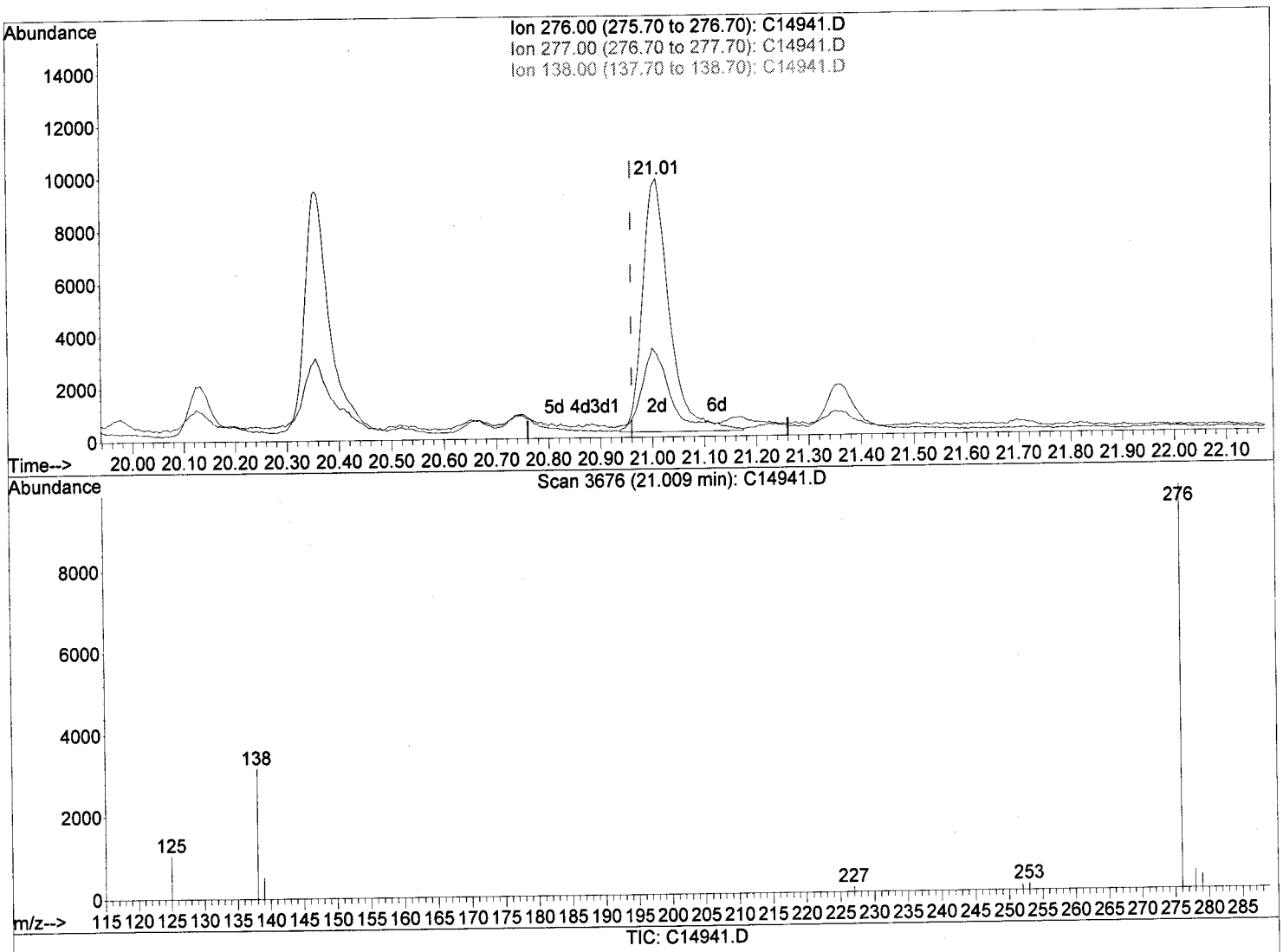
8781

Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14941.D
Acq On : 12/19/11 17:41
Sample : F4XQ7
Misc : S-4476.06 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 13 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:28:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



(25) Benzo(g,h,i)perylene

21.009min (+0.048) 0.9860ug/mL m

response 347597

Ion	Exp%	Act%
276.00	100	100
277.00	0.00	0.00
138.00	32.70	0.00#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06DL

Sample wt/vol: 60.30 (g/mL) G Lab File ID: C14950

Extraction: (Type) SONC

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/20/2011

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	U
91-57-6	2-Methylnaphthalene	13	U
208-96-8	Acenaphthylene	12	DJ
83-32-9	Acenaphthene	13	U
86-73-7	Fluorene	13	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	22	D
120-12-7	Anthracene	19	D
206-44-0	Fluoranthene	89	D
129-00-0	Pyrene	79	D
56-55-3	Benzo(a)anthracene	44	D
218-01-9	Chrysene	54	D
205-99-2	Benzo(b)fluoranthene	47	D
207-08-9	Benzo(k)fluoranthene	16	D
50-32-8	Benzo(a)pyrene	34	D
193-39-5	Indeno(1,2,3-cd)pyrene	23	D
53-70-3	Dibenzo(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	23	D

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 21 13:45:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration

12/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.40	136	133170	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.19	164	85980	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.60	188	159231	0.4000 ug/mL	0.00
15) Chrysene-d12	15.89	240	106754	0.4000 ug/mL	0.00
19) Perylene-d12	18.17	264	137200	0.4000 ug/mL	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.48	152	14935	0.0726 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 18.15%	
13) Fluoranthene-d10	13.54	212	33033	0.0942 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 23.55%	
Target Compounds					Qvalue
6) Acenaphthylene	8.96	152	33314	0.0949 ug/mL#	91
11) Phenanthrene	11.63	178	61573	0.1699 ug/mL	99
12) Anthracene	11.72	178	52448	0.1430 ug/mL#	87
14) Fluoranthene	13.57	202	234937	0.6788 ug/mL	99
16) Benzo(a)anthracene	15.88	228	100020	0.3345 ug/mL#	77
17) Chrysene	15.93	228	125830	0.4068 ug/mL#	87
18) Pyrene	13.93	202	273583	0.6012 ug/mL	93
20) Benzo(b)fluoranthene	17.54	252	134086	0.3578 ug/mL#	90
21) Benzo(k)fluoranthene	17.57	252	54474	0.1235 ug/mL#	84
22) Benzo(a)pyrene	18.07	252	101082	0.2601 ug/mL	97
24) Indeno(1,2,3-cd)pyrene	20.35	276	54247	0.1750 ug/mL#	88
25) Benzo(g,h,i)perylene	20.99	276	59576	0.1713 ug/mL#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

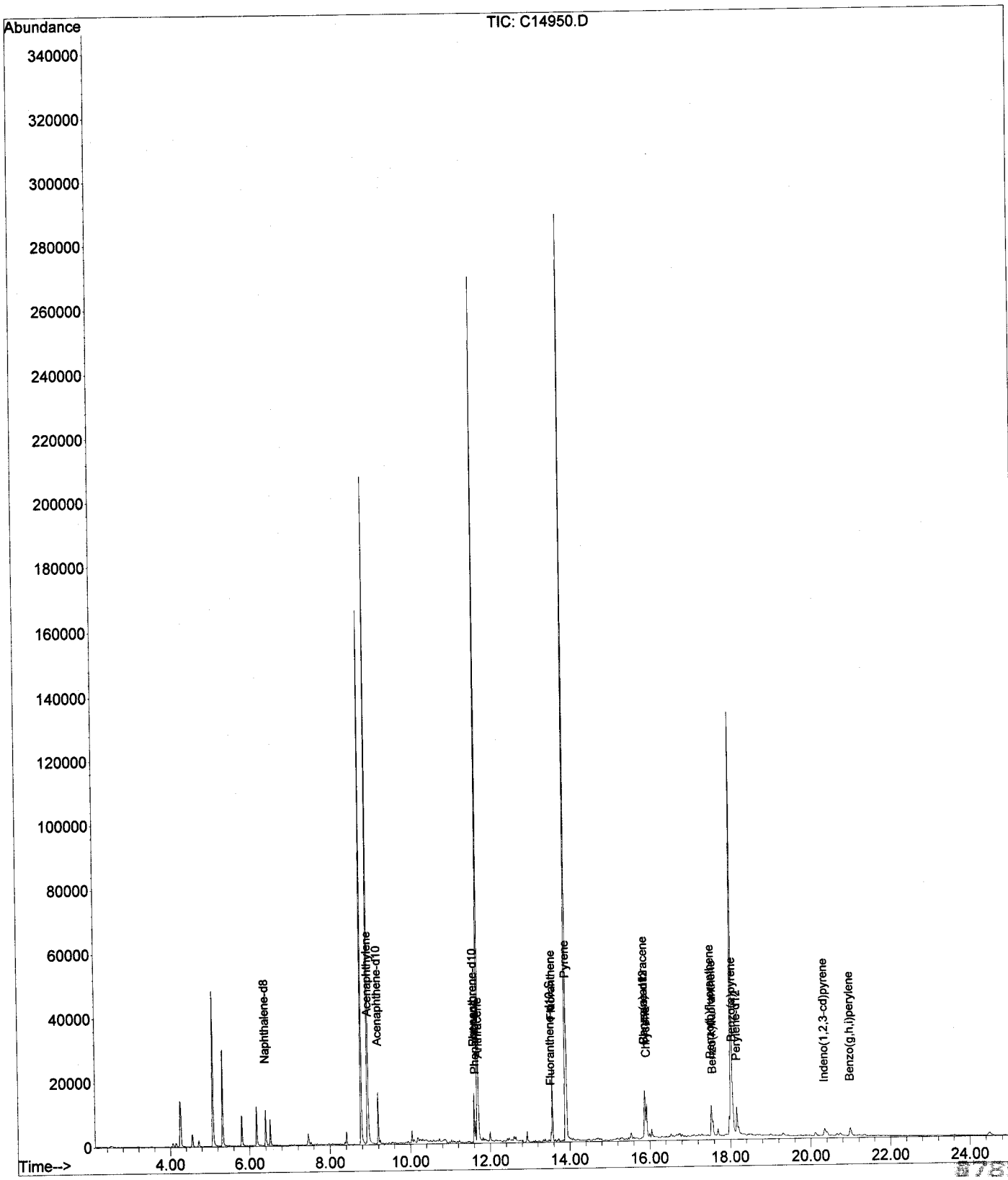
8784

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

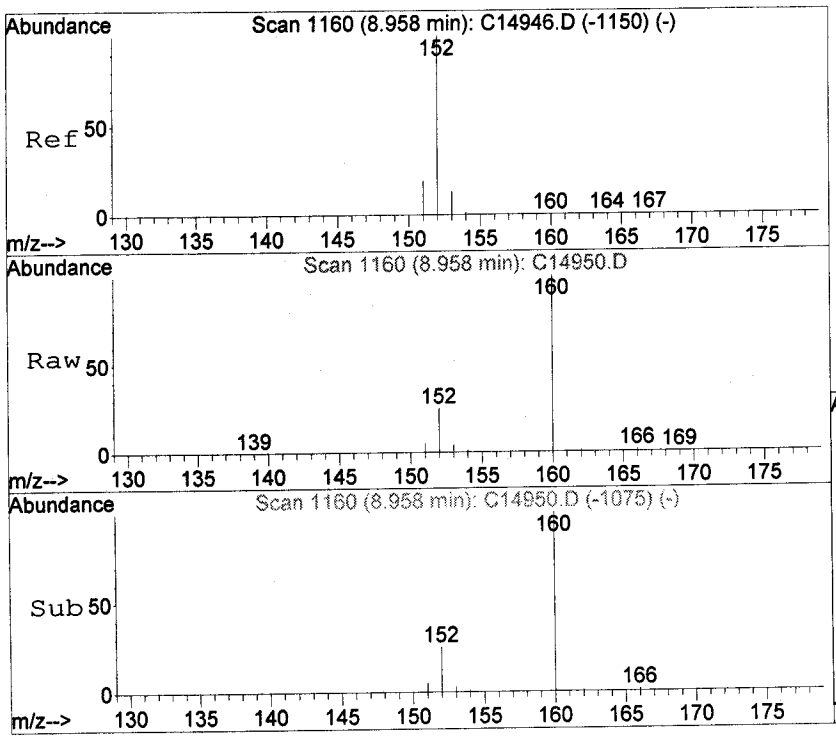
Operator: SK
Inst : C5975

Quant Time: Dec 21 13:45:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration



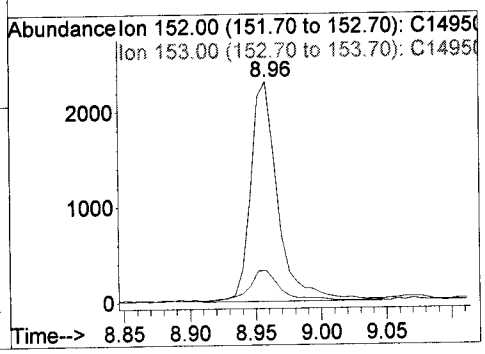
Data File : C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

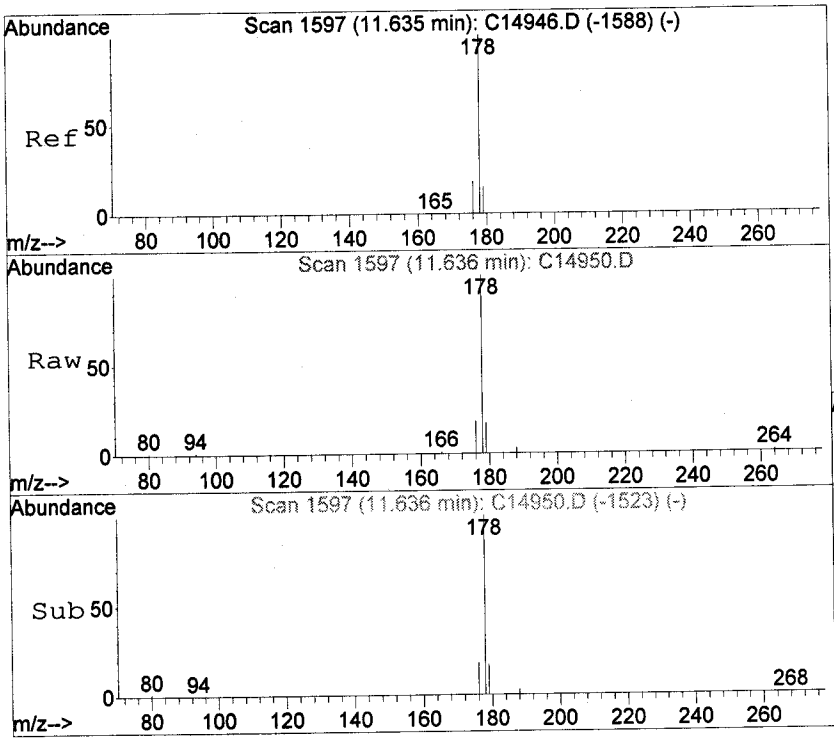
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#6
Acenaphthylene
Concen: 0.09 ug/mL
RT: 8.96 min Scan# 1160
Delta R.T. 0.00 min
Integration Range:
Scan=1152 to 1175
R.T.= 8.91 to 9.05 (min)
Tgt Ion:152 Resp: 33314

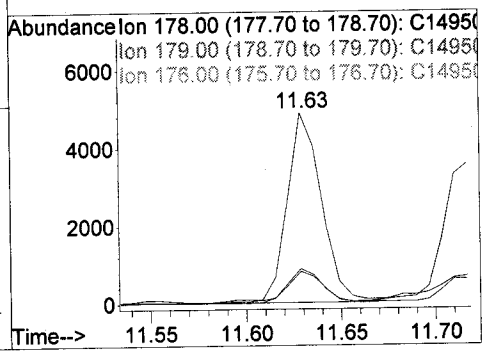
Ion	Ratio	Lower	Upper
152	100		
153	16.8	10.5	15.7#



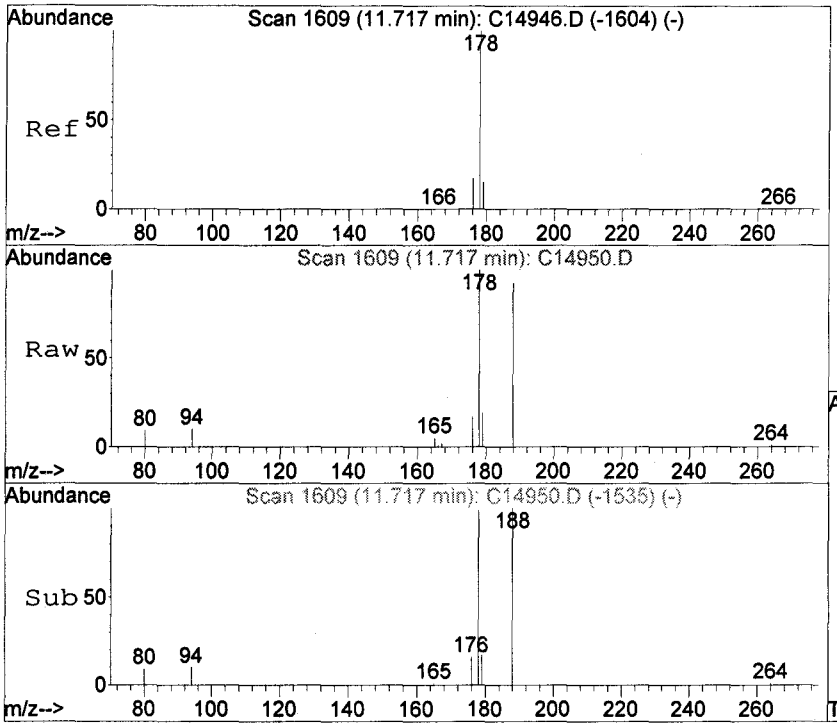


#11
Phenanthrene
Concen: 0.17 ug/mL
RT: 11.63 min Scan# 1597
Delta R.T. -0.00 min
Integration Range:
Scan=1589 to 1602
R.T.= 11.58 to 11.67 (min)
Tgt Ion:178 Resp: 61573

Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.2	18.4
176	18.5	14.5	21.7

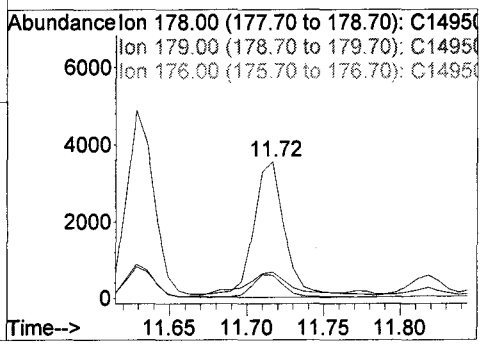


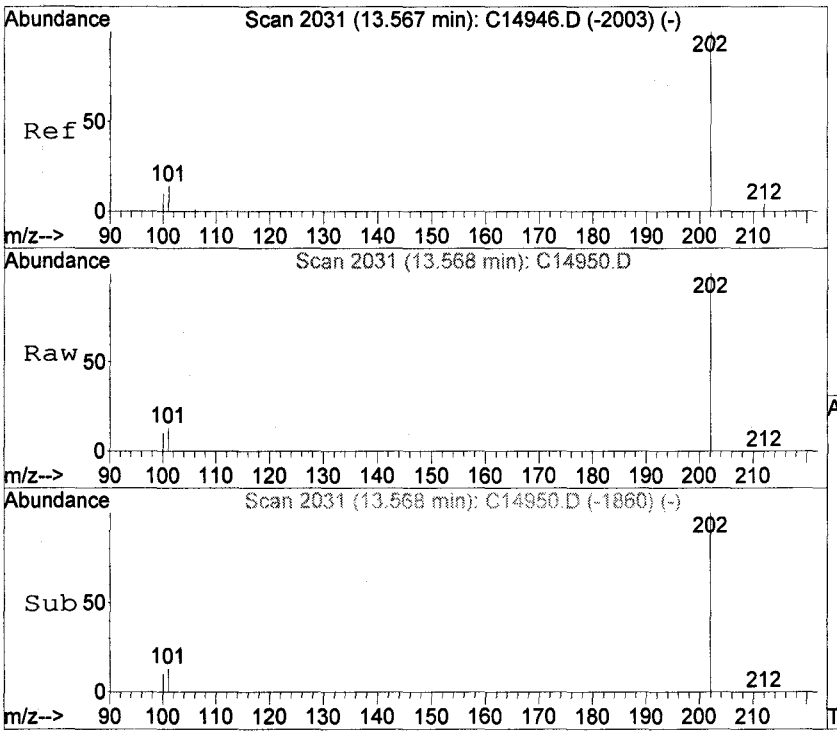
Data File : C:\MSDCHEM\1\DATA\C14950.D Vial: 6
Acq On : 12/20/11 12:44 Operator: SK
Sample : F4XQ7DL 5X Inst : C5975
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: LSCINT.E



#12
Anthracene
Concen: 0.14 ug/mL
RT: 11.72 min Scan# 1609
Delta R.T. -0.00 min
Integration Range:
Scan=1602 to 1619
R.T.= 11.67 to 11.78 (min)
Tgt Ion:178 Resp: 52448

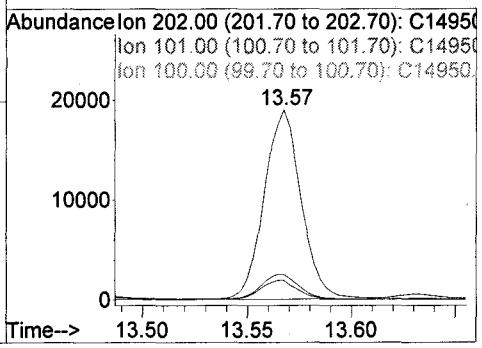
Ion	Ratio	Lower	Upper
178	100		
179	26.4	12.4	18.6#
176	18.0	13.8	20.8





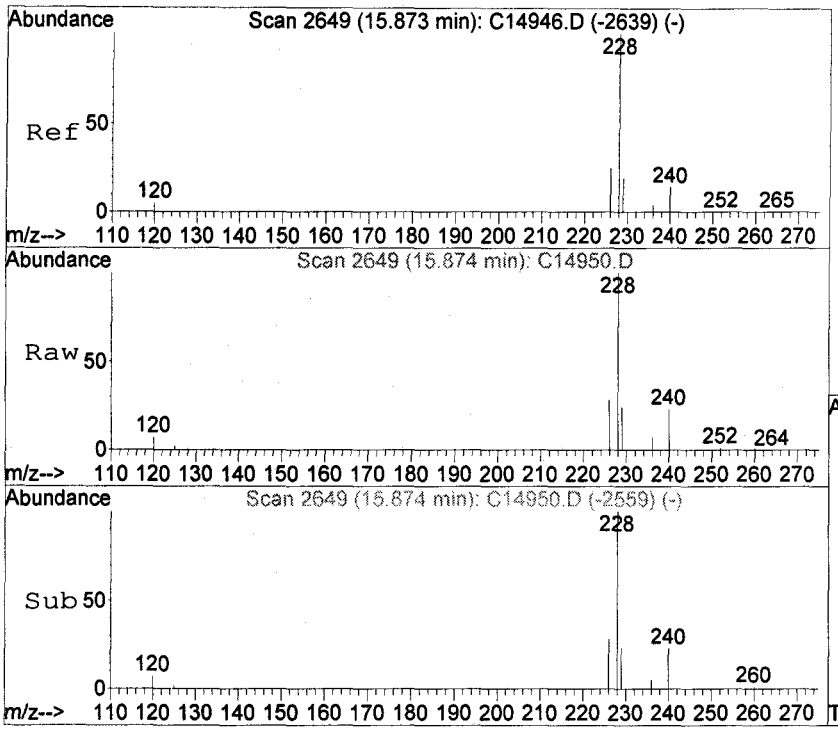
#14
Fluoranthene
Concen: 0.68 ug/mL
RT: 13.57 min Scan# 2031
Delta R.T. 0.00 min
Integration Range:
Scan=2018 to 2047
R.T.= 13.53 to 13.61 (min)
Tgt Ion:202 Resp: 234937

Ion	Ratio	Lower	Upper
202	100		
101	14.0	11.5	17.3
100	10.7	8.8	13.2



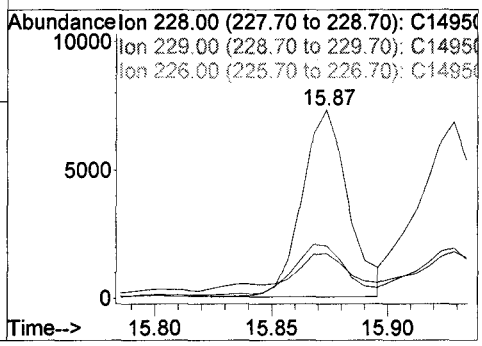
Data File : C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

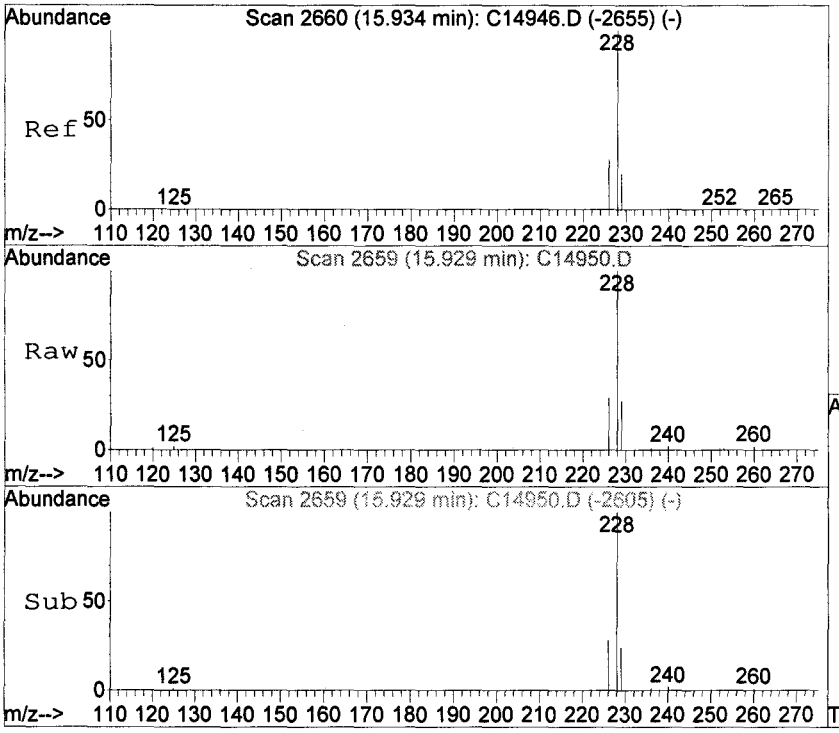
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.33 ug/mL
RT: 15.88 min Scan# 2649
Delta R.T. -0.00 min
Integration Range:
Scan=2640 to 2653
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 100020

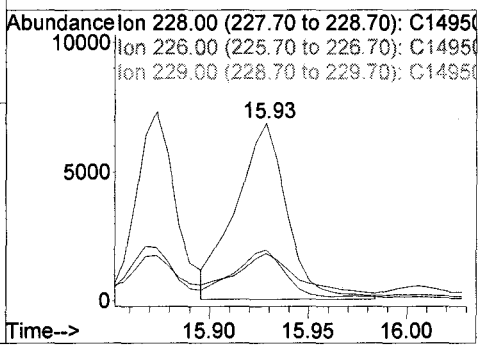
Ion	Ratio	Lower	Upper
228	100		
229	35.0	15.8	23.8#
226	33.4	20.5	30.7#





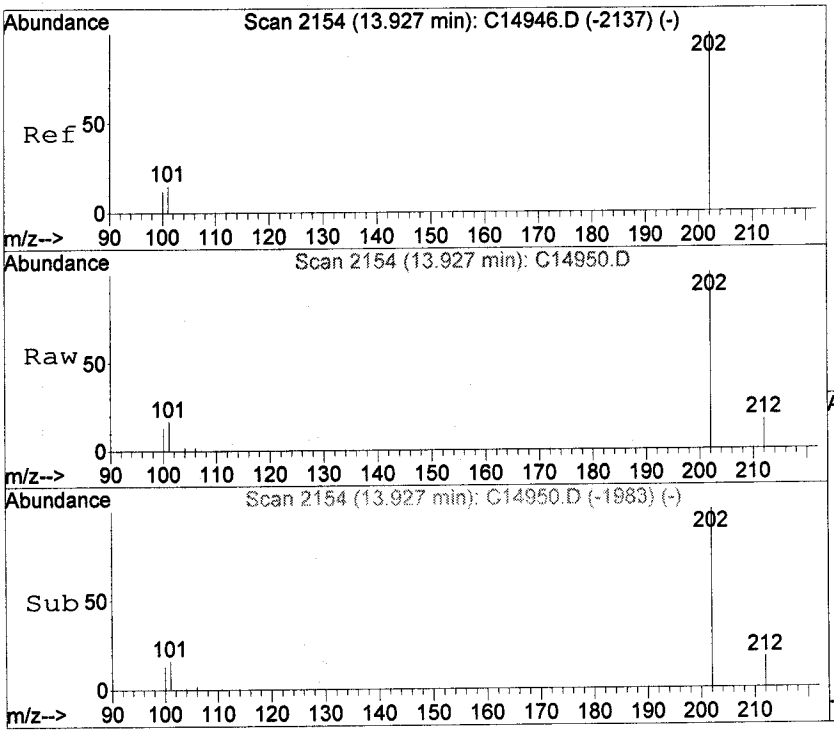
#17
Chrysene
Concen: 0.41 ug/mL
RT: 15.93 min Scan# 2659
Delta R.T. -0.00 min
Integration Range:
Scan=2653 to 2669
R.T.= 15.90 to 15.98 (min)
Tgt Ion:228 Resp: 125830

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.8	34.2
229	33.8	15.9	23.9#



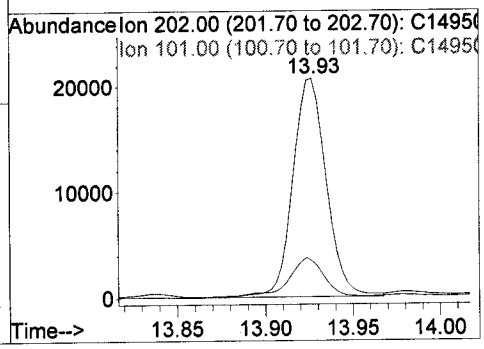
Data File : C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

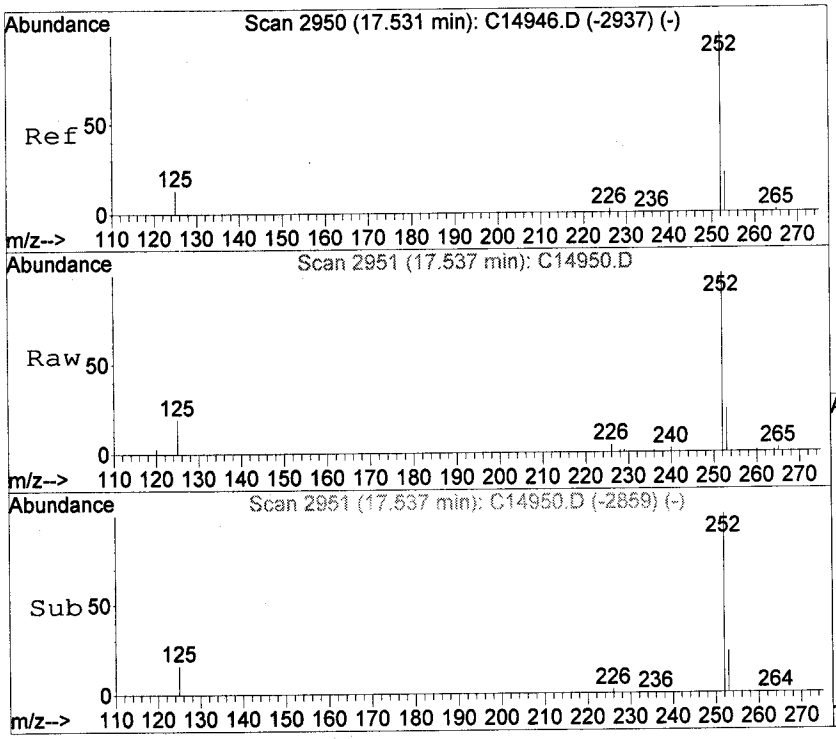
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.60 ug/mL
RT: 13.93 min Scan# 2154
Delta R.T. 0.00 min
Integration Range:
Scan=2134 to 2168
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 273583

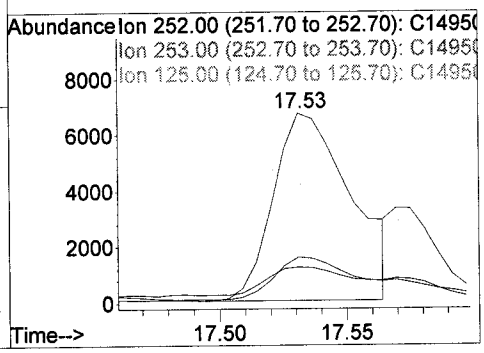
Ion	Ratio	Lower	Upper
202	100		
101	19.7	13.2	19.8





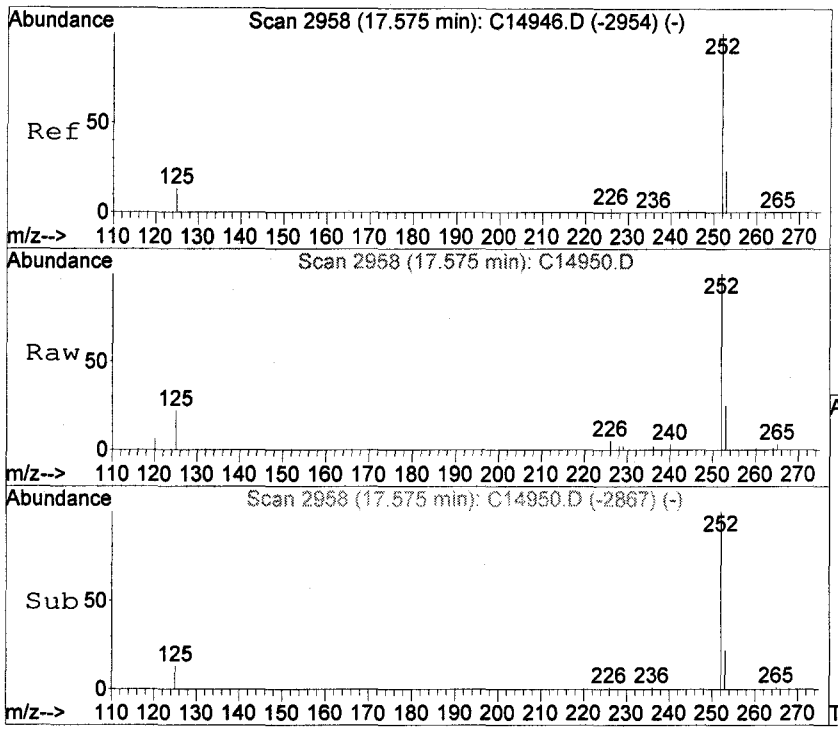
#20
Benzo(b)fluoranthene
Concen: 0.36 ug/mL
RT: 17.54 min Scan# 2951
Delta R.T. 0.00 min
Integration Range:
Scan=2943 to 2956
R.T.= 17.49 to 17.56 (min)
Tgt Ion:252 Resp: 134086

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	23.5	12.3	18.5#



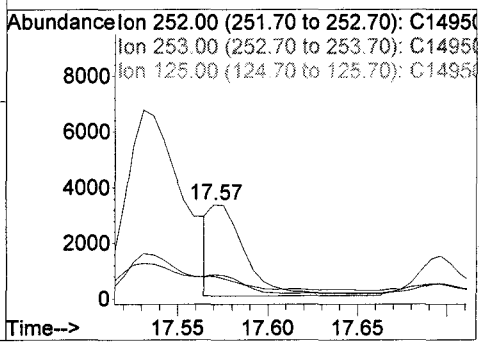
Data File : C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

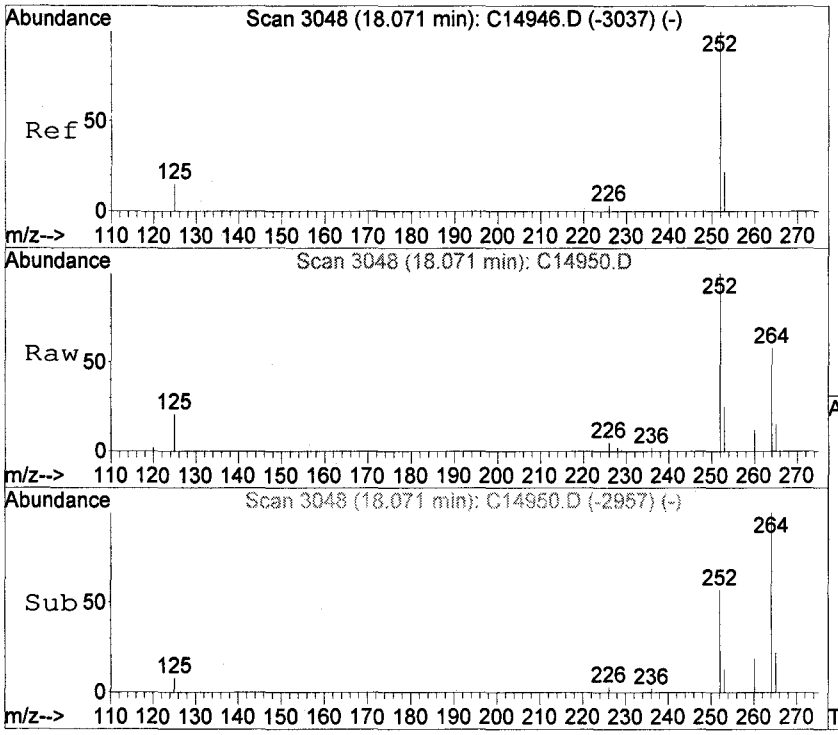
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#21
Benzo(k)fluoranthene
Concen: 0.12 ug/mL
RT: 17.57 min Scan# 2958
Delta R.T. -0.00 min
Integration Range:
Scan=2956 to 2974
R.T.= 17.56 to 17.66 (min)
Tgt Ion:252 Resp: 54474

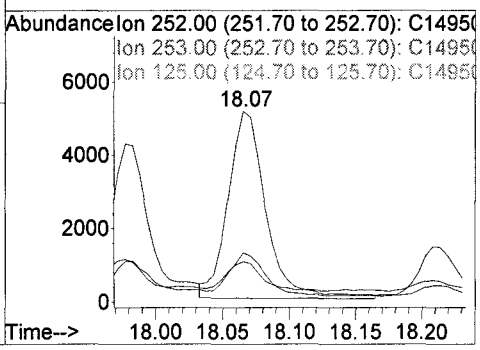
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	0.0	12.4	18.6#





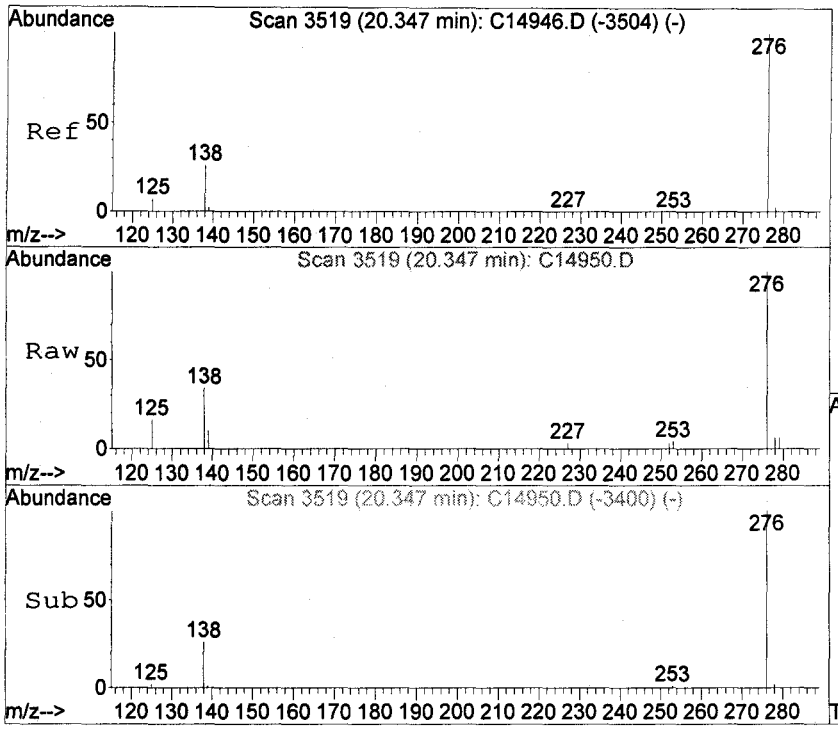
#22
Benzo(a)pyrene
Concen: 0.26 ug/mL
RT: 18.07 min Scan# 3048
Delta R.T. 0.00 min
Integration Range:
Scan=3041 to 3065
R.T.= 18.03 to 18.16 (min)
Tgt Ion:252 Resp: 101082

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	16.6	13.1	19.7



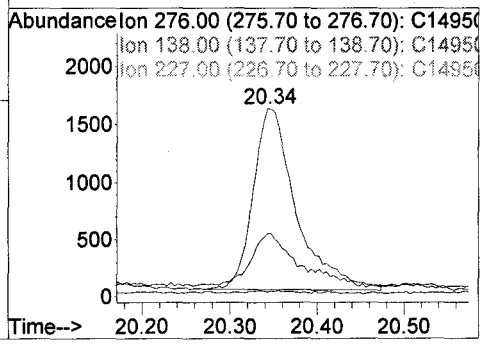
Data File : C:\MSDCHEM\1\DATA\C14950.D
Acq On : 12/20/11 12:44
Sample : F4XQ7DL 5X
Misc : S-4476.06DL 60.3G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

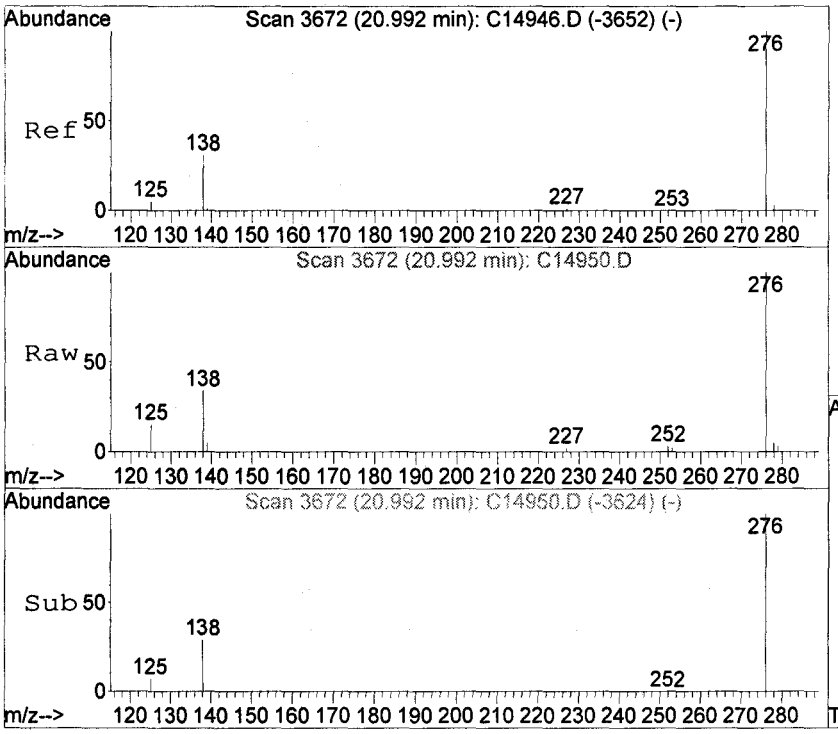
Vial: 6
Operator: SK
Inst : C5975
Multiplr: 1.00



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.17 ug/mL
RT: 20.35 min Scan# 3519
Delta R.T. 0.00 min
Integration Range:
Scan=3501 to 3549
R.T.= 20.27 to 20.47 (min)
Tgt Ion:276 Resp: 54247

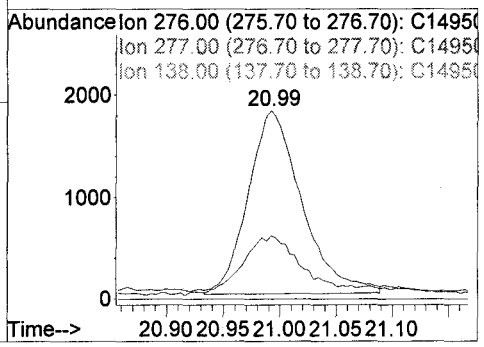
Ion	Ratio	Lower	Upper
276	100		
138	35.9	23.7	35.5#
227	1.2	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.17 ug/mL
RT: 20.99 min Scan# 3672
Delta R.T. 0.00 min
Integration Range:
Scan=3658 to 3695
R.T.= 20.93 to 21.09 (min)
Tgt Ion:276 Resp: 59576

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	30.7	26.2	39.2



1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.07

Sample wt/vol: 80.70 (g/mL) G Lab File ID: C14942

Extraction: (Type) SONC

% Moisture: 62 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.2	J
91-57-6	2-Methylnaphthalene	3.2	U
208-96-8	Acenaphthylene	3.1	J
83-32-9	Acenaphthene	3.2	U
86-73-7	Fluorene	3.2	U
87-86-5	Pentachlorophenol	6.6	U
85-01-8	Phenanthrene	4.6	
120-12-7	Anthracene	3.2	U
206-44-0	Fluoranthene	9.4	
129-00-0	Pyrene	9.5	
56-55-3	Benzo(a)anthracene	5.5	
218-01-9	Chrysene	7.1	
205-99-2	Benzo(b)fluoranthene	7.8	
207-08-9	Benzo(k)fluoranthene	3.2	U
50-32-8	Benzo(a)pyrene	5.9	
193-39-5	Indeno(1,2,3-cd)pyrene	6.1	
53-70-3	Dibenzo(a,h)anthracene	3.2	U
191-24-2	Benzo(g,h,i)perylene	9.3	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:29:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

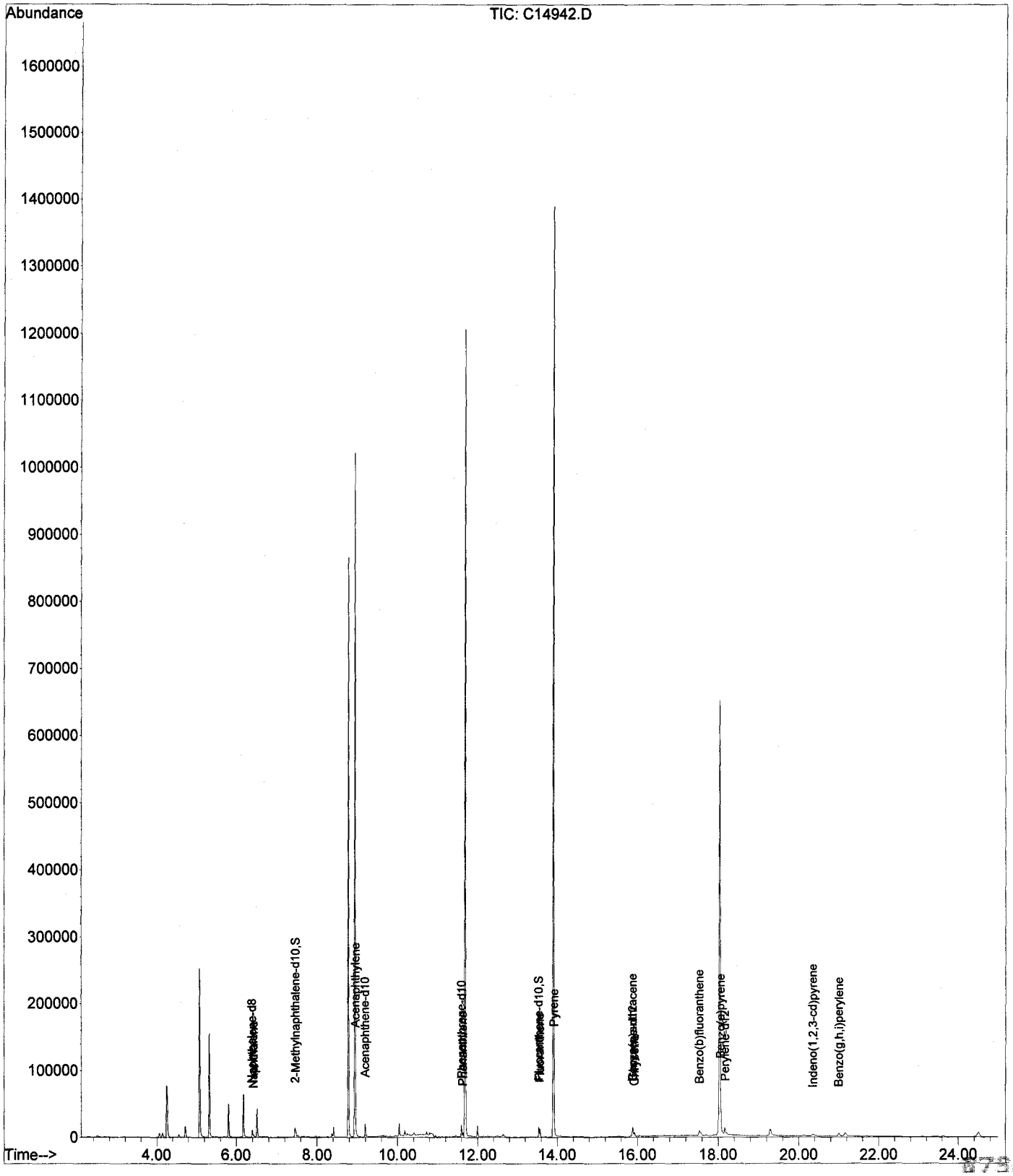
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	125668	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	97278	0.4000	ug/mL	0.01
9) Phenanthrene-d10	11.60	188	186621	0.4000	ug/mL	0.01
15) Chrysene-d12	15.89	240	118713	0.4000	ug/mL	0.01
19) Perylene-d12	18.17	264	138047m	0.4000	ug/mL	0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	74244	0.3825	ug/mL	0.00
Spiked Amount 0.400			Recovery =	95.63%		
13) Fluoranthene-d10	13.54	212	152428	0.3708	ug/mL	0.01
Spiked Amount 0.400			Recovery =	92.70%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	31859	0.0980	ug/mL#	91
6) Acenaphthylene	8.96	152	37683	0.0948	ug/mL#	79
11) Phenanthrene	11.64	178	60278	0.1419	ug/mL#	93
14) Fluoranthene	13.57	202	116323	0.2868	ug/mL	98
16) Benzo(a)anthracene	15.88	228	56555	0.1701	ug/mL#	62
17) Chrysene	15.93	228	75356	0.2191	ug/mL#	82
18) Pyrene	13.93	202	147045	0.2906	ug/mL#	77
20) Benzo(b)fluoranthene	17.54	252	90257	0.2394	ug/mL#	85
22) Benzo(a)pyrene	18.07	252	70266m	0.1797	ug/mL	
24) Indeno(1,2,3-cd)pyrene	20.35	276	58401m	0.1872	ug/mL	
25) Benzo(g,h,i)perylene	21.00	276	100109m	0.2861	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

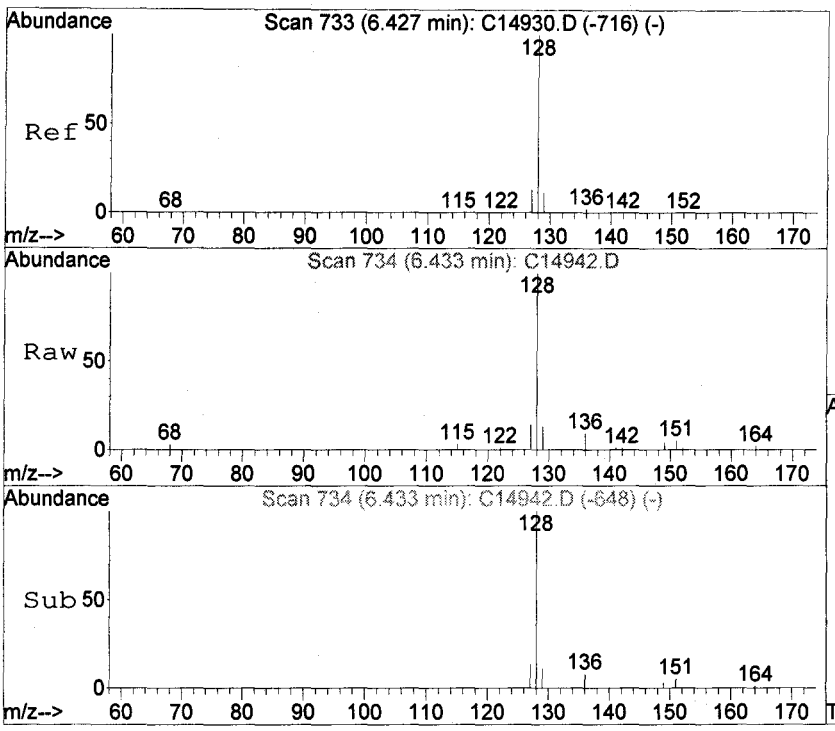
Data File: C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12 Operator: SK
Sample : F4XQ8 Inst : C5975
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 20 10:29:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



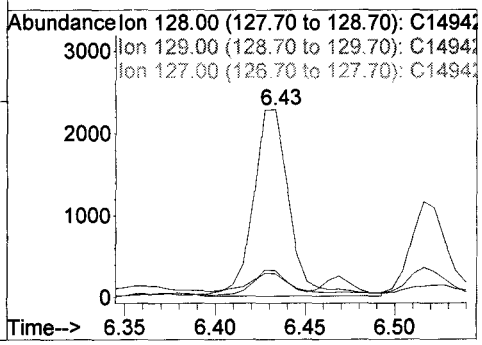
Data File : C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

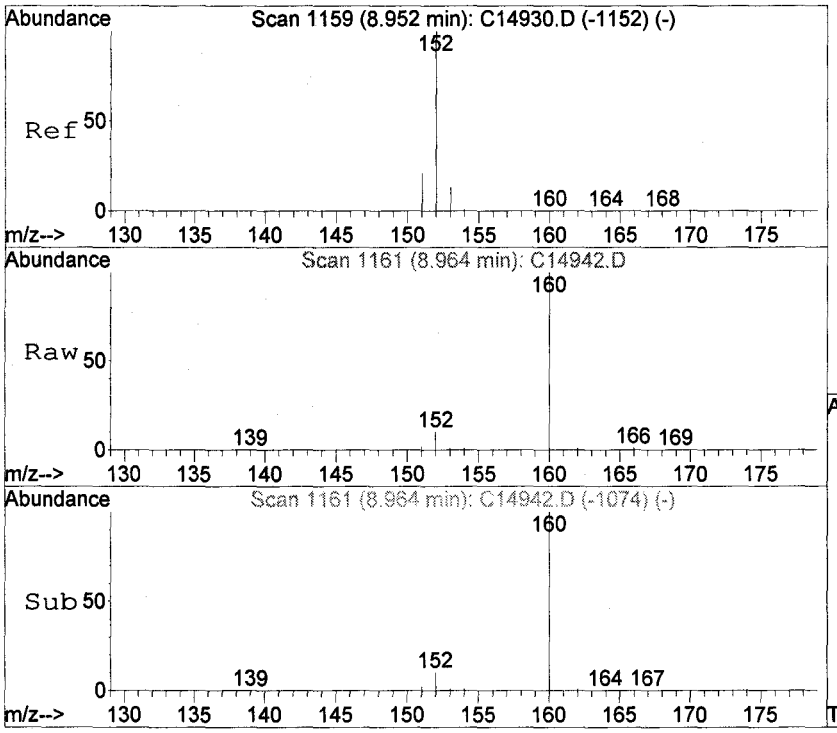
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.10 ug/mL
RT: 6.43 min Scan# 734
Delta R.T. 0.01 min
Integration Range:
Scan=727 to 744
R.T.= 6.39 to 6.49 (min)
Tgt Ion:128 Resp: 31859

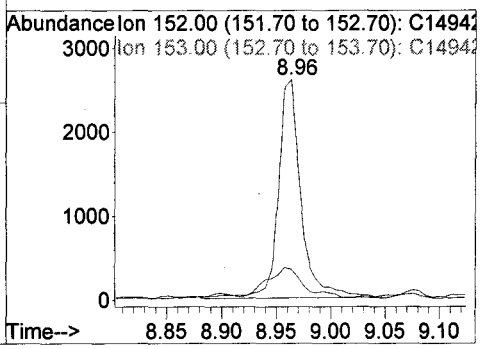
Ion	Ratio	Lower	Upper
128	100		
129	18.2	8.8	13.2#
127	13.2	10.7	16.1





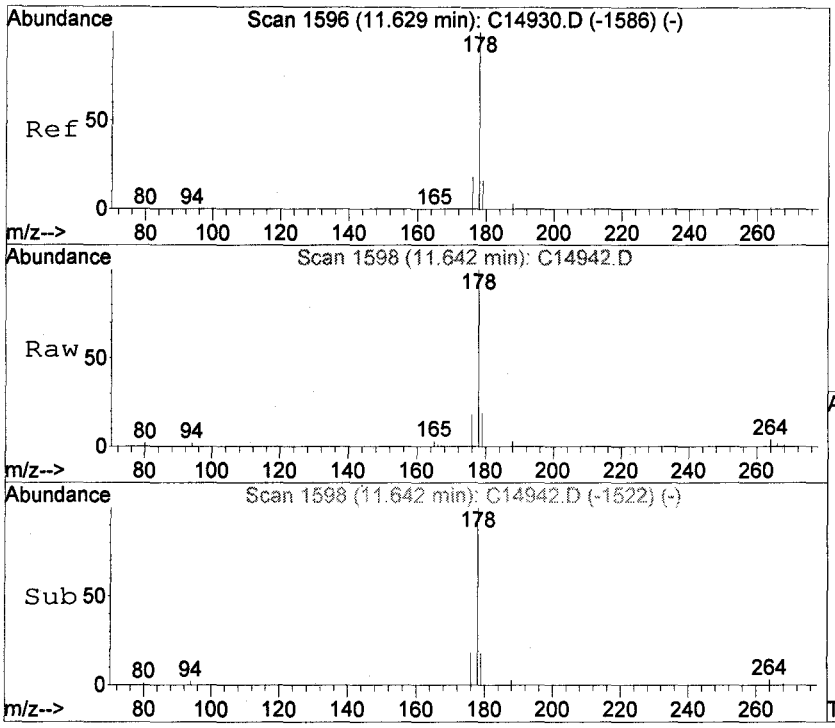
#6
Acenaphthylene
Concen: 0.09 ug/mL
RT: 8.96 min Scan# 1161
Delta R.T. 0.01 min
Integration Range:
Scan=1147 to 1175
R.T.= 8.88 to 9.05 (min)
Tgt Ion:152 Resp: 37683

Ion	Ratio	Lower	Upper
152	100		
153	21.5	10.5	15.7#



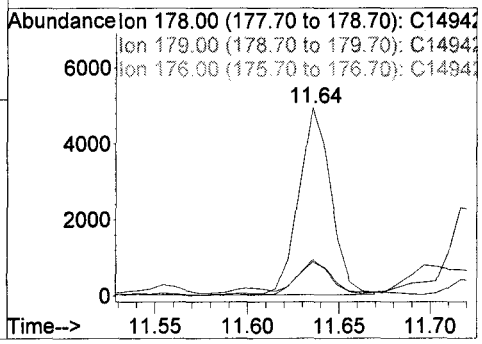
Data File : C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

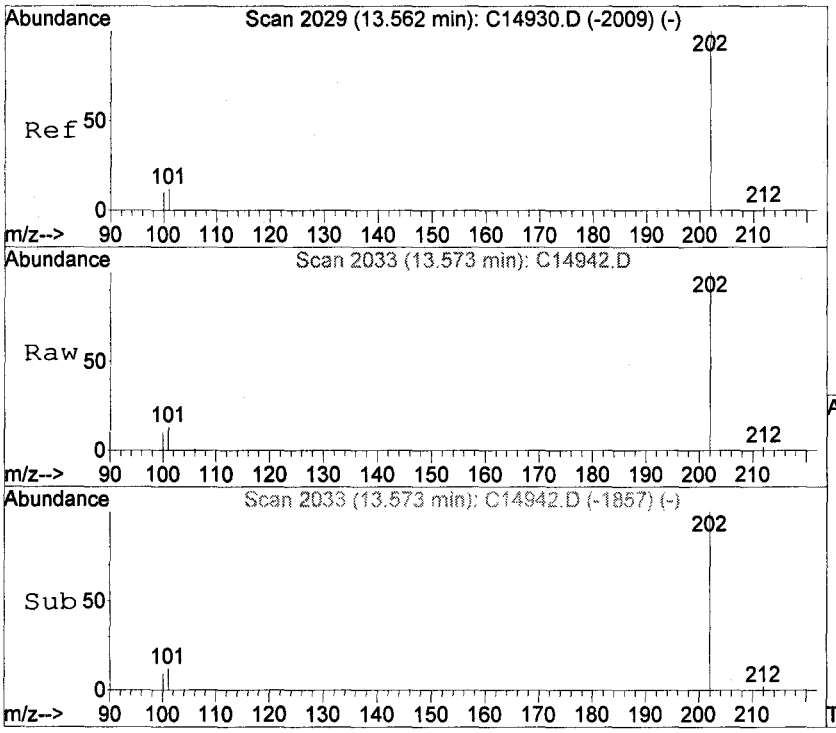
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#11
Phenanthrene
Concen: 0.14 ug/mL
RT: 11.64 min Scan# 1598
Delta R.T. 0.01 min
Integration Range:
Scan=1588 to 1602
R.T.= 11.57 to 11.67 (min)
Tgt Ion:178 Resp: 60278

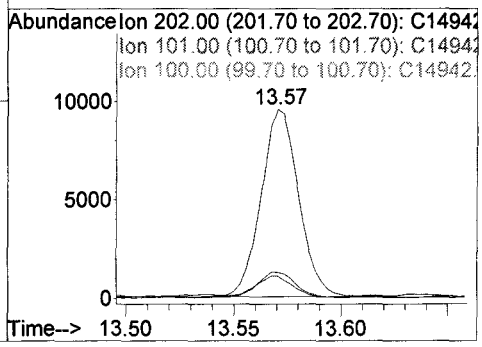
Ion	Ratio	Lower	Upper
178	100		
179	17.6	12.2	18.4
176	21.8	14.5	21.7#





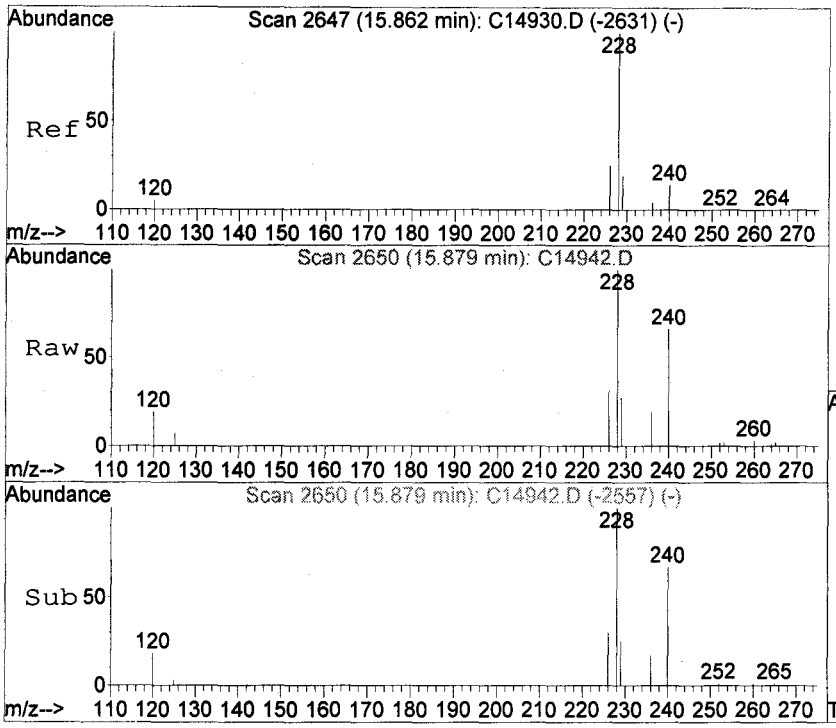
#14
Fluoranthene
Concen: 0.29 ug/mL
RT: 13.57 min Scan# 2033
Delta R.T. 0.01 min
Integration Range:
Scan=2020 to 2048
R.T.= 13.54 to 13.62 (min)
Tgt Ion:202 Resp: 116323

Ion	Ratio	Lower	Upper
202	100		
101	14.6	11.5	17.3
100	12.2	8.8	13.2



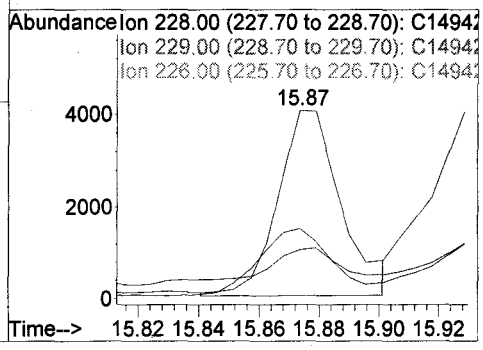
Data File : C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

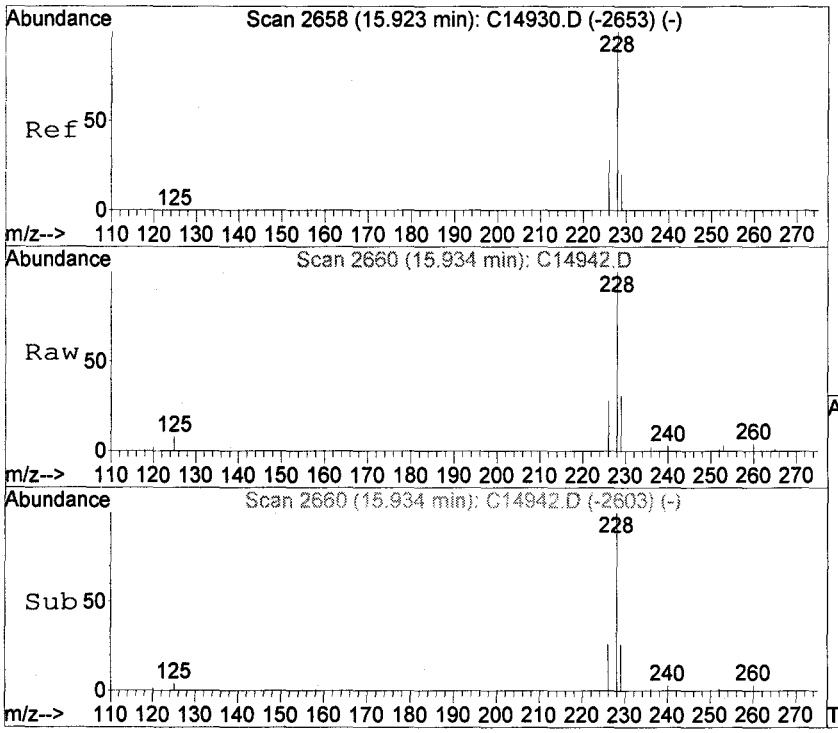
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#16
Benzo(a)anthracene
Concen: 0.17 ug/mL
RT: 15.88 min Scan# 2650
Delta R.T. 0.01 min
Integration Range:
Scan=2643 to 2654
R.T.= 15.84 to 15.90 (min)
Tgt Ion:228 Resp: 56555

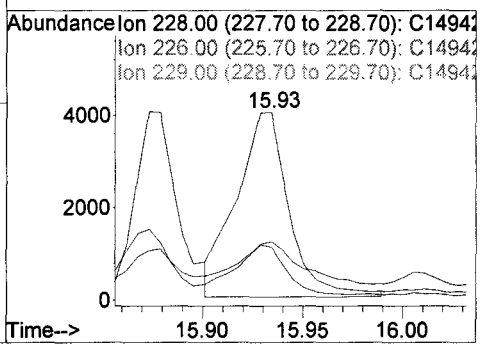
Ion	Ratio	Lower	Upper
228	100		
229	36.2	15.8	23.8#
226	45.9	20.5	30.7#





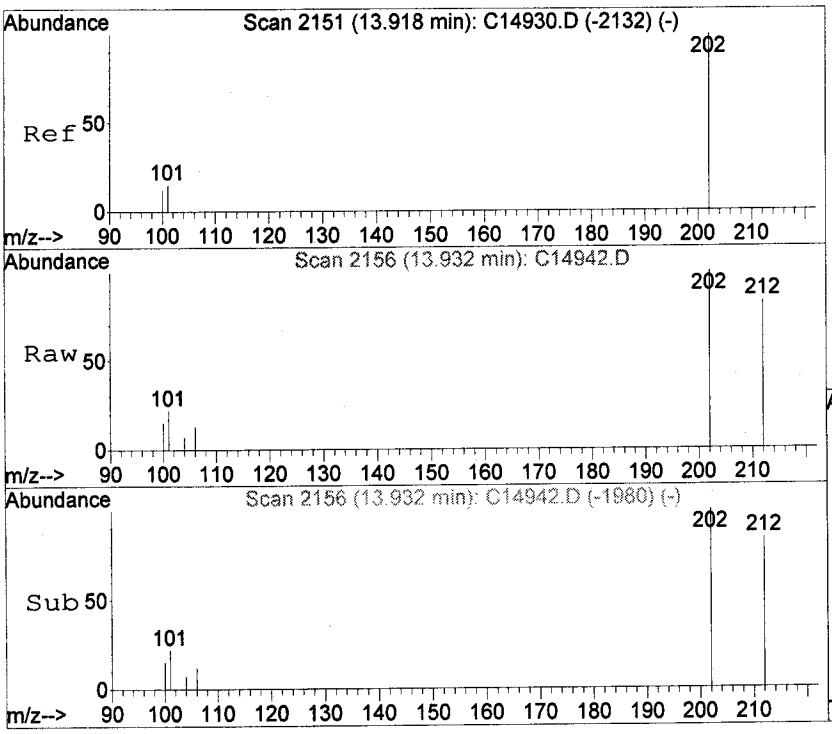
#17
Chrysene
Concen: 0.22 ug/mL
RT: 15.93 min Scan# 2660
Delta R.T. 0.01 min
Integration Range:
Scan=2654 to 2670
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 75356

Ion	Ratio	Lower	Upper
228	100		
226	30.5	22.8	34.2
229	37.7	15.9	23.9#



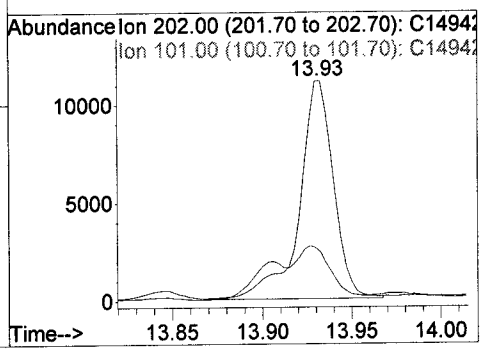
Data File : C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

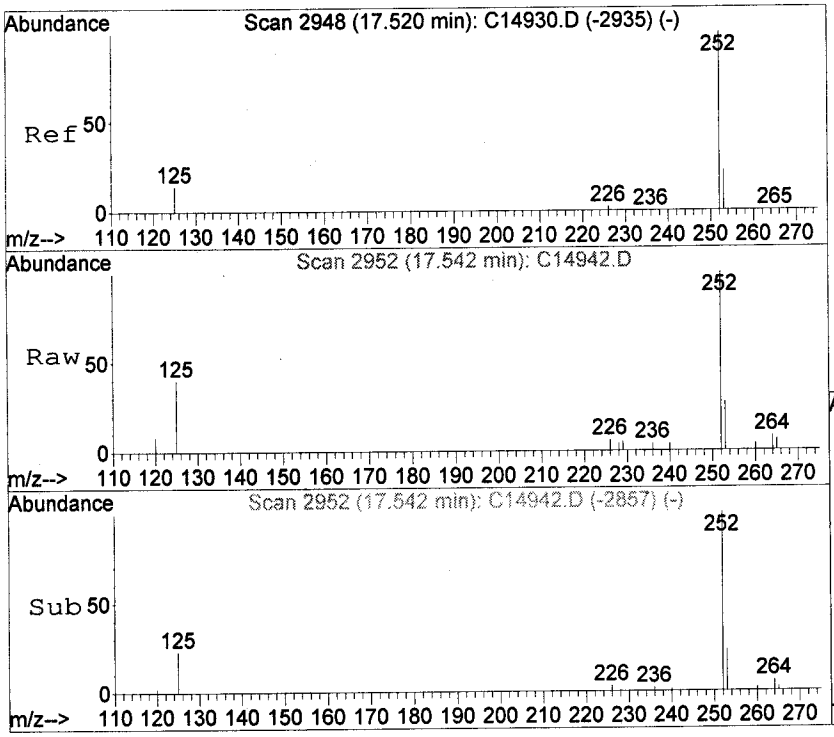
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#18
Pyrene
Concen: 0.29 ug/mL
RT: 13.93 min Scan# 2156
Delta R.T. 0.01 min
Integration Range:
Scan=2134 to 2168
R.T.= 13.87 to 13.97 (min)
Tgt Ion:202 Resp: 147045

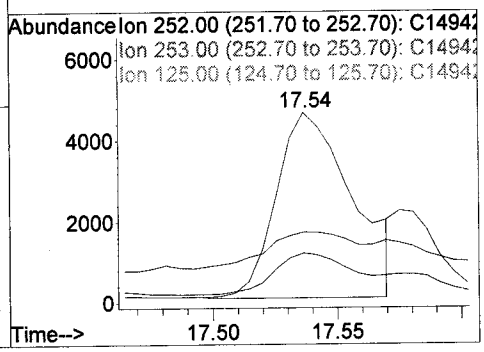
Ion	Ratio	Lower	Upper
202	100		
101	26.4	13.2	19.8#





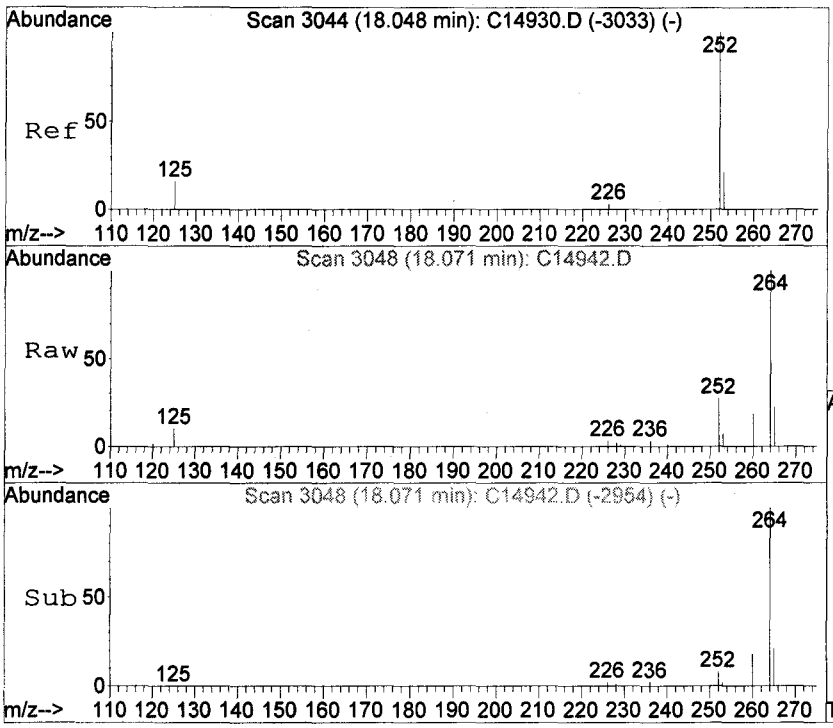
#20
Benzo(b)fluoranthene
Concen: 0.24 ug/mL
RT: 17.54 min Scan# 2952
Delta R.T. 0.02 min
Integration Range:
Scan=2944 to 2957
R.T.= 17.50 to 17.57 (min)
Tgt Ion:252 Resp: 90257

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	28.0	12.3	18.5#



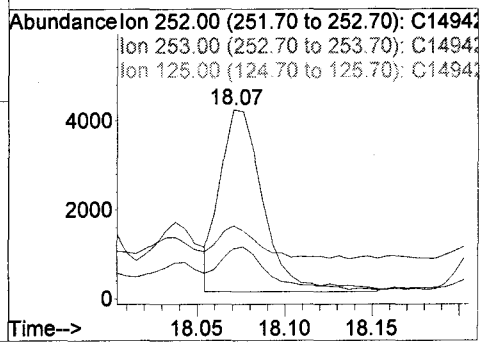
Data File : C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

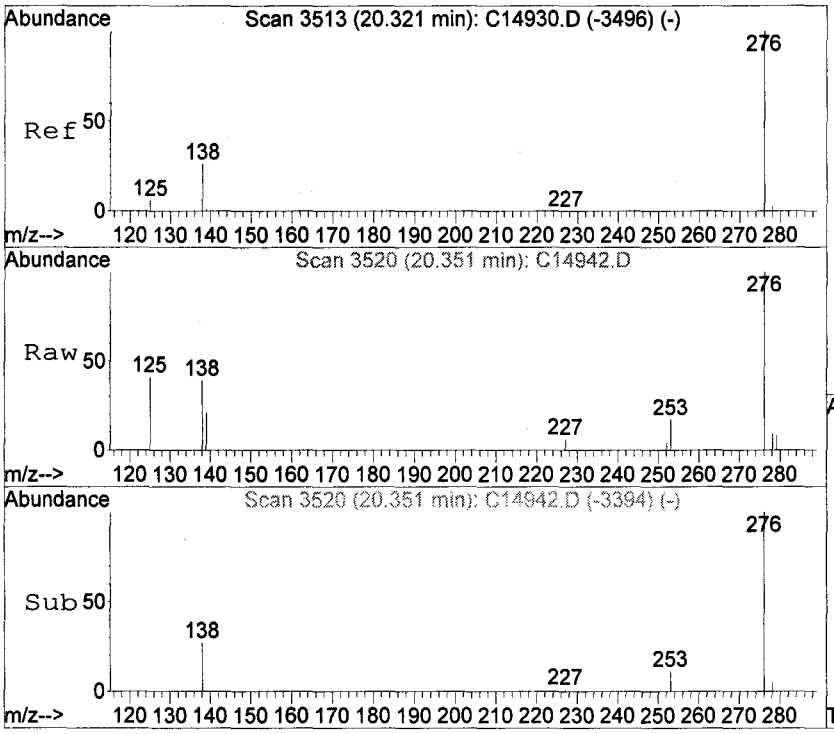
Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#22
Benzo(a)pyrene
Concen: 0.18 ug/mL m
RT: 18.07 min Scan# 3048
Delta R.T. 0.02 min
Integration Range:
Scan=3045 to 3063
R.T.= 18.05 to 18.15 (min)
Tgt Ion:252 Resp: 70266

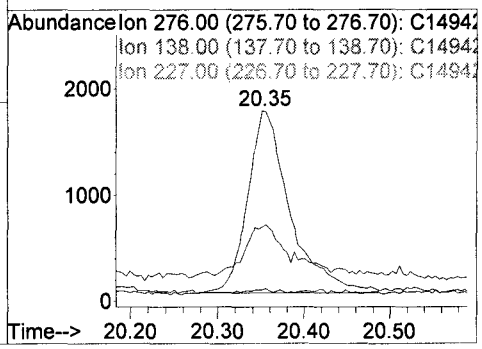
Ion	Ratio	Lower	Upper
252	100		
253	15.3	17.1	25.7#
125	13.5	13.1	19.7





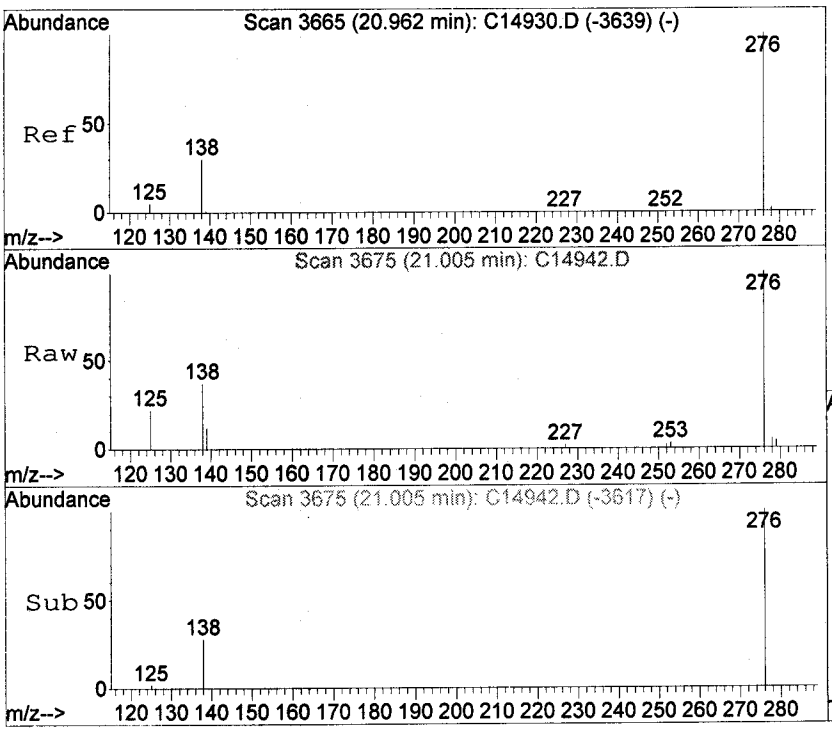
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ug/mL m
RT: 20.35 min Scan# 3520
Delta R.T. 0.03 min
Integration Range:
Scan=3504 to 3552
R.T.= 20.28 to 20.49 (min)
Tgt Ion:276 Resp: 58401

Ion	Ratio	Lower	Upper
276	100		
138	1.3	23.7	35.5#
227	0.6	0.0	0.0#



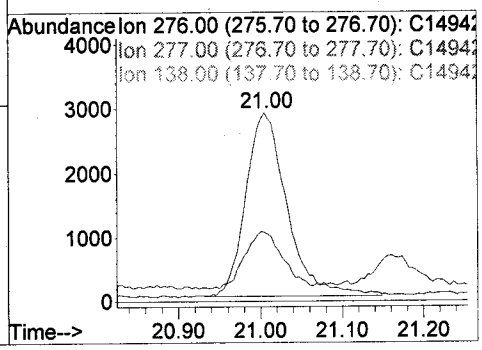
Data File : C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

Vial: 14
Operator: SK
Inst : C5975
Multiplr: 1.00



#25
Benzo(g,h,i)perylene
Concen: 0.29 ug/mL m
RT: 21.00 min Scan# 3675
Delta R.T. 0.04 min
Integration Range:
Scan=3658 to 3709
R.T.= 20.93 to 21.15 (min)
Tgt Ion:276 Resp: 100109

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	0.0	26.2	39.2#



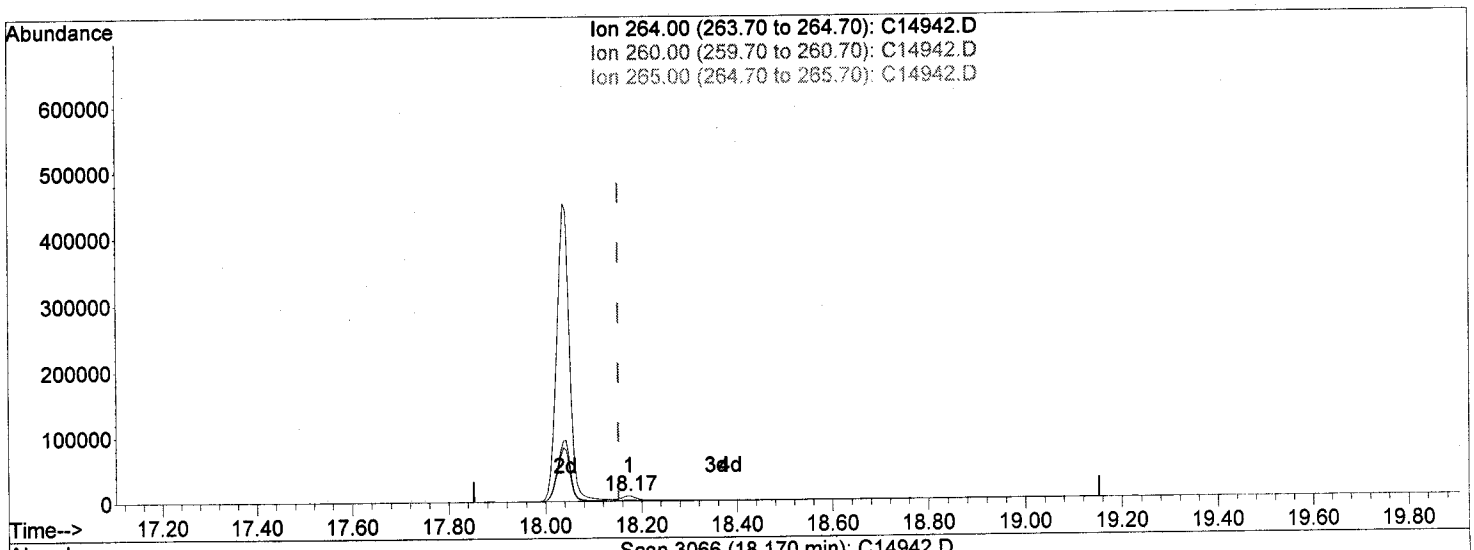
Quantitation Report (Qedit)

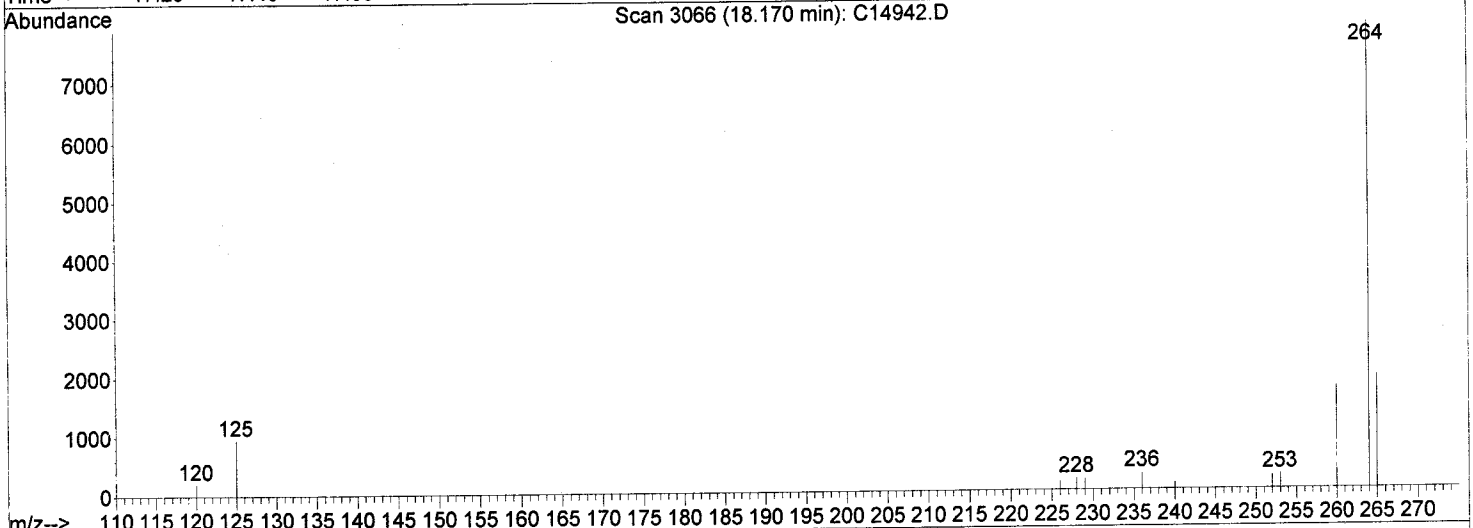
Data File: C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:29:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14942.D

(19) Perylene-d12

18.170min (+0.017) 0.4000ug/mL m

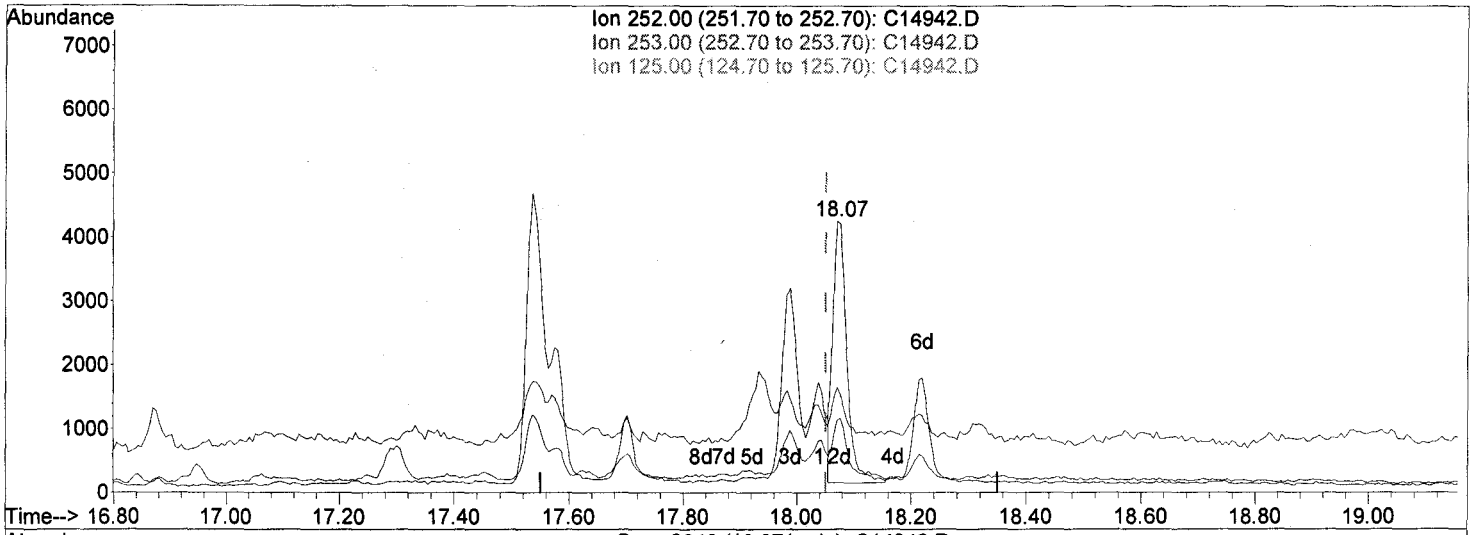
response 138047

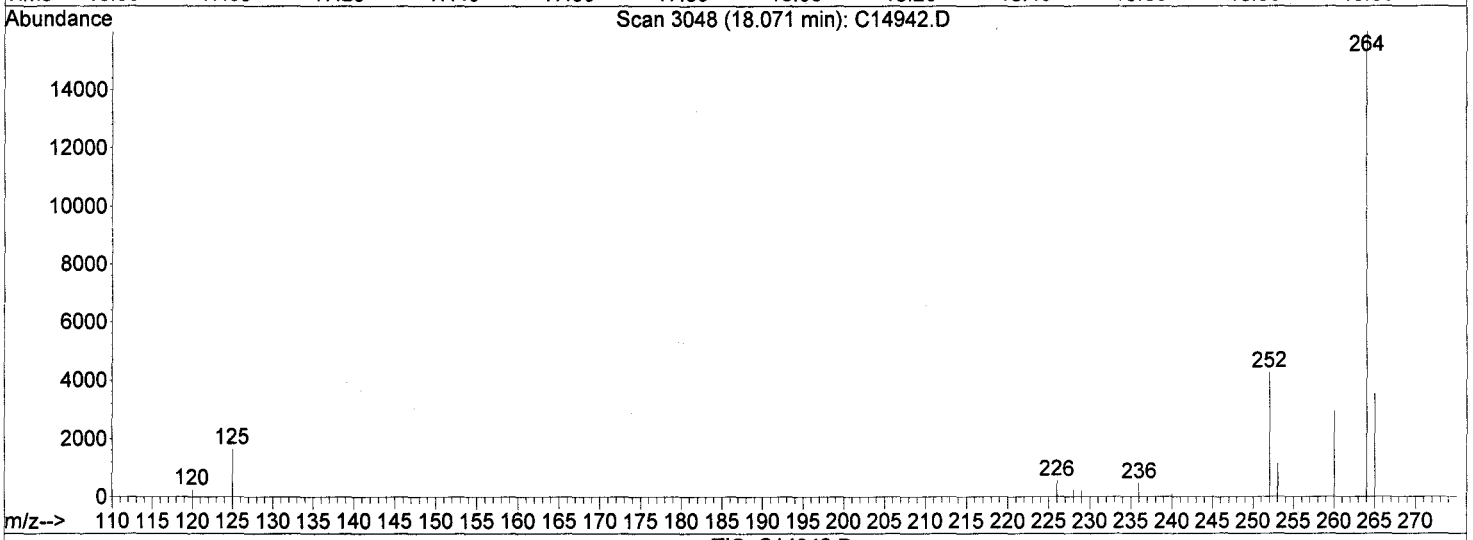
Ion	Exp%	Act%
264.00	100	100
260.00	21.90	31.95#
265.00	21.10	31.40#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12 Operator: SK
Sample : F4XQ8 Inst : C5975
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 20 10:29:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration





TIC: C14942.D

(22) Benzo(a)pyrene

18.071min (+0.020) 0.1797ug/mL m

response 70266

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	15.31#
125.00	16.40	13.54
0.00	0.00	0.00

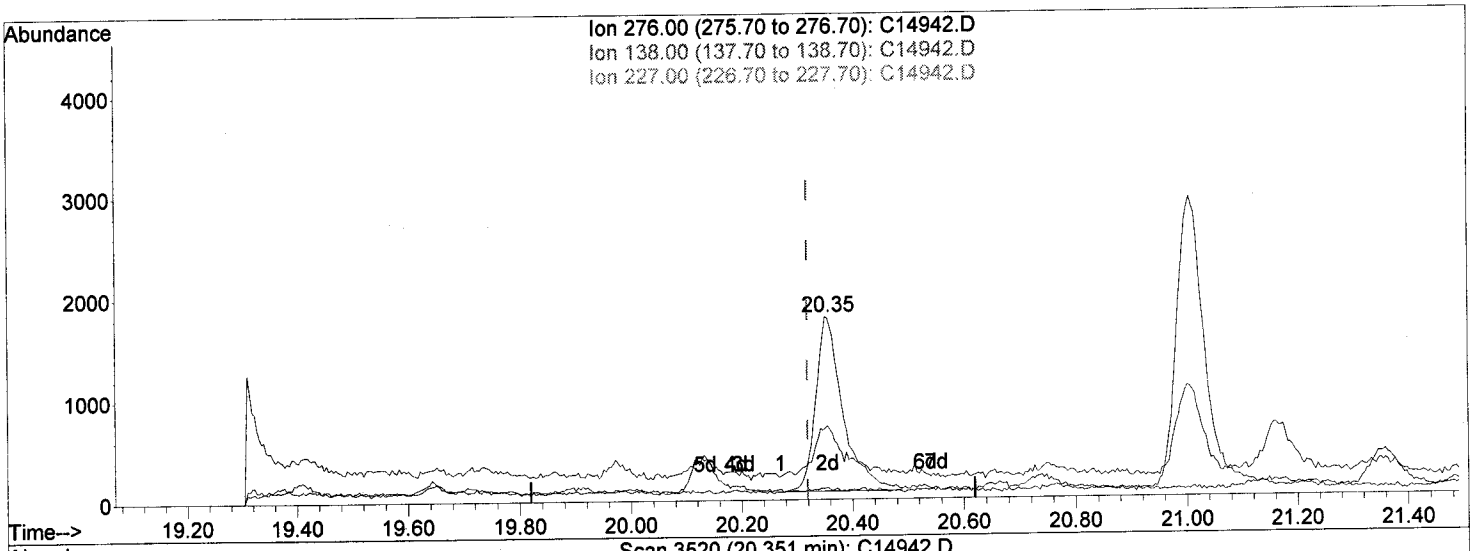
Quantitation Report (Qedit)

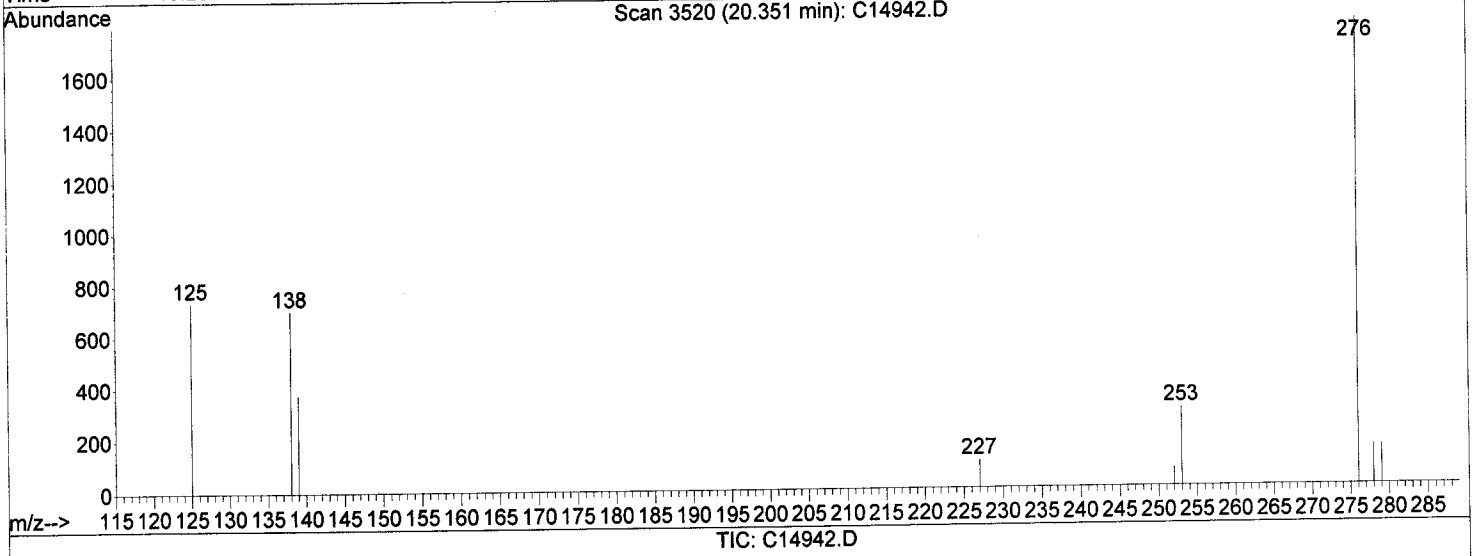
Data File: C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:29:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14942.D

(24) Indeno(1,2,3-cd)pyrene

20.351min (+0.031) 0.1872ug/mL m

response 58401

Ion	Exp%	Act%
276.00	100	100
138.00	29.60	1.33#
227.00	0.00	0.57#
0.00	0.00	0.00

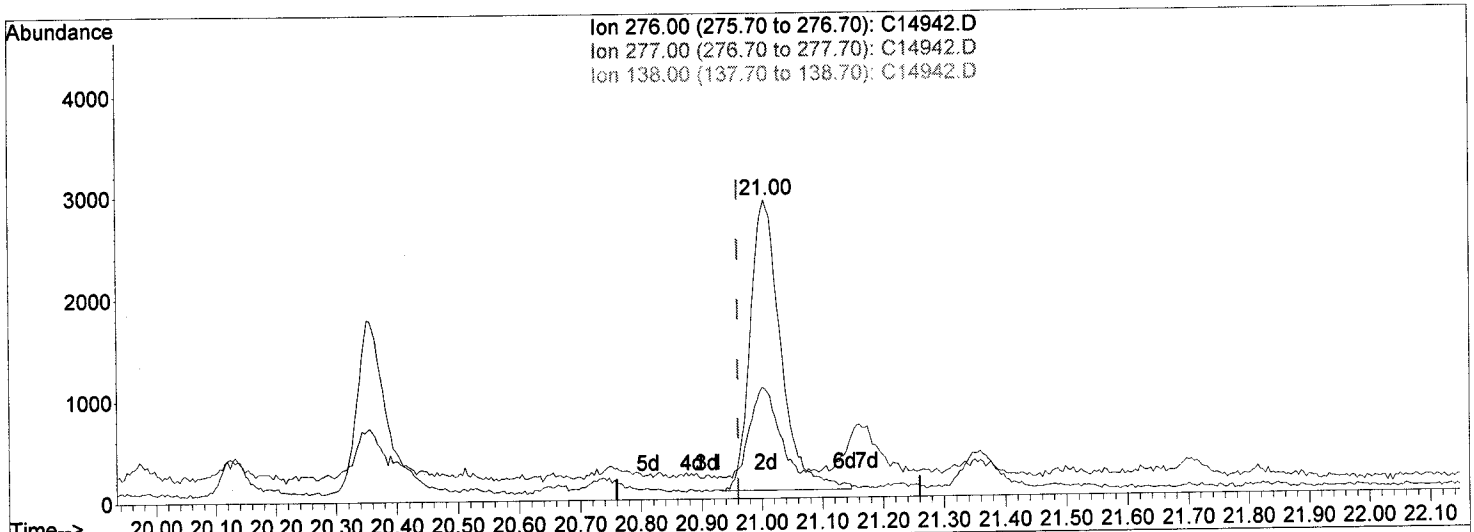
Quantitation Report (Qedit)

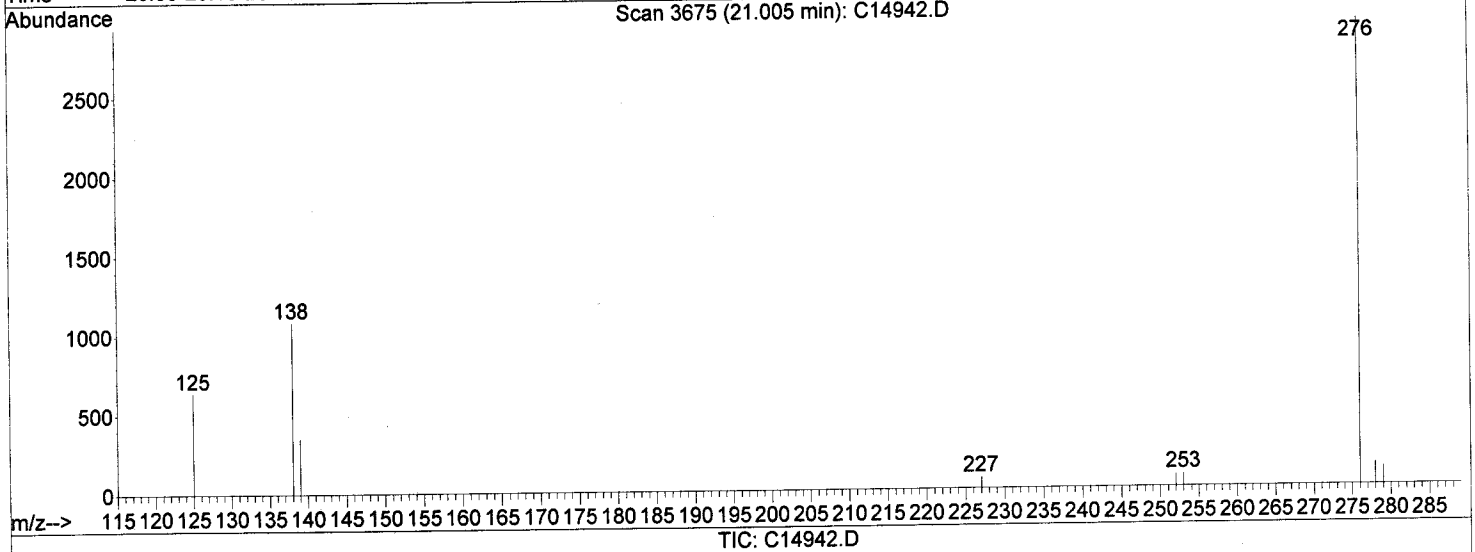
Data File: C:\MSDCHEM\1\DATA\C14942.D
Acq On : 12/19/11 18:12
Sample : F4XQ8
Misc : S-4476.07 80.7G/0.5ML INJ VOL: 1UL
ALS Vial : 14 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:29:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14942.D

(25) Benzo(g,h,i)perylene

21.005min (+0.044) 0.2861ug/mL m

response 100109

Ion	Exp%	Act%
276.00	100	100
277.00	0.00	0.00
138.00	32.70	0.00#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.08

Sample wt/vol: 60.60 (g/mL) G Lab File ID: C14943

Extraction: (Type) SONC

% Moisture: 45 Decanted: (Y/N) N Date Received: 12/09/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 8.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	3.0	U
208-96-8	Acenaphthylene	6.4	
83-32-9	Acenaphthene	3.0	U
86-73-7	Fluorene	3.0	U
87-86-5	Pentachlorophenol	6.0	U
85-01-8	Phenanthrene	4.3	
120-12-7	Anthracene	3.8	
206-44-0	Fluoranthene	9.7	
129-00-0	Pyrene	10	
56-55-3	Benzo(a)anthracene	7.4	
218-01-9	Chrysene	9.8	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	3.7	
50-32-8	Benzo(a)pyrene	9.0	
193-39-5	Indeno(1,2,3-cd)pyrene	7.7	
53-70-3	Dibenzo(a,h)anthracene	3.1	
191-24-2	Benzo(g,h,i)perylene	9.5	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44 Operator: SK
Sample : F4XQ9 Inst : C5975
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 10:31:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

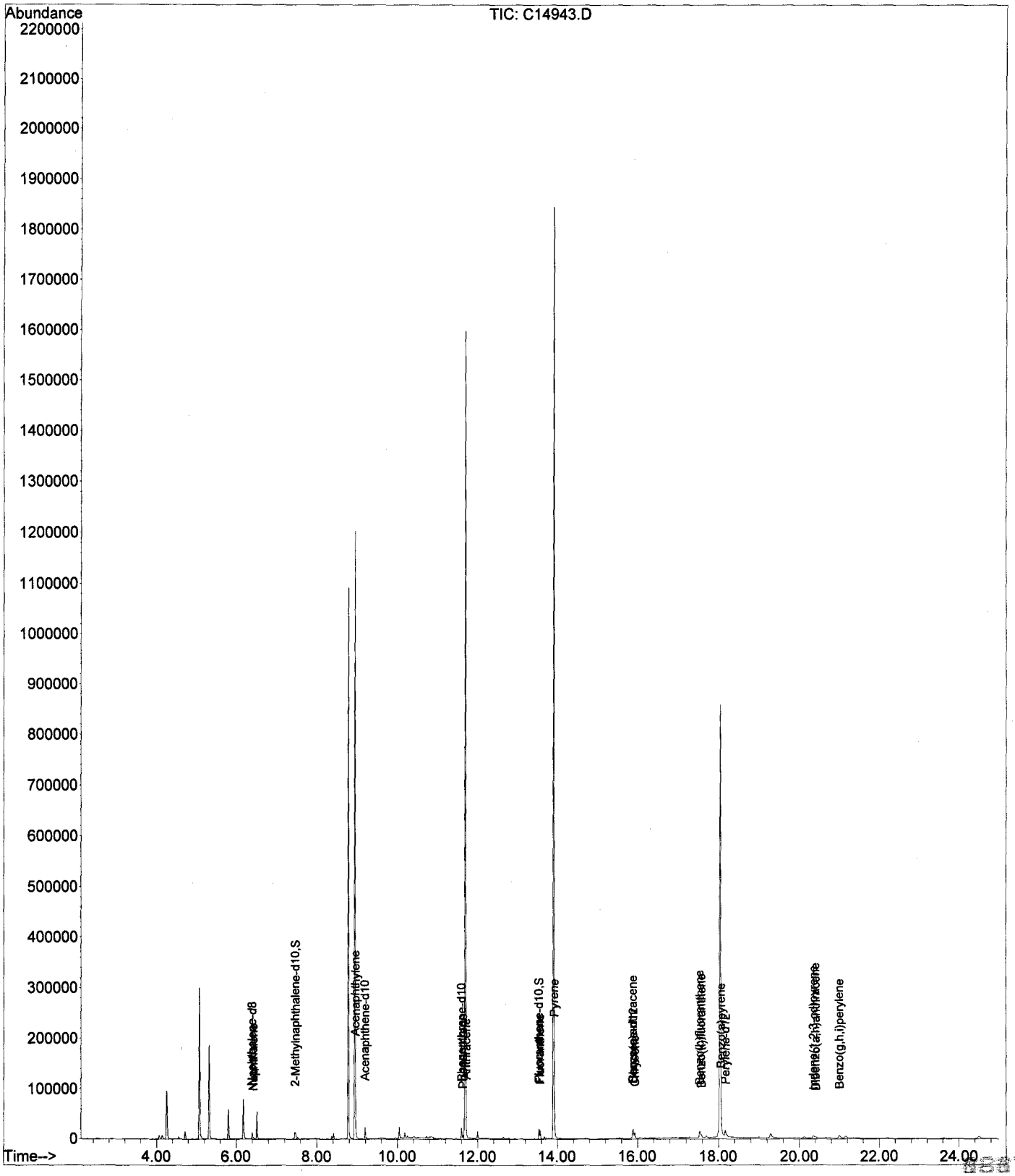
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	144958	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	115893	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	232888	0.4000	ug/mL	0.01
15) Chrysene-d12	15.89	240	146748	0.4000	ug/mL	0.01
19) Perylene-d12	18.18	264	173810m	0.4000	ug/mL	0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	87305	0.3899	ug/mL	0.00
Spiked Amount 0.400			Recovery =	97.47%		
13) Fluoranthene-d10	13.54	212	200630	0.3911	ug/mL	0.01
Spiked Amount 0.400			Recovery =	97.78%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	39126	0.1043	ug/mL#	90
6) Acenaphthylene	8.96	152	101349	0.2141	ug/mL#	88
11) Phenanthrene	11.64	178	75084	0.1417	ug/mL#	93
12) Anthracene	11.72	178	67220	0.1253	ug/mL#	77
14) Fluoranthene	13.57	202	164199	0.3244	ug/mL	98
16) Benzo(a)anthracene	15.88	228	100817	0.2453	ug/mL#	65
17) Chrysene	15.93	228	139360	0.3278	ug/mL#	93
18) Pyrene	13.93	202	218148	0.3487	ug/mL#	90
20) Benzo(b)fluoranthene	17.54	252	175067	0.3688	ug/mL#	76
21) Benzo(k)fluoranthene	17.58	252	69559	0.1245	ug/mL#	86
22) Benzo(a)pyrene	18.08	252	147685m	0.3000	ug/mL	
23) Dibenzo(a,h)anthracene	20.41	278	30482	0.1030	ug/mL#	68
24) Indeno(1,2,3-cd)pyrene	20.36	276	100734	0.2565	ug/mL#	97
25) Benzo(g,h,i)perylene	21.00	276	139940m	0.3177	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

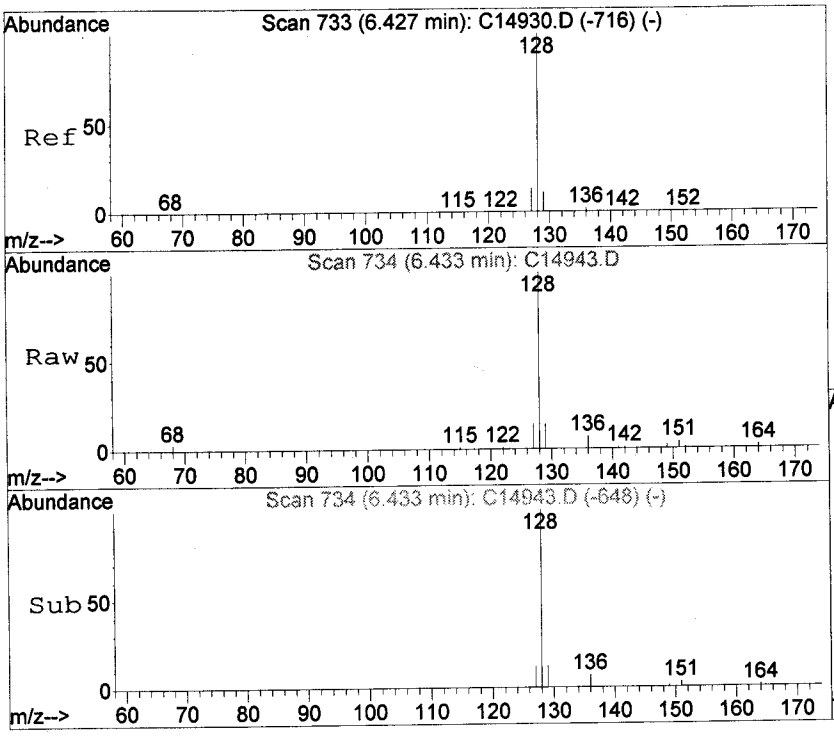
Data File: C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44 Operator: SK
Sample : F4XQ9 Inst : C5975
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 10:31:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



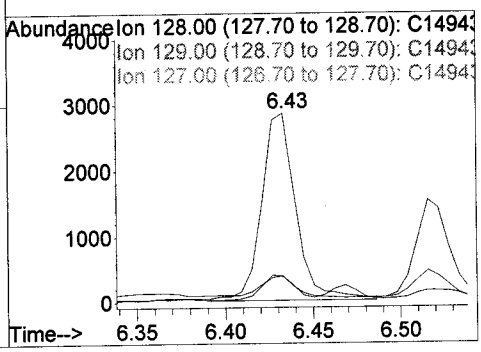
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

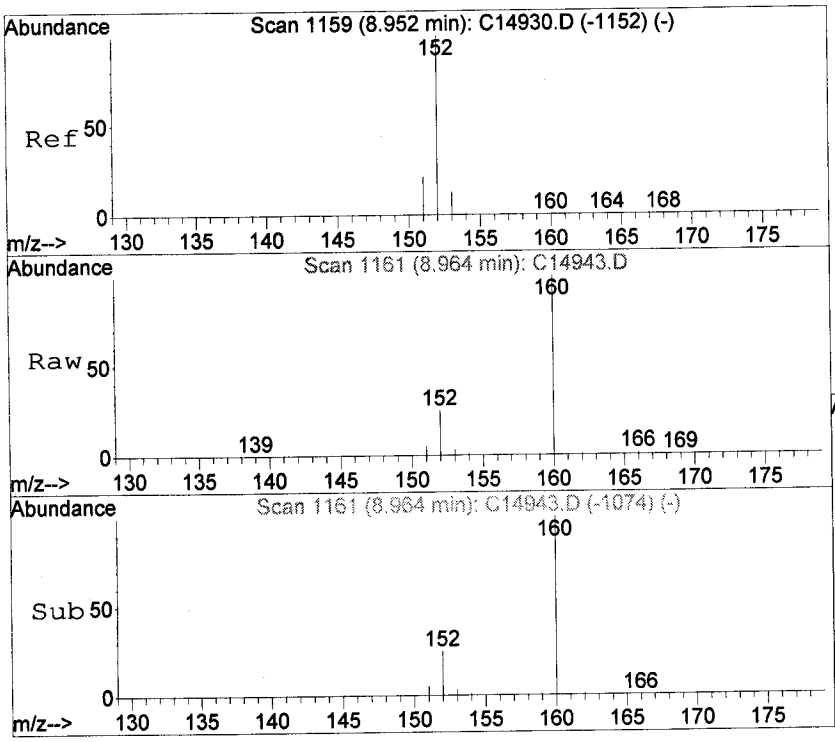
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#2
Naphthalene
Concen: 0.10 ug/mL
RT: 6.43 min Scan# 734
Delta R.T. 0.01 min
Integration Range:
Scan=727 to 743
R.T.= 6.39 to 6.49 (min)
Tgt Ion:128 Resp: 39126

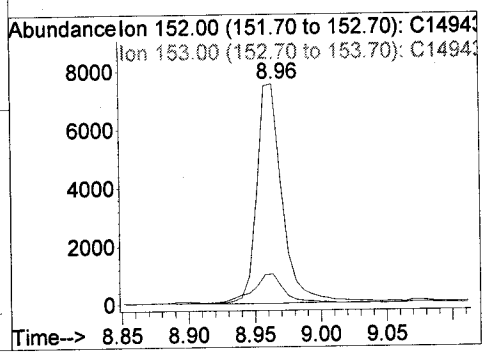
Ion	Ratio	Lower	Upper
128	100		
129	19.2	8.8	13.2#
127	13.9	10.7	16.1





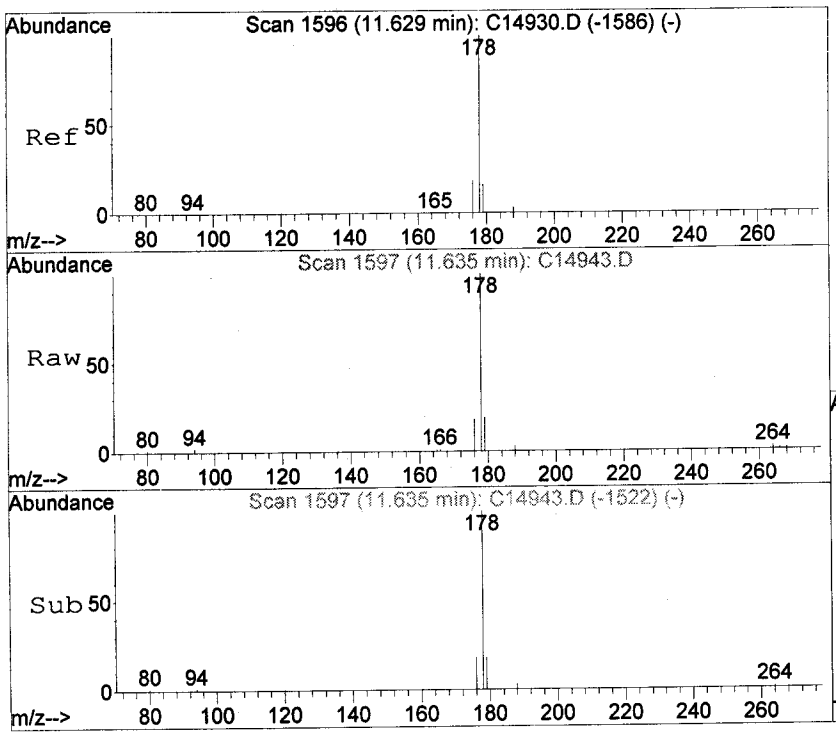
#6
Acenaphthylene
Concen: 0.21 ug/mL
RT: 8.96 min Scan# 1161
Delta R.T. 0.01 min
Integration Range:
Scan=1153 to 1175
R.T.= 8.92 to 9.05 (min)
Tgt Ion:152 Resp: 101349

Ion	Ratio	Lower	Upper
152	100		
153	17.9	10.5	15.7#



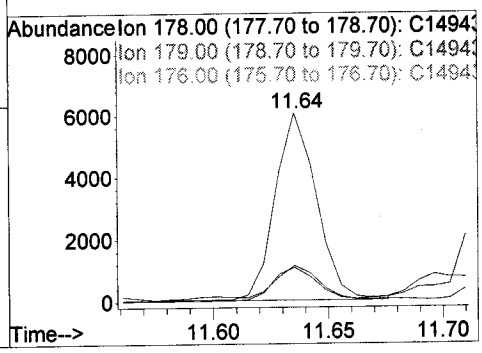
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

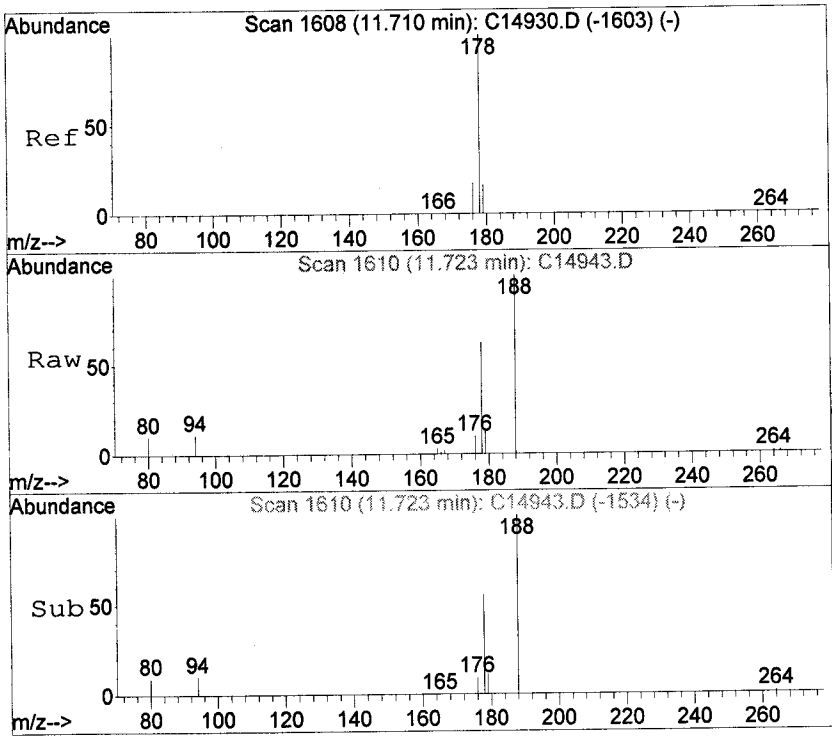
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#11
Phenanthrene
Concen: 0.14 ug/mL
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Integration Range:
Scan=1591 to 1603
R.T.= 11.59 to 11.68 (min)
Tgt Ion:178 Resp: 75084

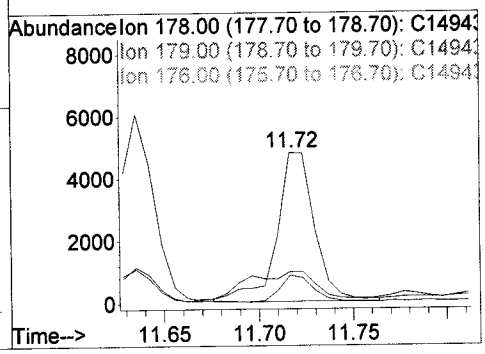
Ion	Ratio	Lower	Upper
178	100		
179	18.5	12.2	18.4#
176	20.6	14.5	21.7





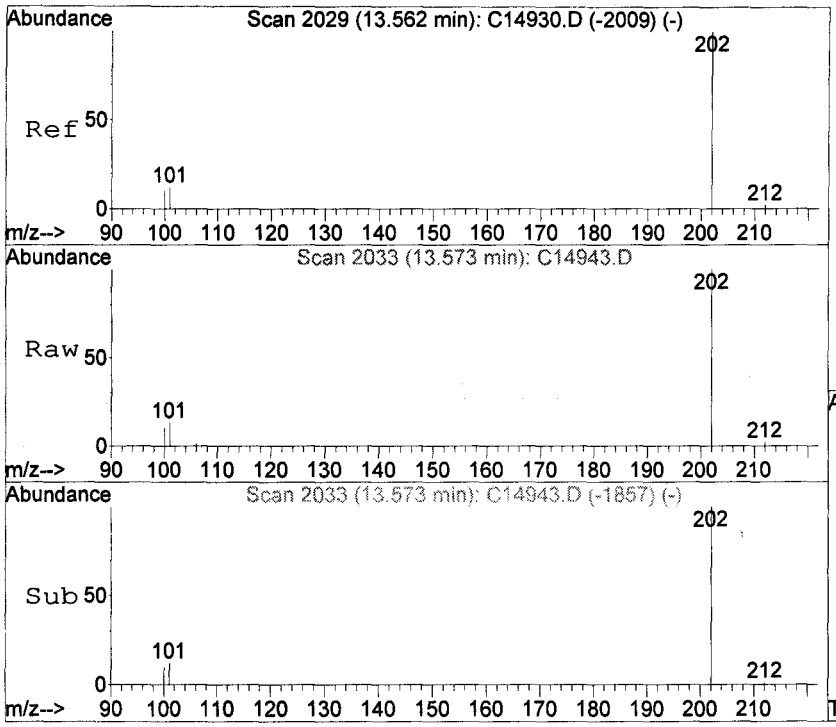
#12
Anthracene
Concen: 0.13 ug/mL
RT: 11.72 min Scan# 1610
Delta R.T. 0.01 min
Integration Range:
Scan=1603 to 1616
R.T.= 11.68 to 11.76 (min)
Tgt Ion:178 Resp: 67220

Ion	Ratio	Lower	Upper
178	100		
179	35.3	12.4	18.6#
176	17.5	13.8	20.8



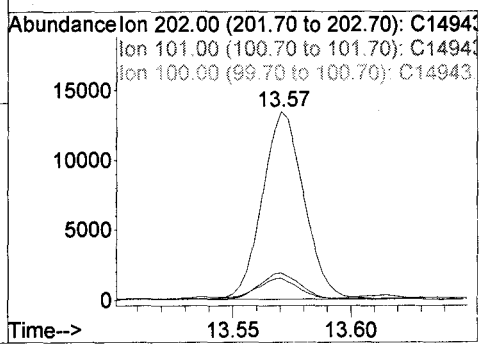
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

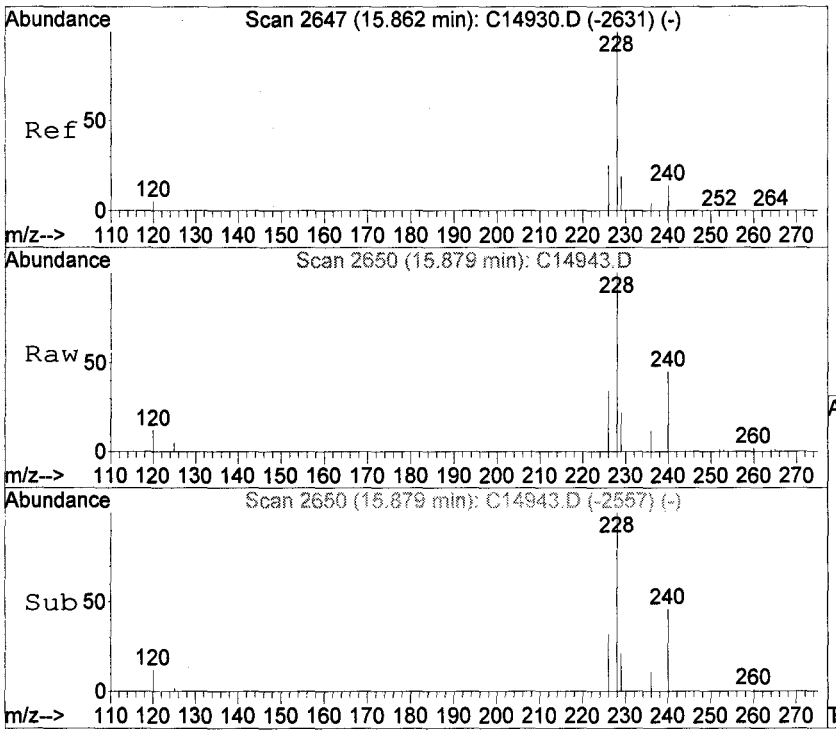
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#14
Fluoranthene
Concen: 0.32 ug/mL
RT: 13.57 min Scan# 2033
Delta R.T. 0.01 min
Integration Range:
Scan=2021 to 2046
R.T.= 13.54 to 13.61 (min)
Tgt Ion:202 Resp: 164199

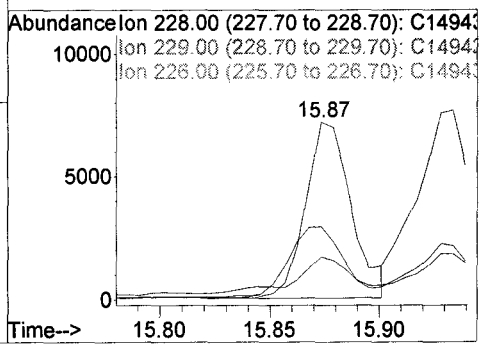
Ion	Ratio	Lower	Upper
202	100		
101	13.9	11.5	17.3
100	11.9	8.8	13.2





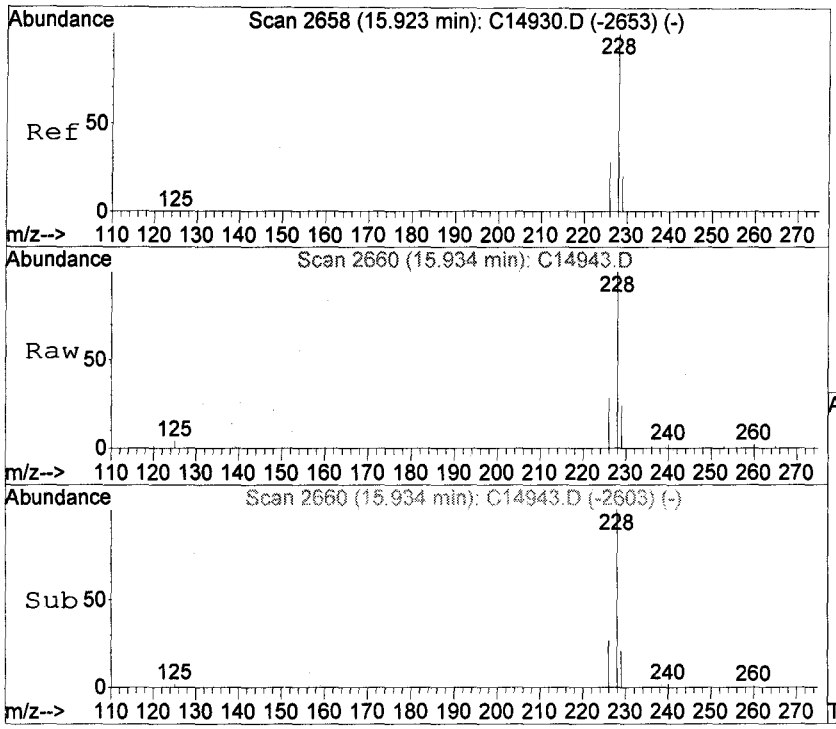
#16
Benzo(a)anthracene
Concen: 0.25 ug/mL
RT: 15.88 min Scan# 2650
Delta R.T. 0.01 min
Integration Range:
Scan=2639 to 2654
R.T.= 15.82 to 15.90 (min)
Tgt Ion:228 Resp: 100817

Ion	Ratio	Lower	Upper
228	100		
229	28.8	15.8	23.8#
226	49.1	20.5	30.7#



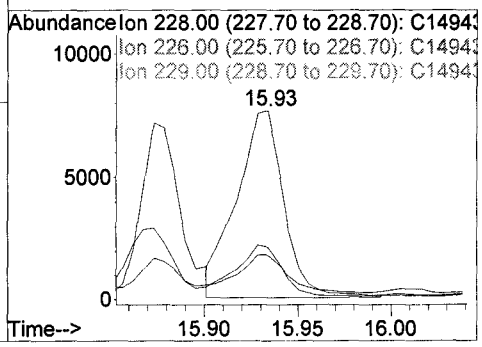
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

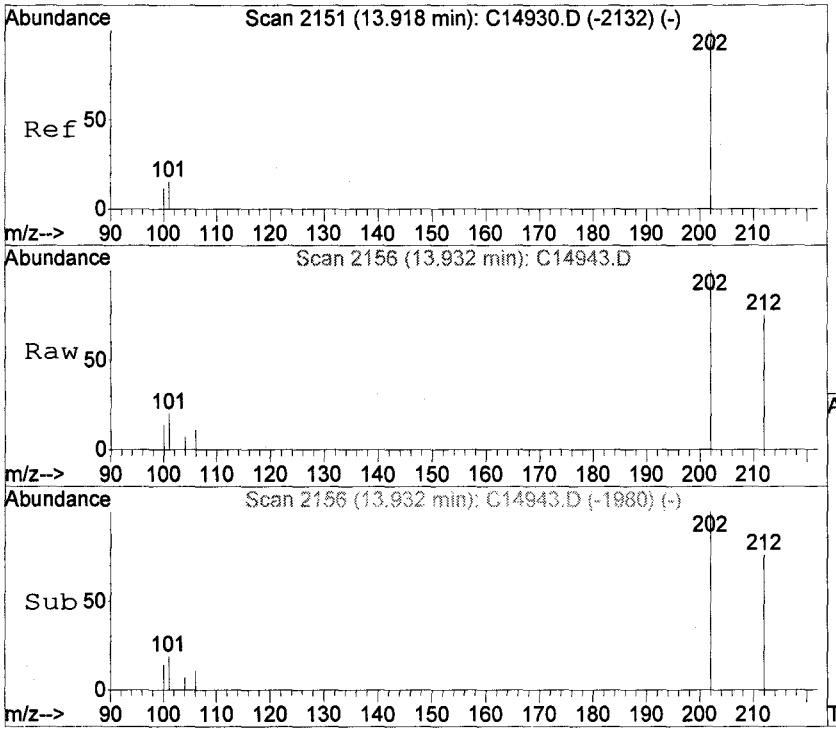
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#17
Chrysene
Concen: 0.33 ug/mL
RT: 15.93 min Scan# 2660
Delta R.T. 0.01 min
Integration Range:
Scan=2654 to 2671
R.T.= 15.90 to 15.99 (min)
Tgt Ion:228 Resp: 139360

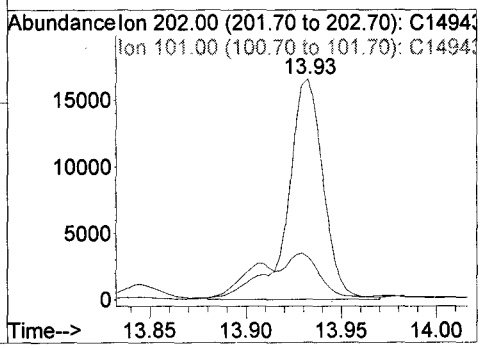
Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.8	34.2
229	26.0	15.9	23.9#





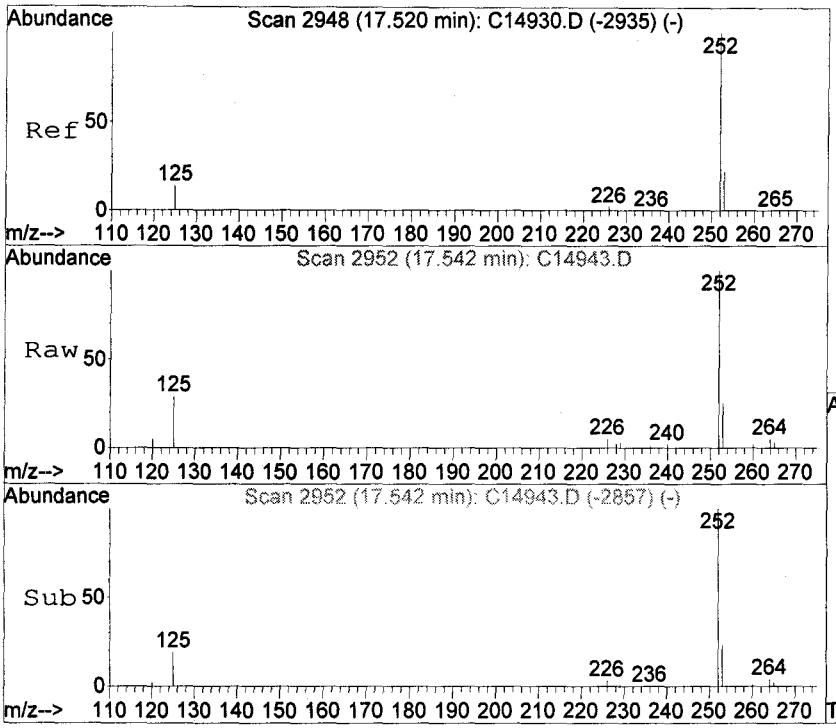
#18
Pyrene
Concen: 0.35 ug/mL
RT: 13.93 min Scan# 2156
Delta R.T. 0.02 min
Integration Range:
Scan=2138 to 2169
R.T.= 13.88 to 13.97 (min)
Tgt Ion:202 Resp: 218148

Ion	Ratio	Lower	Upper
202	100		
101	20.7	13.2	19.8#



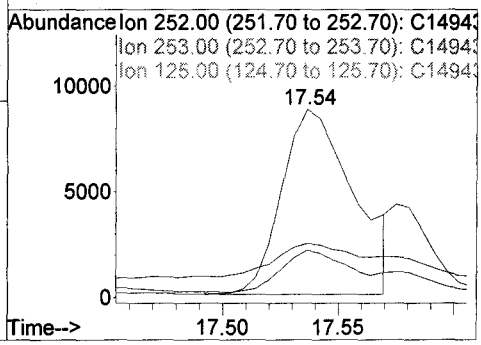
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

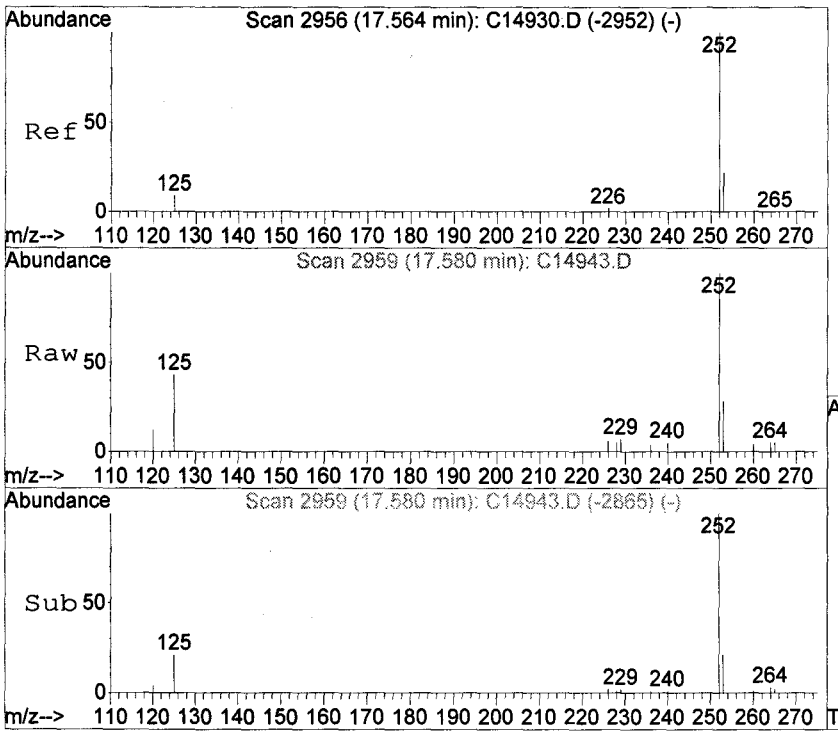
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#20
Benzo(b)fluoranthene
Concen: 0.37 ug/mL
RT: 17.54 min Scan# 2952
Delta R.T. 0.02 min
Integration Range:
Scan=2943 to 2957
R.T.= 17.49 to 17.57 (min)
Tgt Ion:252 Resp: 175067

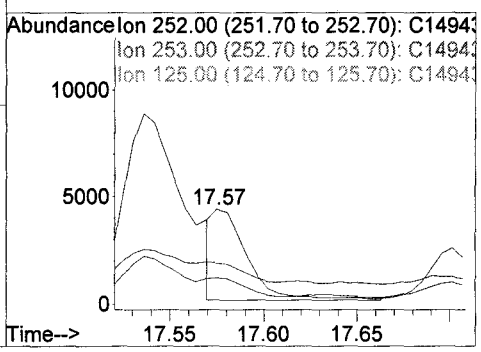
Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	37.6	12.3	18.5#





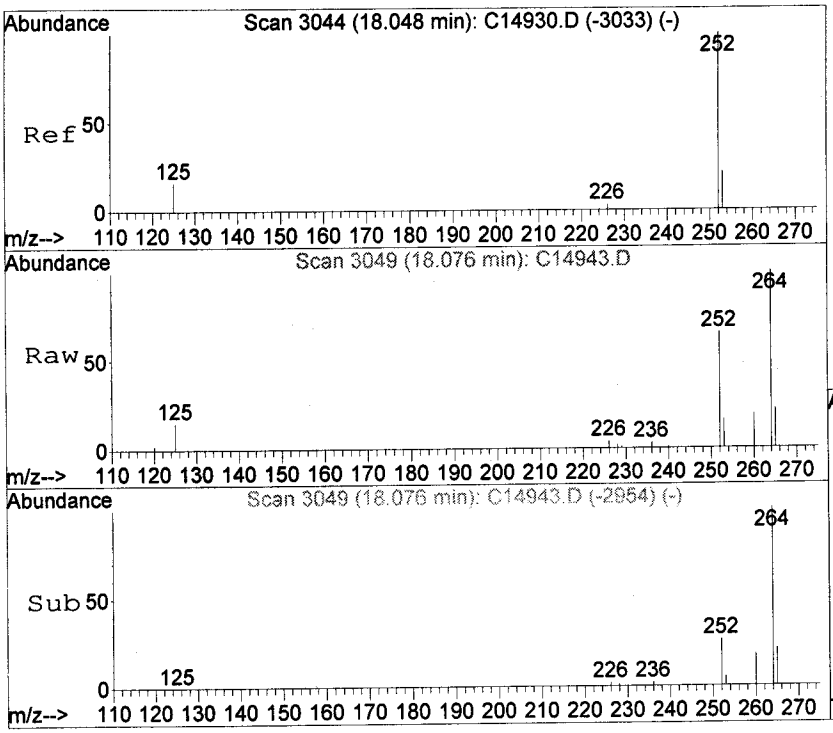
#21
Benzo(k)fluoranthene
Concen: 0.12 ug/mL
RT: 17.58 min Scan# 2959
Delta R.T. 0.02 min
Integration Range:
Scan=2957 to 2974
R.T.= 17.57 to 17.66 (min)
Tgt Ion:252 Resp: 69559

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.7	26.5
125	27.7	12.4	18.6#



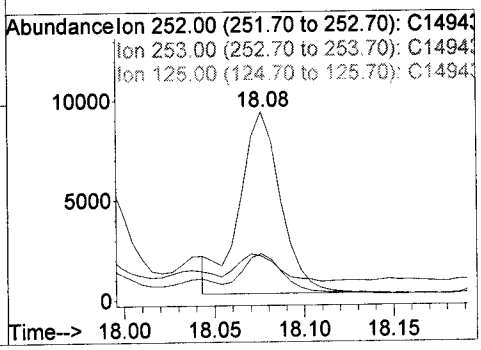
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

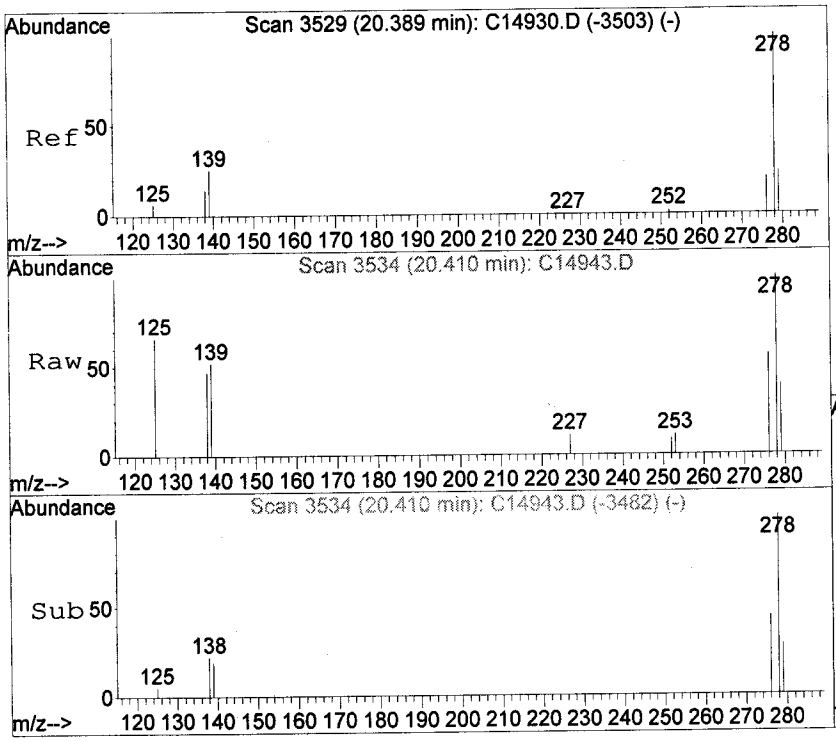
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#22
Benzo(a)pyrene
Concen: 0.30 ug/mL m
RT: 18.08 min Scan# 3049
Delta R.T. 0.03 min
Integration Range:
Scan=3043 to 3061
R.T.= 18.04 to 18.14 (min)
Tgt Ion:252 Resp: 147685

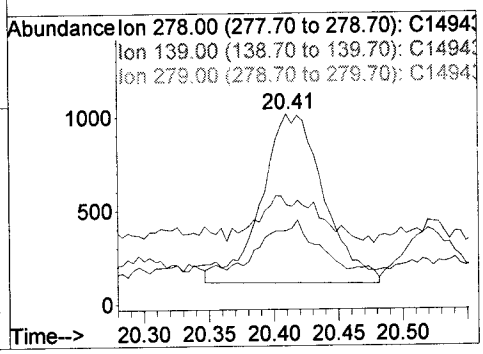
Ion	Ratio	Lower	Upper
252	100		
253	28.8	17.1	25.7#
125	19.6	13.1	19.7





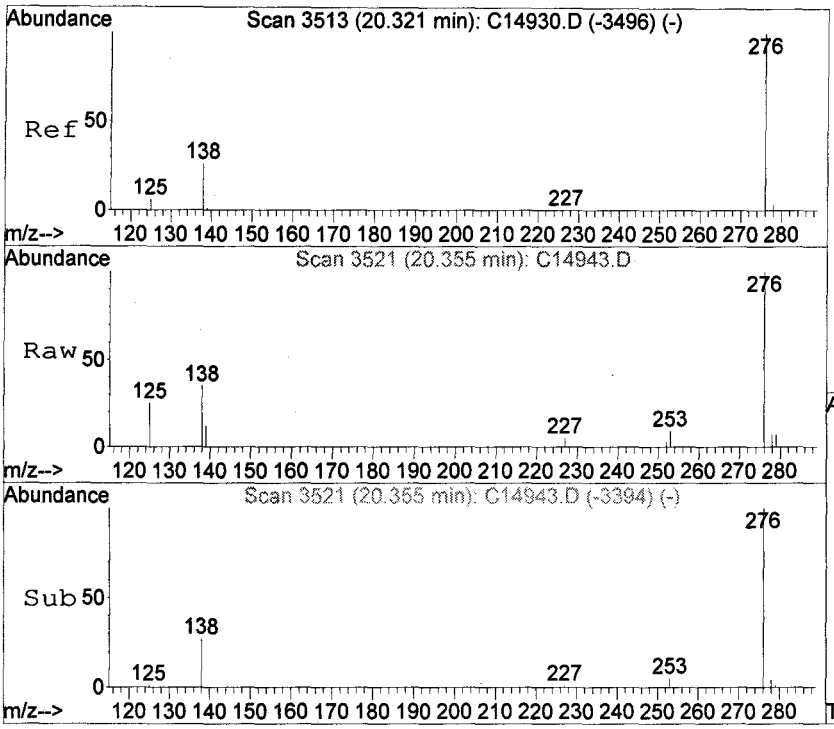
#23
Dibenzo(a,h)anthracene
Concen: 0.10 ug/mL
RT: 20.41 min Scan# 3534
Delta R.T. 0.02 min
Integration Range:
Scan=3519 to 3551
R.T.= 20.35 to 20.48 (min)
Tgt Ion:278 Resp: 30482

Ion	Ratio	Lower	Upper
278	100		
139	14.6	19.8	29.6#
279	1.5	18.4	27.6#



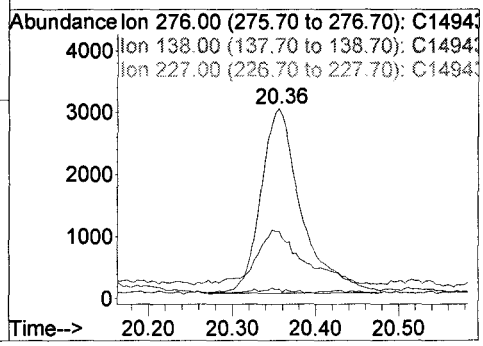
Data File : C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
MS Integration Params: LSCINT.E

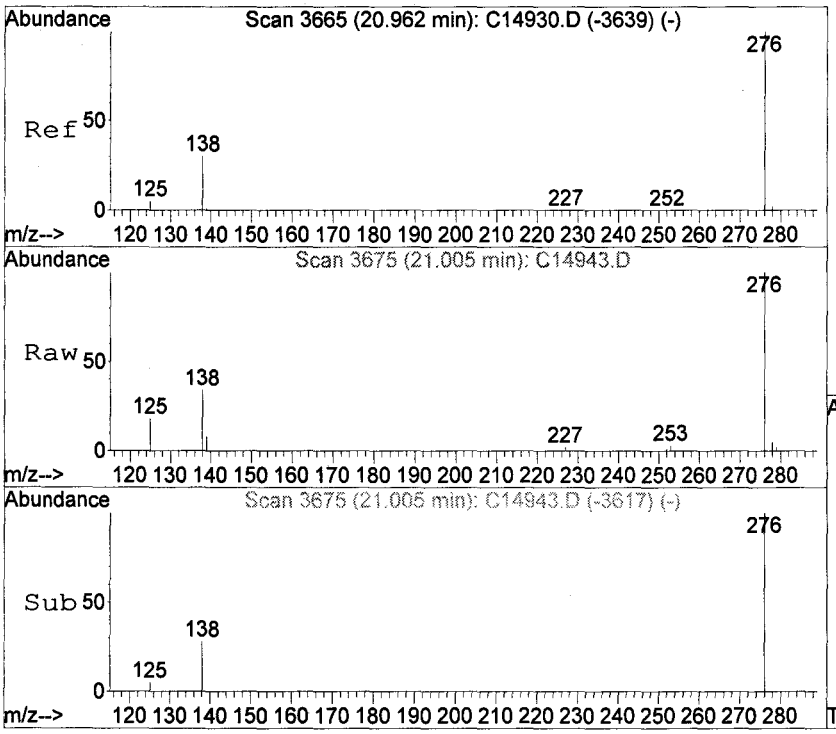
Vial: 15
Operator: SK
Inst : C5975
Multiplr: 1.00



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.26 ug/mL
RT: 20.36 min Scan# 3521
Delta R.T. 0.04 min
Integration Range:
Scan=3500 to 3550
R.T.= 20.27 to 20.48 (min)
Tgt Ion:276 Resp: 100734

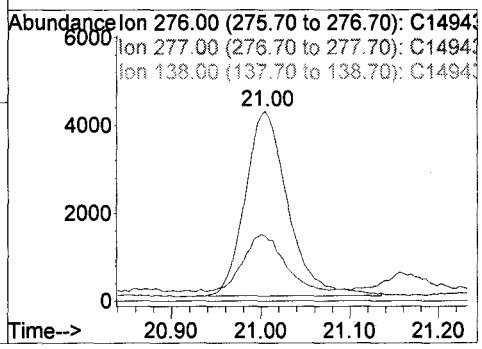
Ion	Ratio	Lower	Upper
276	100		
138	31.1	23.7	35.5
227	1.5	0.0	0.0#





#25
Benzo(g,h,i)perylene
Concen: 0.32 ug/mL m
RT: 21.00 min Scan# 3675
Delta R.T. 0.04 min
Integration Range:
Scan=3659 to 3706
R.T.= 20.94 to 21.14 (min)
Tgt Ion:276 Resp: 139940

Ion	Ratio	Lower	Upper
276	100		
277	0.0	0.0	0.0
138	0.1	26.2	39.2#

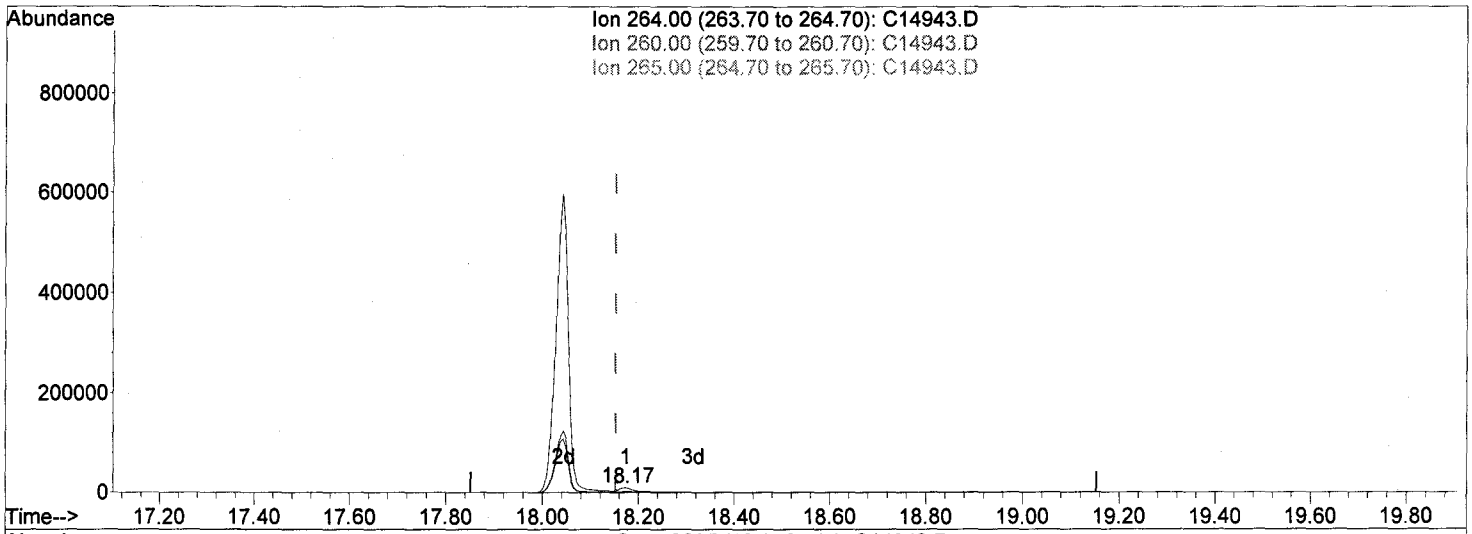


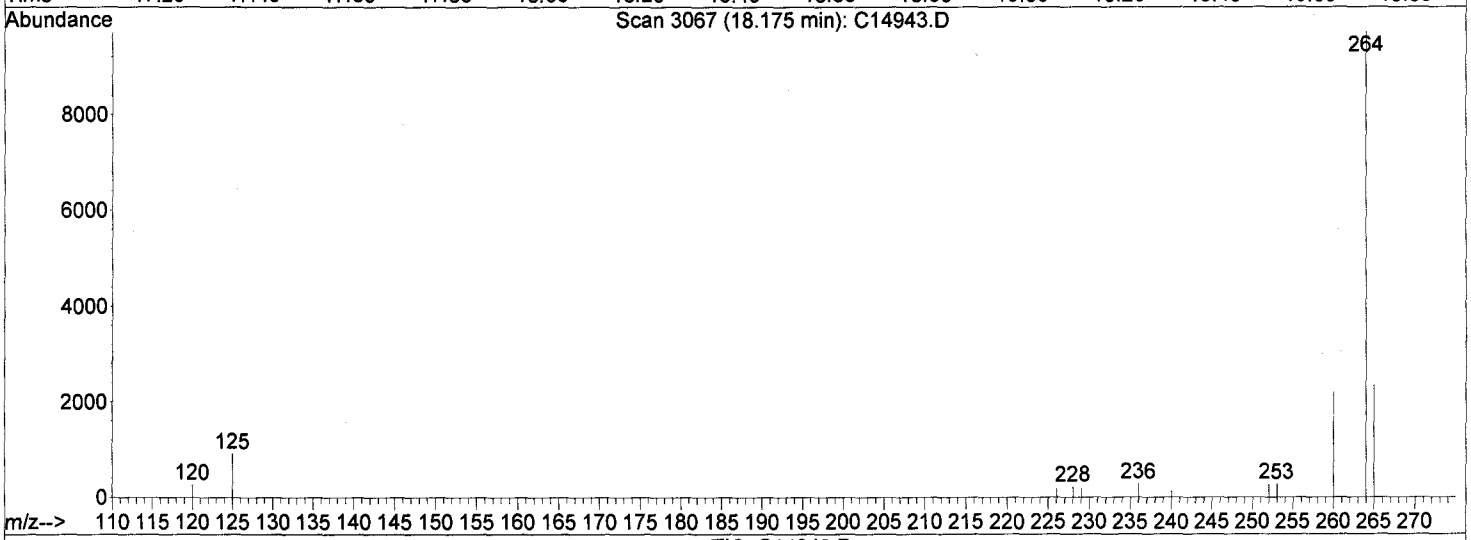
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44 Operator: SK
Sample : F4XQ9 Inst : C5975
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 10:31:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14943.D

(19) Perylene-d12

18.175min (+0.022) 0.4000ug/mL m

response 173810

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	36.80#
265.00	21.10	30.52#
0.00	0.00	0.00

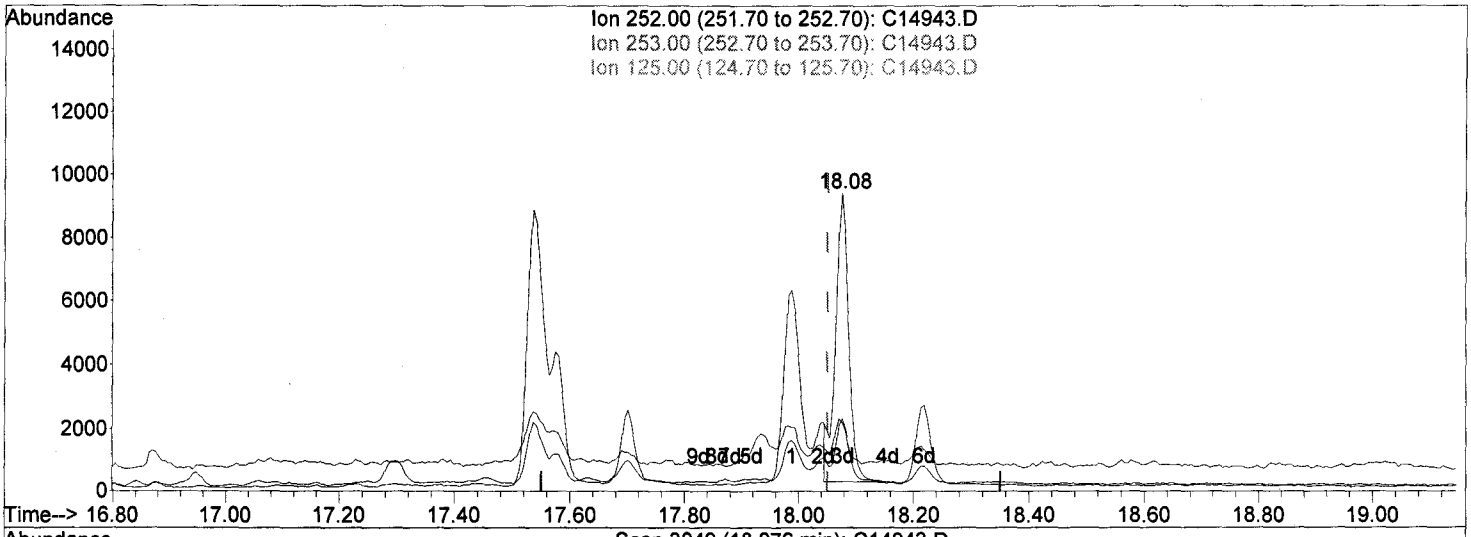
0815

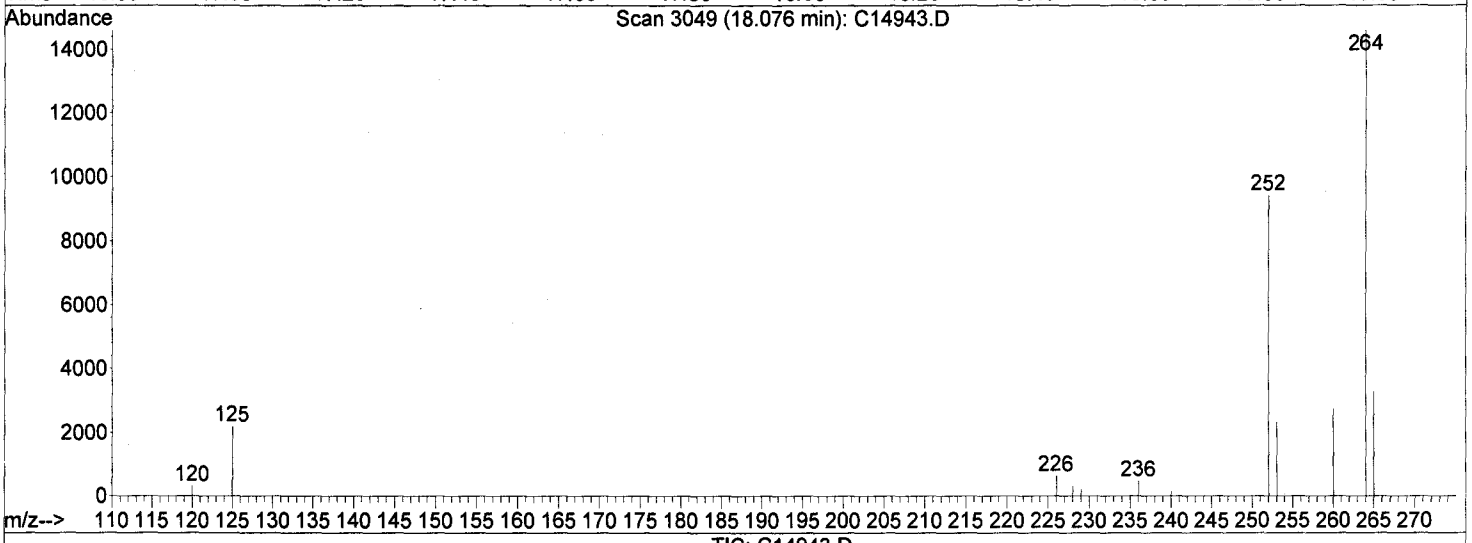
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44 Operator: SK
Sample : F4XQ9 Inst : C5975
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 10:31:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14943.D

(22) Benzo(a)pyrene

18.076min (+0.025) 0.3000ug/mL m

response 147685

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	28.75#
125.00	16.40	19.59
0.00	0.00	0.00

SB15

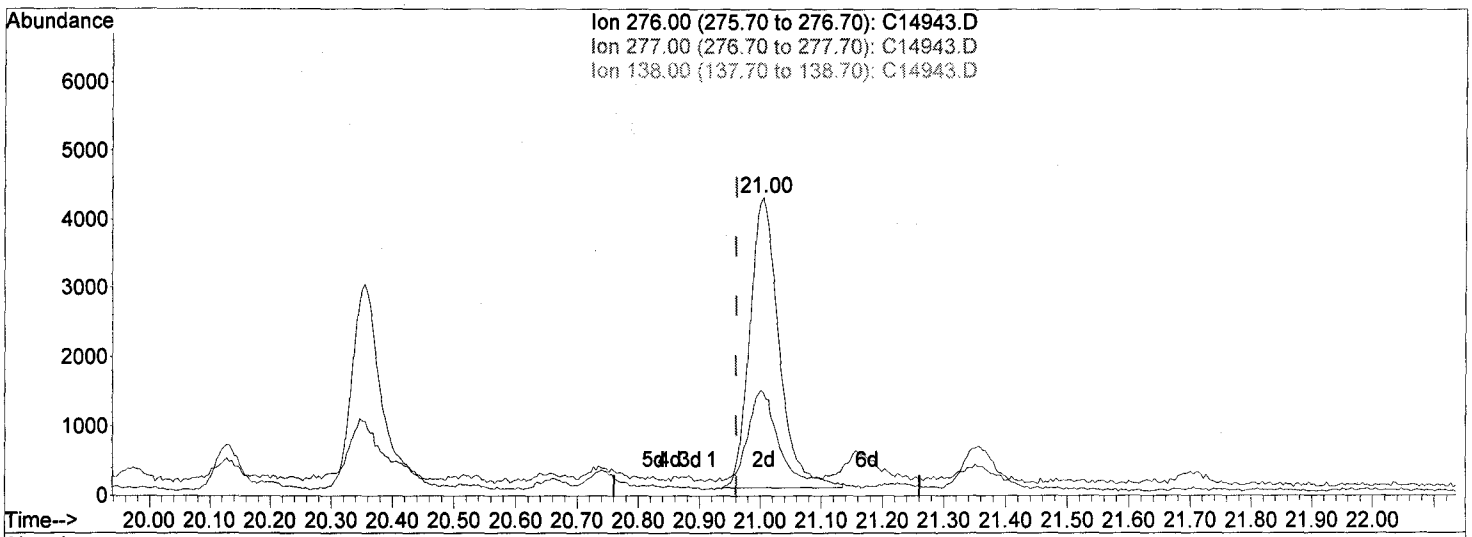
Quantitation Report (Qedit)

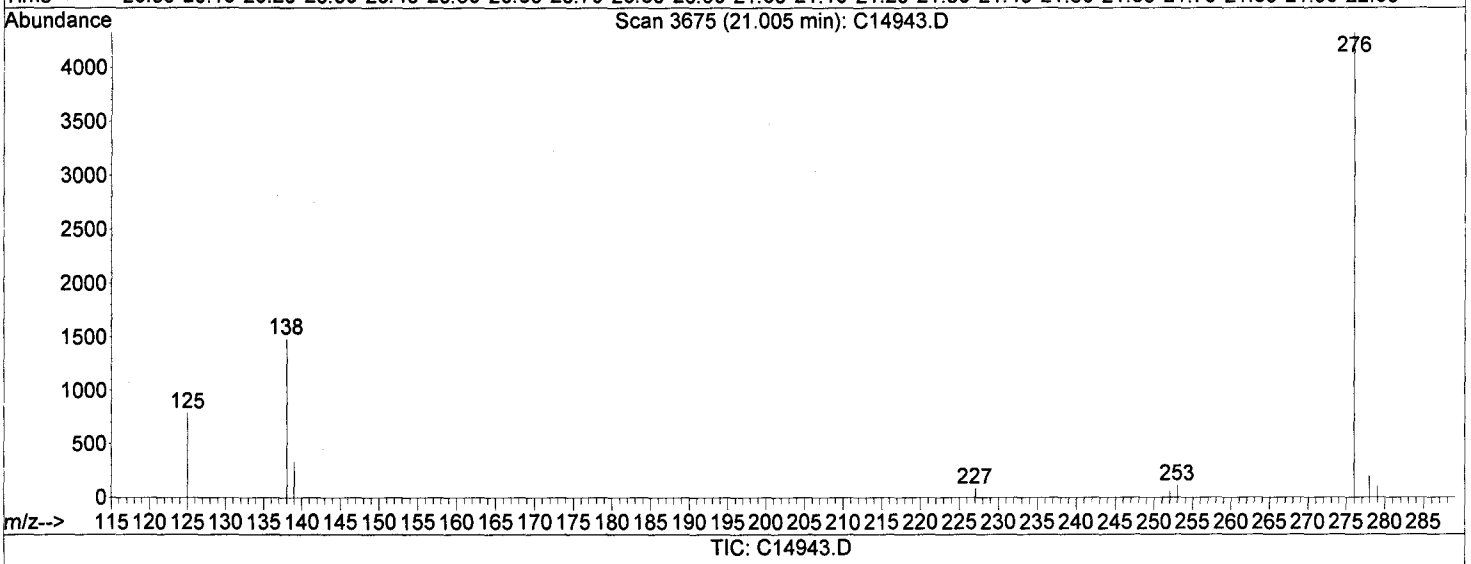
Data File: C:\MSDCHEM\1\DATA\C14943.D
Acq On : 12/19/11 18:44
Sample : F4XQ9
Misc : S-4476.08 60.6G/0.5ML INJ VOL: 1UL
ALS Vial : 15 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:31:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14943.D

(25) Benzo(g,h,i)perylene

21.005min (+0.044) 0.3177ug/mL m

response 139940

Ion	Exp%	Act%
276.00	100	100
277.00	0.00	0.00
138.00	32.70	0.12#
0.00	0.00	0.00

6H - FORM VI SV-SIM
SEMIVOLATILE SIM ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date(s): 12/09/2011 12/09/2011

Calibration Time(s): 1115 1322

LAB FILE ID: _____ RRF 0.10 = C14876 RRF 0.20 = C14875

RRF 0.40 = C14874 RRF 0.80 = C14873 RRF 1.0 = C14872

COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	% RSD
Naphthalene	0.9950	1.0110	1.0990	1.0960	0.9730	1.0348	5.7
2-Methylnaphthalene	0.6070	0.6090	0.6740	0.6730	0.5860	0.6298	6.5
Acenaphthylene	1.5660	1.5760	1.7660	1.7200	1.5410	1.6338	6.2
Acenaphthene	0.9150	0.9320	1.0430	1.0100	0.8850	0.9570	7.0
Fluorene	1.1040	1.0730	1.2190	1.2080	1.0500	1.1308	6.9
Pentachlorophenol		0.0320	0.0300	0.0360	0.0450	0.0358	18.6
Phenanthrene	0.8890	0.8890	0.9890	0.9240	0.8610	0.9104	5.4
Anthracene	0.9050	0.8770	1.0110	0.9380	0.8780	0.9218	6.0
Fluoranthene	0.8740	0.8380	0.9410	0.9070	0.7870	0.8694	6.9
Pyrene	1.6620	1.7260	1.8670	1.6440	1.6260	1.7050	5.8
Benzo(a)anthracene	1.2420	1.1070	1.1830	1.0740	0.9950	1.1202	8.6
Chrysene	1.3490	1.1640	1.2320	1.0630	0.9870	1.1590	12.2
Benzo(b)fluoranthene	1.1560	1.0940	1.1430	1.0680	1.0000	1.0922	5.7
Benzo(k)fluoranthene	1.4160	1.3150	1.3560	1.2310	1.1100	1.2856	9.3
Benzo(a)pyrene	1.2320	1.1200	1.1980	1.1000	1.0140	1.1328	7.6
Indeno(1,2,3-cd)pyrene	1.1420	0.8180	0.8920	0.8560	0.8110	0.9038	15.2
Dibenzo(a,h)anthracene	0.6730	0.6270	0.7180	0.7180	0.6700	0.6812	5.6
Benzo(g,h,i)perylene	1.0660	0.9900	1.0950	1.0060	0.9120	1.0138	7.0
Fluoranthene-d10	0.8820	0.8440	0.9580	0.9260	0.7950	0.8810	7.3
2-Methylnaphthalene-d10	0.5970	0.5950	0.6640	0.6640	0.5700	0.6180	7.0

Response Factor Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Mon Dec 12 09:58:46 2011
Response Via : Initial Calibration

Calibration Files
3 =C14874.D 2 =C14875.D 4 =C14873.D
5 =C14872.D 1 =C14876.D

		Compound	3	2	4	5	1	Avg	%RSD
1)		Naphthalene-d8	ISTD						
2)		Naphthalene	1.099	1.011	1.096	0.973	0.995	1.035	5.68
3)	S	2-Methylnaphthalene	0.664	0.595	0.664	0.570	0.597	0.618	7.01
4)		2-Methylnaphthalene	0.674	0.609	0.673	0.586	0.607	0.630	6.52
5)		Acenaphthene-d10	ISTD						
6)		Acenaphthylene	1.766	1.576	1.720	1.541	1.566	1.634	6.25
7)		Acenaphthene	1.043	0.932	1.010	0.885	0.915	0.957	6.96
8)		Fluorene	1.219	1.073	1.208	1.050	1.104	1.131	6.90
9)		Phenanthrene-d10	ISTD						
10)		Pentachlorophenol	0.030	0.032	0.036	0.045		0.036	19.03
11)		Phenanthrene	0.989	0.889	0.924	0.861	0.889	0.910	5.43
12)		Anthracene	1.011	0.877	0.938	0.878	0.905	0.922	6.04
13)	S	Fluoranthene-d10	0.958	0.844	0.926	0.795	0.882	0.881	7.31
14)		Fluoranthene	0.941	0.838	0.907	0.787	0.874	0.869	6.91
15)		Chrysene-d12	ISTD						
16)		Benzo(a)anthracene	1.183	1.107	1.074	0.995	1.242	1.120	8.55
17)		Chrysene	1.232	1.164	1.063	0.987	1.349	1.159	12.21
18)		Pyrene	1.867	1.726	1.644	1.626	1.662	1.705	5.76
19)		Perylene-d12	ISTD						
20)		Benzo(b)fluoranthen	1.143	1.094	1.068	1.000	1.156	1.092	5.74
21)		Benzo(k)fluoranthen	1.356	1.315	1.231	1.110	1.416	1.286	9.27
22)		Benzo(a)pyrene	1.198	1.120	1.100	1.014	1.232	1.133	7.55
23)		Dibenzo(a,h)anthrac	0.718	0.627	0.718	0.670	0.673	0.681	5.64
24)		Indeno(1,2,3-cd)pyr	0.892	0.818	0.856	0.811	1.142	0.904	15.19
25)		Benzo(g,h,i)perylen	1.095	0.990	1.006	0.912	1.066	1.014	7.01

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14872.D
Acq On : 12/09/11 11:15
Sample : SSTD001YJ
Misc : SSTD001YJ INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 12 09:56:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:55:52 2011
Response via : Initial Calibration

ORIGINAL
Case 42044 SDG XOP87
Episode S-4451 init/date 12/12/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.38	136	178787	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	107501	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	170162	0.4000	ug/mL	0.00
15) Chrysene-d12	15.86	240	84098	0.4000	ug/mL	0.00
19) Perylene-d12	18.13	264	72277	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.46	152	254695	0.8862	ug/mL	0.00
Spiked Amount 0.400			Recovery = 221.55%			
13) Fluoranthene-d10	13.51	212	338397	0.8232	ug/mL	0.00
Spiked Amount 0.400			Recovery = 205.80%			
Target Compounds						Qvalue
2) Naphthalene	6.41	128	434996	0.9460	ug/mL	100
4) 2-Methylnaphthalene	7.51	142	261920	0.8649	ug/mL	100
6) Acenaphthylene	8.94	152	414043	0.9022	ug/mL	100
7) Acenaphthene	9.23	154	237895	0.9085	ug/mL	100
8) Fluorene	10.07	166	282276	0.8851	ug/mL	100
10) Pentachlorophenol	11.29	266	19335	0.3634	ug/mL	93
11) Phenanthrene	11.61	178	366169	0.9285	ug/mL	100
12) Anthracene	11.69	178	373536	1.0729	ug/mL	100
14) Fluoranthene	13.54	202	334748	0.8270	ug/mL	99
16) Benzo(a)anthracene	15.85	228	209230	0.8855	ug/mL	100
17) Chrysene	15.90	228	207476	0.8549	ug/mL	100
18) Pyrene	13.90	202	341821	1.0266	ug/mL#	93
20) Benzo(b)fluoranthene	17.50	252	180717	0.8391	ug/mL	100
21) Benzo(k)fluoranthene	17.54	252	200483	0.8207	ug/mL	99
22) Benzo(a)pyrene	18.03	252	183301	0.8649	ug/mL	100
23) Dibenzo(a,h)anthracene	20.35	278	121004	0.8301	ug/mL	99
24) Indeno(1,2,3-cd)pyrene	20.28	276	146532	0.6548	ug/mL#	100
25) Benzo(g,h,i)perylene	20.92	276	164876	0.8603	ug/mL#	98

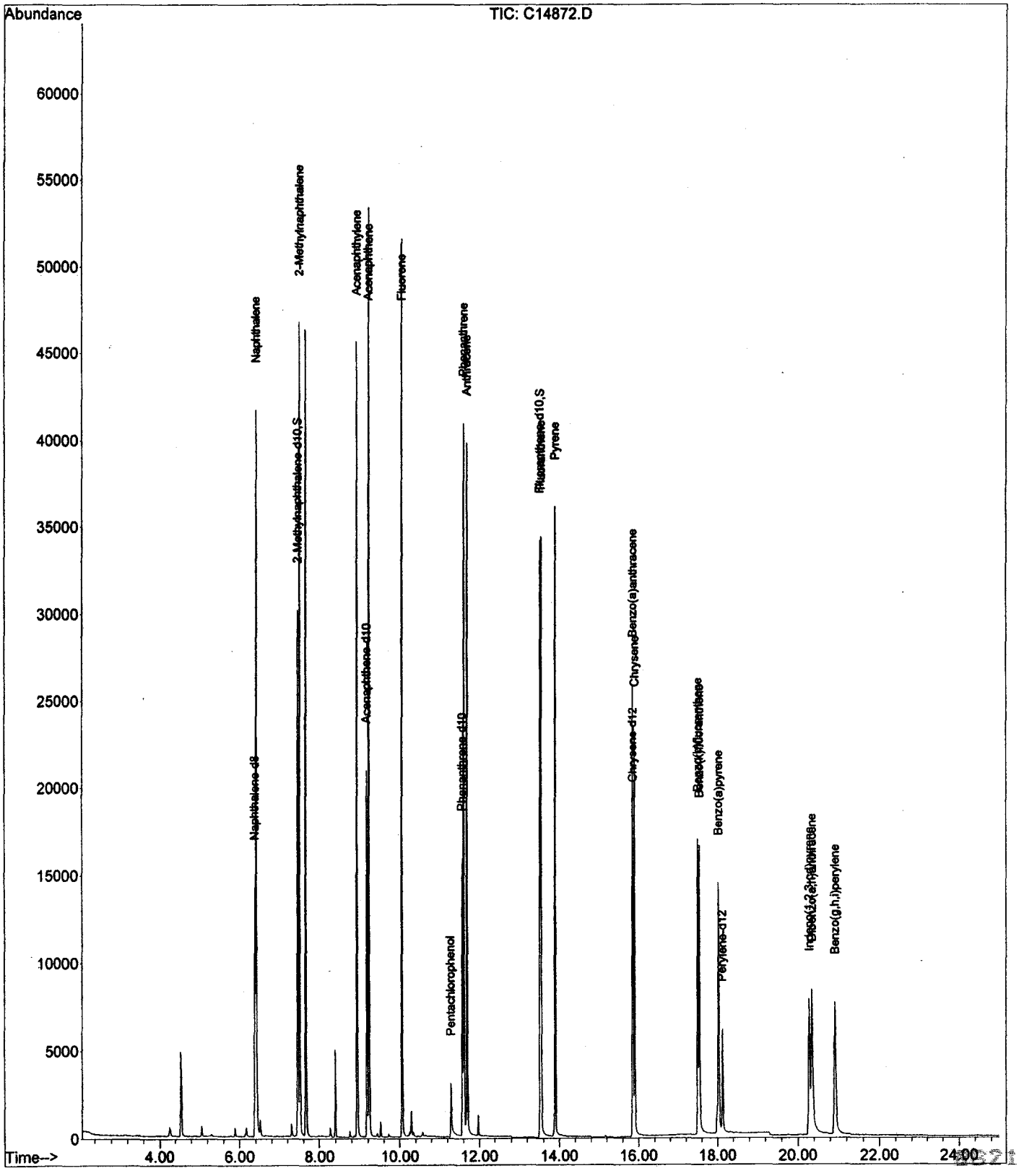
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BS28

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14872.D
Acq On : 12/09/11 11:15 Operator: SK
Sample : SSTD001YJ Inst : C5975
Misc : SSTD001YJ INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 09:56:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:55:52 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14873.D
Acq On : 12/09/11 11:49
Sample : SSTD0.8YJ
Misc : SSTD0.8YJ INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 12 09:56:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:56:24 2011
Response via : Initial Calibration

ORIGINAL
Case 42044 SDG XOP87
Episode S-4451 init/date 12/12/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.38	136	152463	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.18	164	94400	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.58	188	165923	0.4000 ug/mL	0.00
15) Chrysene-d12	15.86	240	94618	0.4000 ug/mL	0.00
19) Perylene-d12	18.13	264	84089	0.4000 ug/mL	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.46	152	202444	0.8261 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 206.52%	
13) Fluoranthene-d10	13.51	212	307184	0.7655 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 191.37%	
Target Compounds					Qvalue
2) Naphthalene	6.41	128	334100	0.8521 ug/mL	100
4) 2-Methylnaphthalene	7.51	142	205245	0.7948 ug/mL	99
6) Acenaphthylene	8.94	152	324796	0.8061 ug/mL	100
7) Acenaphthene	9.23	154	190703	0.8294 ug/mL	100
8) Fluorene	10.07	166	228060	0.8138 ug/mL	100
10) Pentachlorophenol	11.29	266	12100	0.2339 ug/mL#	90
11) Phenanthrene	11.61	178	306693	0.7974 ug/mL	100
12) Anthracene	11.69	178	311140	0.9156 ug/mL	99
14) Fluoranthene	13.54	202	301118	0.7639 ug/mL	100
16) Benzo(a)anthracene	15.85	228	203297	0.7647 ug/mL	100
17) Chrysene	15.90	228	201248	0.7370 ug/mL	99
18) Pyrene	13.90	202	311097	0.8322 ug/mL	99
20) Benzo(b)fluoranthene	17.50	252	179694	0.7171 ug/mL	100
21) Benzo(k)fluoranthene	17.54	252	207100	0.7294 ug/mL	99
22) Benzo(a)pyrene	18.03	252	185057	0.7500 ug/mL	100
23) Dibenzo(a,h)anthracene	20.35	278	120792	0.7117 ug/mL	99
24) Indeno(1,2,3-cd)pyrene	20.28	276	143980	0.5531 ug/mL#	98
25) Benzo(g,h,i)perylene	20.92	276	169201	0.7589 ug/mL#	97

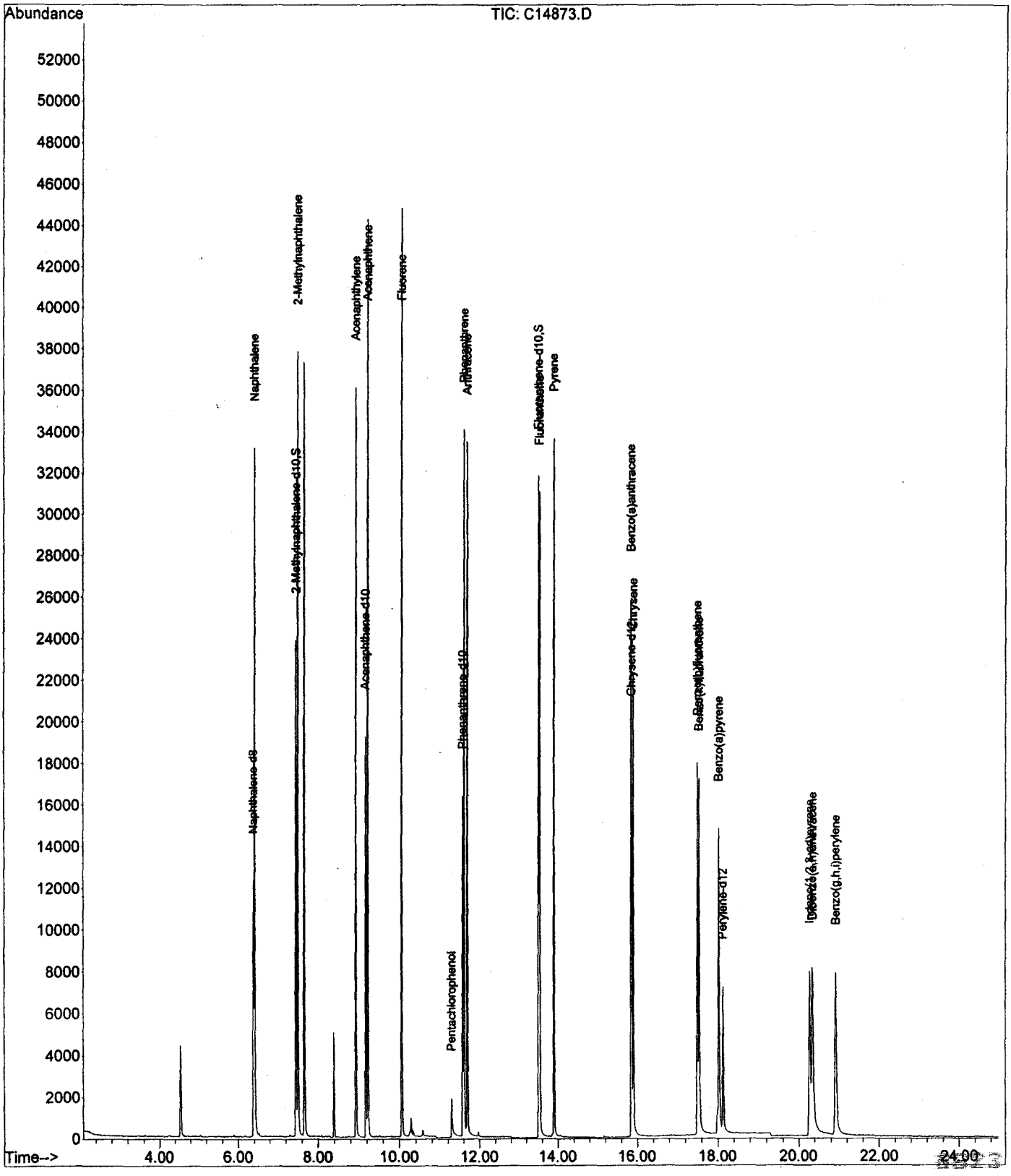
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0822

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14873.D
Acq On : 12/09/11 11:49 Operator: SK
Sample : SSTD0.8YJ Inst : C5975
Misc : SSTD0.8YJ INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 09:56:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:56:24 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14874.D
Acq On : 12/09/11 12:20
Sample : SSTD0.4YJ
Misc : SSTD0.4YJ INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42044 SDG XOP87
Episode S-4451 init/date 12/12/11

Quant Time: Dec 12 09:57:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:57:01 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.38	136	159716	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	94300	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	150720	0.4000	ug/mL	0.00
15) Chrysene-d12	15.86	240	77586	0.4000	ug/mL	0.00
19) Perylene-d12	18.13	264	67675	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.46	152	106034	0.4151	ug/mL	0.00
Spiked Amount 0.400			Recovery	= 103.77%		
13) Fluoranthene-d10	13.51	212	144378	0.3967	ug/mL	0.00
Spiked Amount 0.400			Recovery	= 99.17%		
Target Compounds						Qvalue
2) Naphthalene	6.41	128	175576	0.4253	ug/mL	99
4) 2-Methylnaphthalene	7.51	142	107678	0.4026	ug/mL	100
6) Acenaphthylene	8.94	152	166564	0.4151	ug/mL	100
7) Acenaphthene	9.23	154	98352	0.4263	ug/mL	99
8) Fluorene	10.07	166	114965	0.4117	ug/mL	100
10) Pentachlorophenol	11.29	266	4526	0.1302	ug/mL	90
11) Phenanthrene	11.61	178	149075	0.4279	ug/mL	99
12) Anthracene	11.69	178	152345	0.4765	ug/mL	100
14) Fluoranthene	13.54	202	141873	0.3977	ug/mL	99
16) Benzo(a)anthracene	15.85	228	91808	0.4141	ug/mL	100
17) Chrysene	15.90	228	95614	0.4220	ug/mL	98
18) Pyrene	13.90	202	144874	0.4635	ug/mL	99
20) Benzo(b)fluoranthene	17.50	252	77335	0.3806	ug/mL	100
21) Benzo(k)fluoranthene	17.54	252	91771	0.3984	ug/mL	98
22) Benzo(a)pyrene	18.03	252	81073	0.4000	ug/mL	99
23) Dibenzo(a,h)anthracene	20.35	278	48603	0.3580	ug/mL	97
24) Indeno(1,2,3-cd)pyrene	20.28	276	60372	0.3020	ug/mL#	97
25) Benzo(g,h,i)perylene	20.92	276	74110	0.4049	ug/mL#	100

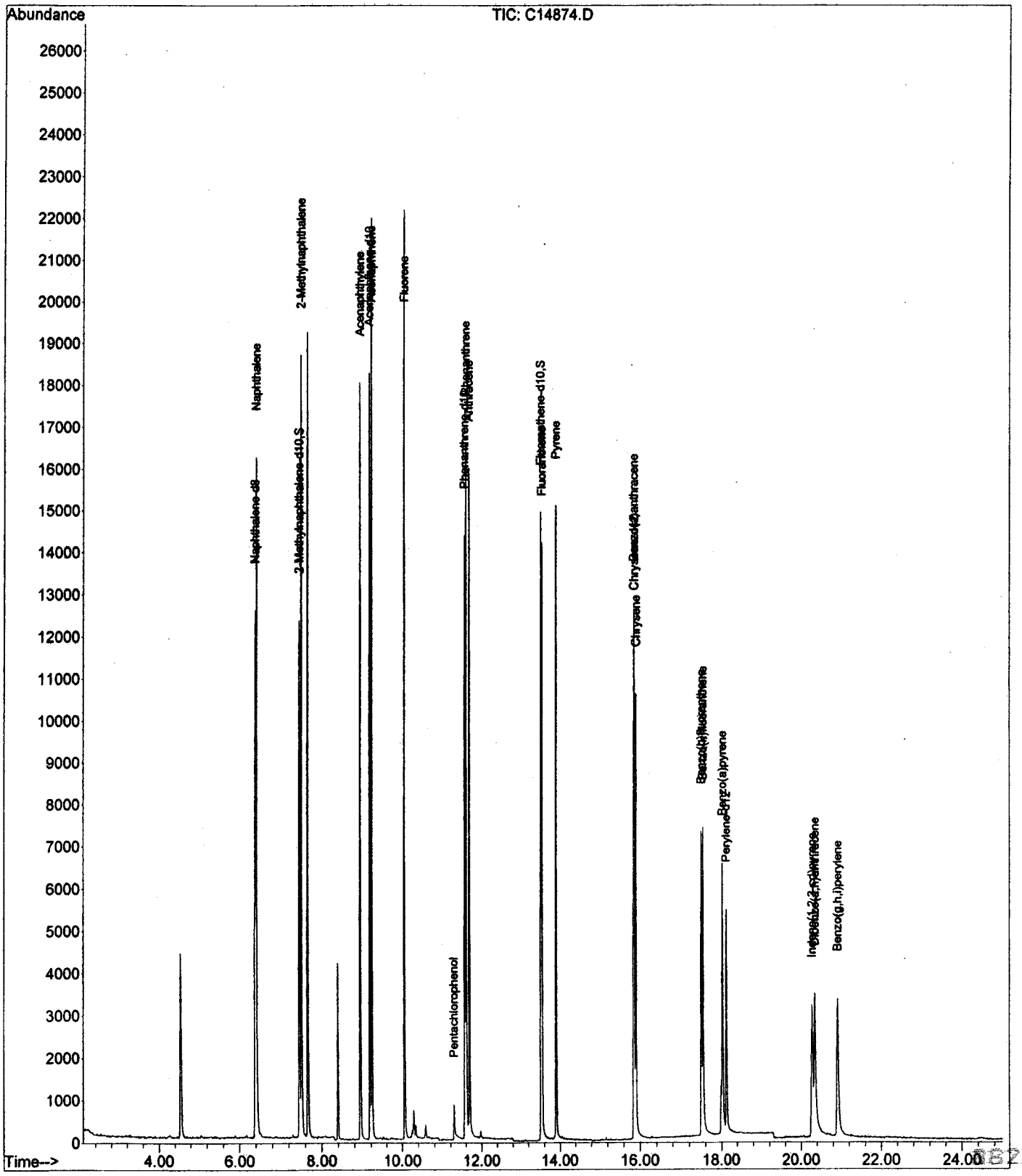
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8824

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14874.D
Acq On : 12/09/11 12:20 Operator: SK
Sample : SSTD0.4YJ Inst : C5975
Misc : SSTD0.4YJ INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 09:57:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:57:01 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14875.D
Acq On : 12/09/11 12:51
Sample : SSTD0.2YJ
Misc : SSTD0.2YJ INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42044 SDG XOP87
Episode S-4451 init/date 12/12/11

Quant Time: Dec 12 09:57:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:57:31 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.38	136	189005	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	112682	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	179116	0.4000	ug/mL	0.00
15) Chrysene-d12	15.86	240	89855	0.4000	ug/mL	0.00
19) Perylene-d12	18.13	264	72367	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.46	152	56255	0.1872	ug/mL	0.00
Spiked Amount 0.400			Recovery =	46.80%		
13) Fluoranthene-d10	13.51	212	75603	0.1776	ug/mL	0.00
Spiked Amount 0.400			Recovery =	44.40%		
Target Compounds						Qvalue
2) Naphthalene	6.41	128	95503	0.1941	ug/mL	98
4) 2-Methylnaphthalene	7.51	142	57554	0.1842	ug/mL	99
6) Acenaphthylene	8.94	152	88796	0.1866	ug/mL	99
7) Acenaphthene	9.23	154	52490	0.1896	ug/mL	99
8) Fluorene	10.07	166	60429	0.1825	ug/mL	100
10) Pentachlorophenol	11.29	266	2870	0.0955	ug/mL	86
11) Phenanthrene	11.61	178	79651	0.1921	ug/mL	99
12) Anthracene	11.70	178	78527	0.1983	ug/mL	99
14) Fluoranthene	13.54	202	75013	0.1796	ug/mL	100
16) Benzo(a)anthracene	15.85	228	49756	0.1913	ug/mL	99
17) Chrysene	15.90	228	52275	0.1960	ug/mL	100
18) Pyrene	13.90	202	77560	0.2082	ug/mL	99
20) Benzo(b)fluoranthene	17.50	252	39601	0.1837	ug/mL	99
21) Benzo(k)fluoranthene	17.54	252	47589	0.1925	ug/mL	98
22) Benzo(a)pyrene	18.03	252	40531	0.1870	ug/mL	96
23) Dibenzo(a,h)anthracene	20.35	278	22681	0.1604	ug/mL	98
24) Indeno(1,2,3-cd)pyrene	20.28	276	29581	0.1490	ug/mL#	97
25) Benzo(g,h,i)perylene	20.92	276	35815	0.1820	ug/mL#	98

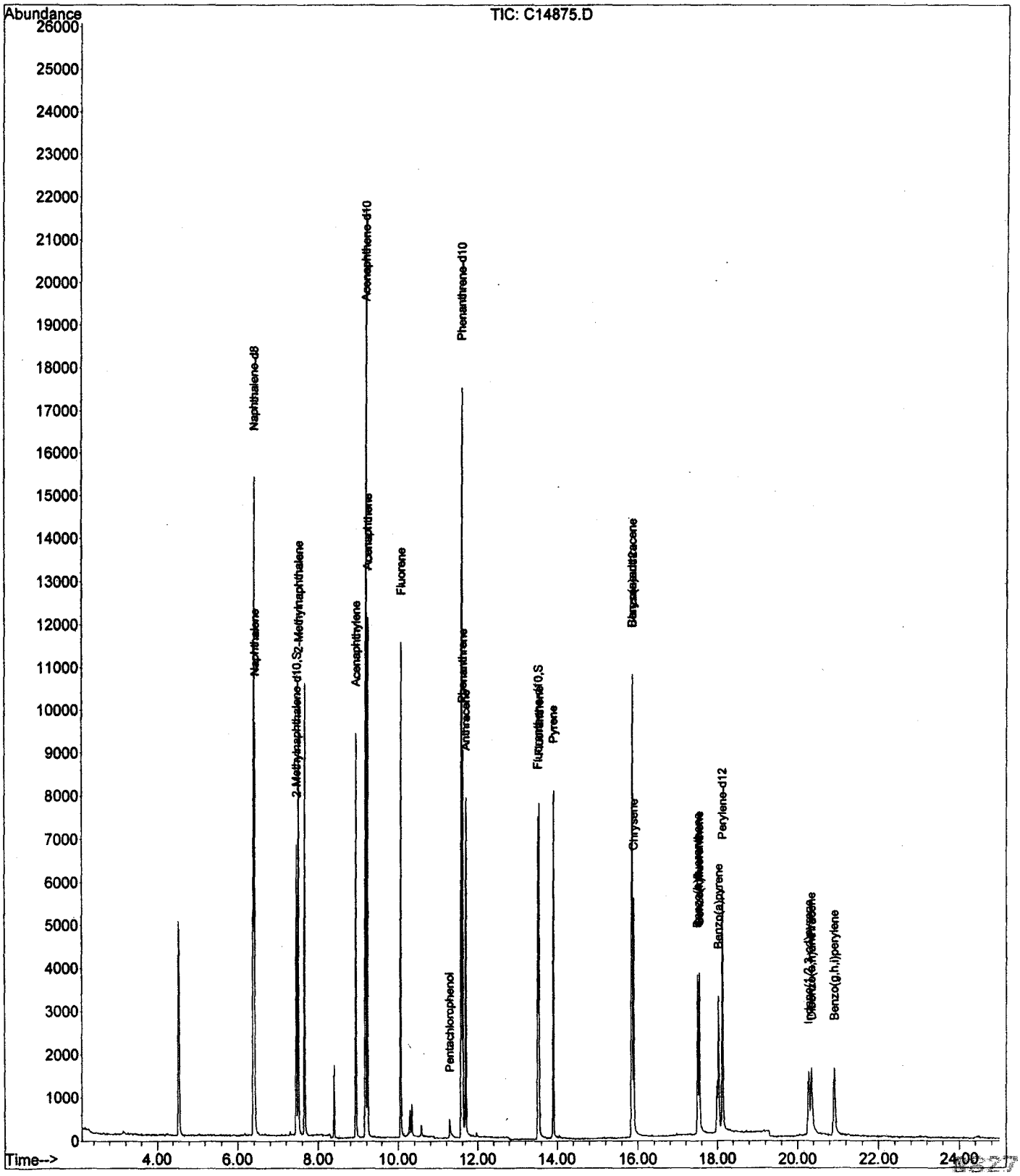
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0826

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14875.D
Acq On : 12/09/11 12:51 Operator: SK
Sample : SSTD0.2YJ Inst : C5975
Misc : SSTD0.2YJ INJ VOL: 1UL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 09:57:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:57:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14876.D
Acq On : 12/09/11 13:22
Sample : SSTD0.1YJ
Misc : SSTD0.1YJ INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42044 SDG XQP87
Episode S-4451 init/date 12/12/11

Quant Time: Dec 12 09:58:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:58:07 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.38	136	187950	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	113107	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	187864	0.4000	ug/mL	0.00
15) Chrysene-d12	15.86	240	104225	0.4000	ug/mL	0.00
19) Perylene-d12	18.13	264	89481	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.46	152	28031	0.0965	ug/mL	0.00
Spiked Amount 0.400			Recovery =	24.13%		
13) Fluoranthene-d10	13.51	212	41416	0.0965	ug/mL	0.00
Spiked Amount 0.400			Recovery =	24.13%		
Target Compounds						Qvalue
2) Naphthalene	6.41	128	46769	0.0969	ug/mL	98
4) 2-Methylnaphthalene	7.51	142	28501	0.0951	ug/mL	99
6) Acenaphthylene	8.94	152	44272	0.0948	ug/mL	98
7) Acenaphthene	9.23	154	25882	0.0950	ug/mL	98
8) Fluorene	10.07	166	31205	0.0968	ug/mL	99
11) Phenanthrene	11.61	178	41734	0.0979	ug/mL	98
12) Anthracene	11.69	178	42492	0.1011	ug/mL	99
14) Fluoranthene	13.54	202	41045	0.0973	ug/mL	99
16) Benzo(a)anthracene	15.85	228	32364	0.1096	ug/mL	99
17) Chrysene	15.90	228	35140	0.1153	ug/mL	99
18) Pyrene	13.90	202	43317	0.1003	ug/mL	98
20) Benzo(b)fluoranthene	17.50	252	25869	0.1015	ug/mL	97
21) Benzo(k)fluoranthene	17.54	252	31681	0.1063	ug/mL	99
22) Benzo(a)pyrene	18.03	252	27558	0.1056	ug/mL	97
23) Dibenzo(a,h)anthracene	20.35	278	15047	0.0924	ug/mL	97
24) Indeno(1,2,3-cd)pyrene	20.28	276	25553	0.1170	ug/mL#	90
25) Benzo(g,h,i)perylene	20.92	276	23837	0.1008	ug/mL#	98

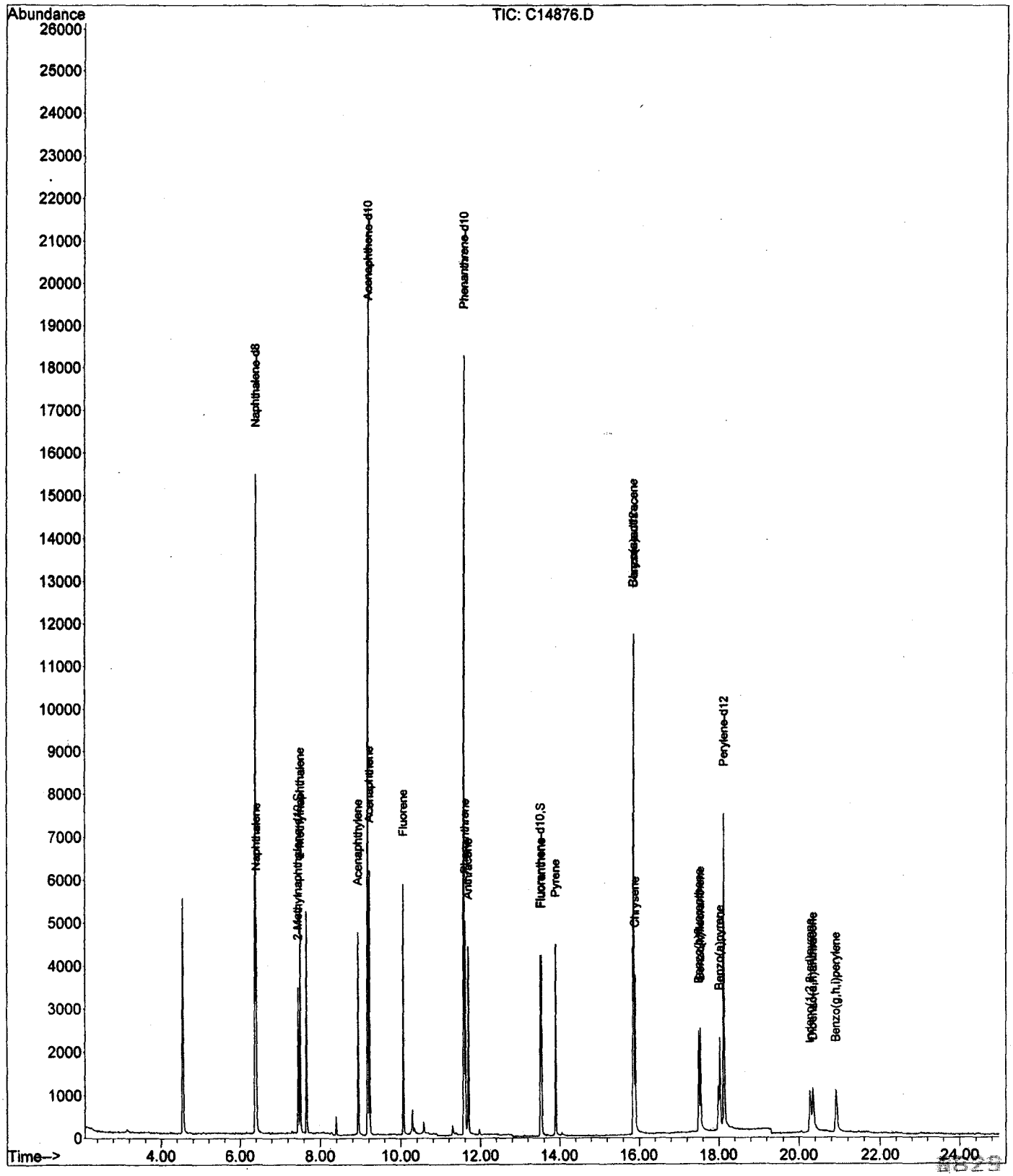
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0828

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14876.D
Acq On : 12/09/11 13:22 Operator: SK
Sample : SSTD0.1YJ Inst : C5975
Misc : SSTD0.1YJ INJ VOL: 1UL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 09:58:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:58:07 2011
Response via : Initial Calibration



7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date: 12/15/2011 Time: 1036

Lab File ID: C14915 Init. Calib Date(s): 12/09/2011 12/09/2011

EPA Sample No.(SSTD020##): SSTD0.4YP Init. Calib Times: 1115 1322

Heated Purge: (Y/N) GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.0348	1.0520	0.700	1.7	25.0
2-Methylnaphthalene	0.6298	0.6370	0.400	1.1	25.0
Acenaphthylene	1.6338	1.6420	0.900	0.5	25.0
Acenaphthene	0.9570	0.9860	0.900	3.0	25.0
Fluorene	1.1308	1.1420	0.900	1.0	25.0
Pentachlorophenol	0.0358	0.0460	0.050	28.5	25.0
Phenanthrene	0.9104	0.9390	0.700	3.1	25.0
Anthracene	0.9218	0.9560	0.700	3.7	25.0
Fluoranthene	0.8694	0.8930	0.600	2.7	25.0
Pyrene	1.7050	1.7680	0.600	3.7	25.0
Benzo(a)anthracene	1.1202	1.0470	0.800	-6.5	25.0
Chrysene	1.1590	1.0770	0.700	-7.1	25.0
Benzo(b)fluoranthene	1.0922	0.8450	0.700	-22.6	25.0
Benzo(k)fluoranthene	1.2856	1.1030	0.700	-14.2	25.0
Benzo(a)pyrene	1.1328	0.9490	0.700	-16.2	25.0
Indeno(1,2,3-cd)pyrene	0.9038	0.5950	0.500	-34.2	25.0
Dibenzo(a,h)anthracene	0.6812	0.5120	0.400	-24.8	25.0
Benzo(g,h,i)perylene	1.0138	0.8080	0.500	-20.3	25.0
Fluoranthene-d10	0.8810	0.9130	0.010	3.6	25.0
2-Methylnaphthalene-d10	0.6180	0.6480	0.010	4.9	25.0

Continuing Calibration Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Mon Dec 19 09:35:57 2011
Response Via : Initial Calibration

CC Data File: C14915.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		Naphthalene-d8	1.000	1.000	0.0	119
2		Naphthalene	1.035	1.052	-1.7	114
3	S	2-Methylnaphthalene-d10	0.618	0.648	-4.9	116
4		2-Methylnaphthalene	0.630	0.637	-1.2	113
5		Acenaphthene-d10	1.000	1.000	0.0	121
6		Acenaphthylene	1.634	1.642	-0.5	113
7		Acenaphthene	0.957	0.986	-3.0	114
8		Fluorene	1.131	1.142	-1.0	113
9		Phenanthrene-d10	1.000	1.000	0.0	122
10		Pentachlorophenol	0.036	0.046	-28.5#	188#
11		Phenanthrene	0.910	0.939	-3.2	116
12		Anthracene	0.922	0.956	-3.8	116
13	S	Fluoranthene-d10	0.881	0.913	-3.6	116
14		Fluoranthene	0.869	0.893	-2.7	116
15		Chrysene-d12	1.000	1.000	0.0	119
16		Benzo(a)anthracene	1.120	1.047	6.6	106
17		Chrysene	1.159	1.077	7.1	104
18		Pyrene	1.705	1.768	-3.7	113
19		Perylene-d12	1.000	1.000	0.0	144
20		Benzo(b)fluoranthene	1.092	0.845	22.6	106
21		Benzo(k)fluoranthene	1.286	1.103	14.2	117
22		Benzo(a)pyrene	1.133	0.949	16.2	114
23		Dibenzo(a,h)anthracene	0.681	0.512	24.8	103
24		Indeno(1,2,3-cd)pyrene	0.904	0.595	34.2#	96
25		Benzo(g,h,i)perylene	1.014	0.808	20.3	106

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14915.D
Acq On : 12/15/11 10:36
Sample : SSTD0.4YP
Misc : SSTD0.4YP INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42040 SDG F4X P0
Episode S-4460 init/date 12/19/11

Quant Time: Dec 19 09:35:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:58:46 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	190451	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	114215	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	184004	0.4000	ug/mL	0.00
15) Chrysene-d12	15.87	240	92602	0.4000	ug/mL	0.00
19) Perylene-d12	18.14	264	97241	0.4000	ug/mL	0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	123402	0.4195	ug/mL	0.00
Spiked Amount 0.400			Recovery	= 104.87%		
13) Fluoranthene-d10	13.52	212	168006	0.4145	ug/mL	0.00
Spiked Amount 0.400			Recovery	= 103.62%		
Target Compounds						Qvalue
2) Naphthalene	6.42	128	200394	0.4067	ug/mL	100
4) 2-Methylnaphthalene	7.52	142	121331	0.4046	ug/mL	100
6) Acenaphthylene	8.95	152	187496	0.4019	ug/mL	99
7) Acenaphthene	9.23	154	112572	0.4119	ug/mL	99
8) Fluorene	10.07	166	130450	0.4040	ug/mL	98
10) Pentachlorophenol	11.30	266	8511	0.5139	ug/mL	97
11) Phenanthrene	11.62	178	172850	0.4127	ug/mL	99
12) Anthracene	11.70	178	175976	0.4151	ug/mL	100
14) Fluoranthene	13.55	202	164238	0.4107	ug/mL	99
16) Benzo(a)anthracene	15.86	228	96961	0.3738	ug/mL	99
17) Chrysene	15.91	228	99743	0.3717	ug/mL	99
18) Pyrene	13.91	202	163681	0.4146	ug/mL	100
20) Benzo(b)fluoranthene	17.51	252	82186	0.3095	ug/mL	99
21) Benzo(k)fluoranthene	17.55	252	107271	0.3432	ug/mL	98
22) Benzo(a)pyrene	18.04	252	92328	0.3352	ug/mL#	86
23) Dibenzo(a,h)anthracene	20.37	278	49821	0.3009	ug/mL	94
24) Indeno(1,2,3-cd)pyrene	20.30	276	57847	0.2633	ug/mL#	100
25) Benzo(g,h,i)perylene	20.94	276	78586	0.3189	ug/mL#	95

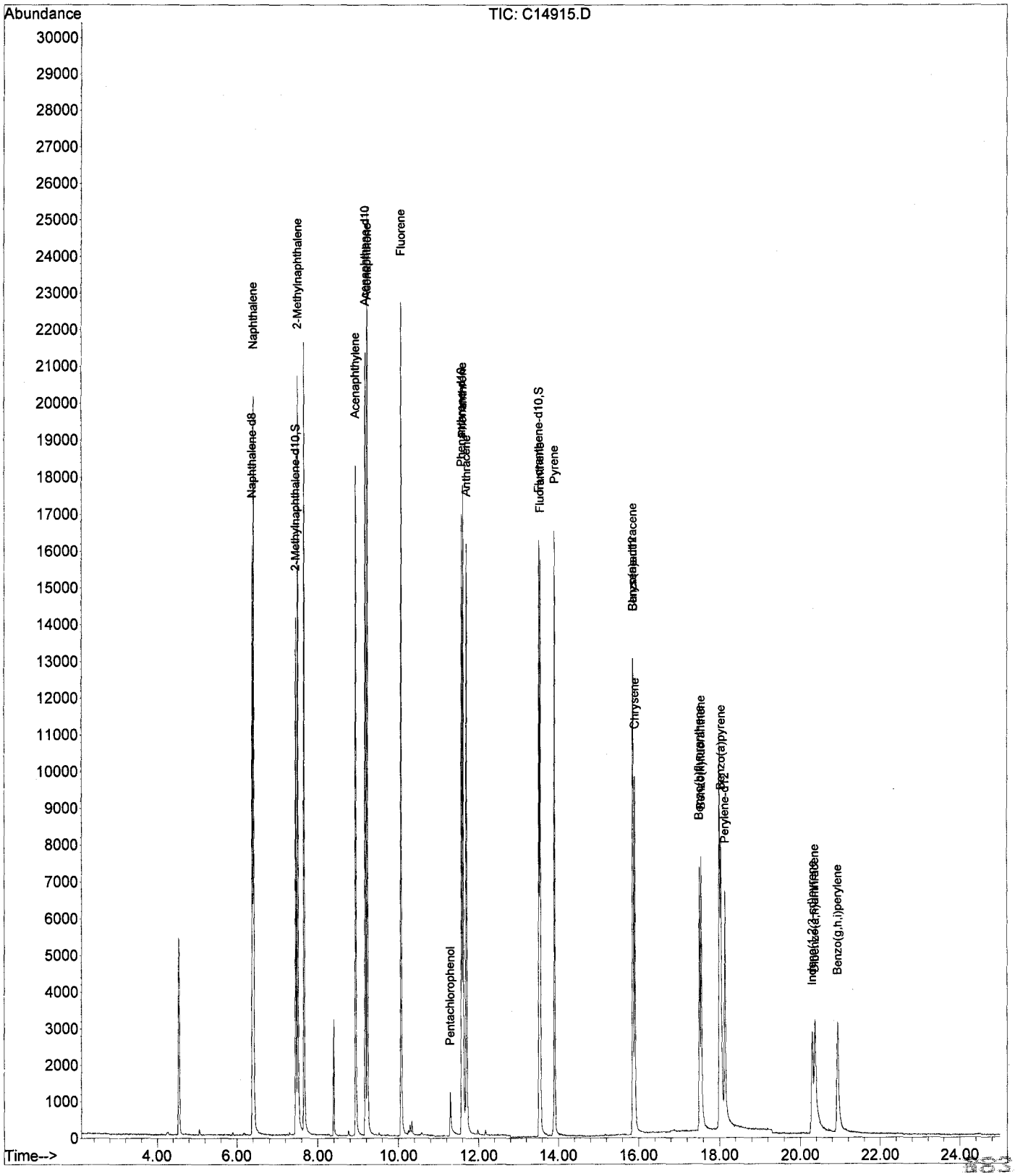
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6832

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14915.D
Acq On : 12/15/11 10:36 Operator: SK
Sample : SSTD0.4YP Inst : C5975
Misc : SSTD0.4YP INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 09:35:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 12 09:58:46 2011
Response via : Initial Calibration



7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date: 12/15/2011 Time: 1901

Lab File ID: C14928 Init. Calib Date(s): 12/09/2011 12/09/2011

EPA Sample No.(SSTD020##): SSTD0.4YQ Init. Calib Times: 1115 1322

Heated Purge: (Y/N) GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.0348	1.0590	0.010	2.3	50.0
2-Methylnaphthalene	0.6298	0.6560	0.010	4.2	50.0
Acenaphthylene	1.6338	1.7350	0.010	6.2	50.0
Acenaphthene	0.9570	1.0230	0.010	6.9	50.0
Fluorene	1.1308	1.2240	0.010	8.2	50.0
Pentachlorophenol	0.0358	0.0430	0.010	20.1	50.0
Phenanthrene	0.9104	0.9810	0.010	7.8	50.0
Anthracene	0.9218	1.0190	0.010	10.5	50.0
Fluoranthene	0.8694	0.9530	0.010	9.6	50.0
Pyrene	1.7050	1.7730	0.010	4.0	50.0
Benzo(a)anthracene	1.1202	1.1370	0.010	1.5	50.0
Chrysene	1.1590	1.1280	0.010	-2.7	50.0
Benzo(b)fluoranthene	1.0922	0.8460	0.010	-22.5	50.0
Benzo(k)fluoranthene	1.2856	0.9650	0.010	-24.9	50.0
Benzo(a)pyrene	1.1328	0.8430	0.010	-25.6	50.0
Indeno(1,2,3-cd)pyrene	0.9038	0.6960	0.010	-23.0	50.0
Dibenzo(a,h)anthracene	0.6812	0.5530	0.010	-18.8	50.0
Benzo(g,h,i)perylene	1.0138	0.7620	0.010	-24.8	50.0
Fluoranthene-d10	0.8810	0.9580	0.010	8.7	50.0
2-Methylnaphthalene-d10	0.6180	0.6360	0.010	2.9	50.0

Continuing Calibration Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Mon Dec 19 09:59:36 2011
Response Via : Initial Calibration

CC Data File: C14928.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		Naphthalene-d8	1.000	1.000	0.0	105
2		Naphthalene	1.035	1.059	-2.3	101
3	S	2-Methylnaphthalene-d10	0.618	0.636	-3.0	101
4		2-Methylnaphthalene	0.630	0.656	-4.2	102
5		Acenaphthene-d10	1.000	1.000	0.0	106
6		Acenaphthylene	1.634	1.735	-6.2	104
7		Acenaphthene	0.957	1.023	-6.9	104
8		Fluorene	1.131	1.224	-8.2	107
9		Phenanthrene-d10	1.000	1.000	0.0	109
10		Pentachlorophenol	0.036	0.043	-18.9	155#
11		Phenanthrene	0.910	0.981	-7.7	108
12		Anthracene	0.922	1.019	-10.6	110
13	S	Fluoranthene-d10	0.881	0.958	-8.8	109
14		Fluoranthene	0.869	0.953	-9.6	110
15		Chrysene-d12	1.000	1.000	0.0	116
16		Benzo(a)anthracene	1.120	1.137	-1.5	112
17		Chrysene	1.159	1.128	2.7	106
18		Pyrene	1.705	1.773	-4.0	110
19		Perylene-d12	1.000	1.000	0.0	161#
20		Benzo(b)fluoranthene	1.092	0.846	22.6	119
21		Benzo(k)fluoranthene	1.286	0.965	25.0	115
22		Benzo(a)pyrene	1.133	0.843	25.6#	114
23		Dibenzo(a,h)anthracene	0.681	0.553	18.8	124
24		Indeno(1,2,3-cd)pyrene	0.904	0.696	23.0	126
25		Benzo(g,h,i)perylene	1.014	0.762	24.8	112

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14928.D
Acq On : 12/15/11 19:01
Sample : SSTD0.4YQ
Misc : SSTD0.4YQ INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 19 09:57:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/19/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	6.39	136	167619	0.4000 ug/mL	0.00
5) Acenaphthene-d10	9.19	164	100119	0.4000 ug/mL	0.00
9) Phenanthrene-d10	11.59	188	163767	0.4000 ug/mL	0.00
15) Chrysene-d12	15.88	240	90123	0.4000 ug/mL	0.00
19) Perylene-d12	18.15	264	109226	0.4000 ug/mL	0.01
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.47	152	106641	0.4119 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 102.97%	
13) Fluoranthene-d10	13.53	212	156959	0.4351 ug/mL	0.00
Spiked Amount 0.400			Recovery	= 108.78%	
Target Compounds					Qvalue
2) Naphthalene	6.42	128	177529	0.4094 ug/mL	100
4) 2-Methylnaphthalene	7.52	142	110005	0.4168 ug/mL	98
6) Acenaphthylene	8.95	152	173691	0.4247 ug/mL	100
7) Acenaphthene	9.24	154	102414	0.4275 ug/mL	99
8) Fluorene	10.08	166	122543	0.4330 ug/mL	99
10) Pentachlorophenol	11.31	266	7007	0.4754 ug/mL	90
11) Phenanthrene	11.63	178	160633	0.4310 ug/mL	99
12) Anthracene	11.71	178	166874	0.4423 ug/mL	100
14) Fluoranthene	13.56	202	156054	0.4384 ug/mL	99
16) Benzo(a)anthracene	15.86	228	102490	0.4060 ug/mL	99
17) Chrysene	15.92	228	101678	0.3894 ug/mL	99
18) Pyrene	13.92	202	159767	0.4159 ug/mL	99
20) Benzo(b)fluoranthene	17.52	252	92394	0.3097 ug/mL	99
21) Benzo(k)fluoranthene	17.56	252	105360	0.3001 ug/mL	99
22) Benzo(a)pyrene	18.05	252	92128	0.2978 ug/mL	98
23) Dibenzo(a,h)anthracene	20.39	278	60408	0.3248 ug/mL	99
24) Indeno(1,2,3-cd)pyrene	20.32	276	75969	0.3078 ug/mL#	98
25) Benzo(g,h,i)perylene	20.96	276	83221	0.3006 ug/mL#	98

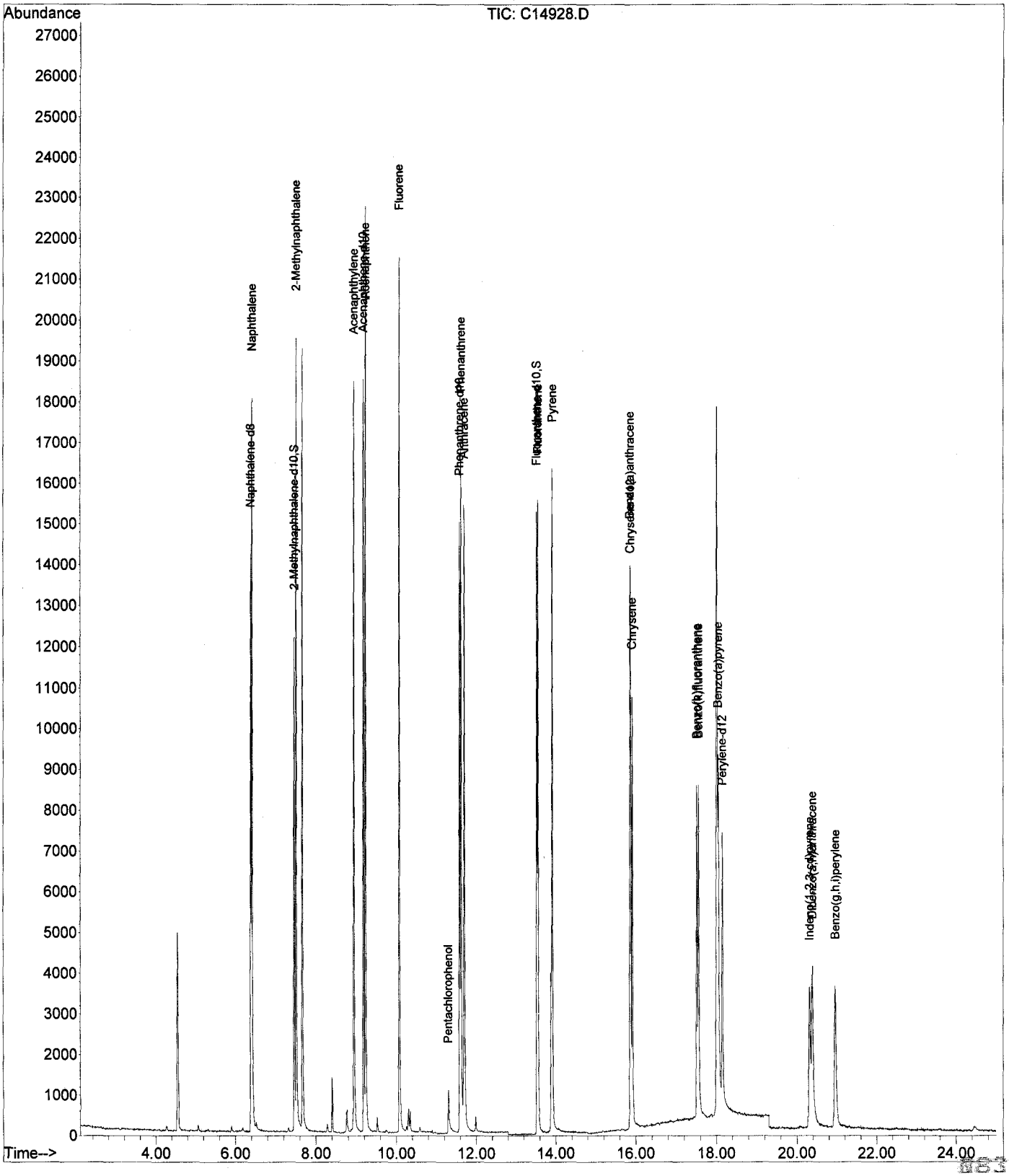
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0836

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14928.D
Acq On : 12/15/11 19:01 Operator: SK
Sample : SSTD0.4YQ Inst : C5975
Misc : SSTD0.4YQ INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 19 09:57:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date: 12/19/2011 Time: 1108

Lab File ID: C14930 Init. Calib Date(s): 12/09/2011 12/09/2011

EPA Sample No.(SSTD020##): SSTD0.4YR Init. Calib Times: 1115 1322

Heated Purge: (Y/N) GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.0348	1.0840	0.700	4.8	25.0
2-Methylnaphthalene	0.6298	0.6650	0.400	5.6	25.0
Acenaphthylene	1.6338	1.6900	0.900	3.4	25.0
Acenaphthene	0.9570	1.0030	0.900	4.8	25.0
Fluorene	1.1308	1.1970	0.900	5.9	25.0
Pentachlorophenol	0.0358	0.0430	0.050	20.1	25.0
Phenanthrene	0.9104	0.9450	0.700	3.8	25.0
Anthracene	0.9218	0.9640	0.700	4.6	25.0
Fluoranthene	0.8694	0.9240	0.600	6.3	25.0
Pyrene	1.7050	1.7590	0.600	3.2	25.0
Benzo(a)anthracene	1.1202	1.1030	0.800	-1.5	25.0
Chrysene	1.1590	1.1250	0.700	-2.9	25.0
Benzo(b)fluoranthene	1.0922	1.0000	0.700	-8.4	25.0
Benzo(k)fluoranthene	1.2856	1.2350	0.700	-3.9	25.0
Benzo(a)pyrene	1.1328	1.0600	0.700	-6.4	25.0
Indeno(1,2,3-cd)pyrene	0.9038	0.7990	0.500	-11.6	25.0
Dibenzo(a,h)anthracene	0.6812	0.6190	0.400	-9.1	25.0
Benzo(g,h,i)perylene	1.0138	0.8920	0.500	-12.0	25.0
Fluoranthene-d10	0.8810	0.9530	0.010	8.2	25.0
2-Methylnaphthalene-d10	0.6180	0.6780	0.010	9.7	25.0

Continuing Calibration Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Tue Dec 20 10:18:38 2011
Response Via : Initial Calibration

CC Data File: C14930.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		Naphthalene-d8	1.000	1.000	0.0	105
2		Naphthalene	1.035	1.084	-4.8	104
3	S	2-Methylnaphthalene-d10	0.618	0.678	-9.8	107
4		2-Methylnaphthalene	0.630	0.665	-5.7	104
5		Acenaphthene-d10	1.000	1.000	0.0	114
6		Acenaphthylene	1.634	1.690	-3.4	109
7		Acenaphthene	0.957	1.003	-4.8	109
8		Fluorene	1.131	1.197	-5.9	112
9		Phenanthrene-d10	1.000	1.000	0.0	120
10		Pentachlorophenol	0.036	0.043	-19.7	172#
11		Phenanthrene	0.910	0.945	-3.7	115
12		Anthracene	0.922	0.964	-4.6	114
13	S	Fluoranthene-d10	0.881	0.953	-8.2	119
14		Fluoranthene	0.869	0.924	-6.3	118
15		Chrysene-d12	1.000	1.000	0.0	124
16		Benzo(a)anthracene	1.120	1.103	1.6	116
17		Chrysene	1.159	1.125	2.9	114
18		Pyrene	1.705	1.759	-3.1	117
19		Perylene-d12	1.000	1.000	0.0	135
20		Benzo(b)fluoranthene	1.092	1.000	8.5	118
21		Benzo(k)fluoranthene	1.286	1.235	3.9	123
22		Benzo(a)pyrene	1.133	1.060	6.4	119
23		Dibenzo(a,h)anthracene	0.681	0.619	9.1	116
24		Indeno(1,2,3-cd)pyrene	0.904	0.799	11.6	121
25		Benzo(g,h,i)perylene	1.014	0.892	12.0	110

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14930.D
Acq On : 12/19/11 11:08
Sample : SSTD0.4YR
Misc : SSTD0.4YR INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42240 SDG F4XP0
Episode S-4460 init/date 12/20/11

Quant Time: Dec 20 10:18:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:14 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	167882	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	107099	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.59	188	180916	0.4000	ug/mL	0.00
15) Chrysene-d12	15.88	240	96565	0.4000	ug/mL	0.00
19) Perylene-d12	18.15	264	91213	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	113863	0.4391	ug/mL	0.00
Spiked Amount 0.400			Recovery	= 109.78%		
13) Fluoranthene-d10	13.53	212	172495	0.4329	ug/mL	0.00
Spiked Amount 0.400			Recovery	= 108.22%		
Target Compounds						Qvalue
2) Naphthalene	6.42	128	181999	0.4190	ug/mL	100
4) 2-Methylnaphthalene	7.52	142	111713	0.4226	ug/mL	99
6) Acenaphthylene	8.95	152	180978	0.4137	ug/mL	99
7) Acenaphthene	9.24	154	107419	0.4192	ug/mL	98
8) Fluorene	10.08	166	128220	0.4235	ug/mL	100
10) Pentachlorophenol	11.31	266	7794	0.4787	ug/mL#	86
11) Phenanthrene	11.63	178	170883	0.4150	ug/mL	100
12) Anthracene	11.71	178	174415	0.4184	ug/mL	99
14) Fluoranthene	13.56	202	167143	0.4250	ug/mL	99
16) Benzo(a)anthracene	15.87	228	106488	0.3937	ug/mL	100
17) Chrysene	15.92	228	108671	0.3884	ug/mL	99
18) Pyrene	13.92	202	169819	0.4125	ug/mL	98
20) Benzo(b)fluoranthene	17.52	252	91191	0.3661	ug/mL	100
21) Benzo(k)fluoranthene	17.56	252	112644	0.3842	ug/mL	97
22) Benzo(a)pyrene	18.05	252	96720	0.3744	ug/mL	99
23) Dibenzo(a,h)anthracene	20.39	278	56472	0.3636	ug/mL	99
24) Indeno(1,2,3-cd)pyrene	20.32	276	72854	0.3535	ug/mL#	95
25) Benzo(g,h,i)perylene	20.96	276	81347	0.3519	ug/mL#	97

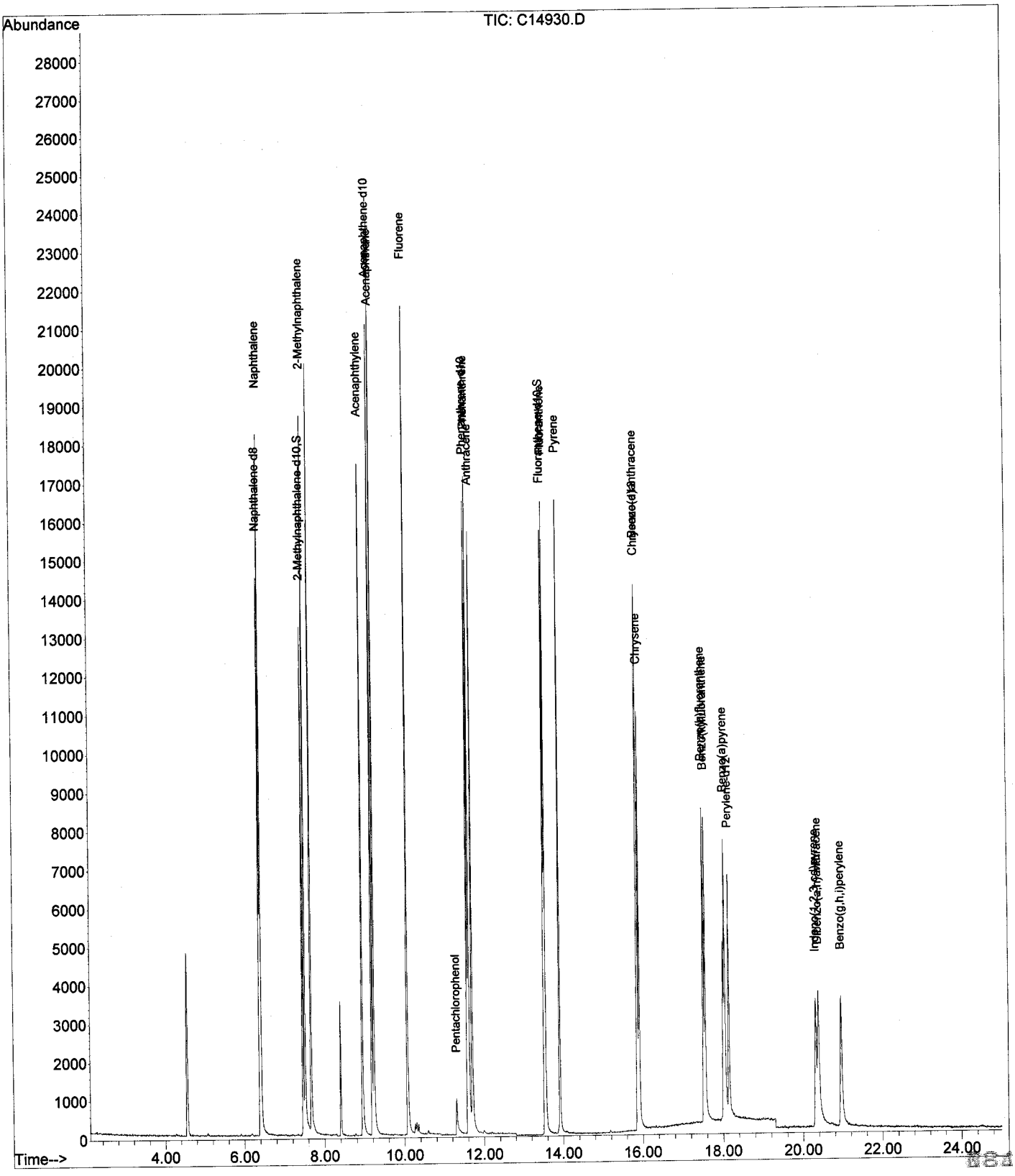
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14930.D
Acq On : 12/19/11 11:08
Sample : SSTD0.4YR
Misc : SSTD0.4YR INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:18:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:14 2011
Response via : Initial Calibration



7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date: 12/19/2011 Time: 1915

Lab File ID: C14944 Init. Calib Date(s): 12/09/2011 12/09/2011

EPA Sample No.(SSTD020##): SSTD0.4YS Init. Calib Times: 1115 1322

Heated Purge: (Y/N) GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.0348	0.9850	0.010	-4.8	50.0
2-Methylnaphthalene	0.6298	0.6150	0.010	-2.3	50.0
Acenaphthylene	1.6338	1.6180	0.010	-1.0	50.0
Acenaphthene	0.9570	0.9400	0.010	-1.8	50.0
Fluorene	1.1308	1.1570	0.010	2.3	50.0
Pentachlorophenol	0.0358	0.0430	0.010	20.1	50.0
Phenanthrene	0.9104	0.8820	0.010	-3.1	50.0
Anthracene	0.9218	0.9320	0.010	1.1	50.0
Fluoranthene	0.8694	0.9460	0.010	8.8	50.0
Pyrene	1.7050	1.5050	0.010	-11.7	50.0
Benzo(a)anthracene	1.1202	1.0660	0.010	-4.8	50.0
Chrysene	1.1590	1.0400	0.010	-10.3	50.0
Benzo(b)fluoranthene	1.0922	0.8920	0.010	-18.3	50.0
Benzo(k)fluoranthene	1.2856	0.9880	0.010	-23.1	50.0
Benzo(a)pyrene	1.1328	0.8860	0.010	-21.8	50.0
Indeno(1,2,3-cd)pyrene	0.9038	0.8680	0.010	-4.0	50.0
Dibenzo(a,h)anthracene	0.6812	0.5660	0.010	-16.9	50.0
Benzo(g,h,i)perylene	1.0138	0.7820	0.010	-22.9	50.0
Fluoranthene-d10	0.8810	0.9830	0.010	11.6	50.0
2-Methylnaphthalene-d10	0.6180	0.6110	0.010	-1.1	50.0

0812

Continuing Calibration Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Tue Dec 20 10:38:20 2011
Response Via : Initial Calibration

CC Data File: C14944.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		Naphthalene-d8	1.000	1.000	0.0	98
2		Naphthalene	1.035	0.985	4.8	88
3	S	2-Methylnaphthalene-d10	0.618	0.611	1.1	90
4		2-Methylnaphthalene	0.630	0.615	2.4	89
5		Acenaphthene-d10	1.000	1.000	0.0	106
6		Acenaphthylene	1.634	1.618	0.9	97
7		Acenaphthene	0.957	0.940	1.8	95
8		Fluorene	1.131	1.157	-2.4	100
9		Phenanthrene-d10	1.000	1.000	0.0	121
10		Pentachlorophenol	0.036	0.043	-18.8	173#
11		Phenanthrene	0.910	0.882	3.1	108
12		Anthracene	0.922	0.932	-1.1	112
13	S	Fluoranthene-d10	0.881	0.983	-11.6	124
14		Fluoranthene	0.869	0.946	-8.8	122
15		Chrysene-d12	1.000	1.000	0.0	155#
16		Benzo(a)anthracene	1.120	1.066	4.9	140
17		Chrysene	1.159	1.040	10.3	131
18		Pyrene	1.705	1.505	11.7	125
19		Perylene-d12	1.000	1.000	0.0	193#
20		Benzo(b)fluoranthene	1.092	0.892	18.3	150#
21		Benzo(k)fluoranthene	1.286	0.988	23.1	140
22		Benzo(a)pyrene	1.133	0.886	21.8	143
23		Dibenzo(a,h)anthracene	0.681	0.566	16.9	152#
24		Indeno(1,2,3-cd)pyrene	0.904	0.868	3.9	188#
25		Benzo(g,h,i)perylene	1.014	0.782	22.9	138

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14944.D
Acq On : 12/19/11 19:15
Sample : SSTD0.4YS
Misc : SSTD0.4YS INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/20/11

Quant Time: Dec 20 10:31:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

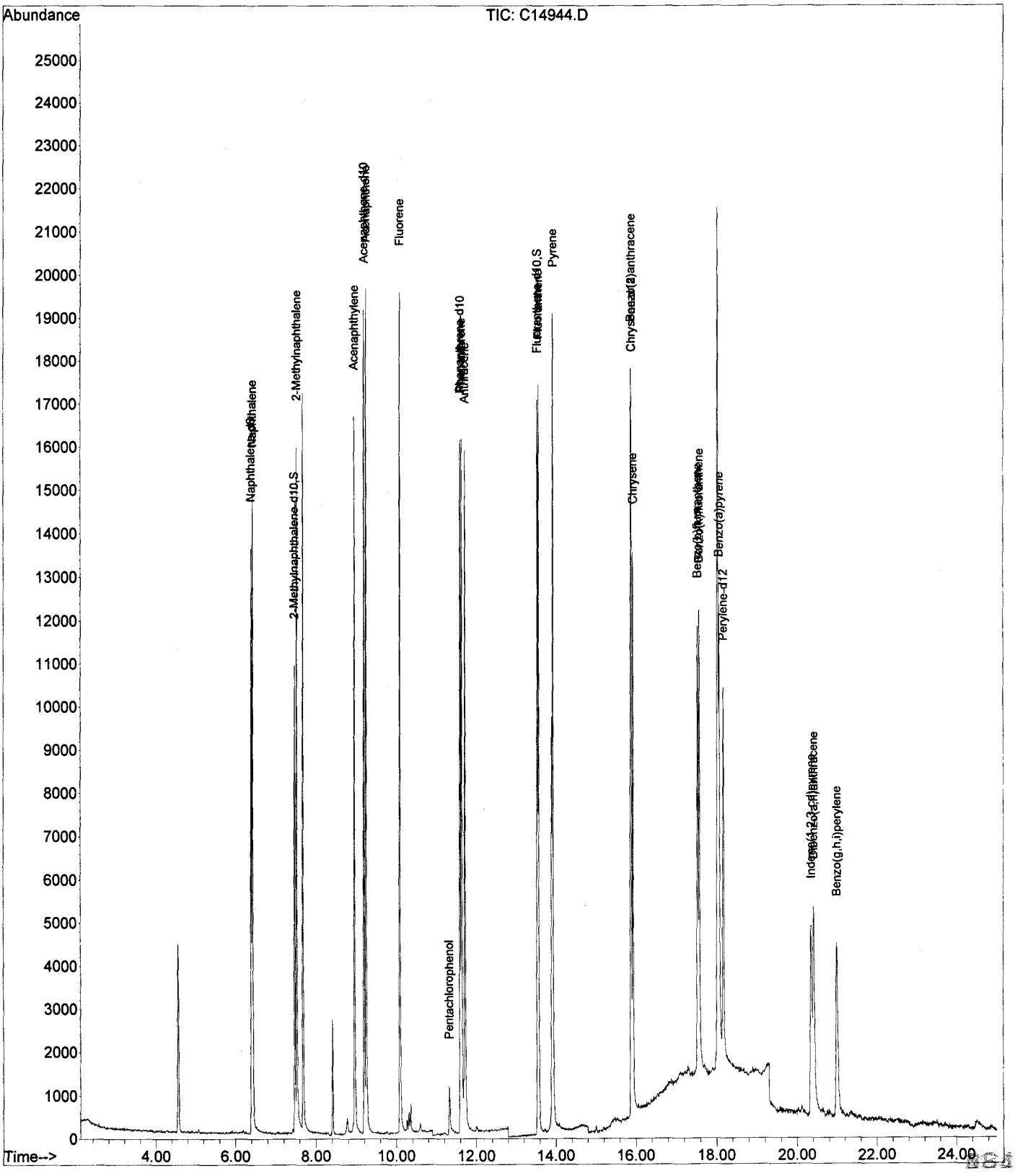
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	156539	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	99730	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	182656	0.4000	ug/mL	0.01
15) Chrysene-d12	15.89	240	120452	0.4000	ug/mL	0.01
19) Perylene-d12	18.17	264	130455	0.4000	ug/mL	0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	95623	0.3954	ug/mL	0.00
Spiked Amount 0.400			Recovery =	98.85%		
13) Fluoranthene-d10	13.54	212	179602	0.4464	ug/mL	0.01
Spiked Amount 0.400			Recovery =	111.60%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	154168	0.3807	ug/mL	100
4) 2-Methylnaphthalene	7.53	142	96221	0.3904	ug/mL	99
6) Acenaphthylene	8.96	152	161408	0.3962	ug/mL	100
7) Acenaphthene	9.25	154	93749	0.3929	ug/mL	98
8) Fluorene	10.09	166	115436	0.4095	ug/mL	100
10) Pentachlorophenol	11.33	266	7813	0.4753	ug/mL	95
11) Phenanthrene	11.64	178	161105	0.3875	ug/mL	100
12) Anthracene	11.72	178	170183	0.4044	ug/mL	99
14) Fluoranthene	13.57	202	172803	0.4353	ug/mL	99
16) Benzo(a)anthracene	15.88	228	128354	0.3804	ug/mL	99
17) Chrysene	15.93	228	125217	0.3588	ug/mL	98
18) Pyrene	13.93	202	181295	0.3531	ug/mL	99
20) Benzo(b)fluoranthene	17.54	252	116370	0.3266	ug/mL#	91
21) Benzo(k)fluoranthene	17.58	252	128923	0.3075	ug/mL#	94
22) Benzo(a)pyrene	18.07	252	115627	0.3129	ug/mL#	51
23) Dibenzo(a,h)anthracene	20.42	278	73822	0.3323	ug/mL	98
24) Indeno(1,2,3-cd)pyrene	20.35	276	113264	0.3843	ug/mL#	88
25) Benzo(g,h,i)perylene	21.00	276	101966	0.3084	ug/mL#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14944.D
Acq On : 12/19/11 19:15 Operator: SK
Sample : SSTD0.4YS Inst : C5975
Misc : SSTD0.4YS INJ VOL: 1UL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 20 10:31:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date: 12/20/2011 Time: 0958

Lab File ID: C14946 Init. Calib Date(s): 12/09/2011 12/09/2011

EPA Sample No.(SSTD020##): SSTD0.4YT Init. Calib Times: 1115 1322

Heated Purge: (Y/N) GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.0348	1.1040	0.700	6.7	25.0
2-Methylnaphthalene	0.6298	0.6890	0.400	9.4	25.0
Acenaphthylene	1.6338	1.7440	0.900	6.7	25.0
Acenaphthene	0.9570	1.0270	0.900	7.3	25.0
Fluorene	1.1308	1.2550	0.900	11.0	25.0
Pentachlorophenol	0.0358	0.0490	0.050	36.9	25.0
Phenanthrene	0.9104	0.9750	0.700	7.1	25.0
Anthracene	0.9218	1.0420	0.700	13.0	25.0
Fluoranthene	0.8694	1.0060	0.600	15.7	25.0
Pyrene	1.7050	1.7830	0.600	4.6	25.0
Benzo(a)anthracene	1.1202	1.1640	0.800	3.9	25.0
Chrysene	1.1590	1.1560	0.700	-0.3	25.0
Benzo(b)fluoranthene	1.0922	1.0880	0.700	-0.4	25.0
Benzo(k)fluoranthene	1.2856	1.3170	0.700	2.4	25.0
Benzo(a)pyrene	1.1328	1.1790	0.700	4.1	25.0
Indeno(1,2,3-cd)pyrene	0.9038	1.1490	0.500	27.1	25.0
Dibenzo(a,h)anthracene	0.6812	0.7340	0.400	7.8	25.0
Benzo(g,h,i)perylene	1.0138	0.9600	0.500	-5.3	25.0
Fluoranthene-d10	0.8810	1.0450	0.010	18.6	25.0
2-Methylnaphthalene-d10	0.6180	0.6980	0.010	12.9	25.0

Continuing Calibration Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Wed Dec 21 13:42:10 2011
Response Via : Initial Calibration

CC Data File: C14946.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		Naphthalene-d8	1.000	1.000	0.0	98
2		Naphthalene	1.035	1.104	-6.7	98
3	S	2-Methylnaphthalene-d10	0.618	0.698	-13.0	103
4		2-Methylnaphthalene	0.630	0.689	-9.4	100
5		Acenaphthene-d10	1.000	1.000	0.0	107
6		Acenaphthylene	1.634	1.744	-6.8	106
7		Acenaphthene	0.957	1.027	-7.3	106
8		Fluorene	1.131	1.255	-11.0	110
9		Phenanthrene-d10	1.000	1.000	0.0	117
10		Pentachlorophenol	0.036	0.049	-37.0#	193#
11		Phenanthrene	0.910	0.975	-7.1	116
12		Anthracene	0.922	1.042	-13.1	121
13	S	Fluoranthene-d10	0.881	1.045	-18.6	128
14		Fluoranthene	0.869	1.006	-15.7	126
15		Chrysene-d12	1.000	1.000	0.0	133
16		Benzo(a)anthracene	1.120	1.164	-3.9	131
17		Chrysene	1.159	1.156	0.3	125
18		Pyrene	1.705	1.783	-4.6	127
19		Perylene-d12	1.000	1.000	0.0	135
20		Benzo(b)fluoranthene	1.092	1.088	0.5	129
21		Benzo(k)fluoranthene	1.286	1.317	-2.5	131
22		Benzo(a)pyrene	1.133	1.179	-4.0	133
23		Dibenzo(a,h)anthracene	0.681	0.734	-7.8	138
24		Indeno(1,2,3-cd)pyrene	0.904	1.149	-27.1#	174#
25		Benzo(g,h,i)perylene	1.014	0.960	5.3	119

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14946.D
Acq On : 12/20/11 09:58
Sample : SSTD0.4YT
Misc : SSTD0.4YT INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date R 12/22/11

Quant Time: Dec 21 13:41:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:41:36 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	156298	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	101062	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	177028	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	103259	0.4000	ug/mL	0.00
19) Perylene-d12	18.17	264	91578	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	109157	0.4521	ug/mL	0.00
Spiked Amount 0.400			Recovery = 113.02%			
13) Fluoranthene-d10	13.54	212	184922	0.4743	ug/mL	0.00
Spiked Amount 0.400			Recovery = 118.57%			
Target Compounds						Qvalue
2) Naphthalene	6.43	128	172501	0.4266	ug/mL	100
4) 2-Methylnaphthalene	7.53	142	107698	0.4377	ug/mL	100
6) Acenaphthylene	8.96	152	176294	0.4271	ug/mL	100
7) Acenaphthene	9.24	154	103785	0.4292	ug/mL	100
8) Fluorene	10.09	166	126864	0.4441	ug/mL	99
10) Pentachlorophenol	11.32	266	8733	0.5482	ug/mL	93
11) Phenanthrene	11.64	178	172594	0.4284	ug/mL	100
12) Anthracene	11.72	178	184533	0.4524	ug/mL	99
14) Fluoranthene	13.57	202	178085	0.4628	ug/mL	99
16) Benzo(a)anthracene	15.88	228	120155	0.4154	ug/mL	100
17) Chrysene	15.93	228	119366	0.3990	ug/mL	99
18) Pyrene	13.93	202	184126	0.4183	ug/mL	98
20) Benzo(b)fluoranthene	17.53	252	99593	0.3982	ug/mL	99
21) Benzo(k)fluoranthene	17.58	252	120629	0.4098	ug/mL	98
22) Benzo(a)pyrene	18.07	252	107937	0.4161	ug/mL	98
23) Dibenzo(a,h)anthracene	20.41	278	67209	0.4310	ug/mL	100
24) Indeno(1,2,3-cd)pyrene	20.35	276	105213	0.5085	ug/mL#	88
25) Benzo(g,h,i)perylene	20.99	276	87913	0.3788	ug/mL#	98

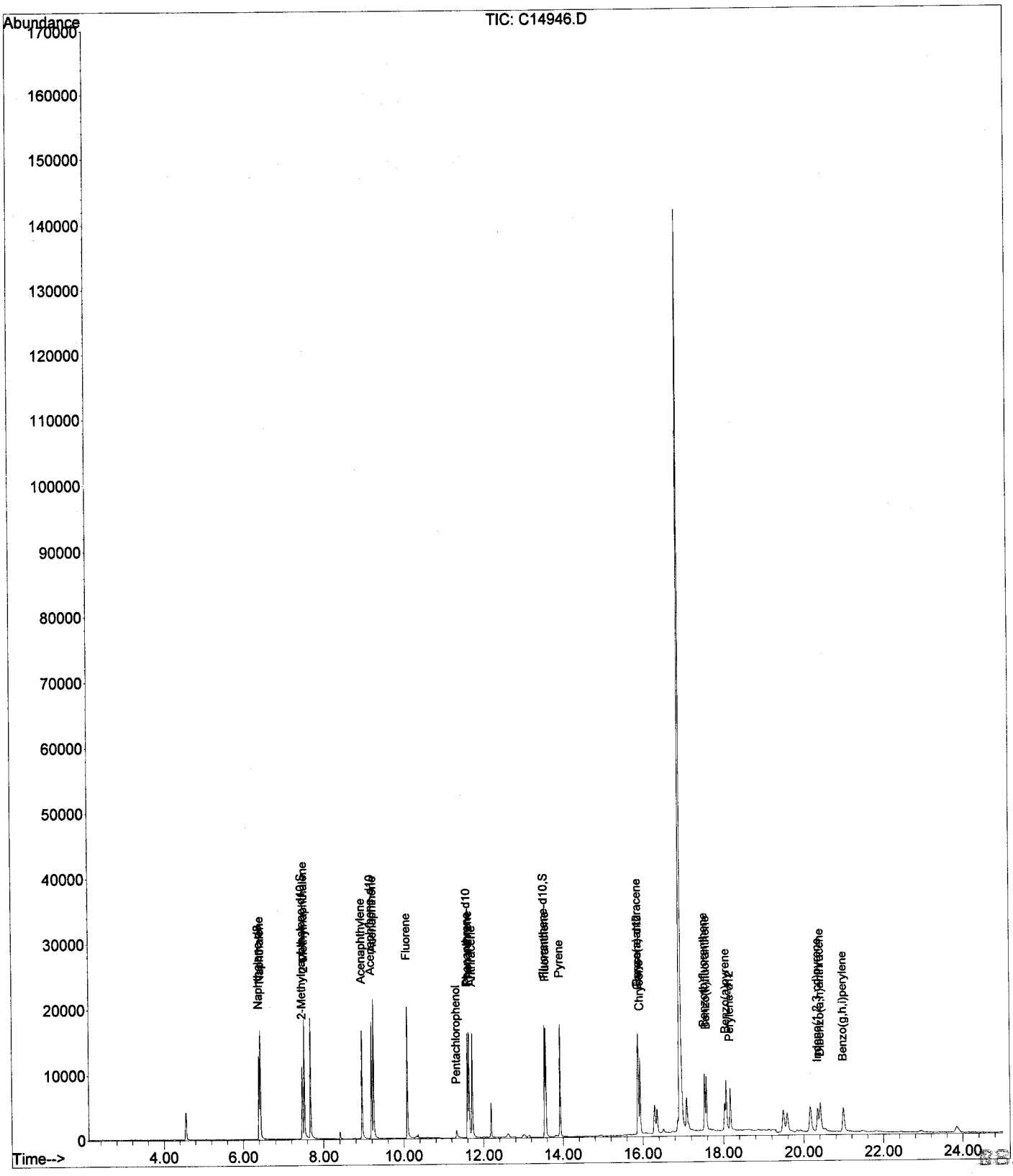
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14946.D
Acq On : 12/20/11 09:58
Sample : SSTD0.4YT
Misc : SSTD0.4YT INJ VOL: 1UL
ALS Vial : 2 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 21 13:41:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:41:36 2011
Response via : Initial Calibration



7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: C-5975 Calibration Date: 12/20/2011 Time: 1929

Lab File ID: C14963 Init. Calib Date(s): 12/09/2011 12/09/2011

EPA Sample No.(SSTD020##): SSTD0.4YU Init. Calib Times: 1115 1322

Heated Purge: (Y/N) GC Column: RTX-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.0348	1.0710	0.010	3.5	50.0
2-Methylnaphthalene	0.6298	0.6570	0.010	4.3	50.0
Acenaphthylene	1.6338	1.6640	0.010	1.8	50.0
Acenaphthene	0.9570	0.9690	0.010	1.3	50.0
Fluorene	1.1308	1.1730	0.010	3.7	50.0
Pentachlorophenol	0.0358	0.0390	0.010	8.9	50.0
Phenanthrene	0.9104	0.9080	0.010	-0.3	50.0
Anthracene	0.9218	0.9360	0.010	1.5	50.0
Fluoranthene	0.8694	0.9220	0.010	6.1	50.0
Pyrene	1.7050	1.5790	0.010	-7.4	50.0
Benzo(a)anthracene	1.1202	1.0010	0.010	-10.6	50.0
Chrysene	1.1590	1.0470	0.010	-9.7	50.0
Benzo(b)fluoranthene	1.0922	0.8500	0.010	-22.2	50.0
Benzo(k)fluoranthene	1.2856	1.0340	0.010	-19.6	50.0
Benzo(a)pyrene	1.1328	0.8980	0.010	-20.7	50.0
Indeno(1,2,3-cd)pyrene	0.9038	0.8530	0.010	-5.6	50.0
Dibenzo(a,h)anthracene	0.6812	0.5710	0.010	-16.2	50.0
Benzo(g,h,i)perylene	1.0138	0.7700	0.010	-24.0	50.0
Fluoranthene-d10	0.8810	0.9480	0.010	7.6	50.0
2-Methylnaphthalene-d10	0.6180	0.6360	0.010	2.9	50.0

Continuing Calibration Report C5975

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPCPAH14875.M
Title : PAH ANALYSIS BY SIM METHOD
Last Update : Wed Dec 21 13:53:17 2011
Response Via : Initial Calibration

CC Data File: C14963.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		Naphthalene-d8	1.000	1.000	0.0	86
2		Naphthalene	1.035	1.071	-3.5	84
3	S	2-Methylnaphthalene-d10	0.618	0.636	-2.9	82
4		2-Methylnaphthalene	0.630	0.657	-4.3	84
5		Acenaphthene-d10	1.000	1.000	0.0	95
6		Acenaphthylene	1.634	1.664	-1.9	89
7		Acenaphthene	0.957	0.969	-1.2	88
8		Fluorene	1.131	1.173	-3.8	91
9		Phenanthrene-d10	1.000	1.000	0.0	105
10		Pentachlorophenol	0.036	0.039	-7.3	135
11		Phenanthrene	0.910	0.908	0.3	96
12		Anthracene	0.922	0.936	-1.5	97
13	S	Fluoranthene-d10	0.881	0.948	-7.6	104
14		Fluoranthene	0.869	0.922	-6.1	103
15		Chrysene-d12	1.000	1.000	0.0	124
16		Benzo(a)anthracene	1.120	1.001	10.6	105
17		Chrysene	1.159	1.047	9.7	105
18		Pyrene	1.705	1.579	7.4	105
19		Perylene-d12	1.000	1.000	0.0	151#
20		Benzo(b)fluoranthene	1.092	0.850	22.2	112
21		Benzo(k)fluoranthene	1.286	1.034	19.6	115
22		Benzo(a)pyrene	1.133	0.898	20.8	113
23		Dibenzo(a,h)anthracene	0.681	0.571	16.1	120
24		Indeno(1,2,3-cd)pyrene	0.904	0.853	5.7	144
25		Benzo(g,h,i)perylene	1.014	0.770	24.0	106

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14963.D
Acq On : 12/20/11 19:29
Sample : SSTD0.4YU
Misc : SSTD0.4YU INJ VOL: 1UL
ALS Vial : 19 Sample Multiplier: 1

Operator: SK
Inst : C5975

ORIGINAL
Case 42040 SDG FLXPO
Episode S-4460 Init/date 12/22/11

Quant Time: Dec 21 13:50:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration

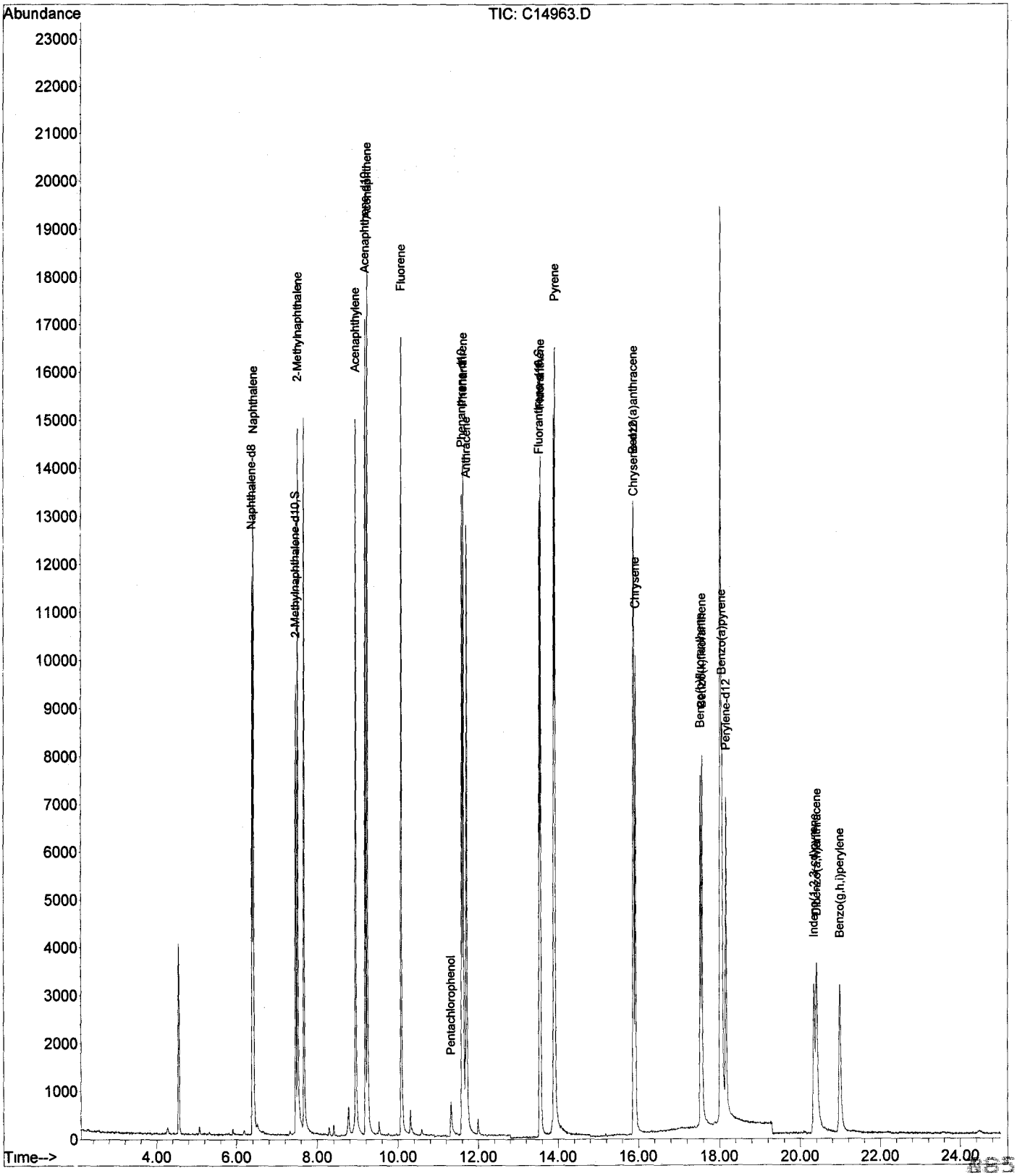
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	137452	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.19	164	89533	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	157728	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	96309	0.4000	ug/mL	0.00
19) Perylene-d12	18.17	264	101916	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	87405	0.4117	ug/mL	0.00
Spiked Amount 0.400			Recovery = 102.93%			
13) Fluoranthene-d10	13.54	212	149497	0.4303	ug/mL	0.00
Spiked Amount 0.400			Recovery = 107.58%			
Target Compounds						Qvalue
2) Naphthalene	6.43	128	147146	0.4138	ug/mL	100
4) 2-Methylnaphthalene	7.53	142	90307	0.4173	ug/mL	98
6) Acenaphthylene	8.96	152	149021	0.4075	ug/mL	99
7) Acenaphthene	9.24	154	86742	0.4049	ug/mL	99
8) Fluorene	10.08	166	105056	0.4151	ug/mL	98
10) Pentachlorophenol	11.32	266	6091	0.4291	ug/mL	96
11) Phenanthrene	11.63	178	143184	0.3988	ug/mL	100
12) Anthracene	11.72	178	147575	0.4061	ug/mL	100
14) Fluoranthene	13.57	202	145466	0.4243	ug/mL	99
16) Benzo(a)anthracene	15.87	228	96435	0.3575	ug/mL	99
17) Chrysene	15.93	228	100818	0.3613	ug/mL	98
18) Pyrene	13.92	202	152029	0.3703	ug/mL	99
20) Benzo(b)fluoranthene	17.53	252	86610	0.3112	ug/mL	100
21) Benzo(k)fluoranthene	17.57	252	105388	0.3217	ug/mL	99
22) Benzo(a)pyrene	18.07	252	91494	0.3170	ug/mL	95
23) Dibenzo(a,h)anthracene	20.41	278	58225	0.3355	ug/mL	100
24) Indeno(1,2,3-cd)pyrene	20.34	276	86884	0.3773	ug/mL#	87
25) Benzo(g,h,i)perylene	20.99	276	78518	0.3040	ug/mL#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14963.D
Acq On : 12/20/11 19:29 Operator: SK
Sample : SSTD0.4YU Inst : C5975
Misc : SSTD0.4YU INJ VOL: 1UL
ALS Vial : 19 Sample Multiplier: 1

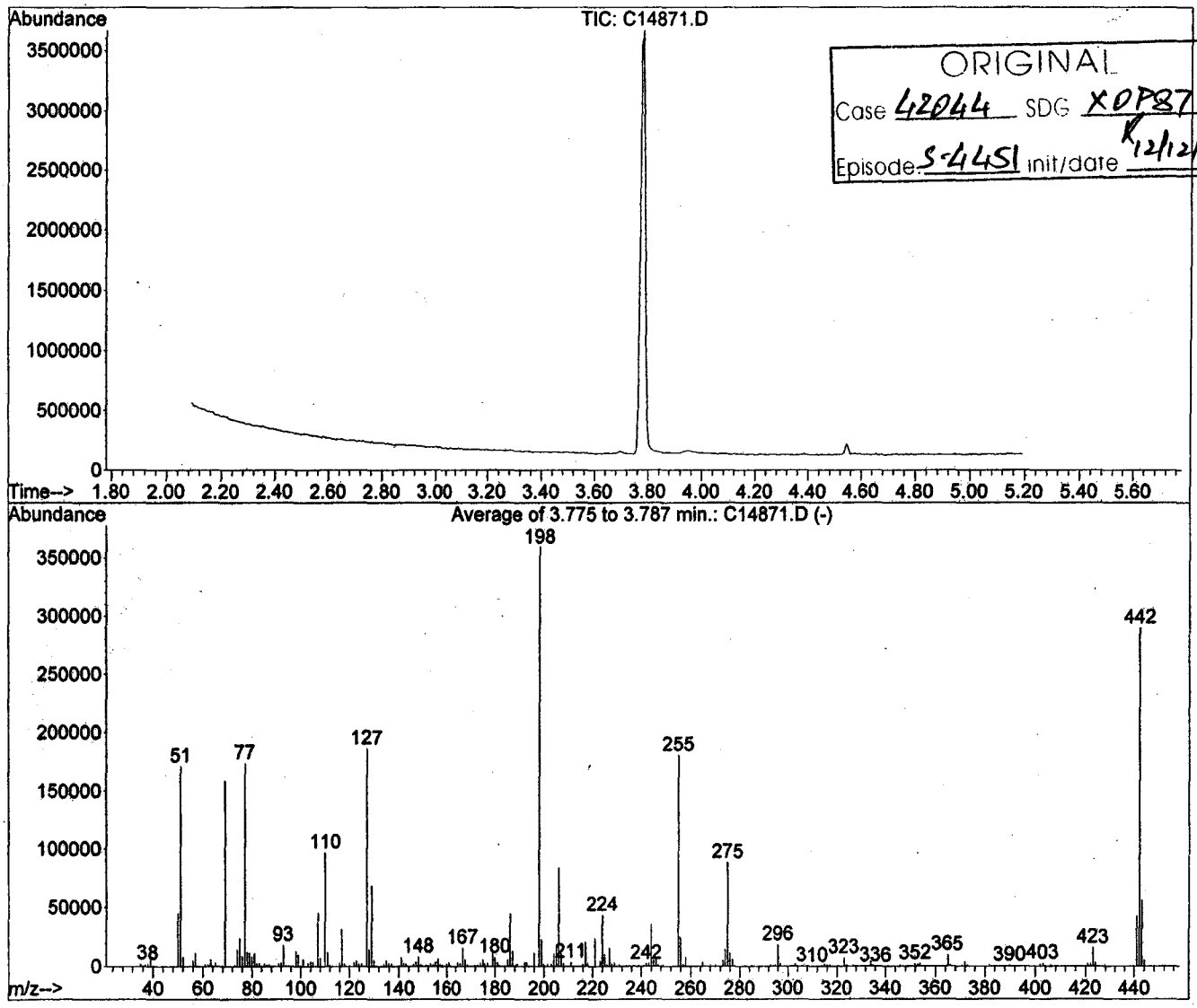
Quant Time: Dec 21 13:50:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Wed Dec 21 13:42:15 2011
Response via : Initial Calibration



DFTPP

Data File : C:\MSDCHEM\1\DATA\C14871.D Vial: 1
Acq On : 12/09/11 09:57 Operator: SK
Sample : DFTPPYJ Inst : C5975
Misc : DFTPPYJ INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2



ORIGINAL
Case 42044 SDG XOP87
Episode S-4451 init/date K 12/12/11

AutoFind: Scans 287, 288, 289; Background Corrected with Scan 281

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.6	171104	PASS
68	69	0.00	2	0.6	943	PASS
69	198	0.00	100	44.2	159023	PASS
70	69	0.00	2	0.5	764	PASS
127	198	10	80	51.7	185941	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	359829	PASS
199	198	5	9	6.4	23096	PASS
275	198	10	60	24.6	88570	PASS
365	198	1	100	2.7	9741	PASS
441	443	0.01	100	75.1	42184	PASS
442	198	50	100	80.6	289920	PASS
443	442	15	24	19.4	56194	PASS

C14871.D DFTPP-TUNE.M Mon Dec 12 09:49:40 2011

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.775 to 3.787 min.: C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	2064	49.05	10	59.30	147	69.00	159023
36.00	78	50.05	45192	60.00	8	70.00	764
37.00	1037	51.05	171104	60.20	233	71.05	210
38.00	2313	52.05	8368	61.05	2099	71.95	323
39.10	13231	53.05	326	62.05	2191	73.05	1333
40.05	680	54.05	154	63.10	6759	74.00	14782
41.05	908	55.00	886	63.90	1068	75.00	23946
42.10	68	56.00	5262	65.00	3357	76.05	8696
44.00	638	56.95	11536	66.00	368	77.05	173776
44.95	419	58.05	947	67.10	863	78.10	12071
46.00	81	58.95	232	68.00	943	79.00	11623
81.00	11477	92.05	3283	102.15	303	114.10	239
82.00	2967	93.00	17824	103.00	2739	114.80	304
83.00	2769	93.95	1107	104.00	4169	115.30	140
84.00	616	94.95	618	105.00	3670	116.00	3408
85.05	2294	96.10	589	106.10	1186	117.00	31781
86.00	1625	97.10	870	107.00	45663	117.95	2660
87.05	1910	98.00	13388	108.00	7226	119.05	256
87.95	485	98.95	10029	110.00	97002	120.05	886
88.95	452	99.95	1076	111.05	12331	120.95	366
89.85	142	101.05	6311	112.00	1648	122.00	3648
123.90	2427	134.00	2072	144.10	294	154.00	1819
125.05	2385	135.00	5074	145.05	544	155.00	4114
127.05	185941	136.00	2458	146.05	1836	156.05	6543
128.05	14750	137.05	2642	147.00	4099	157.10	1781
129.00	68879	137.85	346	148.00	8153	158.00	1795
129.95	5932	138.10	207	149.05	1845	159.00	878
131.00	1103	139.05	543	149.90	395	160.00	2472
132.00	488	140.05	1039	150.10	258	161.00	3513
132.20	252	141.00	7900	151.15	1266	161.90	1082
132.60	101	142.00	2805	152.05	528	162.90	14
163.90	183	174.05	3416	183.90	561	193.00	3743
164.05	434	175.05	6022	184.10	389	193.95	889
164.95	3351	175.95	2280	185.05	5701	195.05	854
166.00	2713	177.00	3319	186.00	45160	196.00	11735
167.05	15766	177.90	373	187.00	13044	198.00	359829
168.05	6412	178.05	838	188.05	1455	199.00	23096
169.00	1611	179.00	11351	189.00	2569	200.00	2149
170.05	558	180.00	7977	190.00	431	201.45	2042
171.00	816	181.00	3587	190.90	445	202.10	197
171.90	1359	181.95	726	191.15	745	203.00	2091
205.05	18155	218.00	2807	229.80	191	238.90	956
206.05	84157	219.00	427	229.95	301	240.05	334
207.00	10976	219.70	244	231.00	1466	240.30	143
208.00	2793	221.05	24090	231.90	204	240.95	981
208.90	279	223.05	4694	233.00	366	242.05	2504
209.05	693	224.00	43360	233.95	932	243.05	2524
211.10	3694	225.00	10581	235.05	1121	244.05	35965
212.05	619	226.05	1520	235.85	510	245.00	5023
214.95	873	227.00	16213	236.10	402	246.00	5788
216.05	1852	228.00	2355	236.95	1447	246.95	1425
248.95	1698	260.05	288	274.00	14974	283.00	728
250.00	286	261.00	375	275.00	88570	284.05	678
251.05	324	263.60	68	276.00	11412	285.00	1004
252.10	522	263.90	384	277.00	6284	286.10	146
253.00	724	264.95	3549	277.95	1078	288.80	145
254.00	909	265.95	689	278.80	125	289.00	248
255.00	180629	270.00	68	279.10	200	289.95	249
256.00	25384	271.00	453	280.80	51	290.95	109
257.00	2063	271.80	322	281.00	101	292.05	441

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.775 to 3.787 min.: C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.00	8408	272.10	365	281.75	289	292.95	1594
295.00	209	308.80	55	322.00	439	335.05	1056
296.00	18221	309.05	163	323.05	7144	336.15	167
296.95	2579	309.95	244	324.10	1256	339.10	63
297.95	126	310.20	66	324.90	147	340.00	95
301.05	286	312.70	109	325.95	155	340.80	373
302.00	468	313.10	78	326.95	1581	341.05	806
303.05	2459	313.95	978	327.80	210	342.00	302
303.95	683	314.95	2141	328.10	411	345.95	1385
304.90	173	316.00	1392	332.05	439	346.95	211
307.70	67	316.90	299	333.10	631	347.20	94
351.00	122	367.00	73	390.85	253	423.05	15732
351.40	88	369.70	70	391.10	111	424.00	3185
352.05	2071	370.10	311	392.10	409	425.00	353
353.05	1687	370.90	806	401.00	208	436.90	50
354.00	2561	372.05	4018	402.00	1794	437.20	111
355.05	536	373.05	1113	403.00	2383	437.70	53
359.00	110	374.20	56	404.00	785	438.00	53
363.80	209	382.90	556	405.10	52	438.60	182
364.00	85	383.10	426	415.10	58	438.80	132
365.00	9741	383.95	385	420.95	2053	439.90	331
442.10	289920						
443.05	56194						
444.05	5695						
444.80	87						
444.95	242						

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 288 (3.781 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	2831	47.00	6654	58.10	1105	70.00	1763
36.00	858	48.10	3578	59.00	577	71.10	760
37.00	2217	49.00	32448	60.20	701	71.90	429
38.00	3428	50.10	50888	61.10	2222	73.10	2339
39.10	15731	51.10	199680	62.10	2178	74.00	16584
40.00	1827	52.10	9158	63.10	7803	75.00	26944
41.00	3409	53.10	685	63.90	1109	76.10	10059
42.10	1397	54.10	833	65.10	3909	77.10	191616
43.10	2327	55.00	2985	66.10	362	78.10	13515
44.10	5502	56.00	5759	67.00	1152	79.00	13252
45.00	991	57.00	14353	69.00	176512	80.00	9757
82.00	3583	93.00	20904	104.00	4807	115.90	3845
83.00	4141	94.00	1407	105.00	4526	117.00	36752
84.00	22968	95.20	974	106.10	1927	118.00	2951
85.10	3738	96.20	1175	107.00	49144	119.00	634
86.00	17864	97.10	1359	108.00	8255	120.10	916
87.10	1843	98.00	15754	110.00	113752	120.90	341
88.00	2750	99.00	10907	111.00	14132	122.00	3954
88.90	501	99.90	1453	112.00	2533	123.00	5278
89.80	271	101.00	7886	113.00	943	123.90	3070
91.10	3302	102.20	269	114.10	342	125.10	2849
128.00	16059	139.00	495	150.10	776	161.00	4256
129.00	80408	140.00	1125	151.10	1628	161.80	1115
129.90	6727	141.00	8539	152.00	984	163.10	598
131.00	1072	142.00	2784	153.00	3004	164.10	544
132.00	886	142.90	2875	154.00	1947	165.00	4098
133.10	291	144.10	532	155.00	4049	166.00	3251
134.00	2478	145.10	561	156.00	7927	167.10	16848
135.00	5896	146.00	1997	157.10	2010	168.00	7420
136.00	2929	147.00	4740	158.00	2281	169.00	2009
137.10	2715	148.00	9640	159.00	1142	170.10	662
171.90	1335	182.90	415	194.00	692	207.00	13234
173.10	1811	184.10	1168	195.10	796	208.00	2654
174.00	3594	185.00	7167	196.00	14859	209.10	1026
175.00	6217	186.00	50536	198.00	409536	211.10	4062
176.00	3068	187.00	13674	199.00	27760	212.10	426
177.00	3458	188.00	1817	200.00	2694	213.00	517
178.10	1356	189.00	3138	201.50	2202	213.90	154
179.00	13329	190.10	263	203.00	2361	214.90	985
180.00	8238	190.90	1337	204.10	11964	216.10	1841
181.00	4264	192.00	4771	205.10	20656	217.00	23856
218.90	418	232.90	419	244.00	40800	256.00	25816
221.00	26808	234.00	942	245.00	5656	257.00	2150
223.10	4881	235.00	1021	246.00	6567	258.00	9242
224.00	51344	236.10	1207	247.00	2237	259.00	1123
225.00	12533	237.00	1762	248.00	460	260.10	246
226.10	1979	237.90	299	249.00	1645	261.00	328
227.00	18152	238.90	1265	250.00	256	263.80	356
228.00	3281	240.30	430	251.00	405	265.00	4270
229.00	3966	241.00	957	252.20	375	266.00	746
230.00	538	242.00	2980	252.90	696	270.90	561
273.10	5931	284.90	1104	303.10	2467	322.00	386
274.00	18296	286.10	281	304.00	732	323.10	7669
275.00	102224	289.00	317	304.90	228	324.10	1484
276.00	12384	289.90	316	309.00	159	324.90	204
277.00	6924	292.00	691	310.20	198	327.00	1789
278.00	1363	293.00	1660	312.70	328	328.10	632
278.70	159	294.00	563	314.00	1562	332.00	381
279.20	207	296.00	20976	314.80	2203	333.10	719
281.80	292	297.00	2929	316.00	1723	334.10	5295

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 288 (3.781 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.00	832	301.10	231	316.90	363	335.10	1401
340.00	285	359.00	332	390.00	514	424.00	3579
341.00	1091	363.80	214	391.10	333	425.00	411
342.00	332	365.00	10737	392.20	405	436.90	152
346.00	1324	365.90	1461	401.10	176	437.70	161
346.90	470	369.70	210	402.00	2024	438.50	324
350.30	274	370.20	286	403.00	2960	441.10	51352
350.90	166	370.90	694	404.10	855	442.10	341696
352.00	2736	372.10	4648	415.10	175	443.00	66456
353.00	1899	373.10	1071	421.00	2182	444.00	6956
353.90	2242	383.10	1280	422.00	2396	445.00	479

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 287 (3.775 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1172	48.00	3290	58.90	515	71.10	878
37.00	2121	49.10	31928	60.00	550	72.00	746
38.10	3199	50.10	56896	61.00	2424	73.10	2243
39.10	16077	51.10	219712	62.00	2817	74.10	17640
40.10	1989	52.10	11151	63.10	7617	75.00	29512
41.00	3508	53.00	602	63.90	1455	76.00	10664
42.10	1431	54.00	531	65.00	4069	77.10	213120
43.00	2856	55.10	3249	66.00	502	78.10	14985
44.00	5688	56.00	6947	67.20	1253	79.00	14042
45.10	1007	57.00	14794	69.00	194368	80.00	9027
47.10	5984	58.00	959	70.20	1207	81.00	13701
83.10	4872	94.90	901	106.10	2118	117.90	2939
84.00	23232	96.10	1430	107.00	55352	119.10	384
85.00	4323	97.10	1253	108.00	8305	120.00	1009
86.00	18616	98.00	15484	110.00	111072	121.10	421
87.10	2253	99.00	12267	111.10	14793	122.00	3937
87.90	3079	100.00	1640	112.10	2087	123.00	5801
89.00	463	101.10	6965	113.00	931	124.00	3119
91.00	3106	102.00	613	114.00	457	125.00	2407
92.00	3892	103.00	2966	115.30	421	127.00	217152
93.00	19472	104.00	4568	116.00	4053	128.10	16536
130.00	6562	140.10	1406	151.30	1205	162.00	1346
131.00	1144	141.00	9213	152.20	813	162.90	520
132.00	580	142.10	3856	152.90	2757	163.90	551
132.60	303	143.00	2083	154.00	2826	165.00	3516
133.10	658	144.10	453	155.00	4858	166.10	2812
134.00	2075	145.10	597	156.10	7321	167.00	18912
135.00	5814	146.10	1941	157.00	2174	168.10	6625
136.00	2576	147.00	4711	158.00	1920	169.00	1740
137.10	3054	148.00	9187	159.00	1303	170.00	578
137.80	547	149.00	2130	160.00	2806	171.00	1084
173.10	1561	183.90	750	195.10	1023	207.00	12204
174.00	3846	185.10	5711	196.00	11678	208.00	3448
175.10	7118	186.00	50432	198.00	388672	208.90	839
176.00	2035	187.00	14848	199.00	24648	211.10	4286
177.00	3601	188.10	1586	200.00	2372	212.00	1069
177.90	1119	189.00	2751	201.40	2323	213.00	374
179.00	12395	190.00	722	202.10	592	214.10	318
180.00	8818	191.20	1232	203.00	2359	215.00	921
181.00	4147	192.00	4296	204.10	11610	216.10	1679
182.00	585	193.00	4173	205.10	19432	217.00	21616
219.10	454	231.90	299	243.00	2602	254.00	2729
221.00	26928	233.10	466	244.10	38384	255.00	187456
223.00	4855	234.00	1117	245.00	5053	256.00	29152
224.00	45448	235.00	1315	246.00	5946	257.00	2558
225.00	11496	235.80	836	246.90	1014	258.00	8503
226.10	1276	236.90	1067	248.00	370	259.00	1379
227.00	18096	238.00	330	249.00	2013	260.00	429
228.00	2271	238.90	1061	250.00	273	261.00	405
229.00	3341	240.10	370	251.10	225	263.60	205
229.80	573	240.90	1019	252.10	528	264.00	335
265.90	962	279.10	207	293.00	1791	308.00	244
271.10	524	280.80	155	294.00	448	309.10	330
271.80	547	281.80	231	295.00	627	310.00	414
272.20	607	283.10	898	296.00	17872	313.90	680
273.10	5025	284.10	710	297.00	2685	315.00	2125
274.00	13917	285.10	1089	297.90	202	316.00	1453
275.00	90456	286.10	159	301.10	353	316.90	294
276.00	11810	288.80	435	302.00	487	320.90	498
277.00	6489	290.00	219	303.10	2768	321.90	256

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 287 (3.775 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	732	291.00	166	304.00	646	323.00	7044
324.90	237	345.90	1255	370.20	269	403.00	2487
326.00	251	347.00	163	370.80	1095	404.00	792
326.90	1875	351.10	202	372.00	3765	405.10	156
328.10	601	352.10	1860	373.00	1202	420.90	1739
332.00	493	353.00	1408	382.90	940	422.10	1706
333.00	591	354.00	2987	384.00	568	423.10	13126
334.00	4017	355.10	801	390.00	655	424.00	2410
335.10	904	363.80	414	390.80	347	425.00	300
336.20	319	365.00	10594	392.10	351	438.70	222
340.80	1121	366.00	1425	401.00	203	439.90	994
442.10	251136						
443.00	48648						
444.10	4228						
444.80	262						

Data File : C:\MSDCHEM\1\DATA\C14871.D Vial: 1
Acq On : 12/09/11 09:57 Operator: SK
Sample : DFTPPYJ Inst : C5975
Misc : DFTPPYJ INJ VOL: 1UL Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	3361	46.00	244	57.00	9047	67.20	1253
36.00	922	47.00	6066	58.00	779	68.00	3595
37.00	1789	48.00	3242	58.80	294	69.00	109456
38.00	2320	49.00	28944	59.30	441	70.10	1367
39.10	10489	50.00	32840	60.00	519	71.20	620
40.10	1324	51.10	121832	61.10	1651	71.90	718
41.10	3468	52.10	5980	62.00	1579	73.00	1299
42.10	1677	53.00	608	63.10	4857	74.00	10852
43.10	2208	54.00	799	63.90	642	75.10	15382
44.10	6247	55.10	3292	65.00	2727	76.10	5366
45.10	1242	56.00	4867	65.90	241	77.10	118104
79.00	8644	89.10	202	101.00	4082	113.00	409
80.00	6920	89.90	157	102.10	642	114.20	396
81.00	9271	91.00	2321	102.90	1861	114.80	609
82.10	2571	92.00	2533	104.00	3134	116.10	2328
83.00	3759	93.00	13551	105.00	3448	117.00	22000
84.00	22128	93.90	1062	107.00	33256	118.00	2091
85.00	2765	95.00	954	108.00	5118	119.10	371
86.00	15547	96.00	848	109.10	1884	120.00	734
87.00	1634	98.10	10540	110.00	66744	120.90	336
87.90	3005	99.00	7638	111.00	8793	122.00	3053
124.00	1638	136.00	1869	147.00	3665	157.90	1184
125.00	1900	137.00	2159	148.00	5633	159.00	835
127.00	131648	138.10	621	149.10	1620	160.00	1975
128.00	11657	139.00	476	149.90	532	161.10	2465
129.00	51984	140.00	586	151.10	965	162.00	786
130.00	4508	141.00	5950	151.90	830	162.90	278
131.00	1093	141.90	1777	153.00	1865	164.00	760
132.20	758	142.80	1637	154.10	1372	164.90	3020
133.00	280	144.10	503	155.00	3437	165.90	2077
134.00	1665	145.00	476	156.10	4383	167.00	11539
169.10	1084	180.00	6875	191.10	1003	204.00	8673
170.00	436	181.00	2350	192.00	2306	205.00	14379
171.10	552	181.90	594	193.00	2396	206.10	65192
171.80	737	182.90	385	193.90	695	207.00	8874
173.10	1047	183.90	933	194.90	744	208.00	2279
174.10	2808	185.00	4225	196.00	8669	209.00	1053
175.00	4733	186.00	34512	198.00	281280	211.00	2735
175.90	1739	187.00	10610	199.00	16880	212.00	363
177.00	2898	188.10	963	200.00	1381	215.00	714
178.00	1159	189.00	1819	201.50	1602	216.00	2036
218.00	1736	229.90	366	240.90	968	252.00	665
219.00	411	231.00	1039	242.10	2052	253.00	683
219.70	732	231.90	315	243.00	2206	255.00	147840
221.10	18536	233.10	215	244.00	28712	256.00	21184
223.00	4347	233.90	737	245.00	4360	257.00	1483
224.00	33288	235.10	1028	246.00	4853	258.00	7480
225.10	7716	235.90	695	247.00	1025	259.00	928
226.00	1305	236.90	1512	248.00	223	260.00	190
227.00	12392	238.00	181	248.90	1438	261.00	393
228.00	2366	239.00	544	250.00	330	263.90	461
266.00	360	281.00	305	293.90	512	309.90	318
270.00	204	281.70	344	296.00	15815	313.10	236
270.90	275	282.20	160	296.90	2123	314.00	694
271.80	421	282.90	455	298.00	176	315.00	2095
273.00	4293	284.00	751	300.90	276	316.10	1001
274.00	12709	285.00	820	301.90	298	316.90	240
275.00	73032	289.00	427	303.00	2142	321.00	496
276.00	10043	290.00	213	303.90	672	322.00	676
277.00	5439	290.90	162	307.70	201	323.10	6721

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	1141	291.90	180	308.10	275	324.10	830
326.90	1079	351.40	264	372.90	530	403.90	708
327.80	632	352.00	1619	373.10	536	421.00	2238
332.10	445	353.10	1755	374.20	168	422.20	2074
333.20	585	354.10	2455	382.90	728	423.00	14799
334.00	4652	355.10	309	383.90	256	424.00	3567
335.00	864	364.00	256	390.00	554	425.00	349
336.00	183	365.00	7894	390.90	413	437.20	335
341.10	1329	365.90	830	392.00	472	438.00	159
342.00	381	370.00	378	400.90	245	438.80	396
345.90	1578	371.00	631	402.00	1559	441.10	39464
443.10	53480						
444.00	5901						
444.90	248						

Data File : C:\MSDCHEM\1\DATA\C14871.D
Acq On : 12/09/11 09:57
Sample : DFTPPYJ
Misc : DFTPPYJ INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 281 (3.740 min): C14871.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	906	48.00	3670	60.00	348	76.90	504
37.00	1005	49.10	31096	65.00	211	79.20	356
38.00	669	50.00	1682	67.10	356	79.90	194
39.10	868	51.00	9304	68.20	255	81.10	576
40.10	1033	52.00	395	69.10	1089	82.00	584
41.10	2553	53.20	305	69.90	681	83.00	1488
42.10	1433	54.10	567	71.00	542	84.00	22160
43.00	2788	55.00	2289	72.00	308	85.10	1314
44.00	5174	56.00	595	73.00	627	86.00	15717
44.90	661	56.90	1195	74.00	243	86.80	320
47.00	6935	59.10	230	75.30	402	88.00	2459
93.00	151	109.00	651	129.00	318	163.00	252
93.90	192	110.20	187	133.20	217	165.10	193
95.10	471	110.80	237	135.00	300	207.00	461
96.20	562	111.20	241	144.10	202	213.20	303
96.80	500	112.00	296	147.10	273	214.00	204
98.00	538	114.20	159	149.20	232	228.00	284
98.80	241	117.70	192	152.20	347	264.90	204
100.00	216	118.80	273	153.10	232		
105.00	434	119.20	207	154.10	229		
106.20	162	123.90	182	159.00	215		

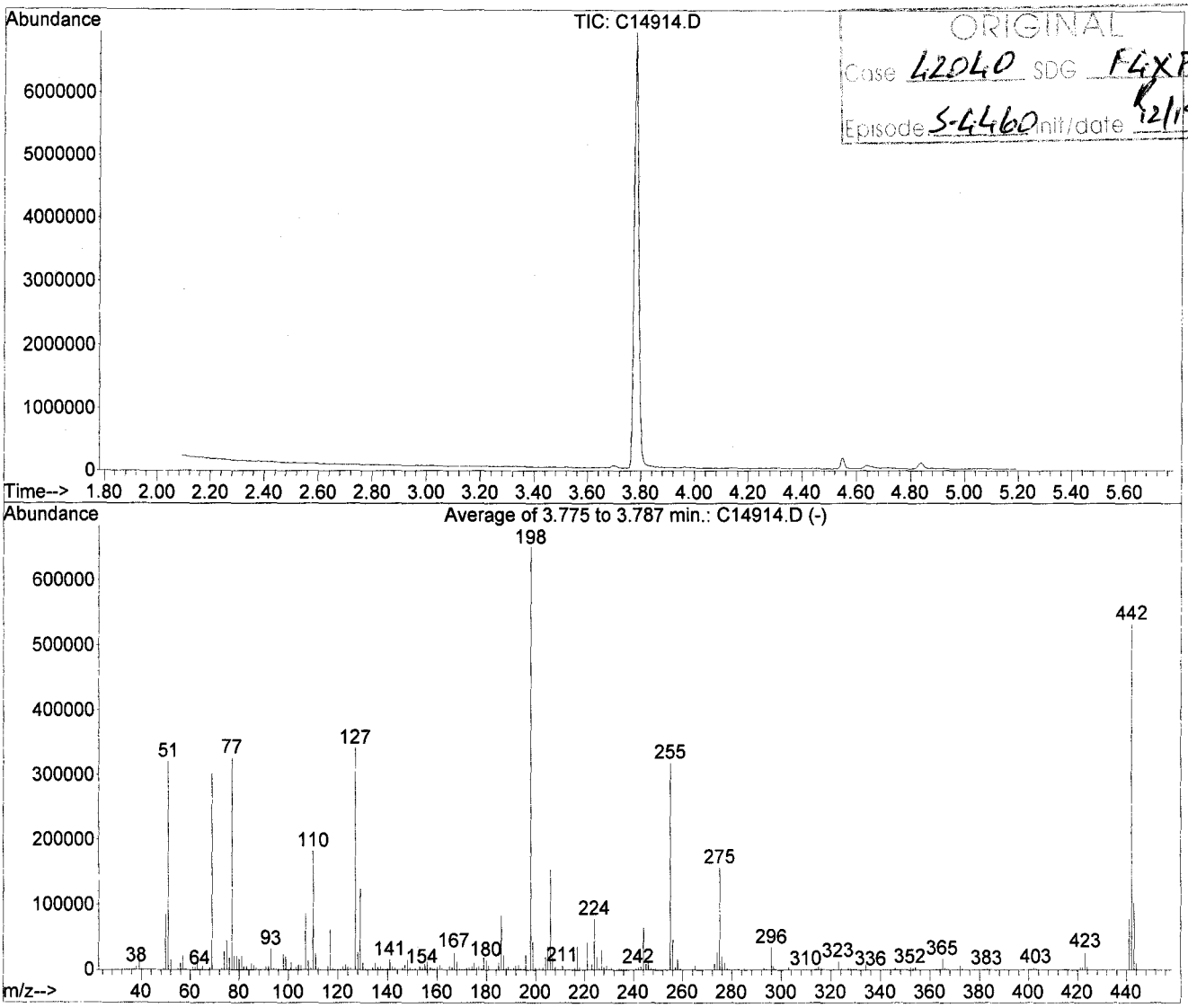
DFTPP

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 Init/date 12/19/11



AutoFind: Scans 287, 288, 289; Background Corrected with Scan 281

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	49.3	320890	PASS
68	69	0.00	2	1.1	3257	PASS
69	198	0.00	100	46.4	302257	PASS
70	69	0.00	2	0.4	1313	PASS
127	198	10	80	52.5	341866	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	651157	PASS
199	198	5	9	6.6	43133	PASS
275	198	10	60	24.1	156850	PASS
365	198	1	100	2.5	16584	PASS
441	443	0.01	100	76.7	78613	PASS
442	198	50	100	81.7	531904	PASS
443	442	15	24	19.3	102514	PASS

C14914.D DFTPP-TUNE.M Mon Dec 19 09:34:40 2011

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.775 to 3.787 min.: C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	376	48.10	183	58.05	907	68.10	3257
37.00	1365	49.10	2115	58.90	179	69.00	302257
38.00	5138	50.05	85372	59.10	180	70.00	1313
39.05	25434	51.10	320890	60.00	279	71.00	74
40.05	1336	52.10	16111	61.05	4022	73.00	2265
41.15	758	53.00	281	62.05	4561	74.05	28376
42.30	146	53.20	480	63.10	12146	75.05	44306
43.20	282	54.10	68	64.05	1616	76.10	17848
44.05	532	55.10	1896	65.10	5702	77.10	326656
44.95	888	56.05	9551	65.95	426	78.10	20824
47.00	497	57.05	21293	66.70	153	79.05	21656
81.05	21154	92.05	5253	103.05	4223	113.70	105
81.95	5017	93.05	31901	104.05	7497	114.05	326
83.05	5278	94.05	2223	105.05	6942	115.00	255
84.00	878	95.05	471	106.10	882	116.05	5431
85.00	10076	96.05	1556	107.00	86372	117.00	61688
86.00	6821	97.00	1014	108.05	14106	117.95	4293
87.05	3407	98.05	24437	109.05	2514	119.00	550
87.90	1301	99.00	19933	110.00	182558	119.20	179
89.00	290	100.05	1658	111.05	25413	120.00	1313
90.10	66	101.05	10767	112.05	3003	121.00	218
122.05	6128	133.00	568	143.95	821	154.05	3315
123.05	8394	134.00	3751	144.90	1083	155.05	9154
124.05	4085	135.00	10379	146.00	3206	156.05	12319
125.05	4002	136.05	4157	146.95	7726	157.15	3497
127.05	341866	137.10	5175	148.00	14845	158.00	2882
128.10	25877	138.05	1316	149.05	3375	158.90	2017
129.00	126472	139.05	681	149.95	958	160.05	4462
130.05	10703	140.05	1688	151.20	2296	161.00	6810
131.05	2057	141.00	15096	151.80	451	161.95	1885
132.10	1003	142.05	5330	152.10	308	162.95	638
164.00	740	175.05	11012	186.05	84050	198.00	651157
165.00	5408	176.05	3922	187.00	22688	199.00	43133
166.05	4266	176.95	5531	188.05	2314	200.00	3079
166.95	27706	178.00	1630	189.00	4673	201.55	3574
168.00	12326	179.00	20229	189.90	901	203.00	3679
169.05	1947	180.00	14902	191.05	2256	204.05	19672
170.05	1218	181.00	6755	192.00	6346	205.05	35594
171.00	1598	182.05	1135	193.05	7196	206.05	154674
172.00	2603	183.10	625	194.00	1518	207.00	19525
173.05	3188	184.05	1612	194.95	762	208.05	4736
210.00	507	221.05	42221	233.05	472	243.00	4810
211.05	6550	223.00	8666	234.05	2213	244.10	64746
212.90	113	224.05	77938	235.00	2522	245.10	8970
213.05	359	225.00	20026	236.00	1599	246.00	10453
214.00	236	226.05	2672	237.05	2200	247.05	2308
215.05	1532	227.00	30106	237.80	79	248.00	929
216.05	2883	228.00	4392	238.00	325	248.95	2266
217.00	35856	229.00	6532	239.00	941	250.05	490
218.00	4639	230.05	840	240.05	944	250.90	648
219.05	535	231.00	2947	241.00	1893	251.80	225
253.05	1465	263.00	96	273.00	9681	283.80	116
255.00	319125	263.95	580	274.00	26890	284.05	896
256.00	46170	265.05	6456	275.00	156850	285.05	2364
257.00	3916	265.95	1210	276.00	21141	285.80	80
258.00	15909	267.05	118	277.00	11023	286.00	216
259.05	2574	268.90	77	278.05	1922	287.80	75
259.90	580	269.95	432	278.90	387	288.05	160
260.90	258	270.80	130	281.05	123	288.85	428
261.15	188	271.00	605	281.90	185	289.10	227

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.775 to 3.787 min.: C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
262.20	63	271.50	118	282.20	102	290.00	422
292.05	510	303.95	1288	316.10	2127	327.00	2076
293.00	2769	305.00	82	316.95	480	327.95	1382
293.95	502	307.50	69	318.90	76	328.70	56
296.00	34034	307.95	592	319.90	118	329.00	201
297.00	4986	308.90	380	321.05	1323	331.80	237
297.90	325	310.00	504	322.05	578	331.90	285
298.10	122	312.00	74	323.05	12711	332.05	501
298.80	70	312.90	119	324.05	2311	333.05	1237
300.95	570	313.10	256	325.10	229	334.05	8032
302.05	646	314.05	2128	325.80	118	335.05	1813
339.05	244	352.90	577	365.95	2382	384.00	438
339.85	132	353.05	2319	367.00	60	384.90	50
340.30	77	354.05	4335	369.95	500	385.20	72
341.00	1732	355.05	708	371.05	1112	390.10	1080
342.05	435	356.20	74	372.05	6592	391.00	698
345.95	2485	358.20	148	373.00	1958	391.70	143
347.00	468	358.90	313	374.00	75	392.05	456
347.60	54	360.80	112	376.80	70	392.95	186
350.00	70	363.15	139	377.15	129	396.90	57
351.00	186	364.00	147	383.00	1765	401.05	511
403.05	3978	435.05	218				
403.95	1207	436.70	117				
405.05	211	437.00	83				
415.00	175	437.90	70				
419.30	112	438.30	311				
419.70	114	439.25	533				
421.05	3718	441.10	78613				
422.05	4101	442.10	531904				
423.05	27797	443.10	102514				
424.00	5096	444.05	9411				

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 288 (3.781 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	600	47.00	3895	58.10	995	69.00	362112
37.00	1768	48.00	1816	59.10	335	70.00	1960
38.10	6149	49.10	14041	60.00	190	71.00	223
39.10	30768	50.10	101184	61.10	4749	73.00	3191
40.10	2250	51.10	389696	62.10	5822	74.10	34384
41.10	1469	52.10	20416	63.10	13670	75.10	53496
41.80	272	53.20	738	64.10	1743	76.10	21888
42.30	196	54.10	204	65.10	7021	77.10	402112
43.20	414	55.00	2836	66.00	702	78.10	24352
44.10	1814	56.00	11970	67.10	911	79.10	26936
44.90	1205	57.10	25936	68.10	9773	80.10	18640
82.10	7061	94.00	2964	105.10	7728	118.00	6080
83.00	7033	95.00	1004	107.00	106800	119.00	913
84.00	9150	96.00	1826	108.10	16744	120.00	1368
85.10	12457	97.00	1653	110.00	225856	121.20	961
86.00	13626	98.00	28928	111.00	31216	122.00	7174
87.10	4280	99.00	23104	112.00	3247	123.10	10177
87.90	2518	100.00	1854	113.00	981	124.00	4739
89.10	449	101.10	13541	114.00	446	125.10	5225
91.00	5997	102.00	739	114.90	659	127.00	416768
92.10	5950	103.00	4771	116.00	5517	128.10	29464
130.10	12836	141.00	19648	153.00	5475	164.00	1325
131.00	2483	142.00	6736	154.00	4611	165.00	6623
132.10	1383	143.00	3231	155.10	11986	166.00	5068
133.00	1017	143.90	762	156.10	14678	167.00	32528
134.00	4389	144.90	1157	157.20	4164	168.00	14805
135.00	12267	146.00	4015	158.00	3774	169.10	2198
136.10	4692	147.00	9918	158.90	2622	170.10	1704
137.10	7065	148.00	18056	160.10	5582	171.00	1838
138.10	1275	149.00	3786	161.00	8839	172.00	3189
139.10	623	149.90	880	162.00	2365	173.00	3944
175.00	13878	186.10	105584	199.00	51616	213.10	717
176.00	3803	187.00	27384	200.00	3579	213.90	244
176.90	6054	188.10	2844	201.60	4223	215.00	1831
178.00	2676	189.00	5456	203.00	3569	216.10	2826
179.00	23632	189.90	1070	204.00	23040	217.00	44792
180.00	17864	191.10	2381	205.10	46256	218.00	5540
181.00	8403	192.00	8020	206.10	188992	219.00	587
182.10	1410	193.10	9041	207.10	24168	221.00	53552
183.00	775	194.00	1856	208.00	5887	223.00	10036
184.00	2258	196.00	27224	208.90	1901	224.00	94024
226.10	3356	237.10	3066	248.00	1081	259.90	1055
227.00	38480	238.00	671	249.00	2931	260.90	584
228.00	5156	239.00	1161	250.10	475	263.00	290
229.00	7422	240.10	876	250.90	566	263.90	768
230.00	1074	241.00	2337	252.00	749	265.00	7482
231.00	3656	242.00	4372	253.00	2002	266.00	1395
232.00	744	243.00	5869	255.00	382080	267.00	182
233.10	481	244.10	78152	256.00	55832	270.00	496
234.00	2135	245.10	10772	257.00	4249	271.00	1241
235.00	2907	246.00	12377	258.00	18416	272.10	587
274.00	34000	286.00	377	302.00	684	316.10	2586
275.00	188160	288.00	260	303.00	4453	316.90	530
276.00	26464	288.90	469	304.00	1642	318.90	229
277.00	13322	289.90	518	305.00	246	319.90	354
278.10	2442	291.00	415	307.50	207	321.00	1634
278.90	469	293.00	3374	308.00	743	323.00	15414
281.00	219	294.00	551	309.00	488	324.10	3034
281.90	364	296.00	41744	310.00	594	325.10	266
283.10	1886	297.00	5441	313.10	351	326.00	304

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 288 (3.781 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.10	1242	297.90	459	314.00	2689	327.00	2111
329.00	350	347.00	770	365.00	18632	390.10	1413
331.80	711	347.60	162	366.00	2684	391.00	612
332.00	694	352.10	4057	370.00	626	392.00	672
333.00	1347	353.10	3264	371.00	1267	392.90	249
334.00	9096	354.10	5237	372.00	8147	401.00	711
335.10	2065	355.00	1027	373.00	2441	402.00	3133
336.10	165	356.20	223	374.00	227	403.00	4889
338.90	175	358.10	271	376.80	212	403.90	1505
341.00	2175	359.00	536	377.20	219	405.10	411
342.10	486	360.80	160	383.00	2368	415.00	260
421.00	4225	444.00	10509				
422.00	5216	445.10	481				
423.10	33128						
424.00	6212						
424.90	511						
435.00	307						
437.00	250						
437.90	212						
441.10	95144						
442.10	647360						

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 281 (3.740 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	226	49.10	12392	77.10	234	95.10	419
37.00	594	50.00	636	81.20	283	97.10	234
37.90	156	51.10	4763	81.80	331	107.00	172
39.00	248	55.10	478	83.10	622	108.00	176
40.10	546	56.10	202	84.00	8463	108.90	178
41.20	628	57.20	397	85.00	552	110.10	162
41.80	213	67.10	305	86.00	5693	111.30	156
42.90	378	69.00	399	86.80	158	115.00	219
44.10	1729	70.00	151	87.80	884	141.20	174
47.00	2455	71.00	219	89.00	232	145.20	160
48.10	1268	73.00	167	94.10	190	157.40	164
166.90	262						
192.10	166						
193.10	221						
207.00	203						

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 287 (3.775 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.20	601	48.20	1516	60.00	381	74.10	27520
37.00	1852	49.10	15728	61.10	4180	75.10	43720
38.00	5331	50.10	89088	62.10	4197	76.10	17688
39.10	26568	51.10	329024	63.10	12541	77.10	320256
40.00	1971	52.10	15299	64.00	1628	78.10	19616
41.20	1569	53.00	844	65.10	5172	79.10	20192
41.90	284	55.20	2044	65.90	321	80.00	16736
43.00	690	56.10	9396	69.00	299456	81.00	19976
44.10	2223	57.00	21432	70.10	1135	82.00	4920
45.10	714	58.00	798	71.00	327	83.10	5965
47.00	2394	58.90	538	73.10	2509	84.00	10001
86.00	12798	98.10	24472	110.00	168320	120.10	1320
87.00	2968	99.00	20216	111.00	24192	121.00	656
88.00	1916	100.10	1536	112.10	2941	122.10	6053
89.00	578	101.00	10367	113.10	1056	123.10	8427
91.00	4163	102.00	760	113.70	317	124.10	3774
92.00	5140	103.00	4507	114.10	279	125.00	3379
93.10	31304	104.10	6921	115.10	318	127.10	316160
94.10	2087	105.00	6781	116.00	5592	128.10	24752
95.10	722	107.00	80656	117.00	58056	129.00	113208
96.10	1407	108.10	14216	117.90	3662	130.00	10268
132.00	926	142.10	4908	153.10	4944	163.80	747
132.70	387	143.00	3416	154.10	2584	165.00	5402
133.10	275	144.00	817	155.00	7979	166.10	3533
134.00	3554	144.90	1061	156.00	11078	167.00	24640
135.00	10052	146.00	2746	157.10	3250	168.00	10424
136.00	3751	147.00	6852	158.00	2119	169.00	1911
137.10	4812	148.00	13284	158.80	1558	170.00	870
138.00	1302	149.10	3382	160.00	3786	171.00	1562
139.00	647	150.10	1124	161.00	4983	172.00	2486
140.00	1267	151.20	2074	162.00	1710	173.10	2712
175.10	8482	186.00	70368	198.00	542208	210.00	1522
176.10	4411	187.00	19016	199.00	37744	211.00	4907
177.00	4710	188.10	1840	200.00	2623	212.90	340
178.00	2214	189.00	4580	201.50	3082	214.10	190
179.00	17784	189.90	1025	203.00	3607	215.00	1247
180.00	12560	191.00	2214	204.10	17024	216.00	2643
181.00	6133	192.00	5394	205.10	27496	217.00	28200
182.00	577	193.00	6595	206.10	129432	218.00	3572
183.10	367	194.00	1308	207.00	17168	219.10	438
184.00	1159	195.00	1396	208.10	4247	221.10	34632
224.00	63840	235.00	1815	246.00	7733	258.00	12849
225.00	16904	236.00	1116	247.10	1896	259.00	2144
226.10	2558	237.00	1812	248.00	633	259.90	375
227.00	24136	237.80	237	249.00	1722	260.80	192
228.00	3341	238.90	668	250.00	468	261.20	190
229.00	5208	240.00	1121	251.00	631	262.80	288
230.10	867	241.00	1411	251.80	677	264.10	461
231.00	2293	242.00	2813	253.10	888	265.10	5236
232.00	641	243.00	3607	255.00	248640	265.90	971
233.00	304	244.10	50208	256.00	37168	267.10	173
270.80	392	284.10	385	297.00	4225	315.10	2940
273.00	7196	285.00	2428	297.90	517	316.10	1161
274.00	20448	285.80	242	301.00	345	317.00	469
275.00	120536	288.10	220	302.10	691	321.10	989
276.00	14832	288.90	181	303.00	3345	322.00	625
277.00	8323	290.00	173	303.90	1003	323.10	9101
278.10	1608	290.90	276	307.90	426	324.10	1410
278.90	237	292.00	433	309.00	182	325.20	163
281.90	193	293.00	1963	310.00	271	326.20	242

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 287 (3.775 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.00	669	293.90	397	312.90	358	327.10	1479
328.70	169	347.00	402	369.90	314	402.00	1462
332.10	811	351.10	249	371.10	641	403.00	2211
333.00	964	352.00	2435	372.10	4087	404.00	621
334.10	7277	352.90	1733	372.90	987	421.00	2717
335.00	1509	354.00	2796	383.00	1571	422.00	2119
336.10	478	355.10	527	383.80	195	423.00	17704
339.10	266	358.30	175	384.90	150	424.00	3243
339.90	206	364.00	443	390.10	848	425.00	400
341.00	1300	365.00	11233	391.00	809	438.40	353
342.10	446	365.90	1515	392.10	313	439.20	558
442.10	300992						
443.10	58816						
444.10	6161						
445.10	536						

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	607	48.00	1022	60.00	268	73.00	1596
37.10	2258	49.10	13753	61.00	3138	74.00	23224
38.10	4404	50.10	67752	62.00	3664	75.00	35704
39.10	19712	51.10	258240	63.10	10228	76.10	13968
40.10	1427	52.10	12618	64.00	1479	77.10	258304
41.20	1120	53.20	704	65.10	4914	78.10	18504
42.30	244	55.10	2243	65.90	256	79.00	17840
43.20	434	56.00	7895	66.70	461	80.10	12918
44.00	2748	57.00	17704	69.00	246400	81.10	17360
44.90	745	58.10	929	70.10	1298	81.90	4063
47.10	2569	59.10	207	71.00	331	83.10	4702
85.00	8092	96.10	1436	107.10	72176	118.00	3138
86.00	11118	97.10	874	108.10	11886	119.20	538
87.00	2975	98.10	19912	109.10	4086	119.90	1252
87.90	2123	99.00	16480	110.00	153984	121.10	537
89.10	540	100.10	1586	111.10	20832	122.10	5157
90.10	199	101.00	8395	112.00	2821	123.00	6580
91.00	4779	102.10	388	113.00	901	124.00	3742
92.10	4669	103.10	3391	114.10	253	125.10	3403
93.00	25408	104.00	6387	115.10	447	127.00	292672
94.00	2190	105.00	6319	116.10	5185	128.10	23416
130.00	9006	141.00	12939	151.80	1354	163.00	492
131.10	1893	142.00	4346	153.00	5201	164.00	896
132.20	702	142.90	2685	154.00	2751	165.00	4794
132.90	412	143.90	885	155.10	7497	166.00	4198
134.00	3310	144.90	1031	156.00	11202	167.00	26736
135.00	8819	146.00	2858	157.10	3077	168.00	11749
136.00	4030	146.90	6408	158.00	2755	169.10	1732
137.10	3649	148.00	13197	159.00	1871	170.00	1080
138.00	1371	149.00	2959	160.00	4020	171.00	1396
139.00	774	149.90	871	161.00	6608	172.00	2136
174.10	4969	186.00	76200	198.00	624896	211.10	7126
175.10	10677	187.00	21664	199.00	40040	213.00	362
176.00	3554	188.00	2259	200.00	3035	214.00	274
177.00	5829	189.00	3985	201.50	3417	215.10	1518
179.00	19272	189.90	608	203.00	3862	216.10	3182
180.00	14282	191.10	2173	204.10	18952	217.00	34576
181.00	5730	192.00	6122	205.00	33032	218.00	4807
182.00	1420	193.10	6617	206.00	145600	219.00	582
183.20	733	194.00	1392	207.10	17848	219.60	553
184.10	1419	194.90	890	208.00	4074	221.00	38480
224.10	75952	235.00	2846	246.00	11251	258.00	16464
225.00	18648	236.00	1774	247.00	2337	259.00	2918
226.00	2103	237.00	1722	248.00	1075	260.00	311
227.00	27704	238.00	304	248.90	2146	261.10	375
228.00	4681	239.10	995	250.00	528	262.20	191
229.00	6967	240.00	837	250.80	748	263.90	513
230.00	579	241.00	1932	251.90	592	265.00	6652
231.00	2893	242.00	3997	253.00	1507	265.90	1266
232.00	590	243.00	4954	255.00	326656	268.90	231
233.00	631	244.10	65880	256.00	45512	270.00	410
271.50	355	283.10	1581	293.90	559	310.00	647
272.00	909	284.00	1061	296.00	33592	312.00	224
273.00	9913	285.10	2166	297.00	5294	313.10	419
274.00	26224	286.00	271	298.10	366	314.10	2399
275.00	161856	287.80	226	298.80	210	315.00	4638
276.00	22128	288.80	634	301.00	644	316.10	2634
277.00	11425	289.10	681	302.00	563	317.00	442
277.90	1716	290.10	577	303.00	4505	321.00	1347
278.90	455	290.80	340	304.00	1219	322.10	1111

Data File : C:\MSDCHEM\1\DATA\C14914.D
Acq On : 12/15/11 09:56
Sample : DFTPPYP
Misc : DFTPPYP INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14914.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.10	150	292.10	1099	308.00	607	323.00	13620
325.00	259	339.80	192	355.10	570	383.00	1357
325.80	354	340.30	233	358.80	404	383.70	376
326.90	2640	341.00	1722	360.80	176	384.00	427
328.00	1125	341.90	375	363.20	235	385.20	217
329.00	254	345.90	2175	365.00	19888	390.10	981
331.90	857	347.10	234	366.00	2949	391.00	675
333.10	1400	350.00	212	370.00	562	391.70	429
334.00	7725	350.90	309	371.00	1430	392.00	385
335.00	1866	352.00	4655	372.10	7544	393.00	310
335.90	325	353.00	3693	373.10	2446	396.90	171
402.10	4004	435.10	348				
403.10	4835	436.70	353				
404.00	1497	438.20	581				
405.00	224	439.30	1043				
415.00	265	441.10	95744				
419.70	343	442.10	647360				
421.10	4213	443.10	124256				
422.10	4970	444.10	11564				
423.10	32560	445.00	686				
424.00	5835						

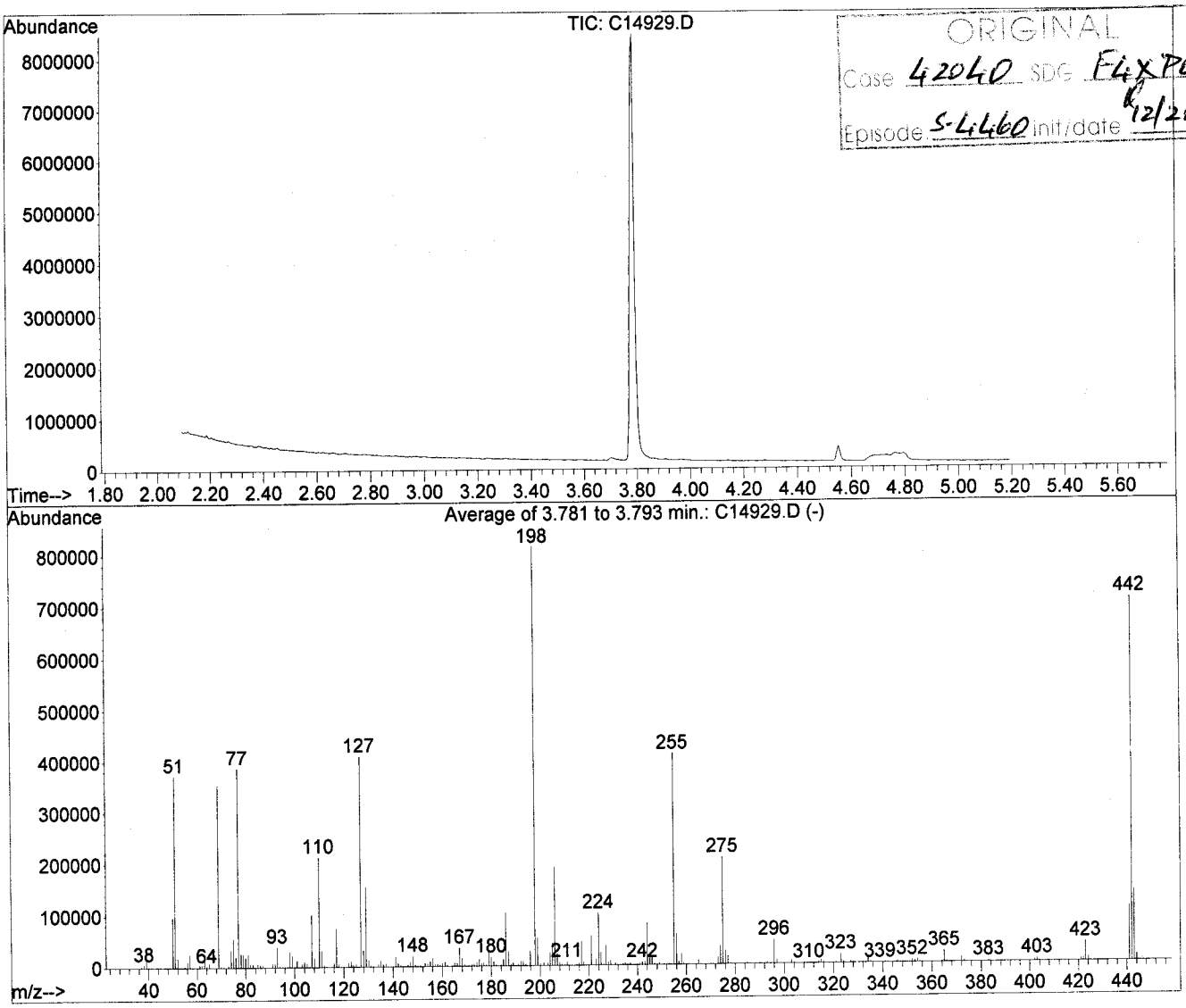
DFTPP

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date 12/20/11



AutoFind: Scans 288, 289, 290; Background Corrected with Scan 282

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.6	371913	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.4	354088	PASS
70	69	0.00	2	0.5	1708	PASS
127	198	10	80	50.2	409781	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	815488	PASS
199	198	5	9	6.7	54517	PASS
275	198	10	60	25.4	207488	PASS
365	198	1	100	2.7	22010	PASS
441	443	0.01	100	77.2	105869	PASS
442	198	50	100	86.9	708608	PASS
443	442	15	24	19.3	137061	PASS

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.781 to 3.793 min.: C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	379	49.00	989	59.15	169	71.05	422
37.00	1838	50.05	97034	60.05	376	73.05	2662
38.10	5095	51.05	371913	61.05	4524	74.05	33631
39.05	29936	52.05	17533	62.00	5358	75.05	54797
40.05	1438	53.05	774	63.10	13867	76.05	19641
41.00	1065	53.80	87	64.10	2142	77.10	387054
42.10	36	55.10	1827	65.10	7506	78.10	25553
43.10	159	56.05	10330	66.15	506	79.00	25161
44.00	531	57.00	24903	67.10	691	80.00	18615
45.05	449	58.05	830	69.00	354088	81.00	25306
46.00	144	59.00	116	70.05	1708	82.00	6336
85.00	6307	95.10	752	106.10	1900	117.00	75125
86.00	4634	96.05	1583	107.00	101530	118.05	5447
87.05	3307	97.05	695	108.05	17178	119.00	550
88.00	694	98.05	29725	110.00	212373	120.00	1228
88.95	560	99.05	22193	111.05	30863	121.10	535
89.95	180	100.00	2096	112.00	3208	122.00	7504
90.20	97	101.00	12860	113.00	1197	123.05	11022
91.05	6666	102.05	880	113.85	278	124.00	4412
92.05	6871	102.95	5492	114.30	147	125.05	5136
92.95	38849	104.05	10018	115.10	539	126.95	409781
129.00	155030	139.10	855	150.05	1437	159.00	2491
130.05	12110	140.05	1487	151.10	1997	160.00	5340
131.00	2227	141.05	18293	151.30	643	161.05	8217
131.95	1134	142.10	6243	151.70	988	161.95	2261
132.90	429	143.05	3649	152.00	1285	162.80	287
133.05	384	144.00	1057	153.00	5668	163.10	382
134.00	4509	145.00	941	154.00	4409	164.00	1442
135.00	11541	146.00	3288	155.00	10041	165.00	6294
136.05	4668	147.00	8632	156.05	16187	166.10	5503
137.00	5195	148.00	20074	157.00	2851	167.00	35236
169.05	2716	180.00	17171	191.05	2759	203.00	4416
170.00	1250	181.05	8445	192.00	7984	204.05	24840
171.00	1733	182.05	1511	193.05	8091	205.00	43184
172.00	2798	182.95	853	194.10	2105	206.10	190400
173.05	4429	184.00	2135	195.00	1317	207.05	22680
174.05	7636	185.00	12969	196.00	27816	208.00	5780
175.10	13195	186.00	102482	198.00	815488	208.95	1886
176.05	4863	187.00	27696	199.00	54517	210.15	510
177.00	6740	188.05	3094	200.00	4210	211.00	7217
178.00	2380	188.95	6120	201.55	4721	212.05	899
213.10	214	226.05	2785	237.00	3442	247.90	504
214.10	388	227.00	37470	238.00	513	248.10	332
215.00	1801	228.00	5516	238.95	1393	249.00	3109
216.05	3681	229.00	8526	240.05	1260	249.80	222
217.00	46874	230.00	1014	241.00	2293	250.05	295
217.95	5770	231.00	3403	242.05	5580	250.95	626
218.95	613	231.95	576	243.05	6475	252.10	938
221.05	57653	232.95	672	244.10	81506	253.05	1868
223.00	10836	234.00	2437	245.00	12378	255.00	411093
224.10	101365	235.00	3190	246.00	13626	256.00	59482
258.00	20446	267.00	153	278.05	2091	287.95	260
259.00	3103	267.90	147	278.95	538	289.05	473
259.90	525	270.00	494	279.80	55	290.00	507
260.10	167	270.95	941	281.05	143	291.00	372
261.05	962	272.00	561	281.95	592	291.40	107
262.00	87	272.20	388	282.90	723	292.05	784
262.70	150	273.00	13275	283.10	975	293.00	3107
263.10	85	274.00	34594	284.00	1148	294.00	810
264.00	676	275.00	207488	285.10	2550	295.10	349

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.781 to 3.793 min.: C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.00	8236	276.05	25826	286.05	527	296.00	46282
297.95	609	312.10	64	322.05	905	332.90	282
300.90	553	312.90	592	323.05	17188	333.20	1153
302.05	999	314.00	2492	324.05	2977	334.00	10068
303.05	5020	315.00	5640	324.90	267	335.00	2809
304.05	1748	316.05	2859	326.05	431	335.95	320
304.90	134	316.85	404	327.00	2821	338.95	396
308.05	552	317.10	277	327.95	1772	339.95	323
308.95	347	319.00	52	329.00	339	341.05	1868
310.05	659	319.20	53	329.20	68	342.05	673
310.80	57	320.05	236	329.90	92	343.00	81
347.00	554	362.10	67	373.05	2184	392.10	255
349.95	226	362.80	81	374.00	386	393.00	233
350.95	527	363.30	64	376.90	99	396.90	128
352.00	4551	363.90	436	377.10	61	400.95	693
353.05	3590	365.00	22010	383.05	2499	402.05	3593
354.05	6222	365.95	2829	383.90	571	403.00	5287
355.15	1133	366.80	115	384.80	58	404.05	1989
356.10	62	369.85	325	385.10	74	405.05	226
357.90	136	370.10	226	390.05	877	414.70	99
359.00	642	371.00	1523	391.00	987	415.10	180
421.05	4488	438.35	279				
422.05	5651	438.90	298				
423.00	37858	439.10	344				
424.05	7375	441.05	105869				
425.05	634	442.05	708608				
435.40	60	443.05	137061				
435.75	239	444.05	12438				
436.40	92	444.95	813				
436.80	111						
437.60	138						

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1396	48.10	4120	59.20	233	71.10	1058
37.00	3720	49.10	39264	60.10	439	73.10	3738
38.20	5840	50.10	113616	61.10	5440	74.10	39448
39.10	33752	51.10	436992	62.00	5984	75.10	64352
40.10	2520	52.10	20032	63.10	15885	76.10	23880
41.00	3181	53.10	1067	64.10	2346	77.10	446400
42.10	597	54.00	262	65.10	9211	78.10	27352
43.10	1789	55.10	4080	66.10	737	79.00	28704
44.00	2538	56.00	12040	67.20	1187	80.00	20080
45.00	766	57.00	31856	69.00	404288	81.10	29088
47.00	6891	58.00	1175	70.10	2633	82.00	7548
84.00	27416	95.10	1514	107.00	111584	119.00	1147
85.00	8793	96.00	2510	108.00	19144	120.00	1477
86.00	27952	98.10	37232	110.00	241088	121.10	851
87.00	4442	99.10	26032	111.10	36280	122.00	8314
88.00	4307	100.00	2432	112.00	3573	123.10	13149
89.00	1098	101.00	15334	113.00	1234	124.00	5415
90.20	291	102.10	1494	113.90	414	125.10	6766
91.00	6825	103.00	7000	115.20	875	127.00	478656
92.10	7790	104.10	11737	116.10	7819	128.10	34192
93.00	45112	105.00	9116	117.00	90624	129.00	184576
131.00	2893	142.10	7074	153.00	6396	164.00	1623
132.00	1524	143.00	4522	154.00	5924	165.00	8068
133.10	1161	144.00	996	155.00	12229	166.10	6980
134.00	5432	145.10	1143	156.10	20032	167.00	43232
135.00	14481	146.00	3694	156.90	3966	168.00	16976
136.10	5581	147.10	11552	158.00	3788	169.00	2998
137.10	6737	148.00	24496	159.00	3117	169.90	1198
138.00	1793	149.10	4491	160.00	5144	171.00	1924
139.10	1102	150.00	1813	161.10	10100	172.00	2817
140.00	2247	151.10	3317	161.90	2648	173.10	5583
175.10	14587	186.00	121256	199.00	65800	212.10	3713
176.00	5204	187.00	32448	200.00	5816	213.20	1079
177.00	9217	188.00	3701	201.60	5052	214.10	388
178.00	2675	189.00	6754	203.00	6086	215.00	2104
179.00	29616	190.00	1355	204.10	29560	216.00	4825
180.00	19720	191.00	3009	205.00	51160	217.00	55584
181.10	10314	192.00	8699	206.10	224384	218.00	6793
182.00	1437	193.00	10447	207.10	27312	218.90	826
182.90	1021	194.10	2540	208.00	7279	221.00	72416
184.00	2679	196.00	32488	208.90	2790	223.00	12902
225.00	29048	236.00	2213	247.00	5056	259.00	4144
226.10	3409	237.00	4452	248.10	996	259.90	1033
227.00	45152	238.00	421	249.00	4032	261.10	1206
228.00	5810	239.00	2014	250.00	643	262.70	450
229.00	10335	240.00	1551	250.90	666	263.90	1055
230.00	1230	241.00	2505	252.10	1084	265.00	9716
231.00	4163	242.00	6709	253.10	2384	266.00	1280
231.90	748	243.10	8099	255.00	485696	270.00	526
232.90	1171	244.10	96440	256.00	70936	271.00	1253
234.00	3001	245.00	15228	257.00	6118	272.20	1165
274.00	41624	285.10	2964	296.00	56888	312.10	193
275.00	247360	286.00	648	297.00	7075	312.90	573
276.10	31368	287.00	200	298.00	697	314.00	3147
277.00	18144	288.00	241	300.80	783	315.00	6698
278.10	2006	289.10	704	302.00	1151	316.00	3297
278.90	764	290.00	627	303.10	6577	317.10	394
279.80	166	290.90	415	304.10	1782	319.00	158
281.10	198	291.40	321	308.10	712	320.00	399
281.90	778	292.10	592	308.90	342	321.10	1403

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.10	1664	293.00	3770	310.10	694	322.10	1103
324.10	3561	338.90	510	355.10	1713	372.10	11231
324.90	292	339.90	333	356.10	187	373.10	2517
326.10	524	341.00	2011	357.90	208	374.00	608
327.00	3112	342.00	915	359.00	1108	383.10	3107
328.00	2004	346.00	4036	361.00	355	383.90	733
328.90	462	347.00	618	362.80	243	385.10	224
331.90	1253	350.00	422	365.00	26792	390.10	1099
333.20	1945	350.80	656	365.90	3718	391.00	935
334.00	12063	352.00	5682	366.80	155	391.90	611
335.00	3584	353.10	4160	370.10	679	393.00	152
401.00	1158	435.40	181				
402.00	4389	435.80	241				
403.00	6995	436.40	276				
404.10	2554	438.00	754				
405.10	462	441.10	131200				
415.10	338	442.10	867456				
421.00	6284	443.10	164864				
422.00	6033	444.00	15177				
423.00	45808	444.90	1026				
424.00	8127						

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 288 (3.781 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1558	47.00	7594	58.10	1301	70.10	3007
37.00	3943	48.10	4487	59.00	349	71.10	761
38.10	7819	49.10	39744	60.00	524	73.10	4138
39.10	39392	50.10	122784	61.00	5983	74.10	41344
40.00	2554	51.10	477696	62.00	6925	75.00	67632
41.10	3345	52.10	23680	63.10	17528	76.10	23632
42.10	1623	53.10	1261	64.10	2831	77.10	485696
43.10	1519	53.80	262	65.10	9646	78.10	34080
44.10	2506	55.10	4250	66.30	555	79.00	32376
45.10	1106	56.10	13576	67.20	1404	80.00	24064
46.10	218	57.00	31208	69.00	446208	81.00	33960
83.10	9371	94.10	3160	105.00	9941	118.00	6737
84.00	28344	95.10	1839	107.00	124560	119.10	1117
85.00	10560	96.10	1921	108.10	21240	120.00	1808
86.00	26272	97.10	2119	110.00	263552	120.90	678
87.10	4277	98.00	35304	111.10	38688	122.00	9346
88.00	4853	99.00	25704	112.00	4773	123.00	13446
89.00	860	100.00	2544	113.00	1296	124.00	5553
89.90	214	101.00	16416	113.80	422	125.00	4974
91.10	8537	102.00	686	115.10	856	127.00	488832
92.00	8857	103.00	7101	116.10	8135	128.00	40128
130.10	13606	141.10	22408	152.00	2315	163.10	1147
131.00	3375	142.10	7934	153.00	6584	163.90	1683
132.00	1394	143.10	4524	154.00	4049	165.00	8053
132.90	1288	144.00	1595	155.00	12007	166.10	6467
134.00	4863	145.00	1117	156.00	19016	167.00	42368
135.00	13604	146.10	3874	157.00	3732	168.00	16776
136.00	5163	147.00	10258	158.00	3605	169.10	3298
137.10	7041	148.00	23432	159.00	3134	170.10	1804
138.00	1790	149.00	4097	160.00	7118	171.00	1895
139.10	1509	150.10	1322	161.00	10347	172.00	3963
174.10	8725	185.00	14845	196.00	31176	208.00	7030
175.10	15672	186.00	113152	198.00	919488	209.00	1734
176.10	5589	187.00	30448	199.00	57744	211.00	8838
177.00	7614	188.10	3677	200.00	4664	212.10	3637
178.00	2535	188.90	7094	201.50	5380	213.00	805
179.00	30624	190.00	1449	202.10	2788	214.10	265
180.00	19072	191.10	3369	203.00	5502	215.00	1902
181.00	8253	192.00	10132	204.00	26440	216.10	3908
182.00	1555	193.10	7566	205.00	48440	217.00	52624
183.00	1037	194.10	2358	206.10	206080	218.00	7420
221.10	63144	233.10	540	244.10	87272	256.00	63064
223.00	11787	234.00	2445	245.00	13478	257.00	4887
224.10	108512	235.00	3616	246.00	14228	258.00	22248
225.10	28984	236.00	2372	247.10	2276	259.00	3128
226.10	2643	237.00	3060	247.90	827	259.90	544
227.00	40952	238.00	800	249.00	3413	261.00	1045
228.00	5681	238.90	1299	249.80	666	262.00	261
229.00	9181	240.10	1146	251.00	792	263.10	257
230.00	1211	241.00	2269	252.10	1059	264.10	975
231.00	3795	242.10	5793	253.00	1875	265.00	8614
267.10	275	279.00	427	291.10	351	304.00	2310
267.90	181	281.00	233	292.00	1019	304.90	178
270.00	653	282.00	389	293.00	3311	308.00	502
271.00	737	282.90	2169	294.10	1086	309.00	395
272.00	881	283.90	1079	295.10	1049	310.00	705
273.00	13628	285.10	2503	296.00	44400	311.10	162
274.00	37912	286.10	599	297.00	7377	312.90	588
275.00	214912	287.00	180	297.90	701	314.00	2669
276.00	28056	287.90	217	300.90	413	315.00	5394

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 288 (3.781 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	16600	289.00	427	302.10	993	316.10	2843
317.10	438	332.10	1136	347.00	529	366.80	190
320.10	310	332.90	847	351.00	517	369.80	579
321.00	2084	334.00	9477	352.00	4579	371.10	1397
322.00	745	335.00	2656	353.00	4141	372.00	8830
323.00	17168	336.10	178	354.10	5191	373.00	2298
324.10	2931	338.90	328	355.20	1120	373.90	203
324.90	341	340.00	436	359.00	456	376.90	297
326.10	354	341.00	1887	361.00	150	383.00	2379
327.00	2731	342.10	497	363.90	627	383.90	542
327.90	2101	343.00	243	365.00	20480	390.00	1003
391.90	573	423.00	33456	445.00	764		
393.00	329	424.00	7140				
396.90	170	425.00	524				
401.00	438	435.80	185				
402.10	2785	436.80	334				
403.00	4675	438.40	426				
404.00	1807	438.90	894				
415.10	203	441.00	86744				
420.10	275	442.00	584448				
421.10	3438	443.00	118160				

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 290 (3.793 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1128	47.00	7712	58.00	624	70.00	1362
37.00	2521	48.10	4979	59.10	274	71.10	852
38.10	3369	49.00	36472	59.90	165	72.00	482
39.10	17544	50.10	62048	61.00	2150	73.00	2425
40.00	1618	51.10	234304	62.10	3166	74.10	20704
41.10	2877	52.10	10497	63.00	8190	75.10	32408
41.90	837	53.00	660	64.00	1250	76.10	11864
43.20	1058	54.10	225	65.10	3661	77.10	230272
44.10	2030	55.10	2297	66.00	228	78.10	15229
45.00	417	56.10	6425	67.00	1169	79.10	16276
45.90	214	57.00	15984	69.00	216128	80.00	12220
82.00	4607	93.00	23312	104.00	6584	116.10	5067
83.00	5944	93.90	1272	105.00	5532	117.00	46064
84.00	27048	95.20	949	106.10	2834	118.00	3062
85.00	5153	96.00	1303	107.00	68448	119.00	922
86.00	21696	97.10	1739	108.00	11150	120.00	1103
87.00	2583	98.10	17480	110.00	132480	121.10	756
88.00	3310	99.10	14845	111.00	18944	122.00	4852
89.10	339	100.10	1313	112.10	1944	123.10	7740
90.00	327	101.10	8922	113.00	1063	124.00	2965
91.00	4637	102.00	460	114.30	443	125.10	3670
128.10	20808	139.00	669	151.30	1929	162.00	1401
129.00	100384	141.00	11879	152.00	1541	162.90	715
130.00	7494	142.00	3723	153.00	4024	164.10	1021
131.10	1542	143.00	2658	153.90	3254	165.00	3533
131.90	1090	143.90	582	155.00	6568	166.00	3577
133.00	882	145.00	1247	156.10	10071	167.00	20984
134.00	3232	145.90	2297	157.10	1864	168.00	10129
135.00	7697	147.00	4967	158.10	2056	169.00	1853
136.00	3260	148.00	12294	159.10	1998	170.00	750
136.90	3240	149.00	2821	160.00	3759	171.00	1381
173.00	3332	184.10	1468	195.00	951	208.00	4362
174.10	5368	185.00	9736	196.10	19784	209.00	1136
175.00	9328	186.00	73040	198.00	564928	210.20	2598
176.10	3797	187.00	20192	199.00	40008	211.10	5123
177.00	4120	188.10	1904	200.00	2710	212.00	3651
178.00	1931	189.00	4512	201.60	3731	213.10	754
179.00	17368	190.00	607	203.00	2712	214.10	512
180.00	12722	191.00	2392	204.10	18520	215.00	1397
181.00	6769	192.00	5121	205.10	29952	216.10	2311
182.10	1543	193.00	6260	206.10	140736	217.00	32416
219.00	585	232.00	289	243.10	4780	255.00	317696
221.00	38136	233.00	305	244.10	60808	256.00	44448
223.00	7820	234.00	1867	245.10	8429	257.00	3047
224.00	71720	235.00	2540	246.00	9971	258.10	15011
225.10	17672	235.90	1484	247.00	2002	259.00	2039
226.00	2305	237.00	2815	247.90	687	260.10	501
227.00	27032	238.00	319	249.00	1883	261.10	637
228.00	5058	238.90	867	250.10	244	265.00	6378
229.00	6062	240.10	1083	250.90	422	266.00	1267
230.10	602	241.00	2106	252.00	673	266.90	186
270.00	305	283.10	1261	296.00	37560	310.80	173
270.90	835	284.10	1173	297.00	5901	312.90	616
272.00	804	285.10	2183	297.90	430	314.00	1662
273.00	10425	286.00	335	301.00	465	315.00	4828
274.00	24248	287.90	323	302.10	854	316.00	2437
275.00	160192	289.00	288	303.00	3457	316.90	783
276.10	18056	290.00	402	304.00	1154	319.20	159
277.00	11248	291.00	352	304.90	225	321.00	1139
278.00	1795	292.00	742	308.10	442	322.00	869

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 290 (3.793 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.90	424	293.00	2242	309.00	305	323.10	13518
325.00	170	339.00	350	355.00	566	373.00	1737
326.00	417	339.90	201	357.90	200	374.10	349
327.00	2620	341.10	1707	358.90	362	377.10	184
328.00	1213	342.10	607	362.10	202	383.00	2013
329.20	206	345.90	2585	363.30	193	383.90	440
329.90	277	347.00	516	363.90	681	384.80	174
332.10	935	349.90	256	365.00	18760	390.00	531
333.20	1515	351.00	410	366.00	1887	390.90	945
334.00	8664	352.00	3394	369.90	397	392.10	765
335.00	2187	353.00	2470	371.00	1099	393.00	219
402.00	3607	435.70	293				
403.00	4192	437.60	414				
404.00	1607	438.30	413				
404.90	217	439.10	1032				
414.70	299	441.10	99664				
419.90	225	442.10	673920				
421.00	3743	443.10	128160				
422.10	4626	444.10	11142				
423.00	34312	445.00	651				
424.10	6858						

Data File : C:\MSDCHEM\1\DATA\C14929.D
Acq On : 12/19/11 09:44
Sample : DFTPPYR
Misc : DFTPPYR INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 282 (3.746 min): C14929.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	981	48.10	4855	58.10	203	80.00	173
37.00	1556	49.00	37504	67.00	562	81.00	1054
38.00	581	50.00	2448	69.10	1453	82.20	433
39.00	293	51.00	11084	69.90	626	83.00	2506
40.10	792	51.90	272	71.00	468	84.00	29096
41.00	2069	52.20	264	72.00	177	85.10	1861
42.20	983	52.90	222	73.00	771	86.00	20672
43.10	1296	54.10	269	74.00	201	87.20	460
44.00	1827	55.10	1715	76.00	151	88.00	3462
45.10	314	56.20	350	77.10	402	88.90	205
47.00	8747	57.10	1446	79.00	624	90.80	431
92.90	204	106.10	652	124.00	232	138.00	181
93.90	191	106.70	287	125.30	319	139.10	238
95.10	682	108.30	226	125.80	160	141.10	261
96.20	328	108.90	465	126.90	395	143.20	252
97.00	591	111.00	441	127.90	386	144.90	228
98.10	280	112.10	222	129.20	330	147.00	293
100.80	210	115.10	344	131.00	376	149.10	352
101.20	487	119.00	512	132.10	202	151.10	256
102.90	326	120.20	234	133.20	297	155.00	227
104.10	320	121.00	266	135.00	386	156.10	186
159.10	258	202.00	748	221.10	245		
161.10	253	203.10	350	225.00	158		
162.80	181	206.70	207	227.10	242		
165.00	257	207.20	293				
166.10	171	208.10	443				
167.10	292	209.20	233				
177.20	243	210.10	356				
179.10	156	211.20	590				
190.10	160	212.10	2768				
191.10	164	213.10	397				

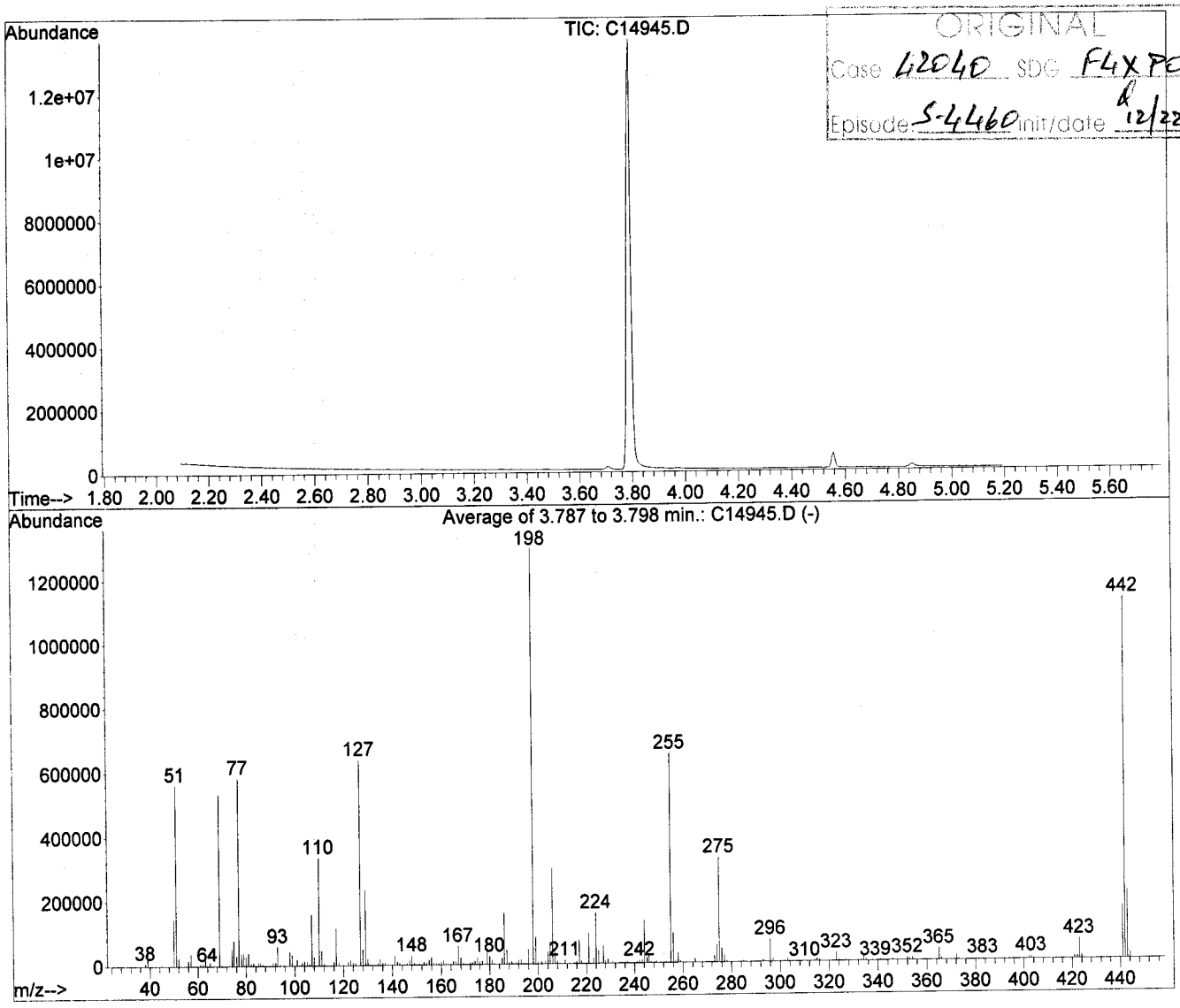
DFTPP

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

ORIGINAL
Case L2040 SDG F4XP0
Episode S-4460 init/date d 12/22/11



AutoFind: Scans 289, 290, 291; Background Corrected with Scan 282

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.3	561616	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.3	534880	PASS
70	69	0.00	2	0.5	2668	PASS
127	198	10	80	49.2	637589	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1295957	PASS
199	198	5	9	6.5	84402	PASS
275	198	10	60	25.1	325333	PASS
365	198	1	100	2.7	35248	PASS
441	443	0.01	100	78.1	165141	PASS
442	198	50	100	86.8	1125418	PASS
443	442	15	24	18.8	211520	PASS

8881

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.787 to 3.798 min.: C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	291	50.05	145346	60.05	335	72.00	289
37.00	2235	51.05	561616	61.05	6578	72.20	98
38.05	7759	52.10	26541	62.10	7733	73.05	3650
39.10	46057	53.10	1192	63.10	20891	74.10	51421
40.10	1802	54.05	199	64.00	3202	75.00	78472
41.10	847	55.10	2879	65.10	10444	76.10	30776
41.95	3	56.00	15606	66.00	495	77.10	583759
43.05	514	57.05	37133	67.00	792	78.10	38173
44.00	1124	58.10	1481	69.00	534880	79.05	38620
45.00	1098	58.95	415	70.00	2668	80.00	28261
49.00	2362	59.30	141	71.00	540	81.00	39544
83.10	9636	95.05	1241	107.00	157817	117.00	115682
85.05	9158	96.00	2881	108.00	26317	118.00	8713
86.00	10336	98.00	45154	109.05	1009	119.00	1132
87.00	4584	99.00	33416	110.00	334366	120.05	2080
87.90	1262	100.05	3037	111.05	46001	120.90	343
89.00	1117	101.00	20432	112.00	5278	121.20	252
90.00	61	102.00	1399	113.00	1912	122.00	11647
91.05	9290	103.10	8183	113.90	65	123.00	16716
92.10	10297	104.00	13497	114.15	197	124.00	7701
93.00	59109	105.05	12699	115.00	909	125.05	7613
128.05	48840	138.90	1455	150.05	1928	161.00	13063
129.00	234880	140.10	3058	151.10	3924	161.95	3624
130.00	18571	141.00	29316	151.90	2409	163.05	1044
131.00	3326	142.05	9506	153.00	8798	164.00	1967
132.00	1925	143.00	6327	154.05	6100	165.00	9828
133.00	690	144.05	1860	155.05	14429	166.05	9068
134.00	6896	145.10	2003	156.00	22116	167.00	57088
135.00	19055	146.05	5071	157.05	5188	168.00	21747
136.05	7662	147.00	14272	157.95	4940	169.10	4184
137.05	8000	148.00	29317	159.05	3696	170.10	1906
171.10	1300	182.05	1934	193.05	13809	206.05	295509
172.00	4451	182.95	1243	194.05	3147	207.05	36370
173.00	6515	184.00	3443	195.05	2883	208.00	8979
174.00	10707	185.10	19285	196.05	44880	209.00	2930
175.05	19668	186.05	159965	198.00	1295957	210.10	1092
176.00	7517	187.05	44253	199.00	84402	211.10	11661
177.00	9828	188.05	4684	200.00	6471	213.05	787
178.05	3270	189.05	8883	201.50	7704	213.60	137
179.00	39168	190.00	1626	203.00	6921	214.10	370
180.00	25680	191.05	4441	204.00	36941	215.00	2788
217.00	73498	230.00	1660	241.00	3679	250.85	835
218.00	9556	231.00	5444	242.05	8527	251.10	232
219.10	965	231.95	956	243.10	9355	252.00	1169
221.00	93581	233.05	1157	244.10	132600	253.00	2657
223.00	17924	234.00	4057	245.10	17459	255.00	648874
224.05	156821	235.00	4254	246.00	21239	256.00	92090
225.05	39562	236.00	2854	247.00	4635	257.00	6959
226.10	4075	237.00	5100	248.00	1056	258.00	32002
227.00	56362	238.05	628	249.00	4668	259.00	5104
228.00	7915	239.00	2274	249.90	296	260.00	1053
261.95	152	272.05	1932	282.10	242	294.00	1517
262.80	79	273.00	19102	283.00	2471	296.00	69781
263.10	280	274.05	54354	284.00	1826	297.00	10018
264.05	1053	275.00	325333	285.05	3760	297.95	777
265.00	13568	276.00	42253	286.00	663	299.05	155
266.05	1597	277.00	22021	288.10	250	301.05	1151
267.00	75	277.95	3558	289.00	997	301.95	956
267.15	195	279.00	694	290.05	834	302.20	547
268.00	221	280.10	52	291.10	441	303.05	8284

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Average of 3.787 to 3.798 min.: C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.00	672	281.10	292	292.05	1197	304.00	2204
305.10	189	316.05	5500	325.85	363	335.95	333
307.05	107	317.05	908	326.20	210	336.20	141
308.00	1196	317.90	108	327.00	3979	337.20	59
308.95	646	319.00	76	328.05	2641	339.00	364
309.60	163	319.85	306	328.95	513	339.95	260
310.05	1246	320.10	80	329.80	58	341.00	2890
311.00	327	321.10	2626	331.05	226	342.05	861
312.00	345	321.90	376	332.00	1913	342.90	75
312.95	751	323.00	26013	333.05	2583	345.00	93
314.05	3644	324.10	4792	334.00	16606	345.95	5071
348.05	139	360.00	298	374.05	568	397.00	125
349.80	57	361.00	243	377.00	244	401.05	967
350.20	174	362.80	61	383.00	4104	402.05	5979
351.10	389	363.90	228	384.00	1026	403.00	8403
352.05	7494	365.00	35248	385.10	325	404.00	2615
353.05	5897	366.00	5540	390.05	2250	404.85	263
354.10	9222	366.90	288	391.05	1587	405.10	291
355.05	1692	370.05	880	392.05	833	408.80	53
356.00	86	371.05	2386	392.95	116	409.95	317
358.00	51	372.10	15266	395.95	158	414.95	388
421.00	7999	434.60	109	438.80	450		
422.10	7906	434.80	85	439.65	2729		
423.05	61482	435.25	242	441.05	165141		
424.05	11477	435.60	113	442.00	1125418		
425.00	1188	436.30	112	443.05	211520		
427.10	58	436.90	186	444.05	19560		
430.20	51	437.05	340	444.90	317		
432.80	56	437.50	149	445.10	668		
433.80	156	437.70	507				
434.00	75	438.10	280				

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 290 (3.792 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	791	47.90	2187	59.00	617	71.00	691
37.10	3795	49.00	24312	60.10	533	72.00	484
38.10	10015	50.10	177856	61.10	8141	73.10	5264
39.10	56992	51.10	683584	62.10	9867	74.10	63072
40.10	2965	52.10	32944	63.10	26776	75.00	94528
41.10	2507	53.10	1665	64.00	3994	76.10	36160
42.10	465	54.10	298	65.10	11483	77.10	714944
43.10	830	55.10	4229	66.00	700	78.10	45656
44.00	2580	56.00	19864	66.90	1140	79.00	46496
45.10	1307	57.00	46424	69.00	657792	80.00	36744
47.00	4203	58.10	1656	70.00	3077	81.00	48000
83.10	11460	95.10	1778	107.00	192896	119.00	1620
84.00	15086	96.10	3652	108.00	30656	120.10	3001
85.00	11944	98.00	55824	110.00	415168	122.00	14159
86.00	22912	99.00	39800	111.00	56024	123.00	21176
87.00	6533	100.00	3430	112.00	6774	124.00	8998
88.00	4106	101.00	25056	113.00	2328	125.00	9686
89.00	1403	102.00	1636	114.20	335	127.00	792256
91.10	12768	103.10	10151	114.90	956	128.00	61832
92.10	12554	104.00	17288	116.10	13610	129.00	288320
93.00	73464	105.00	16325	117.00	142144	130.00	24560
132.00	2293	143.00	8584	154.00	7854	165.00	12243
133.00	1190	144.00	2434	155.00	18328	166.00	11082
134.00	7886	145.10	2195	156.00	26360	167.00	71864
135.00	23624	146.10	5965	157.10	6531	168.00	28208
136.00	9817	147.00	18928	157.90	5918	169.10	5166
137.10	10465	148.00	38376	159.10	4595	170.00	2822
138.00	3081	149.00	6882	160.00	10693	171.10	2444
138.90	1619	150.00	2201	161.00	15355	172.00	5810
140.10	3802	151.10	4704	162.00	5147	173.00	8094
141.00	38440	151.90	3884	163.10	1386	174.00	12703
176.00	9237	187.00	54568	199.00	107344	213.00	866
177.00	12209	188.00	5947	200.00	8180	214.10	513
178.00	4043	189.00	11512	201.50	9849	215.00	3397
179.00	48480	190.00	2399	203.00	9022	216.00	7975
180.00	31256	191.10	5752	204.00	46576	217.00	94832
181.00	15704	192.10	14321	205.00	84520	218.00	12548
182.00	2506	193.10	16688	206.00	369536	219.10	1038
182.90	1465	194.00	3331	207.00	44888	221.00	119576
184.00	4303	195.10	4181	208.00	10668	223.00	22192
185.10	23648	196.10	58328	209.00	3946	224.10	197888
226.10	5078	237.00	5960	248.00	1514	260.00	1298
227.00	72896	238.10	1024	249.00	5995	261.00	1545
228.00	8402	239.00	2808	250.10	1115	261.90	240
229.00	15862	240.00	2343	250.90	1510	263.00	390
230.00	2315	241.00	4428	252.00	1605	264.00	1152
231.00	7300	242.10	10362	253.00	3665	265.00	17448
231.90	1118	243.10	11237	255.00	826176	266.10	2099
233.00	1235	244.10	172672	256.00	117392	267.20	284
234.00	5277	245.10	21952	257.00	8504	268.00	384
235.00	5273	246.00	27848	258.00	39312	269.90	1095
272.00	2559	283.00	2968	296.00	89064	309.00	732
273.00	24368	284.00	2280	297.00	12889	310.00	1660
274.10	70944	285.00	5028	298.00	1196	310.90	296
275.00	417408	286.00	751	299.00	282	312.00	474
276.00	54760	288.10	356	301.10	1591	312.90	905
277.00	27064	289.00	1263	301.90	1748	314.10	4426
278.00	4365	290.00	1033	303.00	11073	315.00	10782
279.00	1043	291.10	581	304.00	2880	316.00	6782
280.10	158	292.00	1617	304.80	360	317.10	903

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 290 (3.792 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.10	492	293.10	7006	307.00	158	317.90	325
320.10	241	332.00	2505	347.00	1193	365.00	44352
321.10	3621	333.00	3061	348.10	230	366.00	6920
323.00	32856	334.00	21808	349.80	173	366.90	421
324.10	6787	335.00	5317	352.00	9292	370.10	1192
325.10	556	335.90	531	353.10	7116	371.10	2581
325.90	812	339.00	430	354.10	10909	372.10	19912
327.00	4814	340.00	444	355.00	2366	373.00	4615
328.10	3176	341.00	3169	359.00	634	374.00	630
328.90	687	342.00	1087	360.00	445	377.10	432
329.80	175	342.90	227	361.00	251	383.00	4346
385.10	499	405.10	480	432.80	169	443.00	265024
390.00	2341	410.00	353	434.00	226	444.10	24400
391.10	2230	415.00	521	434.60	328	445.10	1260
392.00	1209	419.80	434	435.20	357		
395.90	288	421.00	11000	435.60	340		
397.00	376	422.10	9866	437.10	599		
401.00	859	423.10	79016	437.70	634		
402.10	7660	424.10	14579	438.50	1348		
403.00	9989	425.00	1293	439.70	3669		
404.00	3077	427.10	175	441.10	197120		

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	875	47.00	4520	58.10	2251	69.00	685568
36.20	798	48.10	2388	58.90	465	70.00	3223
37.00	3350	49.10	25072	59.30	423	71.10	645
38.10	9872	50.10	194048	60.00	473	72.00	383
39.10	61824	51.10	751552	61.00	8754	73.00	4458
40.10	2802	52.10	34128	62.10	9799	74.10	66384
41.10	2330	53.10	1119	63.10	25304	75.00	101720
42.00	577	54.00	301	64.00	3953	76.10	39136
43.00	846	55.10	4891	65.10	14366	77.10	757696
44.00	1946	56.10	19688	66.10	995	78.10	50536
45.00	1404	57.10	48920	67.10	1539	79.10	49392
81.00	51984	93.00	72408	105.10	15164	117.00	142720
82.10	12531	94.10	5595	106.10	6973	118.00	10375
83.10	12632	95.10	1992	107.00	201920	119.00	1484
84.00	14653	96.00	4135	108.00	33800	120.00	2218
85.10	13551	98.00	56816	110.00	414720	120.90	1029
86.00	22536	99.00	43128	111.10	58896	122.00	13836
87.10	5617	100.10	3679	112.00	6290	123.00	20184
87.90	2995	101.00	25384	113.00	2203	124.00	9315
89.00	1409	102.00	1679	114.10	257	125.10	9266
91.00	11329	103.10	9545	115.10	1103	127.00	771968
129.00	287936	140.10	3434	151.10	4355	161.90	4190
130.00	21024	141.00	33456	151.90	3343	163.10	1072
131.10	4497	142.10	12017	153.00	10473	164.00	2490
132.00	2099	143.00	6930	154.10	7149	165.00	11856
133.00	733	144.10	2409	155.10	15559	166.10	10769
134.00	9113	145.10	2951	156.00	26360	167.00	69656
135.00	22296	146.00	5961	157.00	6108	168.00	23696
136.10	9040	147.00	16888	158.00	6534	169.10	4927
137.00	8767	148.00	32792	159.00	4360	170.20	1792
138.10	2507	149.00	6538	160.00	10157	170.90	2517
173.00	7873	184.00	3684	195.00	2676	208.00	10072
174.00	13027	185.10	22664	196.00	50696	209.00	3257
175.00	21752	186.10	185280	198.00	1438208	211.10	12901
176.10	8967	187.10	50376	199.00	94032	213.20	802
177.00	10877	188.10	5167	200.00	7873	213.60	411
178.10	4045	189.10	9964	201.50	8838	214.20	371
179.00	45784	190.00	1569	203.00	7761	215.00	3055
180.00	29272	191.00	5002	204.00	39336	216.10	7062
181.00	15601	192.00	13516	205.00	74248	217.00	80328
182.10	2103	193.00	14668	206.10	329984	218.00	9451
221.00	101168	233.10	1635	244.10	134400	256.00	97688
223.00	19928	234.00	4424	245.10	19080	257.00	7581
224.00	167808	235.00	4970	246.00	20864	258.00	31248
225.10	43688	236.00	3326	247.00	5354	259.00	5287
226.10	4954	237.00	5323	248.00	1073	260.00	1107
227.00	59728	238.00	607	249.00	5133	261.00	1060
228.00	9966	239.00	2686	249.90	890	262.00	218
229.00	12519	240.00	2339	250.80	995	263.20	452
230.00	1706	241.00	4475	251.90	1045	264.10	1117
231.00	6209	242.00	9472	253.00	2480	265.00	13209
267.00	226	281.10	197	293.00	5491	308.90	837
270.00	526	282.10	728	294.10	1303	309.60	490
271.00	1087	283.00	2533	296.00	68168	310.10	814
272.10	1672	284.00	1906	297.00	9928	311.00	429
273.00	19912	285.10	3322	297.90	672	312.00	561
274.00	56656	286.00	606	301.00	1026	313.10	579
275.00	320576	288.10	396	302.20	1641	314.00	3391
276.00	42048	289.00	1018	303.10	7401	315.00	8374
277.00	21768	290.10	997	304.00	1912	316.10	5476

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 289 (3.787 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	3503	291.00	490	305.10	568	317.10	1001
321.10	2399	334.00	14746	352.00	7005	366.90	274
321.90	1130	335.10	4928	353.00	5411	370.10	970
323.00	25880	336.20	423	354.10	9578	371.00	2390
324.10	4798	337.20	179	355.10	1476	372.10	14521
325.10	521	339.00	487	356.00	258	373.00	3345
327.00	4275	341.00	3103	359.00	811	374.00	577
328.10	2666	342.10	887	360.00	251	383.00	4284
329.00	471	346.00	5046	361.00	240	384.00	1010
331.00	300	347.10	1070	363.90	685	385.10	228
332.00	1662	350.20	325	365.00	33040	390.10	2492
392.00	581	420.00	151	437.50	449		
393.00	167	421.00	5995	438.10	842		
396.00	186	422.10	6697	439.70	2232		
396.70	182	423.10	50856	441.10	140160		
401.00	923	424.10	10433	442.00	938624		
402.00	5034	425.00	1185	443.10	175232		
403.00	7436	433.80	178	444.00	16640		
404.00	2081	434.40	156	444.90	951		
404.90	205	435.40	213				
409.90	314	436.30	338				

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 291 (3.798 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	647	48.00	1913	61.10	2841	73.10	2315
37.00	1881	49.10	22528	62.10	3534	74.10	24808
38.10	3907	50.10	67912	63.10	10595	75.10	39168
39.10	19824	51.10	268544	64.00	1661	76.10	17032
40.00	1468	52.00	13218	65.10	5485	77.10	279936
41.00	1644	53.10	792	65.90	313	78.10	18328
42.00	634	55.00	1710	67.00	878	79.00	21128
43.10	903	56.00	7743	69.00	263232	80.00	13025
44.10	1768	57.00	17320	70.00	1705	81.00	19232
44.90	584	58.00	538	70.90	285	82.00	5172
47.00	3488	59.00	165	72.20	296	83.10	4817
85.00	3949	96.10	1550	108.10	14497	119.10	843
86.00	14988	98.00	22824	109.10	3782	120.00	1022
87.00	2194	99.00	17320	110.00	173824	121.20	756
88.00	2168	100.10	2002	111.00	23608	122.00	6948
89.10	541	101.00	10856	112.00	2772	123.00	8790
90.00	183	102.00	882	113.00	1205	124.00	4792
91.10	4532	103.00	4853	113.90	197	125.10	3887
92.00	5956	104.00	6261	115.00	669	127.00	348544
93.00	31456	105.00	6610	116.10	5925	128.00	25416
94.10	2451	106.10	2362	117.00	62184	129.00	128384
131.10	1845	142.00	5312	154.00	3299	165.00	6117
132.00	1384	143.00	3469	155.10	9401	166.10	5355
133.10	627	143.90	739	156.00	13630	167.00	30792
134.00	3690	145.00	864	157.10	2927	168.00	13338
135.00	11245	146.10	3287	158.10	2369	169.00	2461
136.00	4130	147.10	7550	159.00	2133	170.10	1104
137.00	4769	148.00	16784	160.00	4307	171.10	1457
138.10	1078	149.00	3737	161.00	8146	172.00	2510
139.00	1028	150.00	1458	162.10	1535	173.10	3578
140.10	1940	151.20	2714	162.90	676	174.00	6393
176.10	4842	187.00	27816	199.00	51832	211.10	7513
177.00	6399	188.00	2939	200.00	3360	213.00	694
178.00	1723	189.00	5174	201.50	4426	214.00	226
179.00	23240	190.00	912	203.00	3982	215.00	1913
180.10	16512	191.00	3031	204.00	24912	216.10	4162
181.00	6884	192.00	8629	205.00	44984	217.00	45336
182.10	1193	193.00	10071	206.10	187008	218.00	6671
182.80	772	194.10	2371	207.10	22944	219.00	570
184.00	2344	195.00	1794	208.00	6197	221.10	60000
185.00	11544	196.00	25616	209.00	1587	223.00	11652
225.10	24664	236.00	1754	247.00	3124	259.00	4030
226.10	2194	237.00	4018	247.90	583	260.00	756
227.00	36464	237.90	253	249.10	2878	260.90	791
228.00	5379	239.00	1330	250.00	640	262.80	239
229.00	8806	240.00	1491	251.10	698	264.00	891
230.10	959	241.00	2136	252.10	859	265.00	10049
231.00	2824	242.00	5747	253.10	1826	266.00	716
231.90	777	243.10	6302	255.00	450112	267.10	303
233.00	602	244.10	90728	256.00	61192	268.00	279
234.00	2471	245.10	11345	257.00	4794	270.10	397
272.00	1565	284.00	1294	297.90	464	312.80	769
273.10	13026	285.00	2931	299.10	183	314.00	3116
274.00	35464	286.00	634	301.00	836	315.00	5854
275.00	238016	289.00	711	302.00	1122	316.00	4242
276.00	29952	290.00	472	303.00	6379	317.00	822
277.00	17232	291.20	253	304.00	1820	319.90	436
278.00	2808	292.10	645	307.10	163	321.00	1859
278.90	481	293.00	4395	307.90	807	323.10	19304
281.10	189	293.90	1345	308.90	370	324.10	2793

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 291 (3.798 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.90	582	296.00	52112	310.00	1265	325.00	557
326.20	630	339.90	337	354.10	7179	372.00	11367
327.00	2849	341.00	2400	355.10	1234	373.00	3672
328.00	2083	342.00	609	358.00	153	374.10	498
328.90	382	345.00	279	359.00	526	376.90	302
331.00	186	345.90	3878	359.90	200	383.00	3684
332.00	1573	346.90	1062	361.00	240	384.00	649
333.10	2479	348.00	188	365.00	28352	385.10	248
334.00	13265	350.20	198	366.00	4763	390.00	1917
335.10	3717	351.00	506	367.00	169	391.10	1418
336.00	469	352.10	6186	369.90	478	392.10	710
401.10	1121	424.00	9420	443.00	194304		
402.00	5243	425.00	1086	444.00	17640		
403.00	7785	433.80	290	445.10	746		
404.00	2687	434.80	256				
405.10	395	435.30	158				
408.80	159	437.00	423				
409.90	286	437.70	887				
415.00	419	438.80	1351				
421.00	7002	439.60	2287				
422.10	7156	441.00	158144				

Data File : C:\MSDCHEM\1\DATA\C14945.D
Acq On : 12/20/11 09:44
Sample : DFTPPYT
Misc : DFTPPYT INJ VOL: 1UL
MS Integration Params: RTEINT.P

Vial: 1
Operator: SK
Inst : C5975
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP-TUNE.M (RTE Integrator)
Title : DFTPP TUNE SOM1.2

Scan 282 (3.745 min): C14945.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	2317	48.10	2286	69.20	313	91.10	253
36.00	751	49.00	21608	73.10	362	94.90	310
37.00	773	50.00	1259	77.20	433	95.90	231
38.00	172	51.00	6277	79.10	385	97.10	307
39.10	156	52.10	222	81.00	194	107.10	225
40.10	609	55.10	731	82.00	327	109.00	251
41.20	1313	56.00	159	84.00	16046	110.10	204
41.90	555	57.10	421	85.10	656	111.10	175
43.10	345	66.00	174	86.00	9809	119.00	183
44.00	974	67.00	393	87.00	197	131.00	252
47.00	4208	68.90	337	87.90	1827	133.00	160
149.10	231						
165.00	244						
167.00	349						
176.00	165						
191.10	154						
192.00	165						
441.70	151						

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: SBLK67

Sample wt/vol: 30.00 (g/mL) G Lab File ID: C14917

Extraction: (Type) SONC

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

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/15/2011

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

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	3.3	U
129-00-0	Pyrene	3.3	U
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenzo(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14917.D
Acq On : 12/15/11 11:39
Sample : SBLK67
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Operator: SK
Inst : C5975

12/29/11

Quant Time: Dec 19 09:38:30 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	189425	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	127885	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	212405	0.4000	ug/mL	0.00
15) Chrysene-d12	15.87	240	99782	0.4000	ug/mL	0.00
19) Perylene-d12	18.14	264	112434m	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.47	152	105283	0.3598	ug/mL	0.00
Spiked Amount 0.400			Recovery =	89.95%		
13) Fluoranthene-d10	13.52	212	145632	0.3113	ug/mL	0.00
Spiked Amount 0.400			Recovery =	77.83%		

Target Compounds	Qvalue

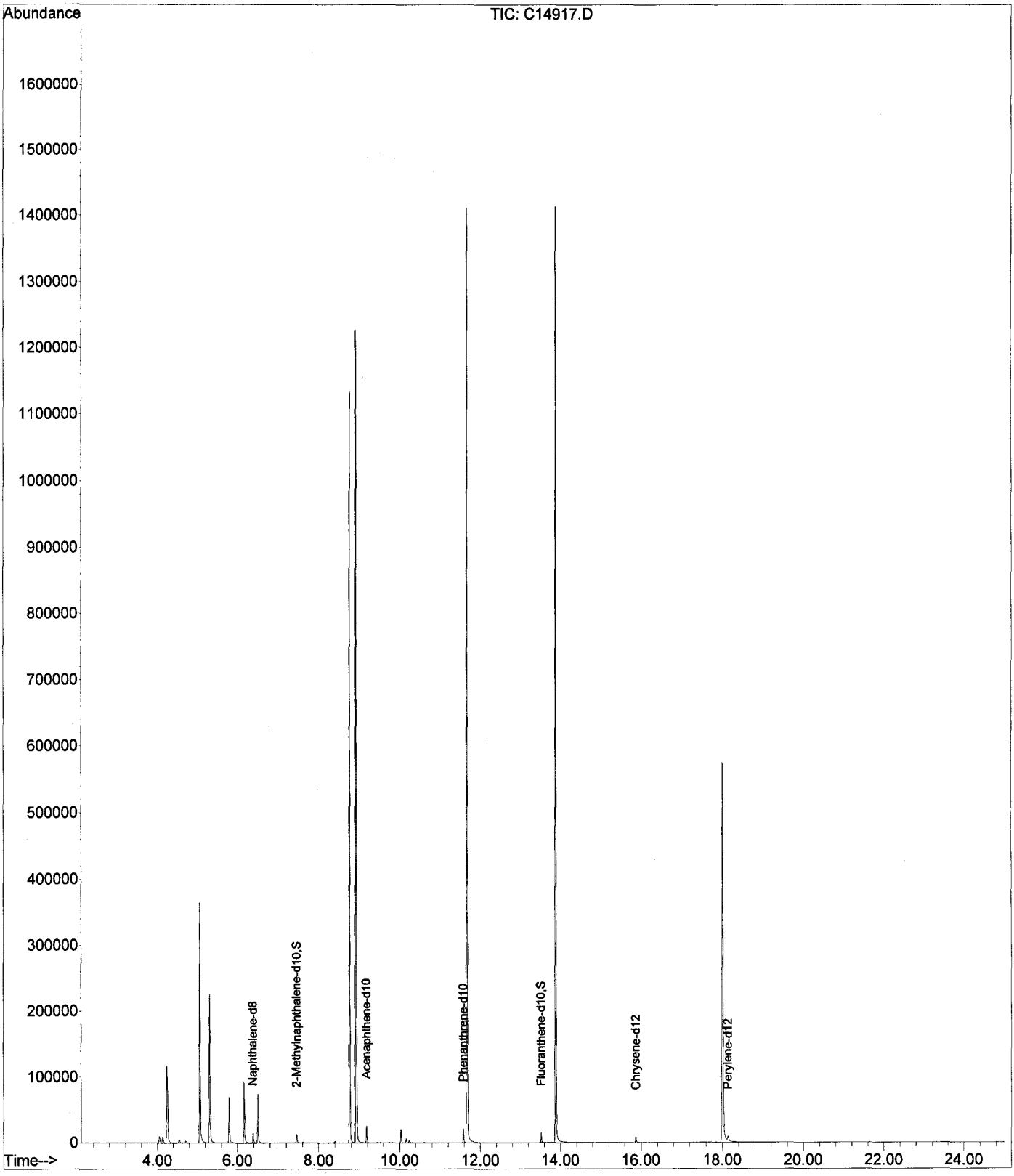
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0695

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14917.D
Acq On : 12/15/11 11:39 Operator: SK
Sample : SBLK67 Inst : C5975
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 09:38:30 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration



8656

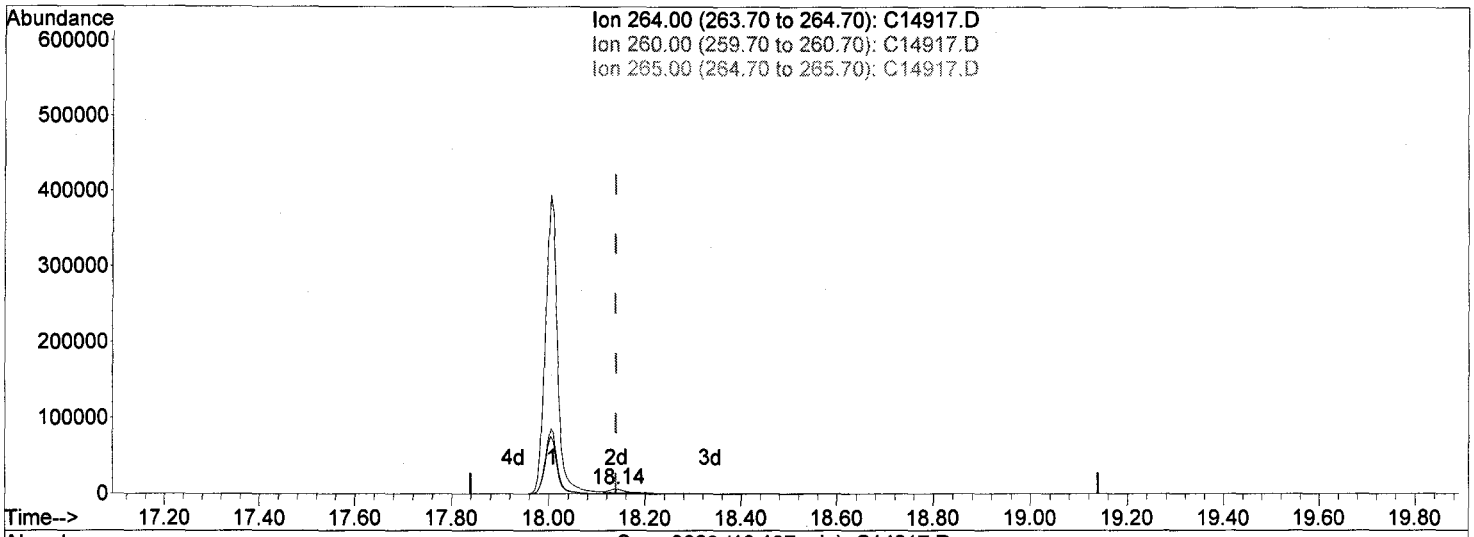
Quantitation Report (Qedit)

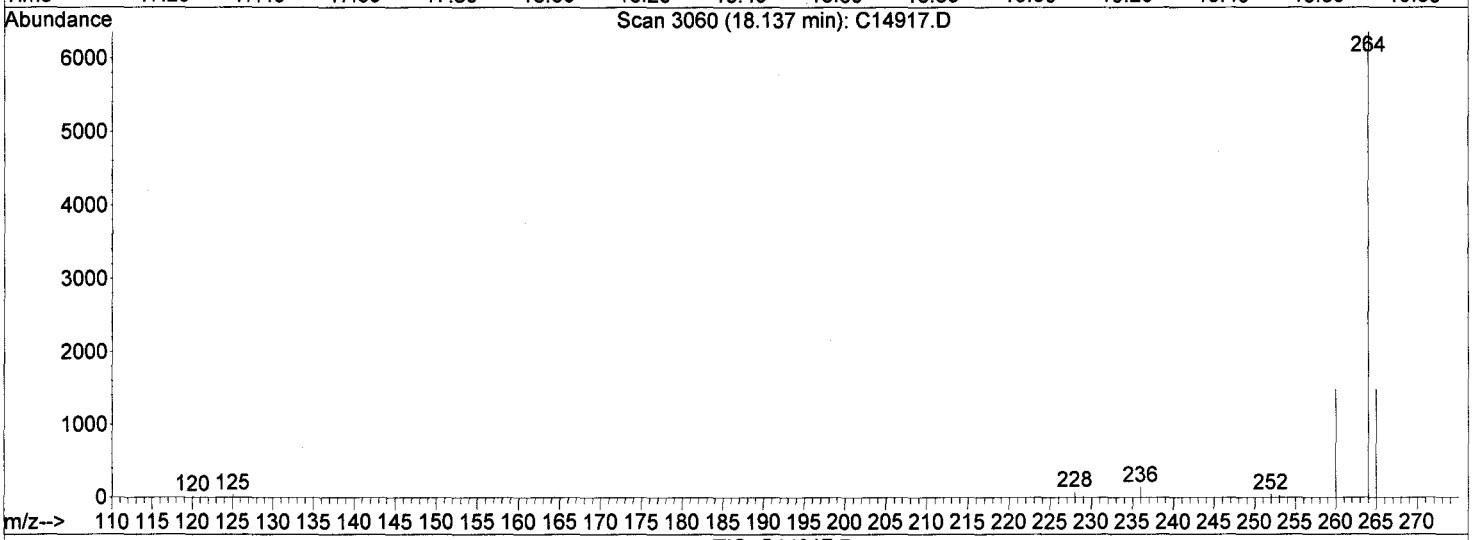
Data File: C:\MSDCHEM\1\DATA\C14917.D
Acq On : 12/15/11 11:39
Sample : SBLK67
Misc : SBLK67 30G/0.5ML INJ VOL: 1UL
ALS Vial : 4 Sample Multiplier: 1

Operator: SK
Inst : C5975

12/29/11

Quant Time: Dec 19 09:38:30 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:36:03 2011
Response via : Initial Calibration





TIC: C14917.D

(19) Perylene-d12

18.137min (-0.003) 0.4000ug/mL m

response 112434

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1146.52#
265.00	21.10	1301.67#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 60.30 (g/mL) G Lab File ID: C14938

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	3.1	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	11	
86-73-7	Fluorene	2.7	U
87-86-5	Pentachlorophenol	14	
85-01-8	Phenanthrene	7.1	
120-12-7	Anthracene	8.3	
206-44-0	Fluoranthene	15	
129-00-0	Pyrene	25	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	16	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	5.3	
50-32-8	Benzo(a)pyrene	16	
193-39-5	Indeno(1,2,3-cd)pyrene	12	
53-70-3	Dibenzo(a,h)anthracene	4.7	
191-24-2	Benzo(g,h,i)perylene	15	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14938.D
Acq On : 12/19/11 15:23 Operator: SK
Sample : F4XP2MS Inst : C5975
Misc : S-4460.03MS 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 10:26:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11

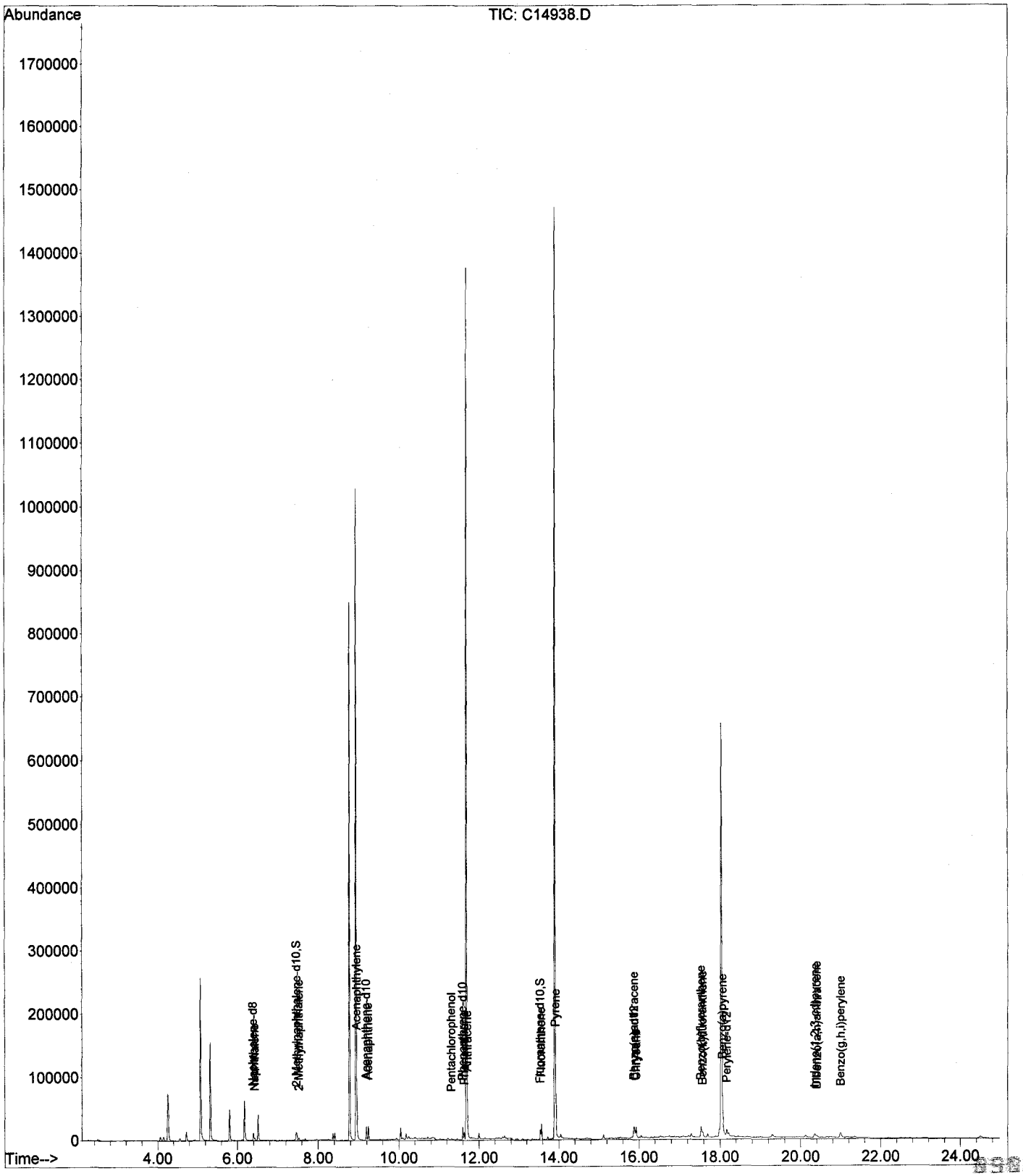
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	135011	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	105059	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	201259	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	122399	0.4000	ug/mL	0.01
19) Perylene-d12	18.17	264	135836m	0.4000	ug/mL	0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	78315	0.3755	ug/mL	0.00
Spiked Amount 0.400			Recovery =	93.88%		
13) Fluoranthene-d10	13.54	212	163678	0.3692	ug/mL	0.01
Spiked Amount 0.400			Recovery =	92.30%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	39976	0.1145	ug/mL#	94
4) 2-Methylnaphthalene	7.53	142	24307	0.1144	ug/mL	93
6) Acenaphthylene	8.96	152	180924	0.4216	ug/mL	94
7) Acenaphthene	9.25	154	102842	0.4091	ug/mL	95
10) Pentachlorophenol	11.32	266	9379	0.5178	ug/mL#	84
11) Phenanthrene	11.64	178	119904	0.2618	ug/mL#	96
12) Anthracene	11.72	178	140835	0.3037	ug/mL#	88
14) Fluoranthene	13.57	202	247393	0.5655	ug/mL	99
16) Benzo(a)anthracene	15.88	228	136181	0.3972	ug/mL#	48
17) Chrysene	15.93	228	202738	0.5717	ug/mL#	76
18) Pyrene	13.93	202	478071	0.9162	ug/mL#	75
20) Benzo(b)fluoranthene	17.54	252	217739	0.5869	ug/mL#	81
21) Benzo(k)fluoranthene	17.58	252	84531	0.1936	ug/mL#	88
22) Benzo(a)pyrene	18.07	252	228590m	0.5941	ug/mL	
23) Dibenzo(a,h)anthracene	20.41	278	39957	0.1728	ug/mL#	83
24) Indeno(1,2,3-cd)pyrene	20.36	276	139273	0.4538	ug/mL#	97
25) Benzo(g,h,i)perylene	21.00	276	189802	0.5513	ug/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14938.D
Acq On : 12/19/11 15:23 Operator: SK
Sample : F4XP2MS Inst : C5975
Misc : S-4460.03MS 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 10:26:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration



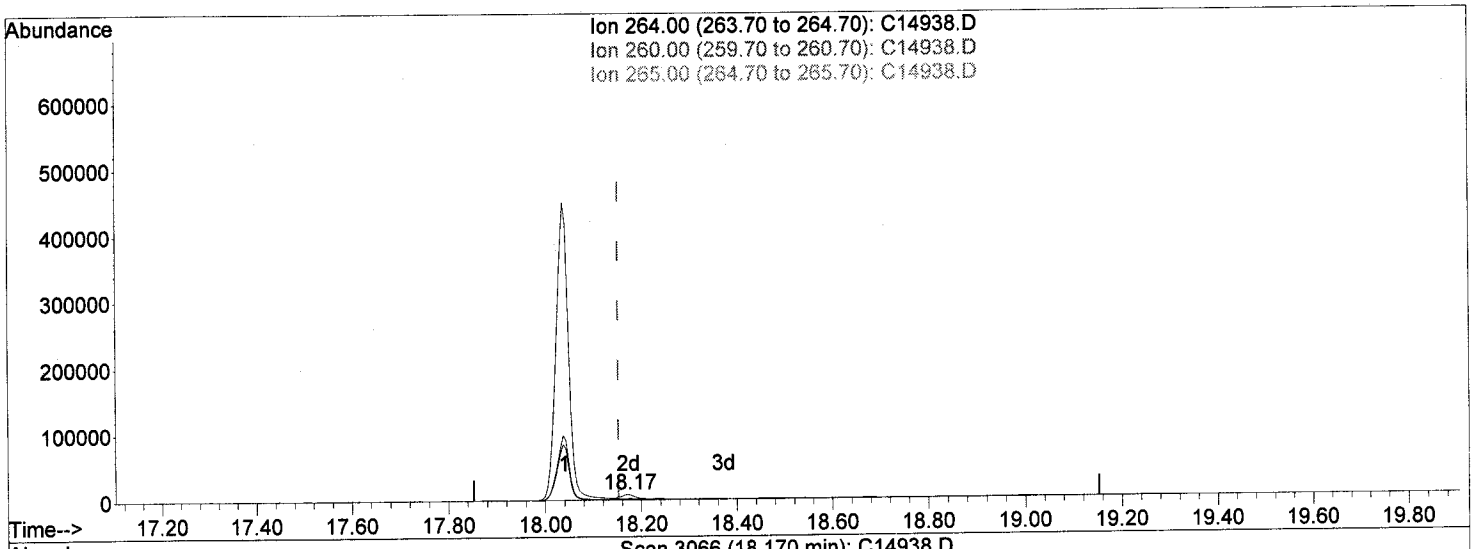
Quantitation Report (Qedit)

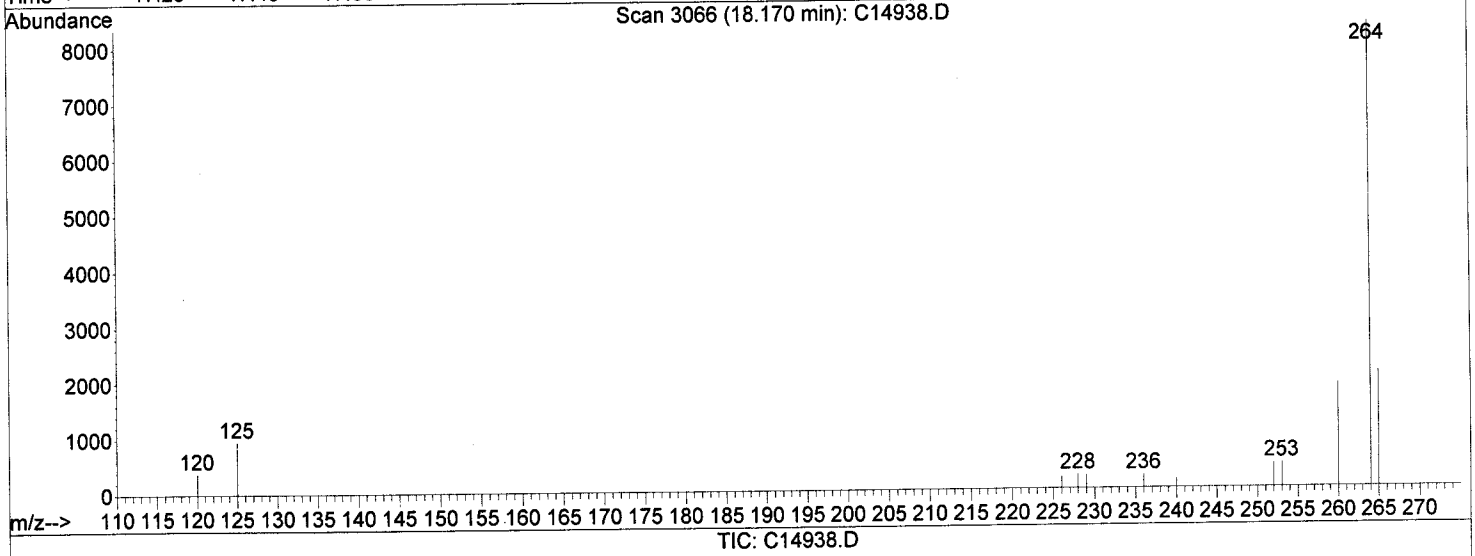
Data File: C:\MSDCHEM\1\DATA\C14938.D
Acq On : 12/19/11 15:23
Sample : F4XP2MS
Misc : S-4460.03MS 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Operator: SK
Inst : C5975

Quant Time: Dec 20 10:26:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14938.D

(19) Perylene-d12

18.170min (+0.017) 0.4000ug/mL m

response 135836

Ion	Exp%	Act%
264.00	100	100
260.00	21.90	1093.86#
265.00	21.10	1262.57#
0.00	0.00	0.00

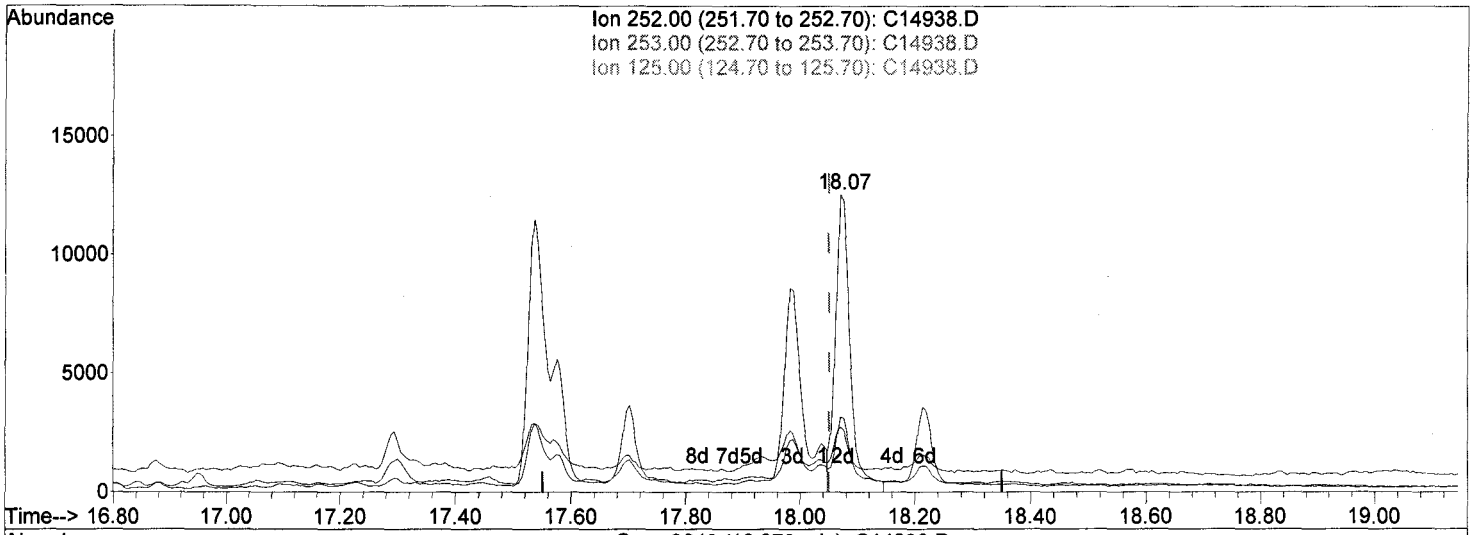
0581

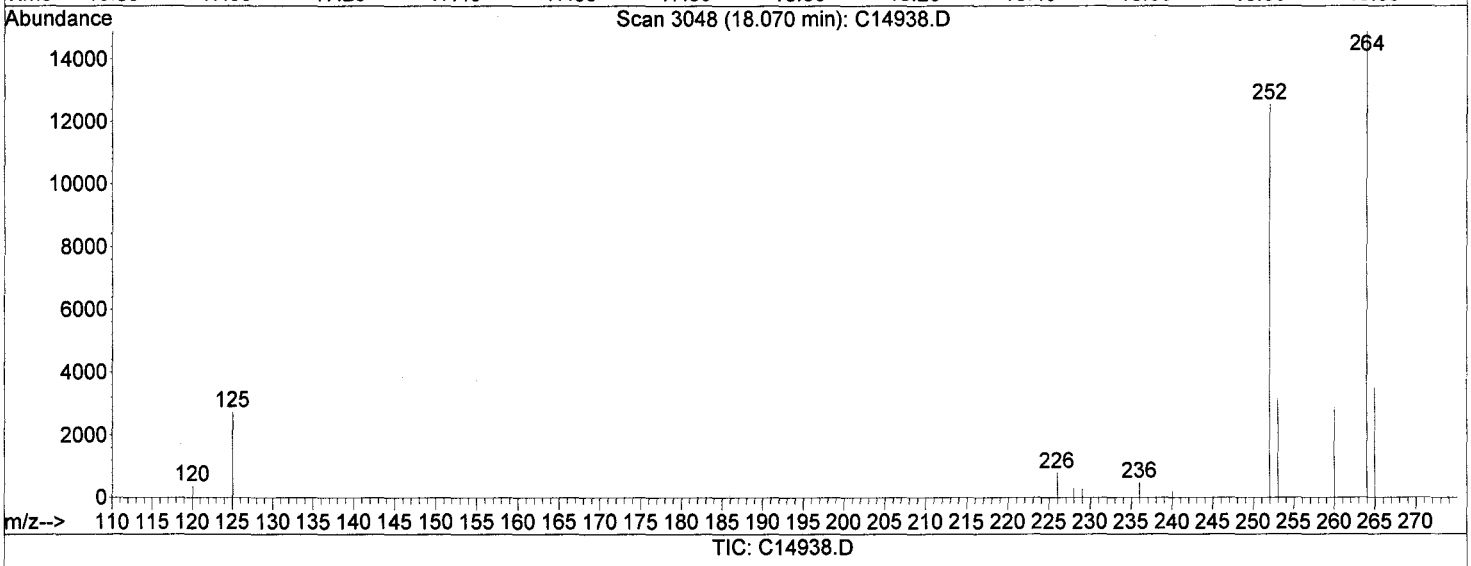
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14938.D
Acq On : 12/19/11 15:23 Operator: SK
Sample : F4XP2MS Inst : C5975
Misc : S-4460.03MS 60.3G/0.5ML INJ VOL: 1UL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 10:26:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14938.D

(22) Benzo(a)pyrene

18.070min (+0.020) 0.5941ug/mL m

response 228590

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	9.04#
125.00	16.40	3.25#
0.00	0.00	0.00

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 60.10 (g/mL) G Lab File ID: C14939

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 12/13/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 12/19/2011

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.1	
91-57-6	2-Methylnaphthalene	3.1	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	11	
86-73-7	Fluorene	2.7	U
87-86-5	Pentachlorophenol	14	
85-01-8	Phenanthrene	7.2	
120-12-7	Anthracene	8.6	
206-44-0	Fluoranthene	15	
129-00-0	Pyrene	25	
56-55-3	Benzo(a)anthracene	11	
218-01-9	Chrysene	16	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	6.0	
50-32-8	Benzo(a)pyrene	15	
193-39-5	Indeno(1,2,3-cd)pyrene	13	
53-70-3	Dibenzo(a,h)anthracene	4.7	
191-24-2	Benzo(g,h,i)perylene	15	

[1] Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14939.D
Acq On : 12/19/11 15:54 Operator: SK
Sample : F4XP2MSD Inst : C5975
Misc : S-4460.03MSD 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 10:27:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

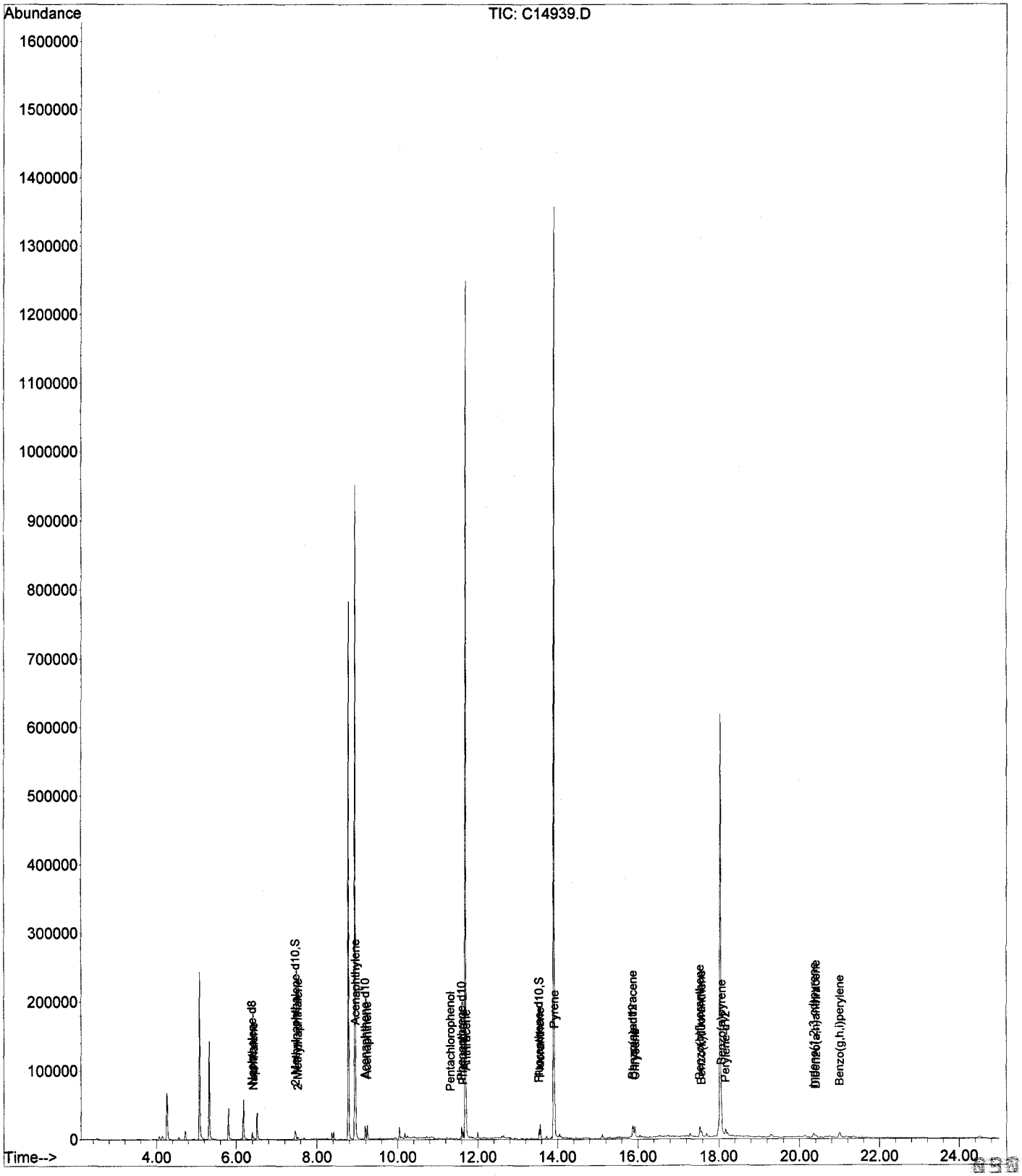
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.40	136	126145	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.20	164	97692	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.60	188	179805	0.4000	ug/mL	0.00
15) Chrysene-d12	15.89	240	112230	0.4000	ug/mL	0.01
19) Perylene-d12	18.17	264	127835m	0.4000	ug/mL	0.02
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.48	152	72582	0.3725	ug/mL	0.00
Spiked Amount 0.400			Recovery =	93.12%		
13) Fluoranthene-d10	13.54	212	147461	0.3724	ug/mL	0.01
Spiked Amount 0.400			Recovery =	93.10%		
Target Compounds						Qvalue
2) Naphthalene	6.43	128	36990	0.1133	ug/mL#	90
4) 2-Methylnaphthalene	7.53	142	22595	0.1138	ug/mL	96
6) Acenaphthylene	8.96	152	177282	0.4443	ug/mL	94
7) Acenaphthene	9.25	154	93754	0.4011	ug/mL	97
10) Pentachlorophenol	11.32	266	8198	0.5066	ug/mL#	86
11) Phenanthrene	11.64	178	107388	0.2624	ug/mL	97
12) Anthracene	11.72	178	130201	0.3143	ug/mL#	89
14) Fluoranthene	13.57	202	221864	0.5677	ug/mL	100
16) Benzo(a)anthracene	15.88	228	126831	0.4034	ug/mL#	38
17) Chrysene	15.93	228	186729	0.5742	ug/mL#	77
18) Pyrene	13.93	202	437318	0.9141	ug/mL#	90
20) Benzo(b)fluoranthene	17.54	252	204992	0.5871	ug/mL#	95
21) Benzo(k)fluoranthene	17.58	252	91021m	0.2215	ug/mL	
22) Benzo(a)pyrene	18.08	252	201247	0.5558	ug/mL	95
23) Dibenzo(a,h)anthracene	20.41	278	37574	0.1726	ug/mL#	73
24) Indeno(1,2,3-cd)pyrene	20.36	276	133559	0.4624	ug/mL#	91
25) Benzo(g,h,i)perylene	21.00	276	183595	0.5667	ug/mL#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14939.D
Acq On : 12/19/11 15:54 Operator: SK
Sample : F4XP2MSD Inst : C5975
Misc : S-4460.03MSD 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 10:27:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

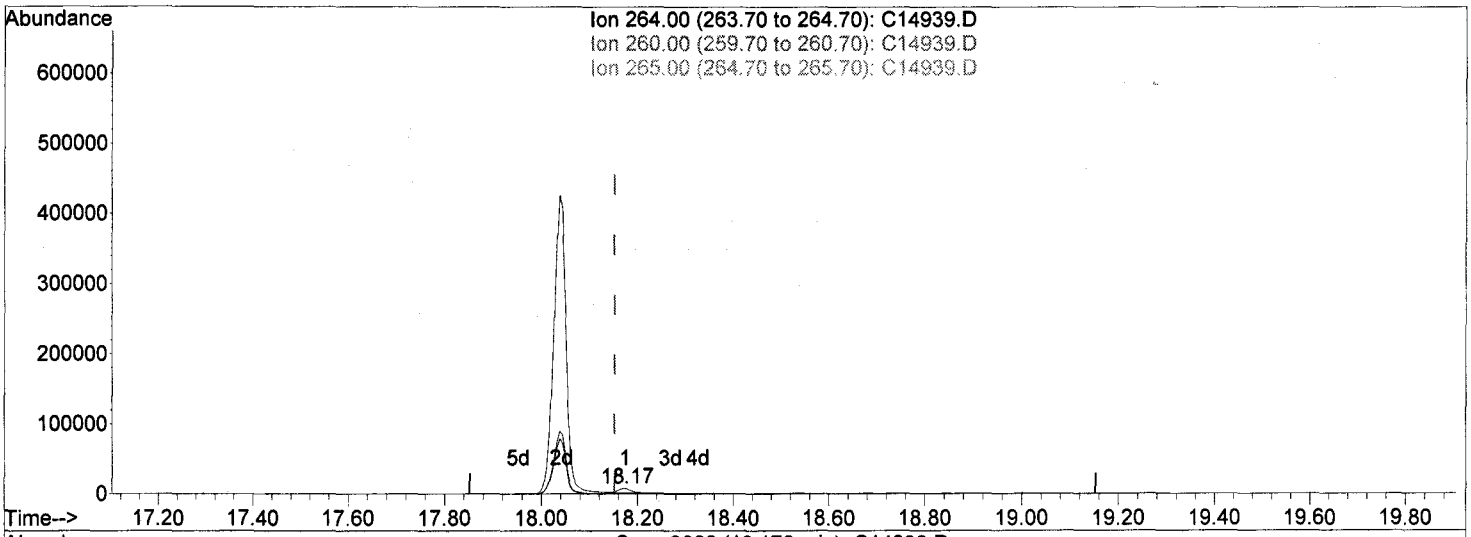


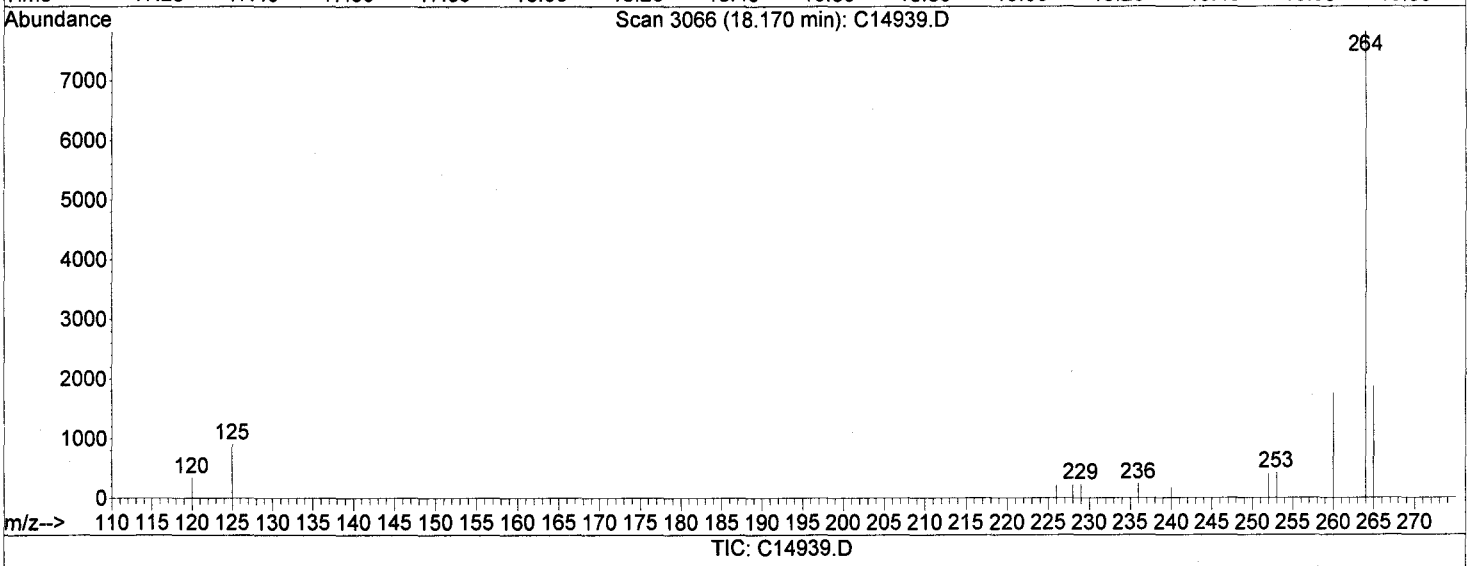
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14939.D
Acq On : 12/19/11 15:54 Operator: SK
Sample : F4XP2MSD Inst : C5975
Misc : S-4460.03MSD 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 10:27:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14939.D

(19) Perylene-d12

18.170min (+0.017) 0.4000ug/mL m

response 127835

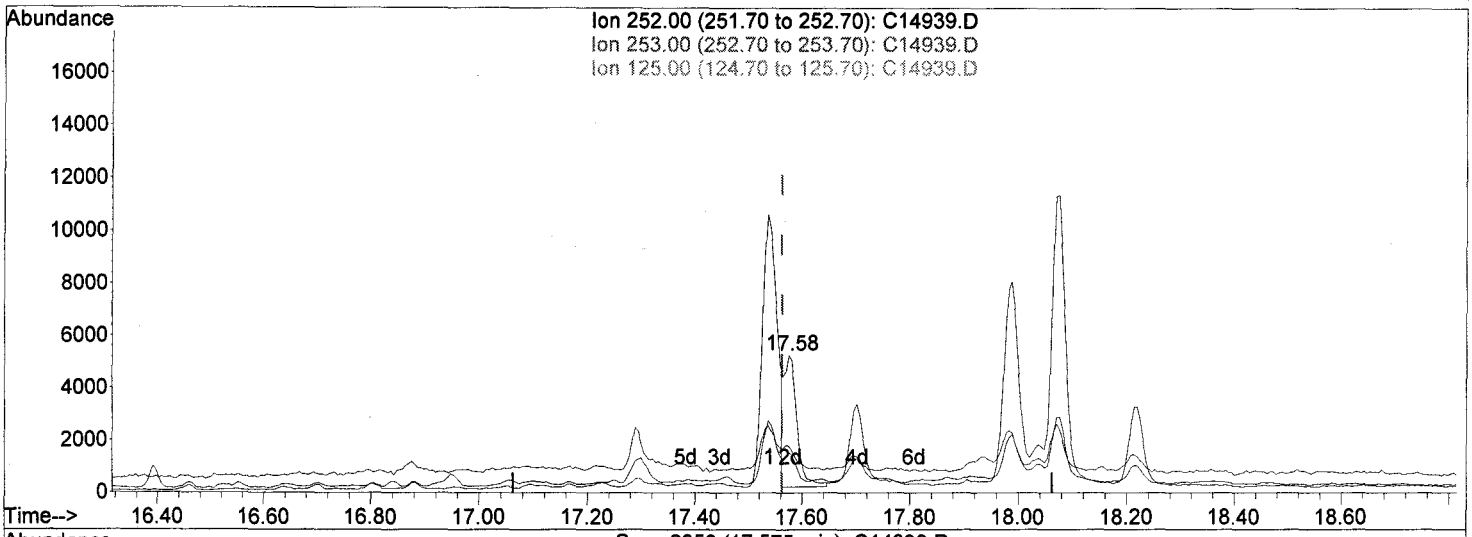
Ion	Exp%	Act%
264.00	100	100
260.00	21.90	34.00#
265.00	21.10	33.54#
0.00	0.00	0.00

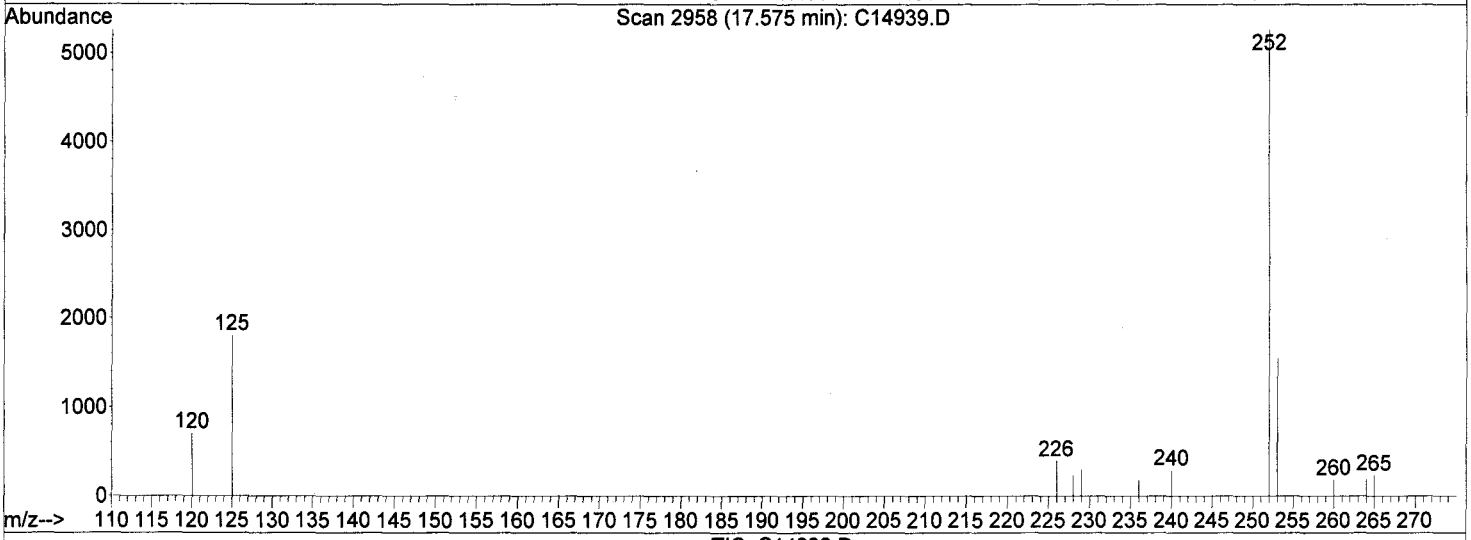
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\C14939.D
Acq On : 12/19/11 15:54 Operator: SK
Sample : F4XP2MSD Inst : C5975
Misc : S-4460.03MSD 60.1G/0.5ML INJ VOL: 1UL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 10:27:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Tue Dec 20 10:18:43 2011
Response via : Initial Calibration

12/20/11





TIC: C14939.D

(21) Benzo(k)fluoranthene

17.575min (+0.012) 0.2215ug/mL m

response 91021

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	49.80#
125.00	15.50	41.17#
0.00	0.00	0.00

O·I·CORPORATION

	Name	Date
Approval 1:	RAO ALSAKANI	12/15/11
Approval 2:		

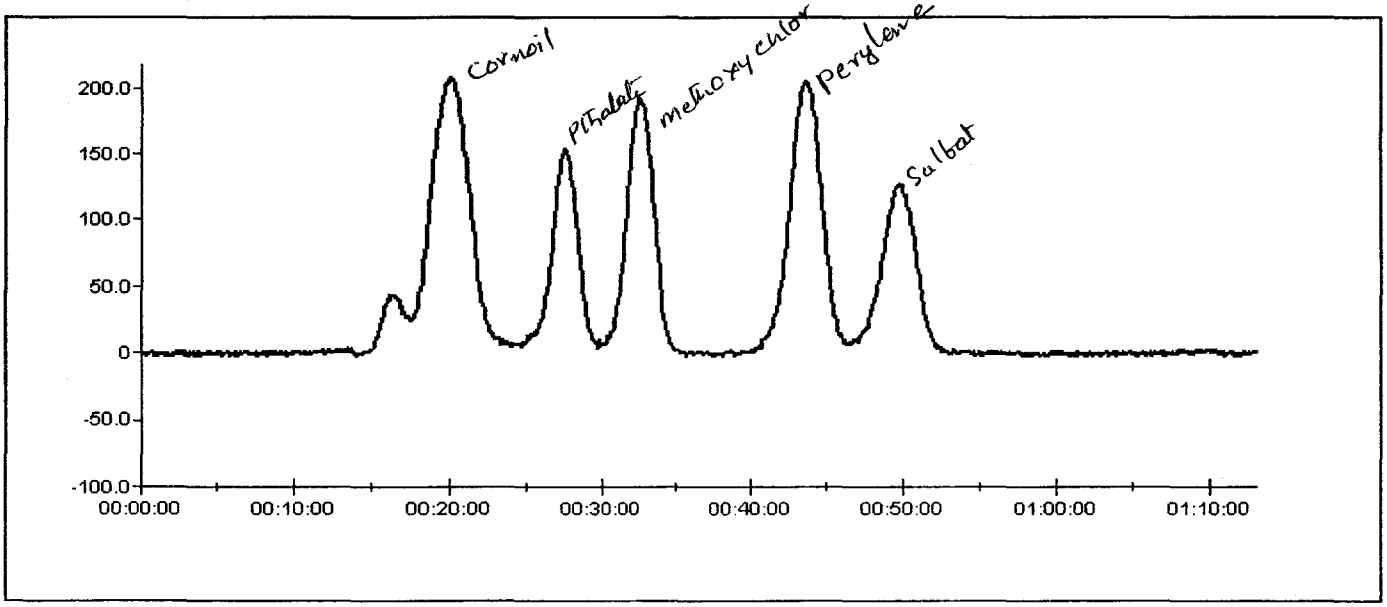
KAP Technologies
The Woodlands,TX 77380
Phone: (281) 367 0065
Fax: (281) 367 6772
WWW: http://oico.com

Sequence:	CCV-12092011	**Date of Sample:**	12/9/2011 9:22:24AM
Operator:	RAO ALSAKANI	**Sample Results:**	Completed run
Sample ID:	3640A Standard	**Sample Type:**	Calibration

Configuration Details:

Syringe Size (mL):	10.00	**Sample Tray:**	60 16 * 100 mm tubes
Loop Size (mL):	5.00	**Collect Tray:**	TurboVap 200 mL tubes
Flow Rate (mL/min):	5.00	**Column Type:**	Methylene chloride - glass
Bypass Valve:	Yes	**Solvent Type:**	Methylene chloride
Using UV Detector:	Yes	**Detector Type:**	OI UV-1000 254 nm
Plotting UV Data:	Yes		

Chromatograph:



Surr	0.22 min	23.47 min	10 min
Pest	0.28 min	29.47 min	10 min

O·I·CORPORATION

KAP Technologies
The Woodlands,TX 77380
Phone: (281) 367 0065
Fax: (281) 367 6772
WWW: http://oico.com

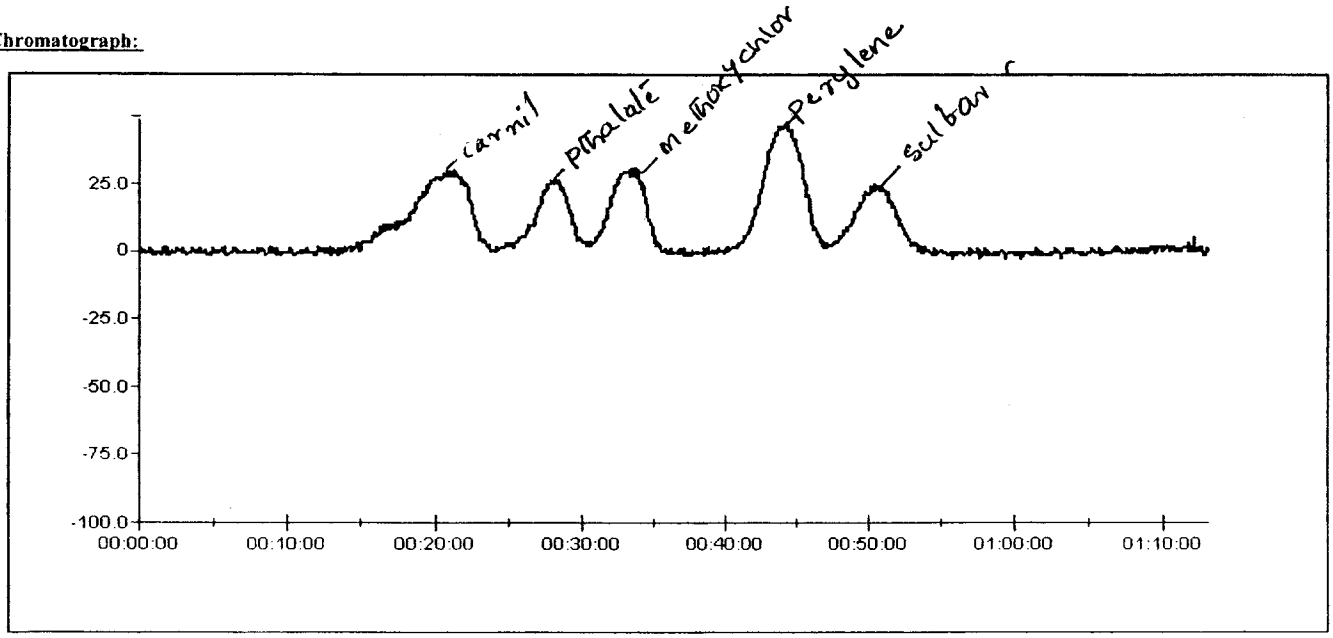
	Name	Date
Approval 1:	M.A. Billor	11/2/11
Approval 2:		

Sequence:	CCV-10182011	**Date of Sample:**	10/18/2011 10:04:43AM
Operator:	RAO ALSAKANI	**Sample Results:**	Completed run
Sample ID:	3640A Standard	**Sample Type:**	Calibration

Configuration Details:

Syringe Size (mL):	10.00	**Sample Tray:**	60 16 * 100 mm tubes
Loop Size (mL):	5.00	**Collect Tray:**	TurboVap 200 mL tubes
Flow Rate (mL/min):	5.00	**Column Type:**	Methylene chloride - glass
Bypass Valve:	Yes	**Solvent Type:**	Methylene chloride
Using UV Detector:	Yes	**Detector Type:**	OI UV-1000 254 nm
Plotting UV Data:	Yes		

Chromatograph:



SVOA 0.22 min 23.47 min 10 min
Pest 0.28 min 29.47 min 10 min

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14916.D
Acq On : 12/15/11 11:08 Operator: SK
Sample : GPCBLK67 Inst : C5975
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 09:37:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:35:57 2011
Response via : Initial Calibration

12/19/11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.39	136	182197	0.4000	ug/mL	0.00
5) Acenaphthene-d10	9.18	164	112728	0.4000	ug/mL	0.00
9) Phenanthrene-d10	11.58	188	193785	0.4000	ug/mL	0.00
15) Chrysene-d12	15.87	240	101201	0.4000	ug/mL	0.00
19) Perylene-d12	18.14	264	107242	0.4000	ug/mL	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.44	152	189	0.0007	ug/mL	-0.02
Spiked Amount 0.400			Recovery =	0.17%		
13) Fluoranthene-d10	13.52	212	3646	0.0085	ug/mL	0.00
Spiked Amount 0.400			Recovery =	2.13%		

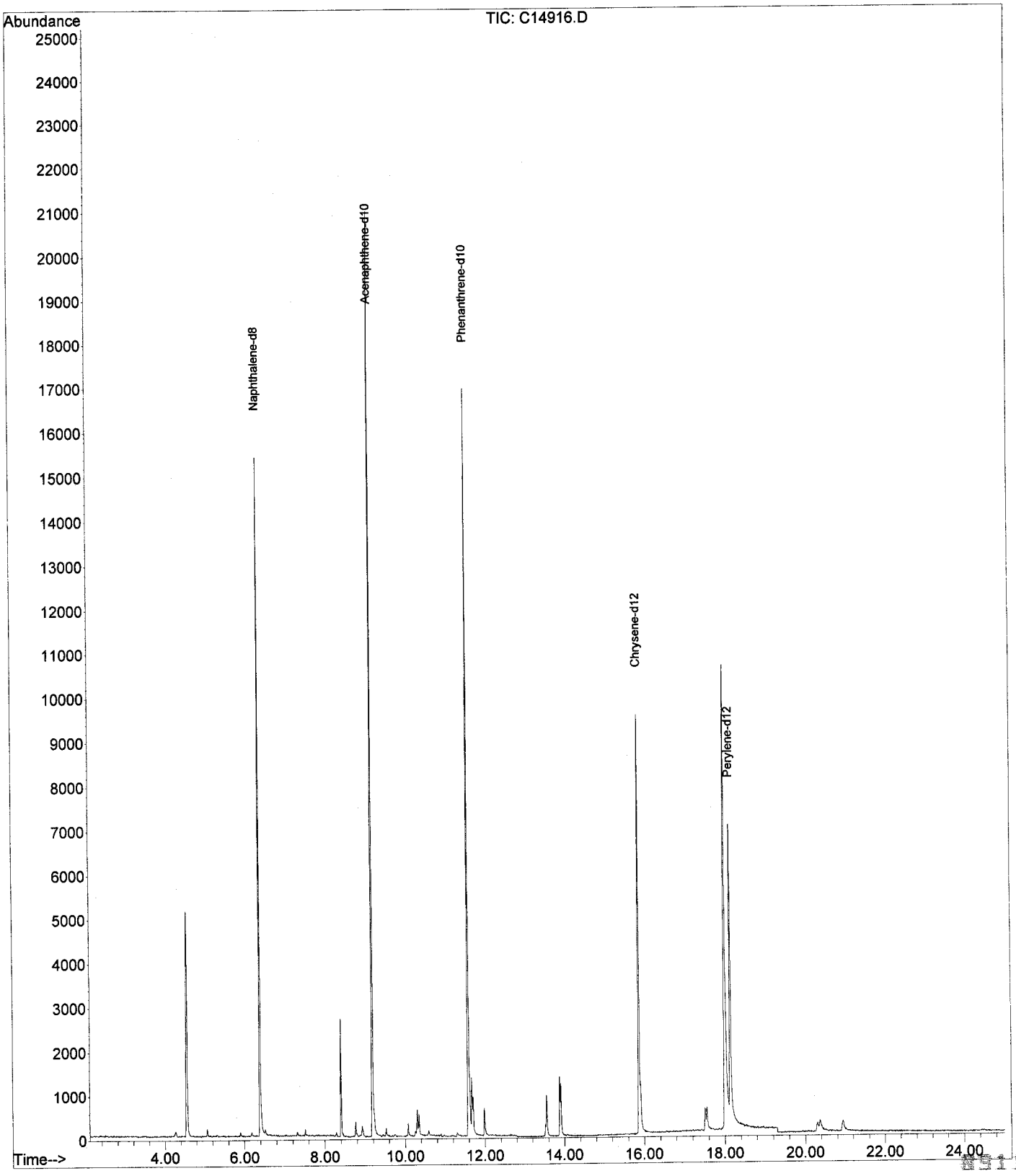
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\C14916.D
Acq On : 12/15/11 11:08 Operator: SK
Sample : GPCBLK67 Inst : C5975
Misc : GPCBLK67 10ML/1ML INJ VOL: 1UL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 09:37:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\CLPCPAH14875.M
Quant Title : PAH ANALYSIS BY SIM METHOD
QLast Update : Mon Dec 19 09:35:57 2011
Response via : Initial Calibration



2P - Form II PEST-2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK57	104	104	117	113			0
02	PLCS57	92	93	103	103			0
03	F4XP0	68	60	62	63			0
04	F4XP1	74	68	74	71			0
05	F4XP2	68	61	70	65			0
06	F4XP3	71	62	69	63			0
07	F4XP4	62	68	72	68			0
08	F4XP5	68	69	67	68			0
09	F4XP6	66	71	73	69			0
10	F4XQ5	65	69	70	71			0
11	F4XP7	63	79	81	78			0
12	F4XP8	71	75	87	81			0
13	F4XP9	69	70	81	73			0
14	F4XQ6	71	63	75	70			0
15	F4XQ0	84	87	86	88			0
16	F4XQ1	93	97	102	96			0
17	F4XQ2	73	76	77	79			0
18	F4XQ3	69	73	75	76			0
19	F4XQ4	71	66	72	67			0
20	F4XQ7	74	72	77	73			0
21	F4XQ8	84	76	83	77			0
22	F4XQ9	85	79	82	76			0
23	F4XP2MS	78	68	78	70			0
24	F4XP2MSD	78	71	78	73			0
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3H - FORM III PEST-2
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix Spike - EPA Sample No.: F4XP2

Instrument ID: H-7890A GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	27.2	0	18.8	69	46-127
Heptachlor	27.2	0	19.9	73	35-130
Aldrin	27.2	0	19.8	73	34-132
Dieldrin	54.5	0	39.9	73	31-134
Endrin	54.5	0	38.8	71	42-139
4,4'-DDT	54.5	0	39.2	72	23-134

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	27.2	19.2	71	3	50	46-127
Heptachlor	27.2	20.1	74	1	31	35-130
Aldrin	27.2	19.8	73	0	43	34-132
Dieldrin	54.5	40.4	74	1	38	31-134
Endrin	54.5	39.2	72	1	45	42-139
4,4'-DDT	54.5	39.7	73	1	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

_____

3H - FORM III PEST-2
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix Spike - EPA Sample No.: F4XP2

Instrument ID: H-7890B GC Column: RTX-CLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	27.2	0	17.9	66	46-127
Heptachlor	27.2	0	19.3	71	35-130
Aldrin	27.2	0	17.2	63	34-132
Dieldrin	54.5	0	36.4	67	31-134
Endrin	54.5	0	42.7	78	42-139
4,4'-DDT	54.5	0	44.9	82	23-134

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	27.2	18.9	69	4	50	46-127
Heptachlor	27.2	20.2	74	4	31	35-130
Aldrin	27.2	17.7	65	3	43	34-132
Dieldrin	54.5	37.5	69	3	38	31-134
Endrin	54.5	44.3	81	4	45	42-139
4,4'-DDT	54.5	46.5	85	4	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

_____

3M - FORM III PEST-4
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
PLCS57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: PLCS57 LCS Lot No.: A031346

Date Extracted 12/15/2011 Date Analyzed (1): 12/28/2011

Instrument ID (1): H-7890A GC Column (1): RTX-CLP2 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% REC #	QC LIMITS
gamma-BHC (Lindane)	1.67	1.52	91	50-120
Heptachlor epoxide	1.67	1.55	93	50-150
Dieldrin	3.33	3.04	91	30-130
4,4'-DDE	3.33	3.08	92	50-150
Endrin	3.33	3.09	93	50-120
Endosulfan sulfate	3.33	3.33	100	50-120
gamma-Chlordane	1.67	1.56	93	30-130

Instrument ID (2): H-7890B GC Column (2): RTX-CLP ID: 0.53 (mm)

Date Analyzed (2): 12/28/2011

COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% REC #	QC LIMITS
gamma-BHC (Lindane)	1.67	1.55	93	50-120
Heptachlor epoxide	1.67	1.56	93	50-150
Dieldrin	3.33	3.29	99	30-130
4,4'-DDE	3.33	3.20	96	50-150
Endrin	3.33	3.55	107	50-120
Endosulfan sulfate	3.33	3.46	104	50-120
gamma-Chlordane	1.67	1.68	101	30-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS: _____

_____

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
PBLK57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: PBLK57 Lab File ID: H5257

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 12/15/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 12/28/2011 Date Analyzed (2): 12/28/2011

Time Analyzed (1): 0123 Time Analyzed (2): 0147

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2): RTX-CLP ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCS57	PLCS57	12/28/2011	12/28/2011
02	F4XP0	S-4460.01	12/28/2011	12/28/2011
03	F4XP1	S-4460.02	12/28/2011	12/28/2011
04	F4XP2	S-4460.03	12/28/2011	12/28/2011
05	F4XP3	S-4460.04	12/28/2011	12/28/2011
06	F4XP4	S-4460.05	12/28/2011	12/28/2011
07	F4XP5	S-4460.06	12/28/2011	12/28/2011
08	F4XP6	S-4460.07	12/28/2011	12/28/2011
09	F4XQ5	S-4460.08	12/28/2011	12/28/2011
10	F4XP7	S-4465.01	12/28/2011	12/28/2011
11	F4XP8	S-4465.02	12/28/2011	12/28/2011
12	F4XP9	S-4465.03	12/28/2011	12/28/2011
13	F4XQ6	S-4465.04	12/28/2011	12/28/2011
14	F4XQ0	S-4476.01	12/28/2011	12/28/2011
15	F4XQ1	S-4476.02	12/28/2011	12/28/2011
16	F4XQ2	S-4476.03	12/28/2011	12/28/2011
17	F4XQ3	S-4476.04	12/28/2011	12/28/2011
18	F4XQ4	S-4476.05	12/28/2011	12/28/2011
19	F4XQ7	S-4476.06	12/28/2011	12/28/2011
20	F4XQ8	S-4476.07	12/28/2011	12/28/2011
21	F4XQ9	S-4476.08	12/28/2011	12/28/2011
22	F4XP2MS	S-4460.03MS	12/28/2011	12/28/2011
23	F4XP2MSD	S-4460.03MSD	12/28/2011	12/28/2011
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.01

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5269

% Moisture: 34 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.0	U
72-55-9	4,4'-DDE	5.0	U
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	5.0	U
1031-07-8	Endosulfan sulfate	5.0	U
50-29-3	4,4'-DDT	5.0	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	2.1	J
7421-93-4	Endrin aldehyde	5.0	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5269.D(Signal #1)            H5269.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
InstName  : H-7890A(Signal #1)             H-7890B(Signal # 2)
Acq On    : 12/28/11 06:36 (#1); 12/28/11 07:00 (#2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : F4XP0 (Sig #1); F4XP0 (Sig #2)
Misc      : S-4460.01  30.1G/5.0ML (Sig #1); S-4460.01  30.1G/5.0ML (Sig #2)
ALS Vial  : 30   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:38:57 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title  : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1 uL
Signal #1 Phase : RTX-CLP-2          Signal #2 Phase: RTX-CLP
Signal #1 Info  : 30mLn,  0.53mm I. Signal #2 Info : 30mLn,  0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.096	2637.5E6	2242.6E6	40.859	36.133
	Spiked Amount	60.000	Range 18 - 90	Recovery =		68.10%	60.22%
22)	S Decachlor...	13.753	13.056	2799.4E6	3955.8E6	74.684	75.842
	Spiked Amount	120.000	Range 36 - 180	Recovery =		62.24%	63.20%
	Target Compounds						
21)	Endrin Ke...	12.131f	11.725	330.6E6	323.8E6	5.138	4.086

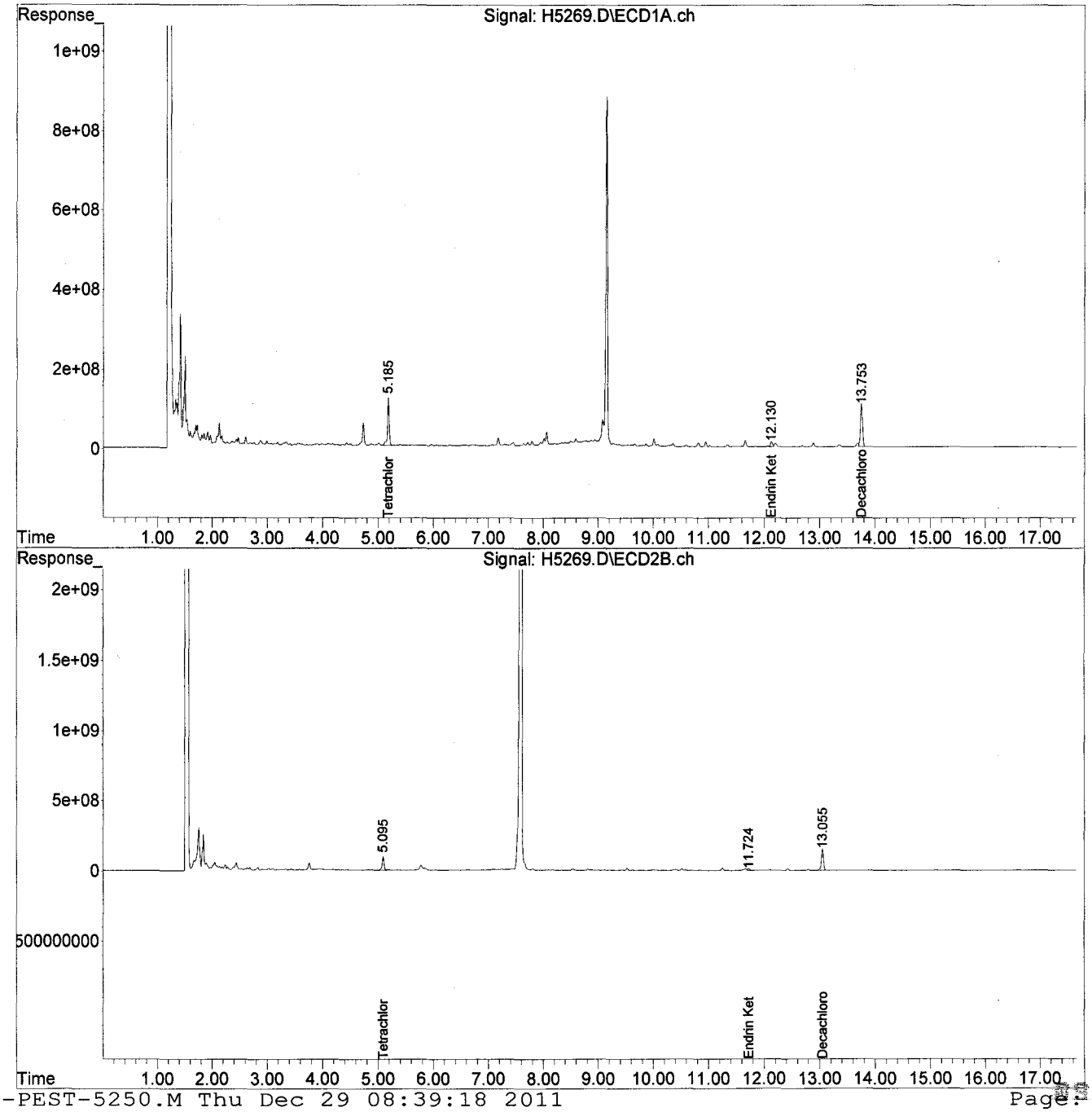
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5269.D(Signal #1) H5269.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 06:36 (#1); 12/28/11 07:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP0 (Sig #1); F4XP0 (Sig #2)
Misc : S-4460.01 30.1G/5.0ML (Sig #1); S-4460.01 30.1G/5.0ML (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:38:57 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.02

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5270

% Moisture: 38 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.3	U
72-55-9	4,4'-DDE	5.3	U
72-20-8	Endrin	5.3	U
33213-65-9	Endosulfan II	5.3	U
72-54-8	4,4'-DDD	5.3	U
1031-07-8	Endosulfan sulfate	5.3	U
50-29-3	4,4'-DDT	5.3	U
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.3	U
7421-93-4	Endrin aldehyde	5.3	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5270.D(Signal #1) H5270.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 07:00 (#1); 12/28/11 07:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP1 (Sig #1); F4XP1 (Sig #2)
Misc : S-4460.02 30.3G/5.0ML (Sig #1); S-4460.02 30.3G/5.0ML (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:40:26 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.188	5.097	2866.6E6	2520.7E6	44.407	40.614
	Spiked Amount	60.000	Range 18 - 90		Recovery =	74.01%	67.69%
22)	S Decachlor...	13.754	13.056	3322.7E6	4470.4E6	88.647	85.708
	Spiked Amount	120.000	Range 36 - 180		Recovery =	73.87%	71.42%
	Target Compounds						

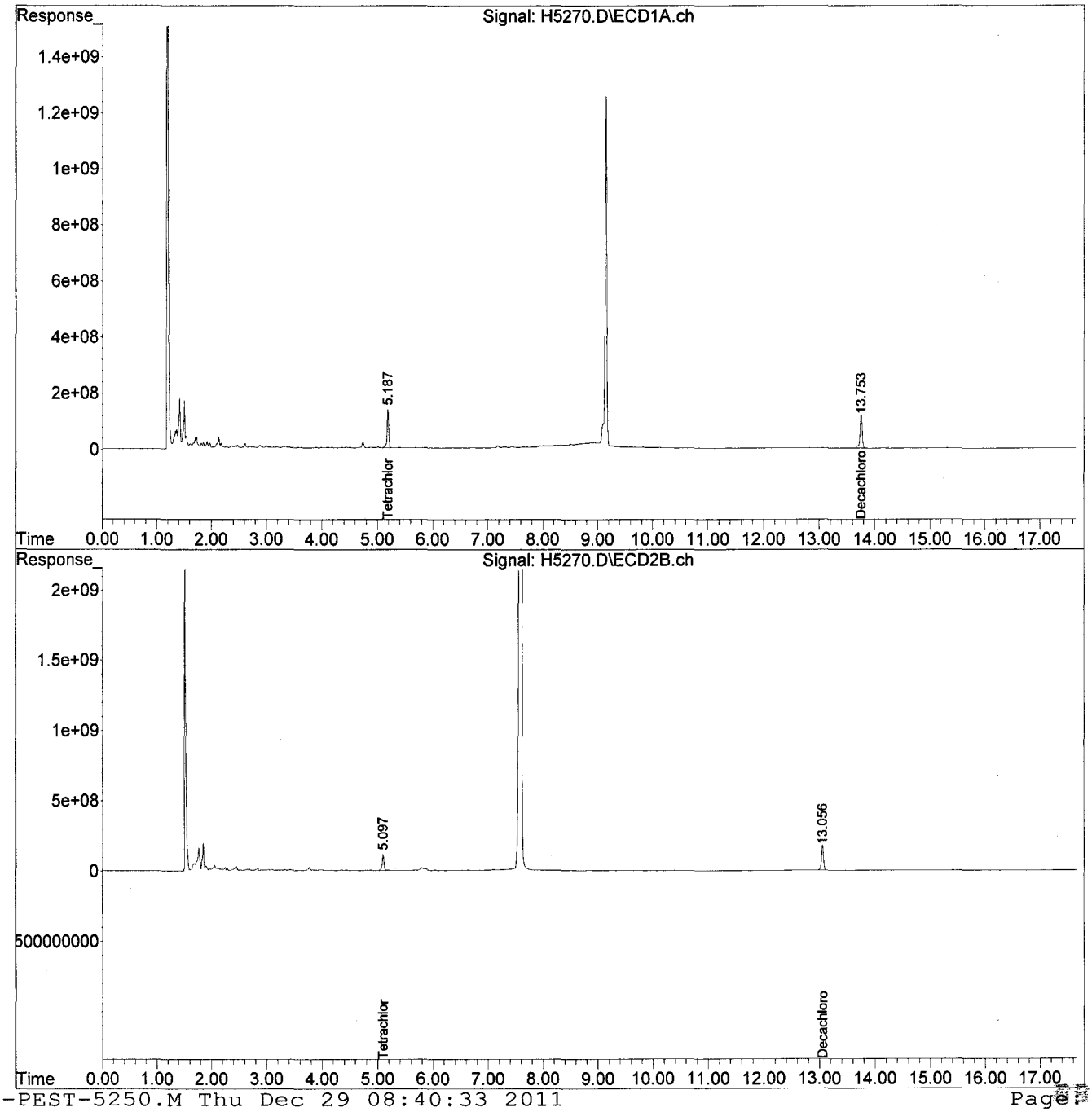
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5270.D(Signal #1) H5270.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 07:00 (#1); 12/28/11 07:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP1 (Sig #1); F4XP1 (Sig #2)
Misc : S-4460.02 30.3G/5.0ML (Sig #1); S-4460.02 30.3G/5.0ML (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:40:26 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03

Sample wt/vol: 29.90 (g/mL) G Lab File ID: H5271

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	5.4	U
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5271.D(Signal #1) H5271.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 07:24 (#1); 12/28/11 07:48 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2 (Sig #1); F4XP2 (Sig #2)
Misc : S-4460.03 29.9G/5.0ML (Sig #1); S-4460.03 29.9G/5.0ML (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:41:31 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.187	5.096	2637.8E6	2280.2E6	40.864	36.739
Spiked Amount	60.000	Range 18 - 90	Recovery =		68.11%	61.23%
22) S Decachlor...	13.754	13.056	3142.4E6	4042.2E6	83.837	77.497
Spiked Amount	120.000	Range 36 - 180	Recovery =		69.86%	64.58%
Target Compounds						

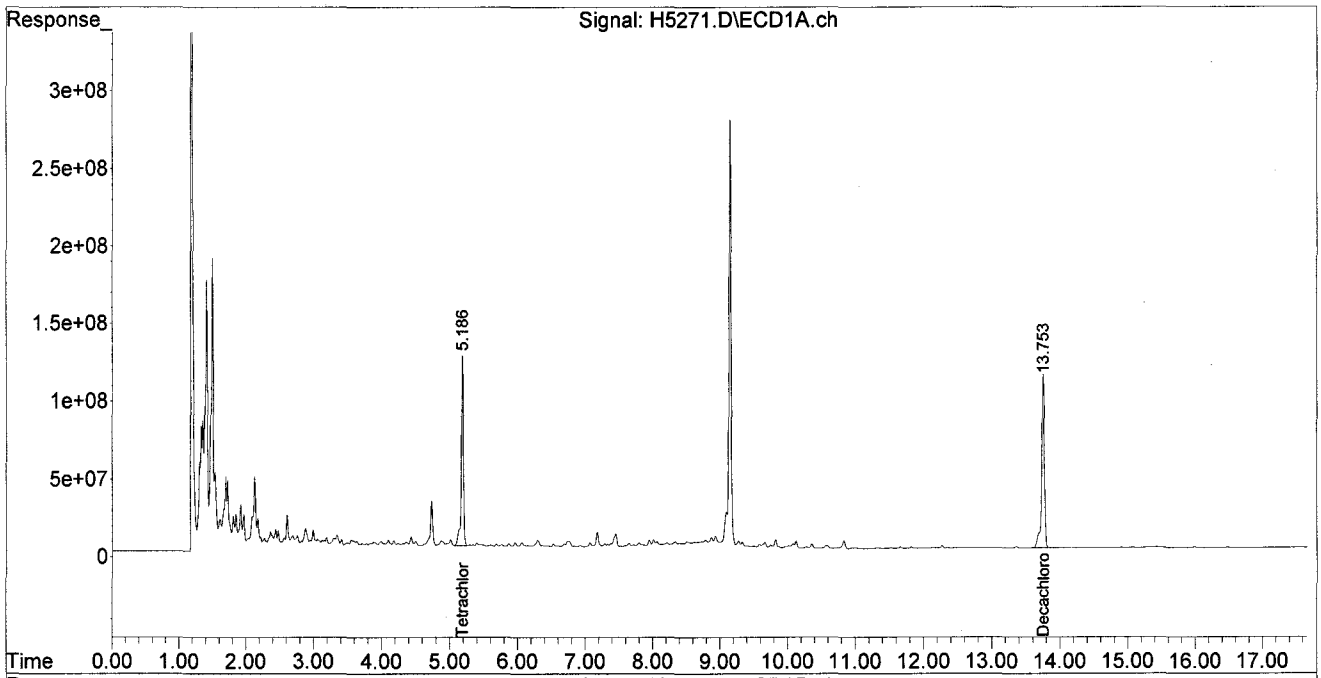
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

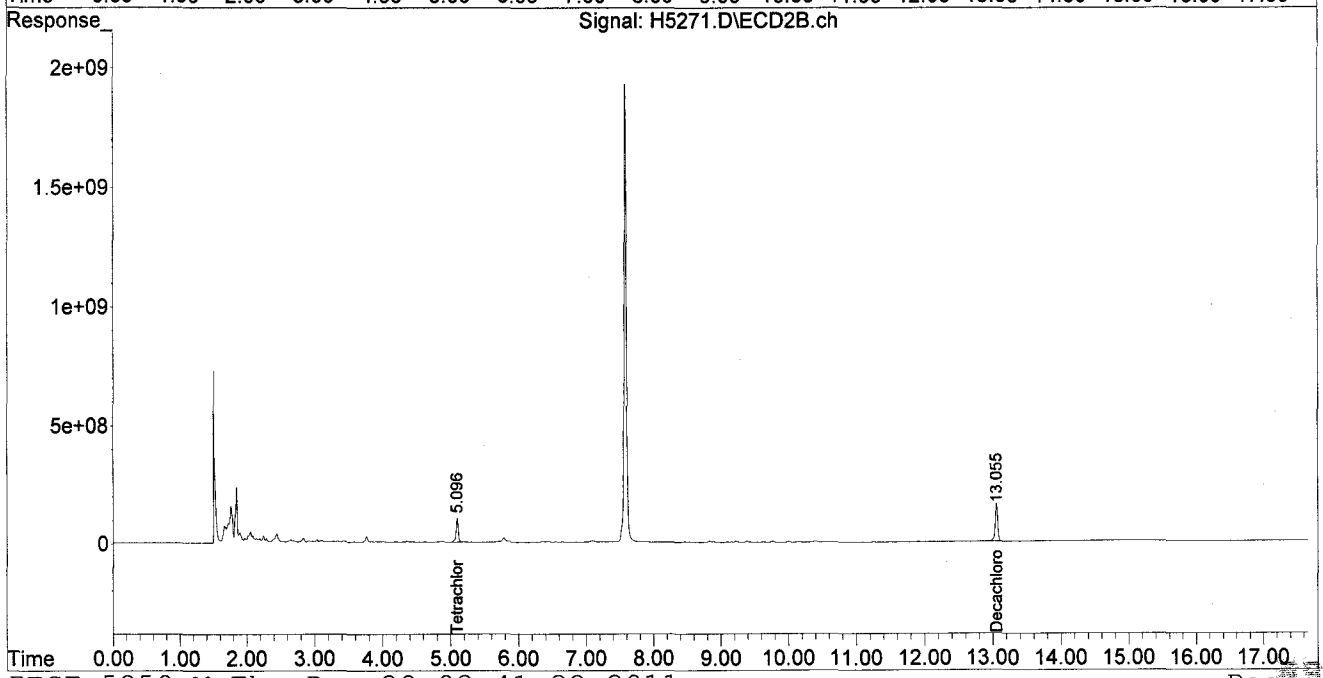
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5271.D(Signal #1) H5271.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 07:24 (#1); 12/28/11 07:48 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2 (Sig #1); F4XP2 (Sig #2)
Misc : S-4460.03 29.9G/5.0ML (Sig #1); S-4460.03 29.9G/5.0ML (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:41:31 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.04

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5272

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.5	U
72-55-9	4,4'-DDE	5.5	U
72-20-8	Endrin	5.5	U
33213-65-9	Endosulfan II	5.5	U
72-54-8	4,4'-DDD	5.5	U
1031-07-8	Endosulfan sulfate	5.5	U
50-29-3	4,4'-DDT	5.5	U
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.5	U
7421-93-4	Endrin aldehyde	5.5	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5272.D(Signal #1) H5272.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 07:48 (#1); 12/28/11 08:13 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP3 (Sig #1); F4XP3 (Sig #2)
Misc : S-4460.04 30.1G/5.0ML (Sig #1); S-4460.04 30.1G/5.0ML (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:42:24 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.187	5.095	2758.2E6	2325.3E6	42.728	37.466
Spiked Amount	60.000	Range 18 - 90		Recovery =	71.21%	62.44%
22) S Decachlor...	13.753	13.055	3123.4E6	3969.6E6	83.330	76.107
Spiked Amount	120.000	Range 36 - 180		Recovery =	69.44%	63.42%
Target Compounds						

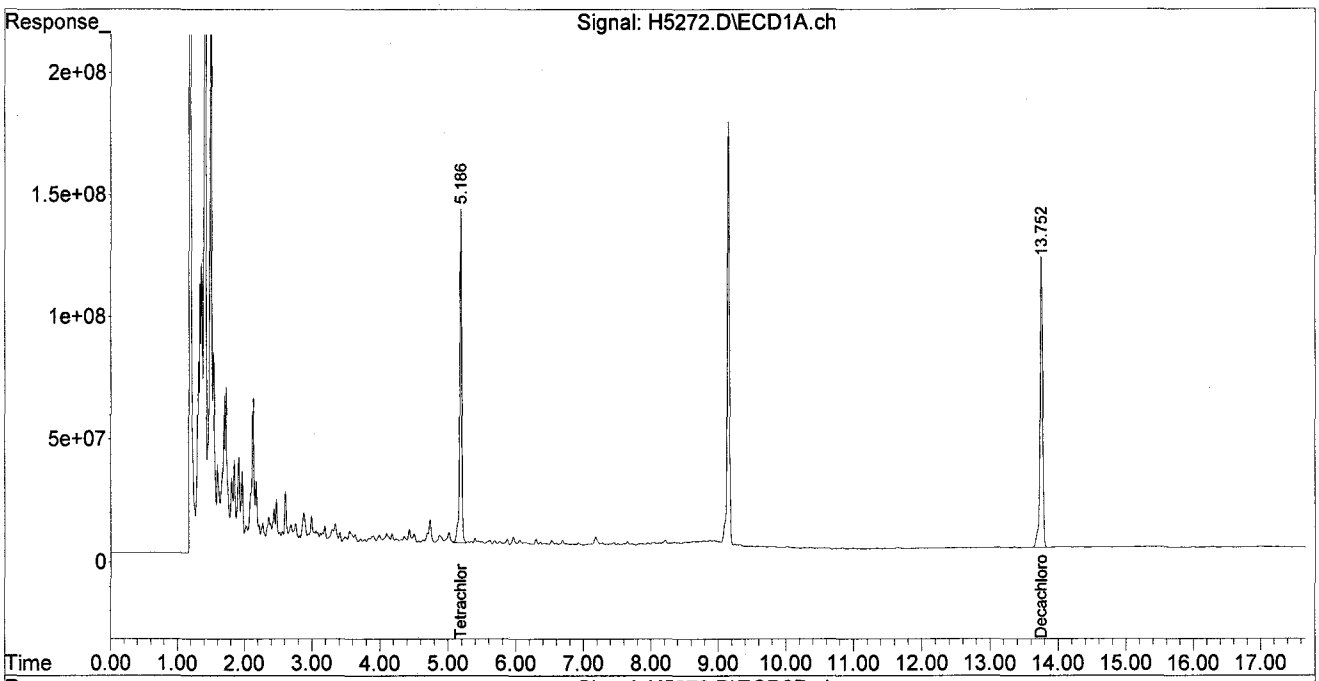
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

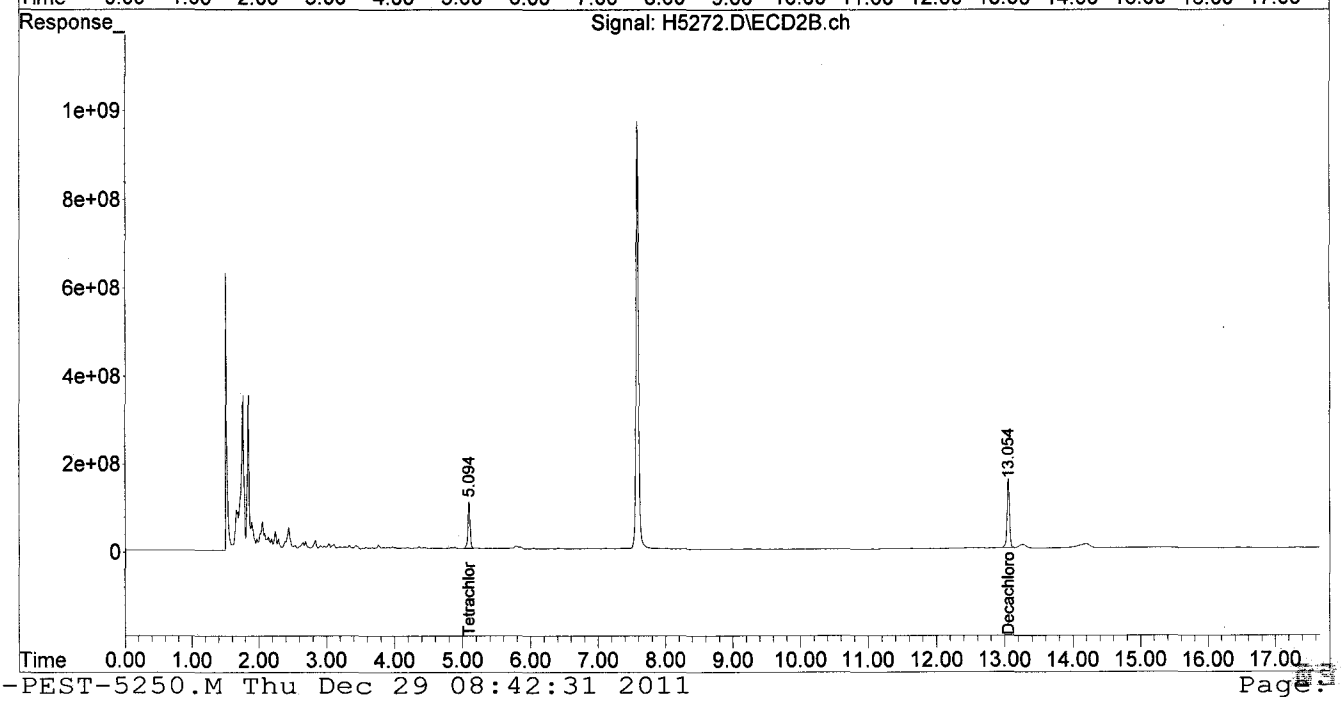
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5272.D(Signal #1) H5272.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 07:48 (#1); 12/28/11 08:13 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP3 (Sig #1); F4XP3 (Sig #2)
Misc : S-4460.04 30.1G/5.0ML (Sig #1); S-4460.04 30.1G/5.0ML (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:42:24 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.05

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5273

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5273.D(Signal #1) H5273.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 08:13 (#1); 12/28/11 08:37 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP4 (Sig #1); F4XP4 (Sig #2)
Misc : S-4460.05 30.3G/5.0ML (Sig #1); S-4460.05 30.3G/5.0ML (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:43:22 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.096	2409.8E6	2546.9E6	37.331	41.036
	Spiked Amount	60.000	Range 18 - 90		Recovery =	62.22%	68.39%
22)	S Decachlor...	13.753	13.056	3256.1E6	4225.2E6	86.869	81.007
	Spiked Amount	120.000	Range 36 - 180		Recovery =	72.39%	67.51%
	Target Compounds						

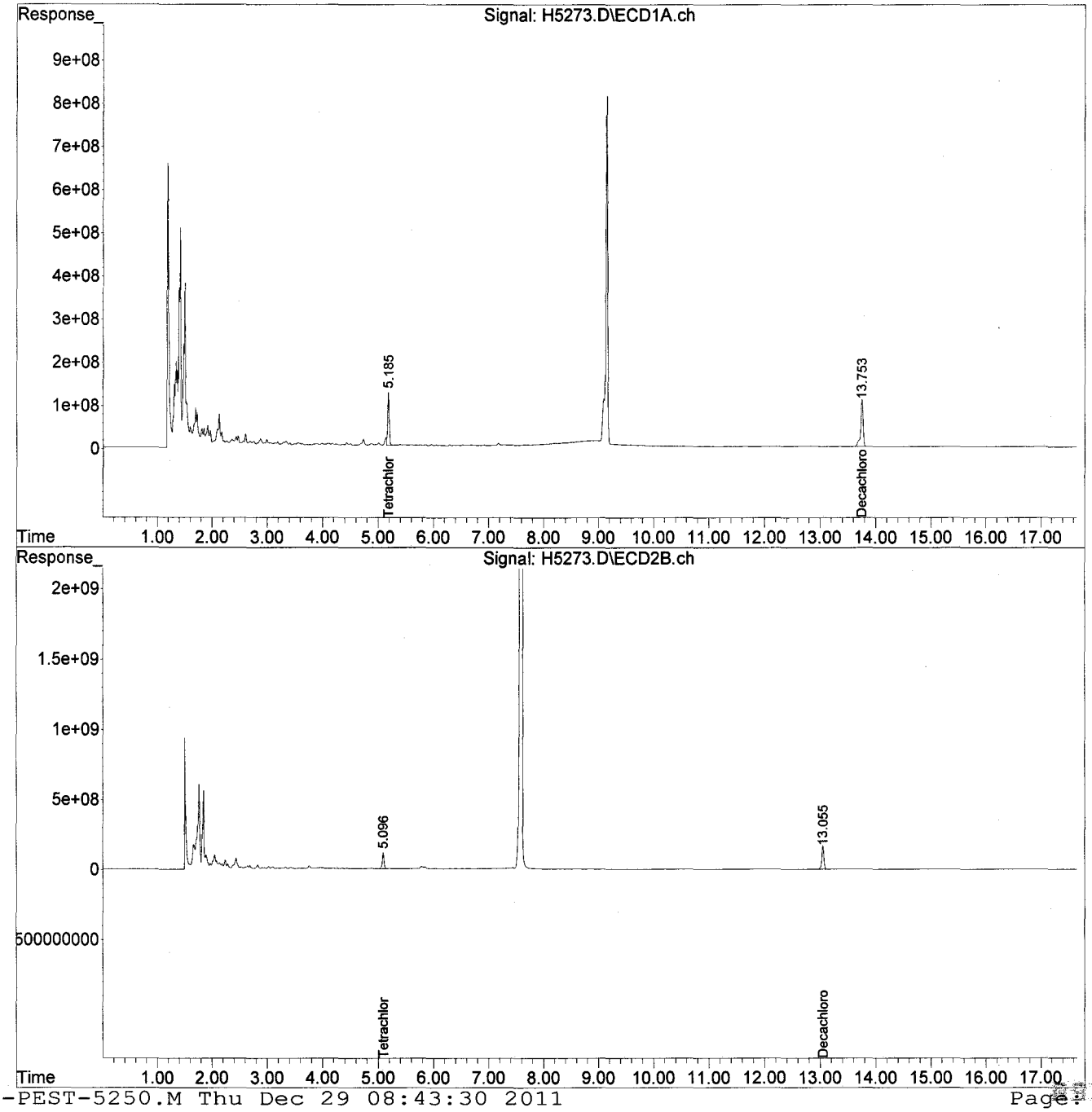
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5273.D(Signal #1) H5273.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 08:13 (#1); 12/28/11 08:37 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP4 (Sig #1); F4XP4 (Sig #2)
Misc : S-4460.05 30.3G/5.0ML (Sig #1); S-4460.05 30.3G/5.0ML (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:43:22 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06

Sample wt/vol: 30.20 (g/mL) G Lab File ID: H5274

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.9	U
72-55-9	4,4'-DDE	4.9	U
72-20-8	Endrin	4.9	U
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	4.9	U
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	4.9	U
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5274.D(Signal #1) H5274.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 08:37 (#1); 12/28/11 09:01 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP5 (Sig #1); F4XP5 (Sig #2)
Misc : S-4460.06 30.2G/5.0ML (Sig #1); S-4460.06 30.2G/5.0ML (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:44:36 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.188	5.095	2624.1E6	2571.1E6	40.651	41.426
	Spiked Amount	60.000	Range 18 - 90		Recovery =	67.75%	69.04%
22)	S Decachlor...	13.754	13.054	2995.3E6	4247.3E6	79.911	81.431
	Spiked Amount	120.000	Range 36 - 180		Recovery =	66.59%	67.86%
	Target Compounds						

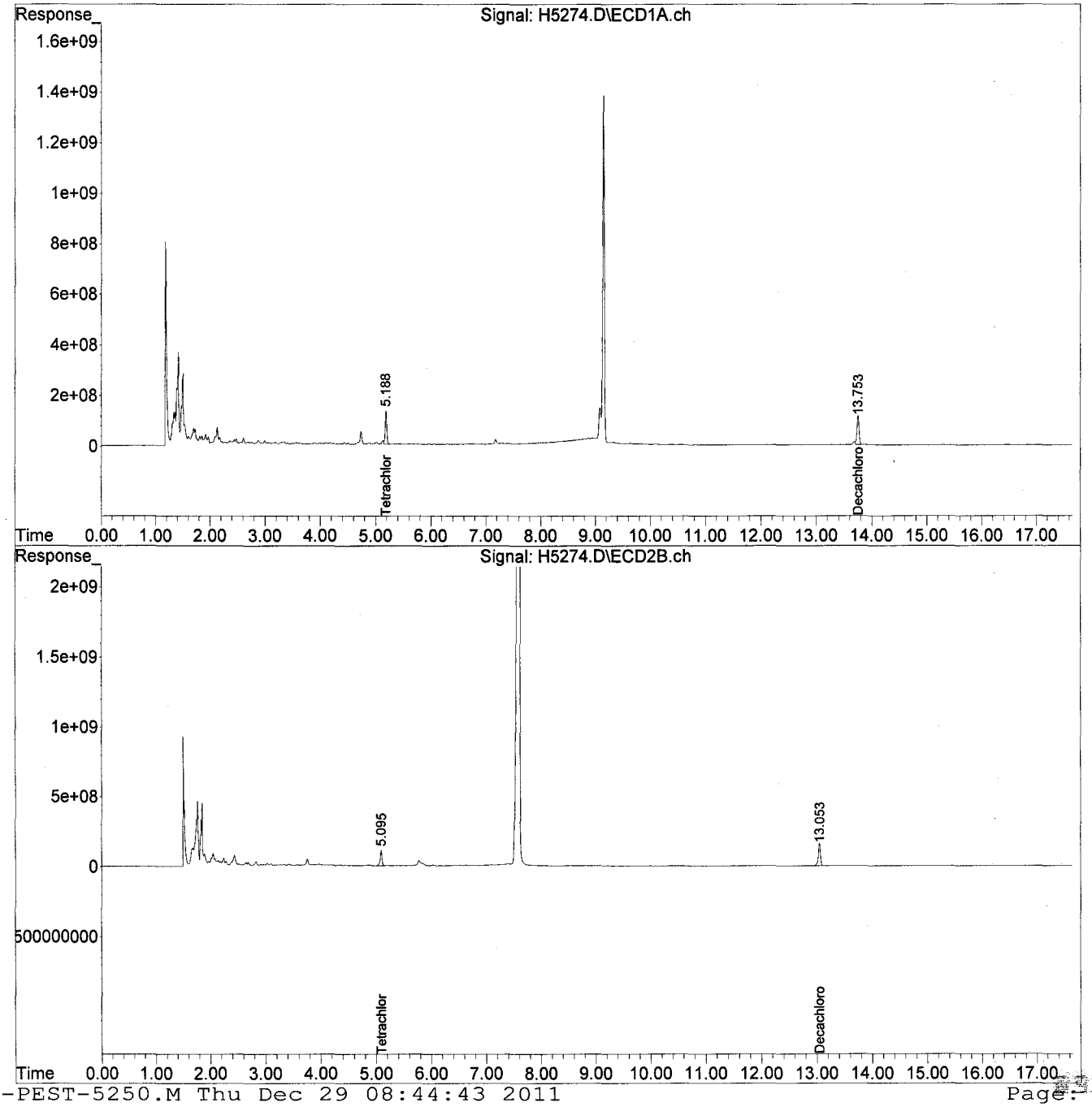
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5274.D(Signal #1) H5274.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 08:37 (#1); 12/28/11 09:01 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP5 (Sig #1); F4XP5 (Sig #2)
Misc : S-4460.06 30.2G/5.0ML (Sig #1); S-4460.06 30.2G/5.0ML (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:44:36 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.07

Sample wt/vol: 30.40 (g/mL) G Lab File ID: H5275

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.3	U
319-85-7	beta-BHC	3.3	U
319-86-8	delta-BHC	3.3	U
58-89-9	gamma-BHC (Lindane)	3.3	U
76-44-8	Heptachlor	3.3	U
309-00-2	Aldrin	3.3	U
1024-57-3	Heptachlor epoxide	3.3	U
959-98-8	Endosulfan I	3.3	U
60-57-1	Dieldrin	6.4	U
72-55-9	4,4'-DDE	6.4	U
72-20-8	Endrin	6.4	U
33213-65-9	Endosulfan II	6.4	U
72-54-8	4,4'-DDD	6.4	U
1031-07-8	Endosulfan sulfate	6.4	U
50-29-3	4,4'-DDT	6.4	U
72-43-5	Methoxychlor	33	U
53494-70-5	Endrin ketone	6.4	U
7421-93-4	Endrin aldehyde	6.4	U
5103-71-9	alpha-Chlordane	3.3	U
5103-74-2	gamma-Chlordane	3.3	U
8001-35-2	Toxaphene	330	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5275.D(Signal #1) H5275.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 09:01 (#1); 12/28/11 09:25 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP6 (Sig #1); F4XP6 (Sig #2)
Misc : S-4460.07 30.4G/5.0ML (Sig #1); S-4460.07 30.4G/5.0ML (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:45:20 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.187	5.094	2540.9E6	2629.0E6	39.362	42.359
	Spiked Amount	60.000	Range 18 - 90		Recovery =	65.60%	70.60%
22)	S Decachlor...	13.754	13.053	3272.5E6	4340.4E6	87.307	83.215
	Spiked Amount	120.000	Range 36 - 180		Recovery =	72.76%	69.35%
	Target Compounds						

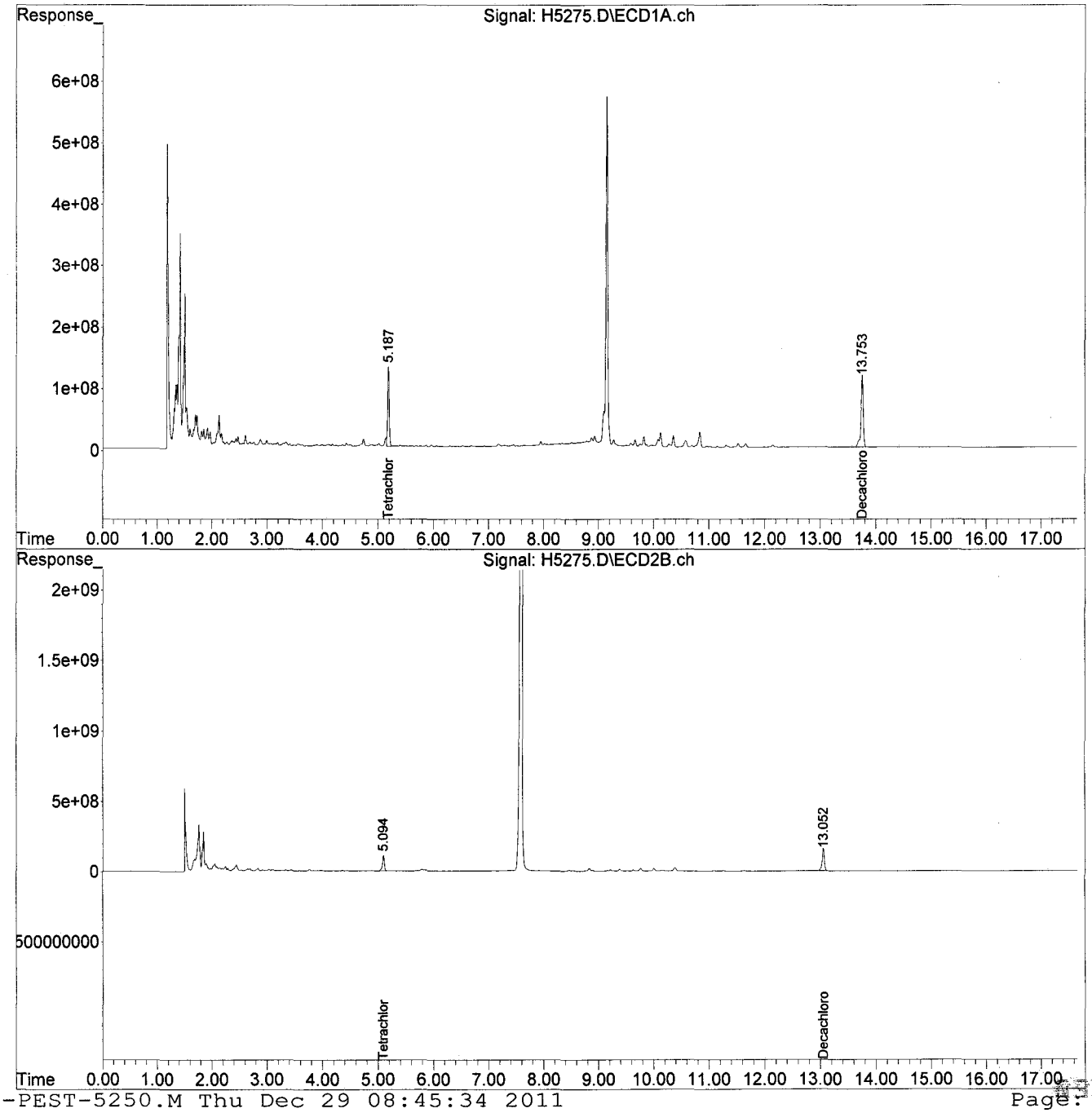
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5275.D(Signal #1) H5275.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 09:01 (#1); 12/28/11 09:25 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP6 (Sig #1); F4XP6 (Sig #2)
Misc : S-4460.07 30.4G/5.0ML (Sig #1); S-4460.07 30.4G/5.0ML (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:45:20 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.01

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5277

% Moisture: 46 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.1	U
319-85-7	beta-BHC	3.1	U
319-86-8	delta-BHC	3.1	U
58-89-9	gamma-BHC (Lindane)	3.1	U
76-44-8	Heptachlor	3.1	U
309-00-2	Aldrin	3.1	U
1024-57-3	Heptachlor epoxide	3.1	U
959-98-8	Endosulfan I	3.1	U
60-57-1	Dieldrin	6.1	U
72-55-9	4,4'-DDE	6.1	U
72-20-8	Endrin	6.1	U
33213-65-9	Endosulfan II	6.1	U
72-54-8	4,4'-DDD	6.1	U
1031-07-8	Endosulfan sulfate	6.1	U
50-29-3	4,4'-DDT	6.1	U
72-43-5	Methoxychlor	31	U
53494-70-5	Endrin ketone	6.1	U
7421-93-4	Endrin aldehyde	6.1	U
5103-71-9	alpha-Chlordane	3.1	U
5103-74-2	gamma-Chlordane	3.1	U
8001-35-2	Toxaphene	310	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5277.D(Signal #1) H5277.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 09:49 (#1); 12/28/11 10:13 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP7 (Sig #1); F4XP7 (Sig #2)
Misc : S-4465.01 30.3G/5.0ML (Sig #1); S-4465.01 30.3G/5.0ML (Sig #2)
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:47:04 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.188	5.094	2428.4E6	2956.8E6	37.619	47.639 #
Spiked Amount	60.000	Range 18 - 90	Recovery =		62.70%	79.40%
22) S Decachlor...	13.754	13.053	3663.3E6	4873.1E6	97.732	93.429
Spiked Amount	120.000	Range 36 - 180	Recovery =		81.44%	77.86%
Target Compounds						

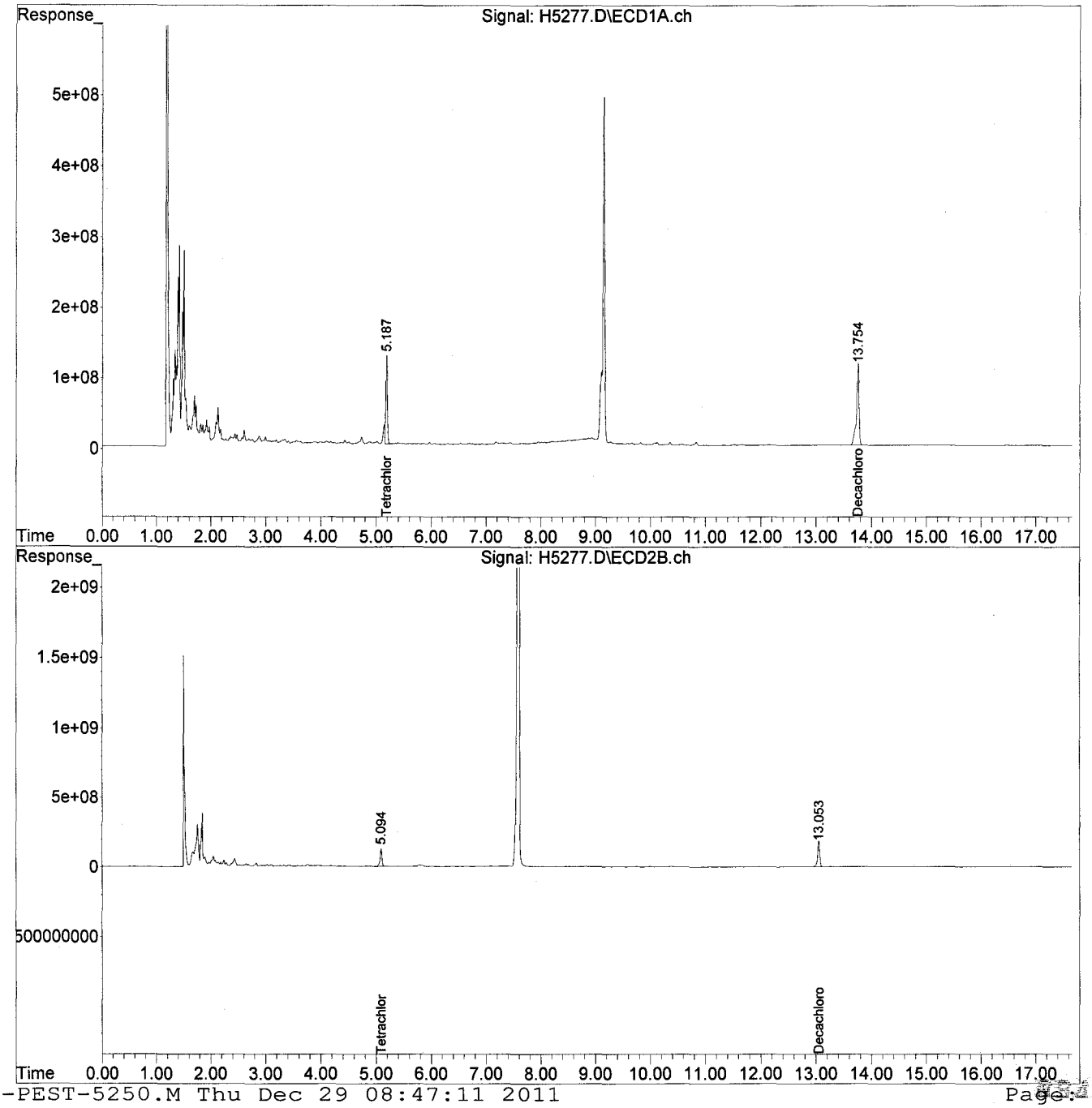
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5277.D(Signal #1) H5277.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 09:49 (#1); 12/28/11 10:13 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP7 (Sig #1); F4XP7 (Sig #2)
Misc : S-4465.01 30.3G/5.0ML (Sig #1); S-4465.01 30.3G/5.0ML (Sig #2)
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:47:04 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.02

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5278

% Moisture: 44 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	3.0	U
319-86-8	delta-BHC	3.0	U
58-89-9	gamma-BHC (Lindane)	3.0	U
76-44-8	Heptachlor	3.0	U
309-00-2	Aldrin	3.0	U
1024-57-3	Heptachlor epoxide	3.0	U
959-98-8	Endosulfan I	3.0	U
60-57-1	Dieldrin	5.9	U
72-55-9	4,4'-DDE	5.9	U
72-20-8	Endrin	5.9	U
33213-65-9	Endosulfan II	5.9	U
72-54-8	4,4'-DDD	5.9	U
1031-07-8	Endosulfan sulfate	5.9	U
50-29-3	4,4'-DDT	5.9	U
72-43-5	Methoxychlor	30	U
53494-70-5	Endrin ketone	5.9	U
7421-93-4	Endrin aldehyde	5.9	U
5103-71-9	alpha-Chlordane	3.0	U
5103-74-2	gamma-Chlordane	3.0	U
8001-35-2	Toxaphene	300	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5278.D(Signal #1) H5278.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 10:13 (#1); 12/28/11 10:45 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP8 (Sig #1); F4XP8 (Sig #2)
Misc : S-4465.02 30.1G/5.0ML (Sig #1); S-4465.02 30.1G/5.0ML (Sig #2)
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:47:53 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.186	5.097	2737.8E6	2787.6E6	42.413	44.914
Spiked Amount	60.000	Range 18 - 90		Recovery =	70.69%	74.86%
22) S Decachlor...	13.752	13.059	3893.5E6	5056.2E6	103.874	96.939
Spiked Amount	120.000	Range 36 - 180		Recovery =	86.56%	80.78%
Target Compounds						

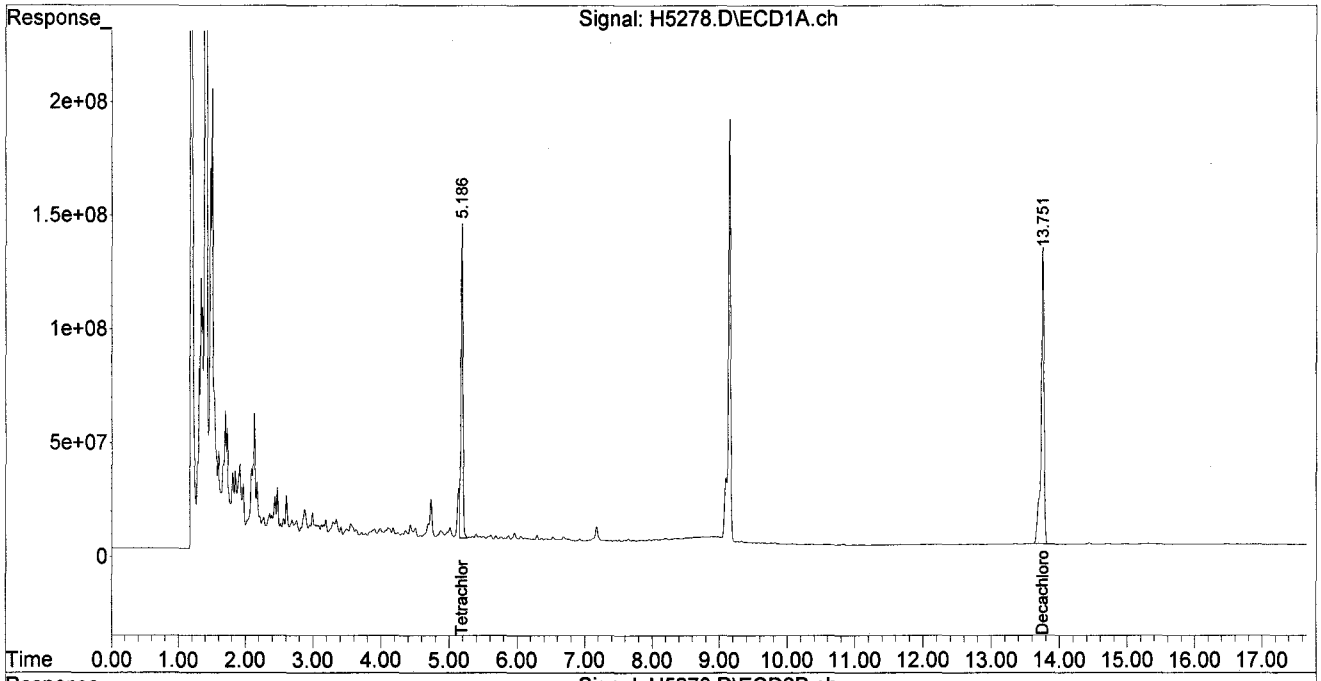
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

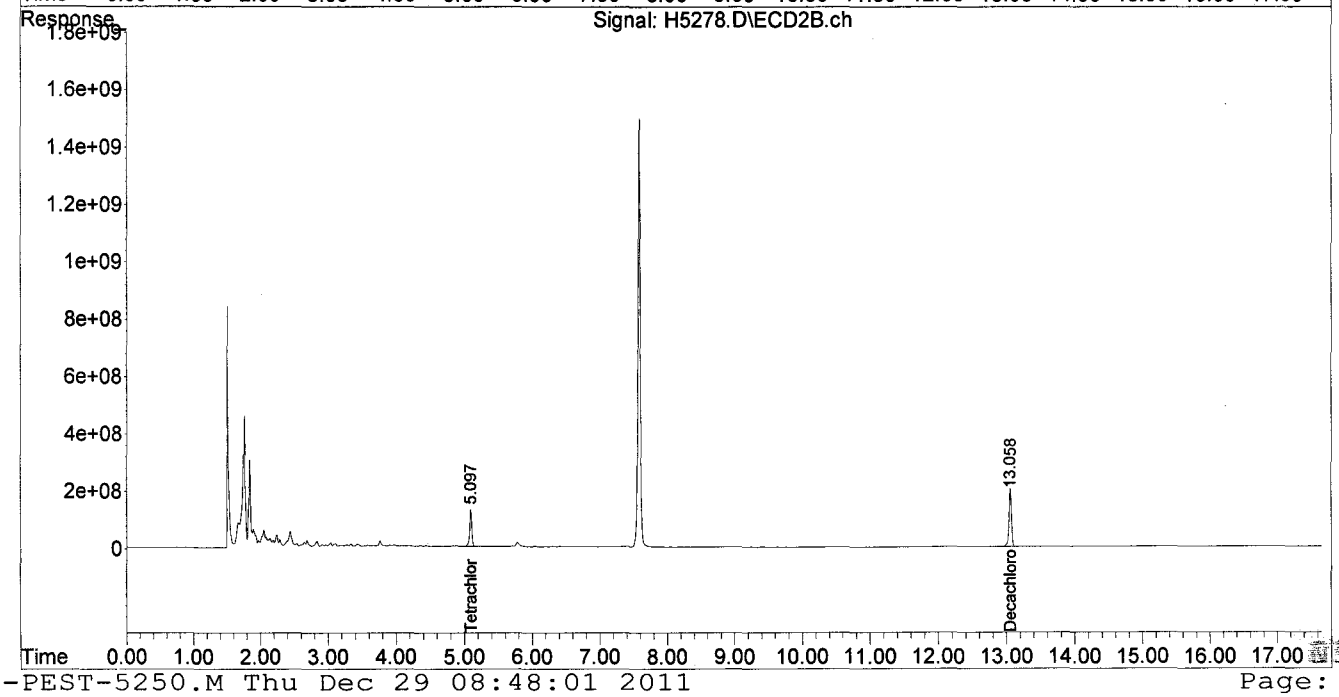
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5278.D(Signal #1) H5278.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 10:13 (#1); 12/28/11 10:45 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP8 (Sig #1); F4XP8 (Sig #2)
Misc : S-4465.02 30.1G/5.0ML (Sig #1); S-4465.02 30.1G/5.0ML (Sig #2)
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:47:53 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.03

Sample wt/vol: 30.00 (g/mL) G Lab File ID: H5279

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.5	U
72-55-9	4,4'-DDE	5.5	U
72-20-8	Endrin	5.5	U
33213-65-9	Endosulfan II	5.5	U
72-54-8	4,4'-DDD	5.5	U
1031-07-8	Endosulfan sulfate	5.5	U
50-29-3	4,4'-DDT	5.5	U
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.5	U
7421-93-4	Endrin aldehyde	5.5	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5279.D(Signal #1) H5279.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 10:45 (#1); 12/28/11 11:09 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 30.0G/5.0ML (Sig #1); S-4465.03 30.0G/5.0ML (Sig #2)
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:48:39 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.193	5.097	2663.0E6	2614.3E6	41.253	42.122
	Spiked Amount	60.000	Range 18 - 90		Recovery =	68.75%	70.20%
22)	S Decachlor...	13.758	13.056	3661.6E6	4587.6E6	97.688	87.955
	Spiked Amount	120.000	Range 36 - 180		Recovery =	81.41%	73.30%
	Target Compounds						

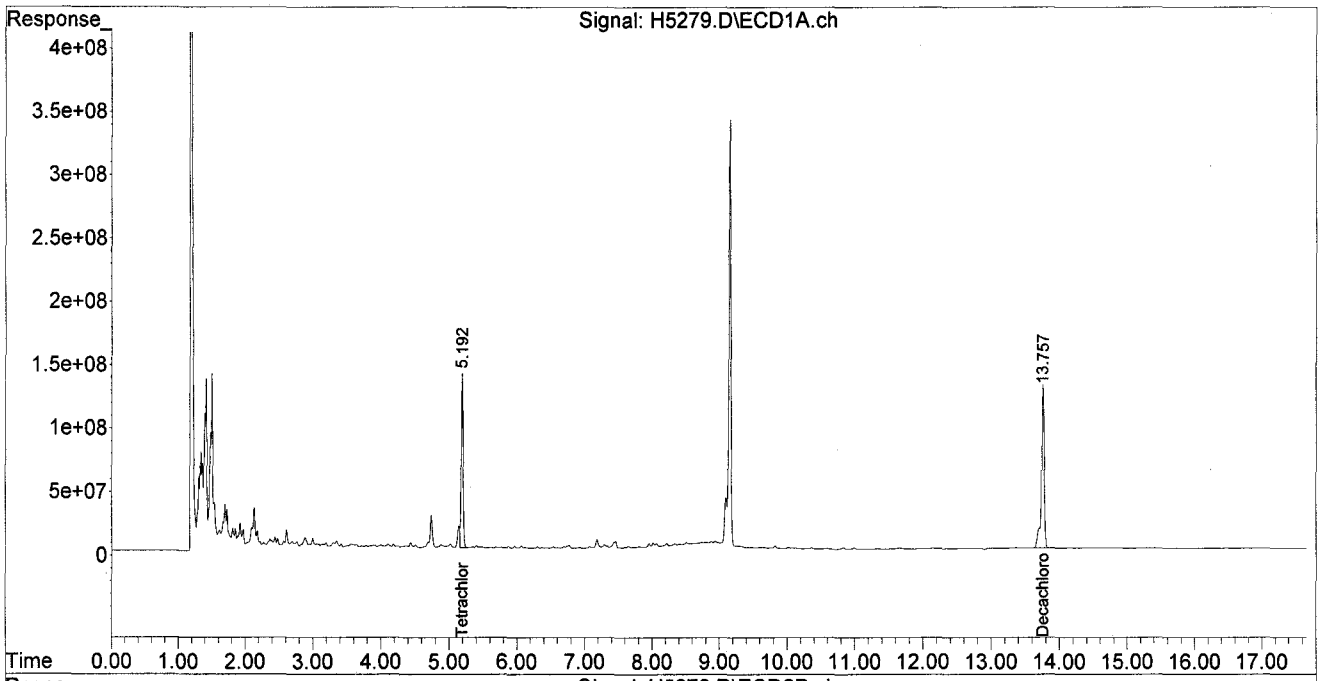
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

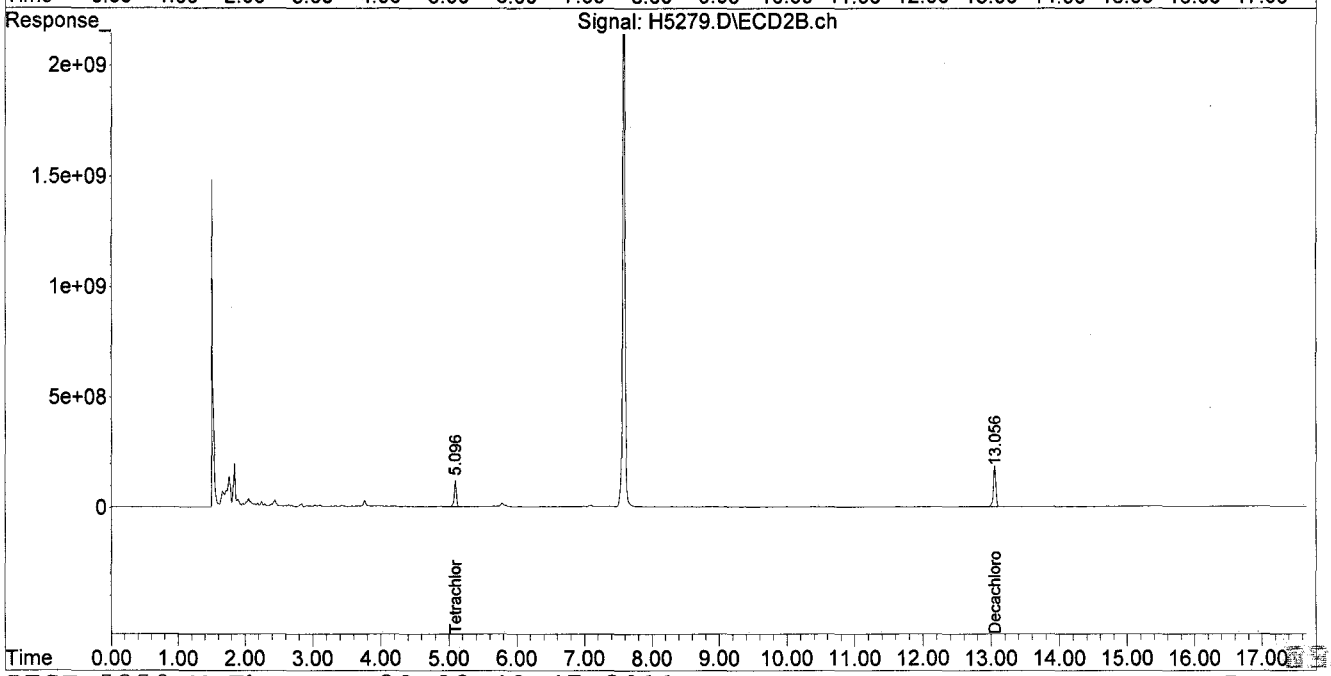
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5279.D(Signal #1) H5279.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 10:45 (#1); 12/28/11 11:09 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 30.0G/5.0ML (Sig #1); S-4465.03 30.0G/5.0ML (Sig #2)
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:48:39 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.01

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5281

% Moisture: 55 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.8	U
319-85-7	beta-BHC	3.8	U
319-86-8	delta-BHC	3.8	U
58-89-9	gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	7.3	U
72-55-9	4,4'-DDE	7.3	U
72-20-8	Endrin	7.3	U
33213-65-9	Endosulfan II	7.3	U
72-54-8	4,4'-DDD	7.3	U
1031-07-8	Endosulfan sulfate	7.3	U
50-29-3	4,4'-DDT	7.3	U
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin ketone	7.3	U
7421-93-4	Endrin aldehyde	7.3	U
5103-71-9	alpha-Chlordane	3.8	U
5103-74-2	gamma-Chlordane	3.8	U
8001-35-2	Toxaphene	380	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5281.D(Signal #1) H5281.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 11:33 (#1); 12/28/11 11:57 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ0 (Sig #1); F4XQ0 (Sig #2)
Misc : S-4476.01 30.1G/5.0ML (Sig #1); S-4476.01 30.1G/5.0ML (Sig #2)
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:50:23 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.188	5.095	3250.2E6	3246.3E6	50.350	52.304
Spiked Amount	60.000	Range 18 - 90		Recovery =	83.92%	87.17%
22) S Decachlor...	13.754	13.054	3880.6E6	5495.4E6	103.530	105.360
Spiked Amount	120.000	Range 36 - 180		Recovery =	86.28%	87.80%
Target Compounds						

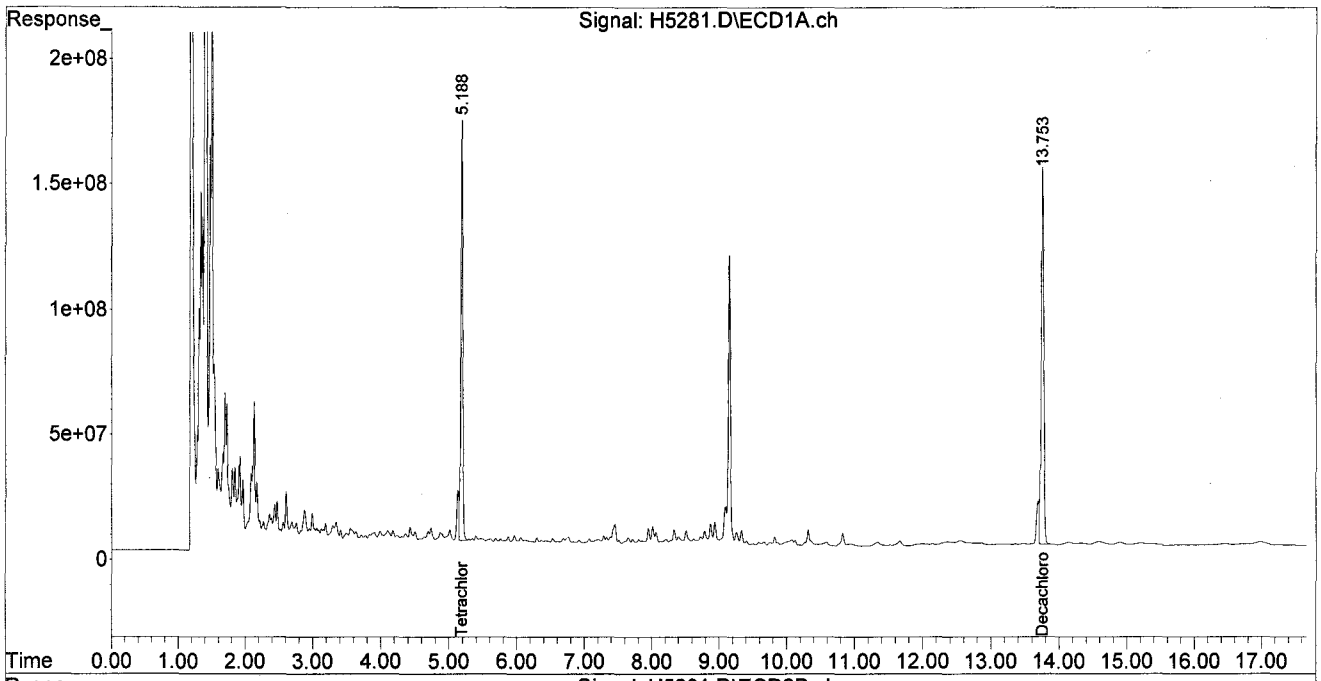
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

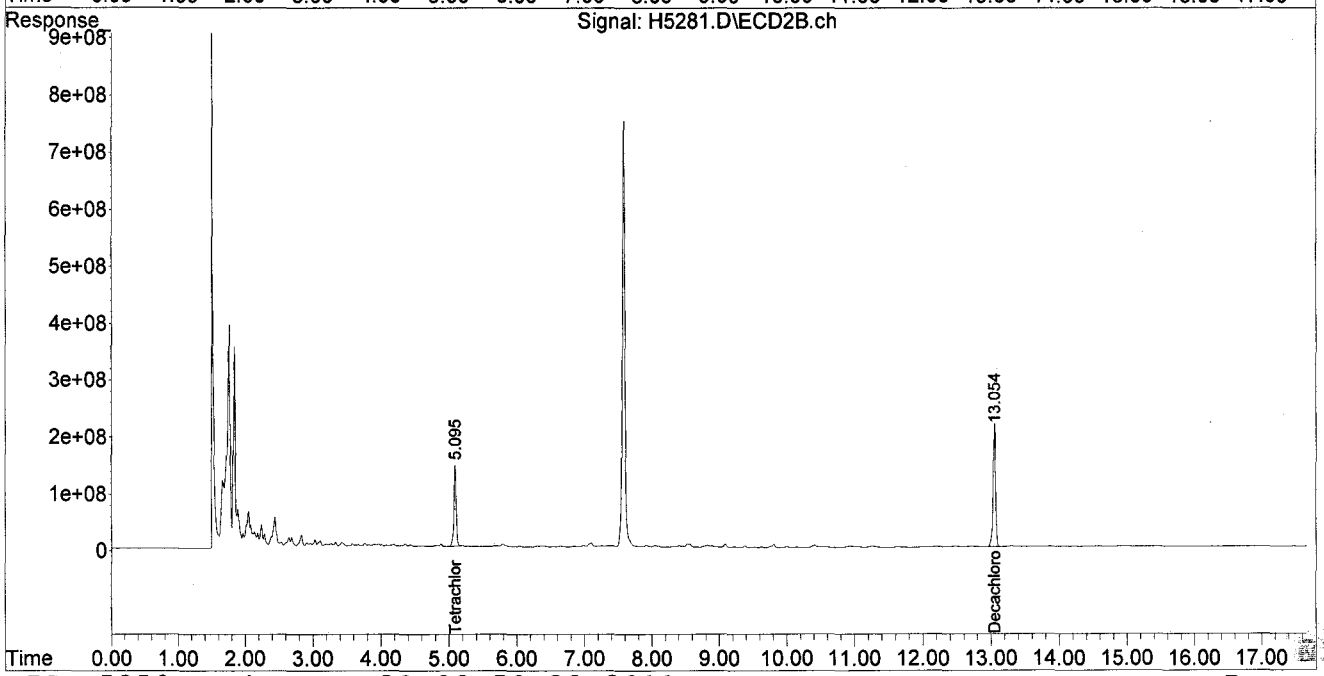
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5281.D(Signal #1) H5281.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 11:33 (#1); 12/28/11 11:57 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ0 (Sig #1); F4XQ0 (Sig #2)
Misc : S-4476.01 30.1G/5.0ML (Sig #1); S-4476.01 30.1G/5.0ML (Sig #2)
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:50:23 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.02

Sample wt/vol: 29.90 (g/mL) G Lab File ID: H5282

% Moisture: 59 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.2	U
319-85-7	beta-BHC	4.2	U
319-86-8	delta-BHC	4.2	U
58-89-9	gamma-BHC (Lindane)	4.2	U
76-44-8	Heptachlor	4.2	U
309-00-2	Aldrin	4.2	U
1024-57-3	Heptachlor epoxide	4.2	U
959-98-8	Endosulfan I	4.2	U
60-57-1	Dieldrin	8.1	U
72-55-9	4,4'-DDE	8.1	U
72-20-8	Endrin	8.1	U
33213-65-9	Endosulfan II	8.1	U
72-54-8	4,4'-DDD	8.1	U
1031-07-8	Endosulfan sulfate	8.1	U
50-29-3	4,4'-DDT	8.1	U
72-43-5	Methoxychlor	42	U
53494-70-5	Endrin ketone	8.1	U
7421-93-4	Endrin aldehyde	8.1	U
5103-71-9	alpha-Chlordane	4.2	U
5103-74-2	gamma-Chlordane	4.2	U
8001-35-2	Toxaphene	420	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5282.D(Signal #1) H5282.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 11:57 (#1); 12/28/11 12:21 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 30.1G/5.0ML (Sig #1); S-4476.02 30.1G/5.0ML (Sig #2)
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:51:23 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.188	5.096	3585.2E6	3595.3E6	55.540	57.927
Spiked Amount	60.000	Range 18 - 90		Recovery =	92.57%#	96.55%#
22) S Decachlor...	13.754	13.055	4607.7E6	5991.5E6	122.931	114.870
Spiked Amount	120.000	Range 36 - 180		Recovery =	102.44%	95.73%
Target Compounds						

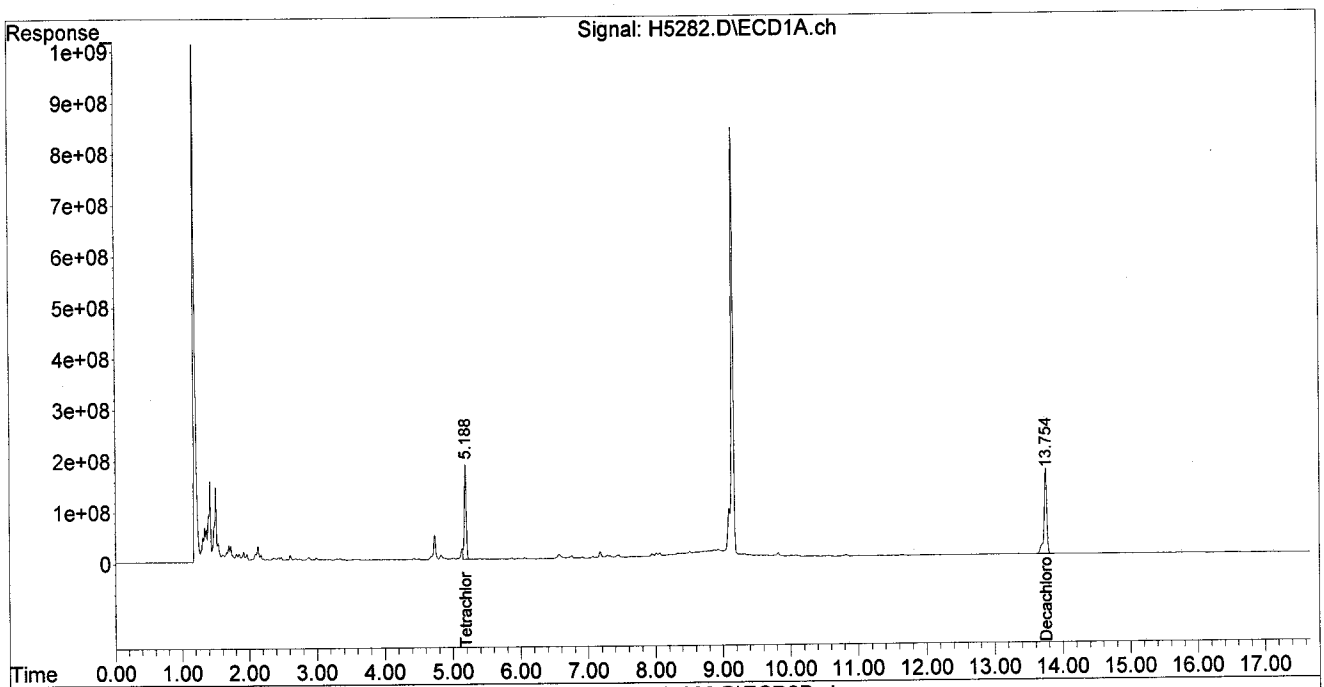
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

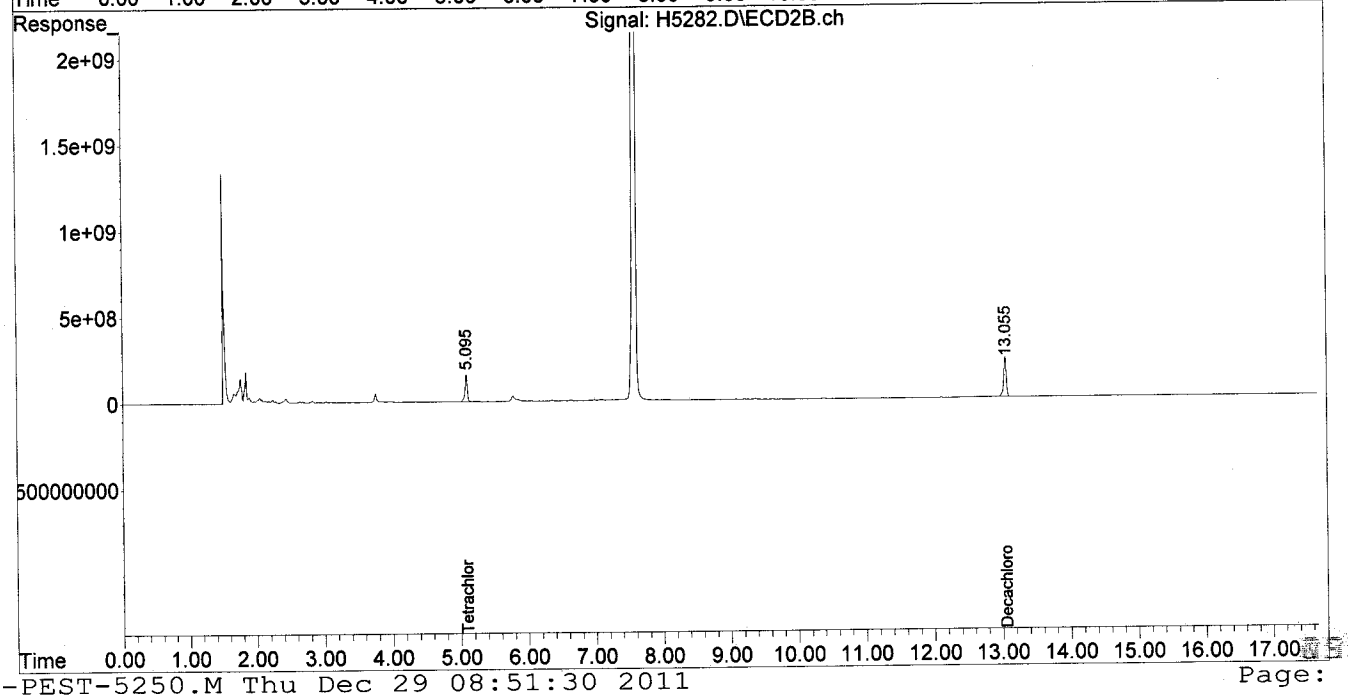
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5282.D(Signal #1) H5282.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 11:57 (#1); 12/28/11 12:21 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 30.1G/5.0ML (Sig #1); S-4476.02 30.1G/5.0ML (Sig #2)
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:51:23 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.03

Sample wt/vol: 30.20 (g/mL) G Lab File ID: H5283

% Moisture: 42 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.7	U
72-55-9	4,4'-DDE	5.7	U
72-20-8	Endrin	5.7	U
33213-65-9	Endosulfan II	5.7	U
72-54-8	4,4'-DDD	5.7	U
1031-07-8	Endosulfan sulfate	5.7	U
50-29-3	4,4'-DDT	5.7	U
72-43-5	Methoxychlor	29	U
53494-70-5	Endrin ketone	5.7	U
7421-93-4	Endrin aldehyde	5.7	U
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5283.D(Signal #1) H5283.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 12:21 (#1); 12/28/11 12:45 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 30.2G/5.0ML (Sig #1); S-4476.03 30.2G/5.0ML (Sig #2)
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:52:15 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.188	5.096	2808.5E6	2827.4E6	43.507	45.555
	Spiked Amount	60.000	Range 18 - 90		Recovery =	72.51%	75.92%
22)	S Decachlor...	13.754	13.055	3478.8E6	4941.6E6	92.810	94.742
	Spiked Amount	120.000	Range 36 - 180		Recovery =	77.34%	78.95%
	Target Compounds						

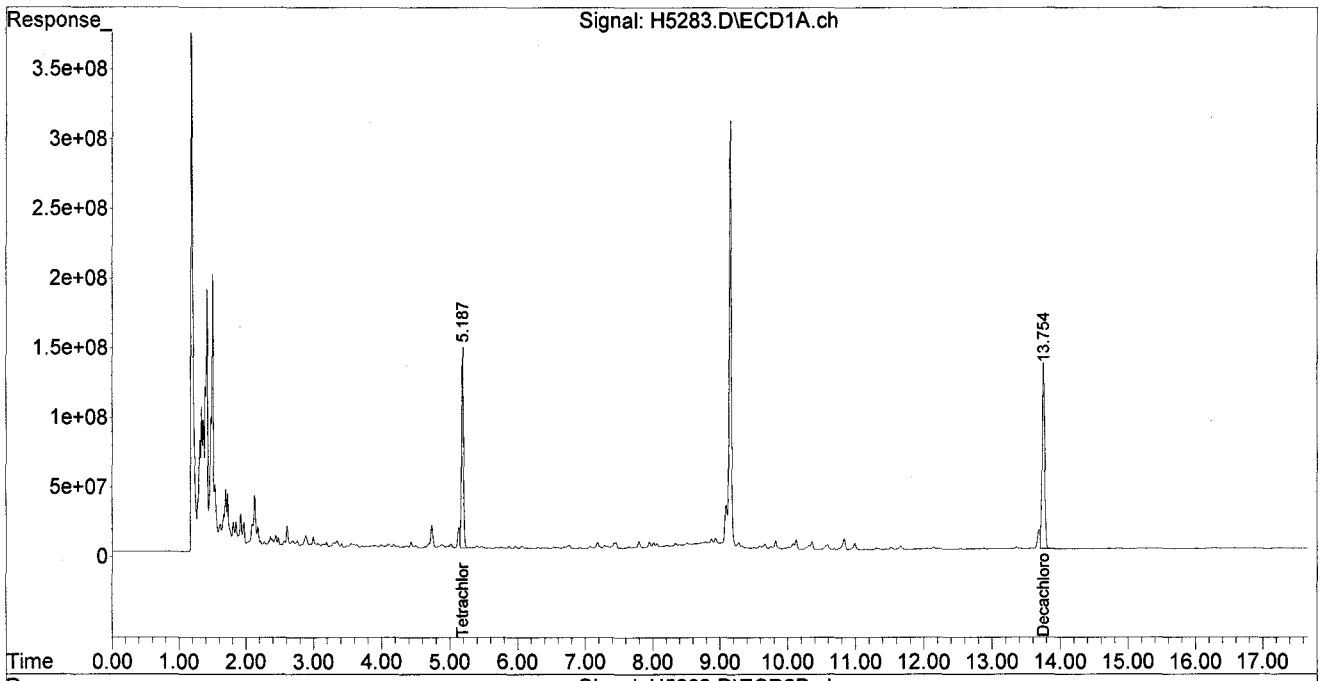
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

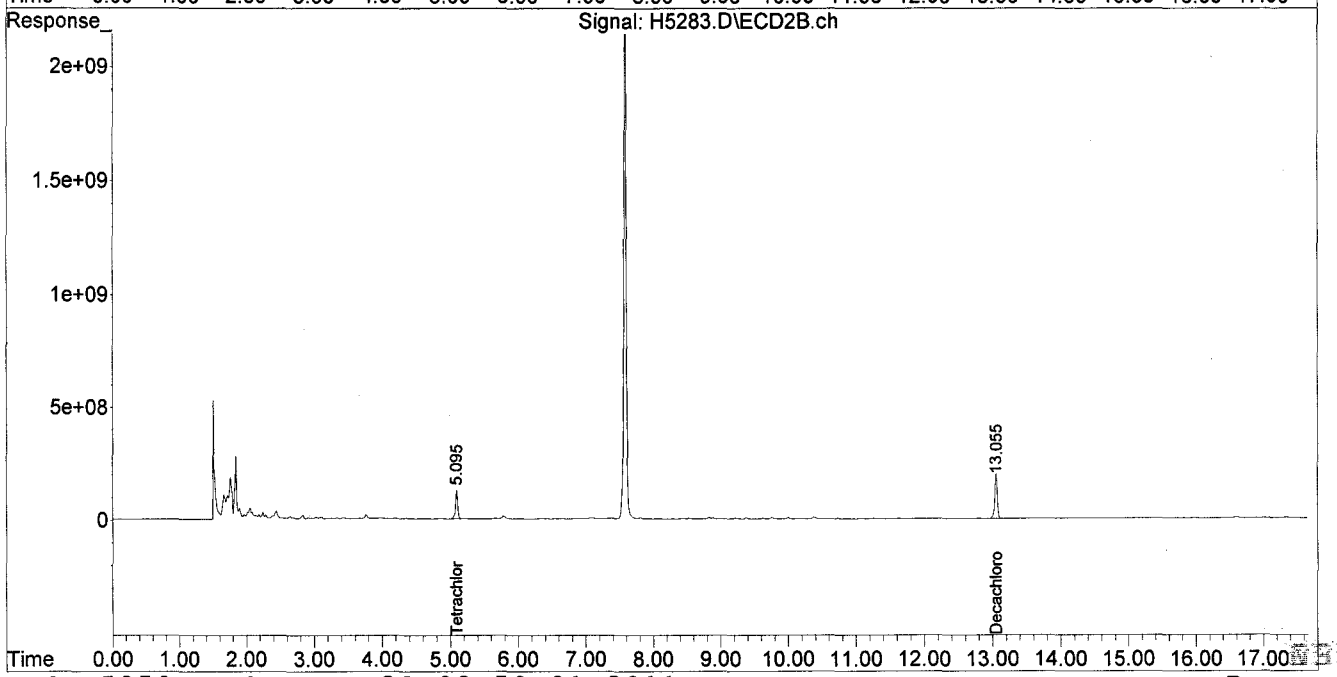
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5283.D(Signal #1) H5283.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 12:21 (#1); 12/28/11 12:45 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 30.2G/5.0ML (Sig #1); S-4476.03 30.2G/5.0ML (Sig #2)
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:52:15 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5284

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.2	U
319-85-7	beta-BHC	3.2	U
319-86-8	delta-BHC	3.2	U
58-89-9	gamma-BHC (Lindane)	3.2	U
76-44-8	Heptachlor	3.2	U
309-00-2	Aldrin	3.2	U
1024-57-3	Heptachlor epoxide	3.2	U
959-98-8	Endosulfan I	3.2	U
60-57-1	Dieldrin	6.2	U
72-55-9	4,4'-DDE	6.2	U
72-20-8	Endrin	6.2	U
33213-65-9	Endosulfan II	6.2	U
72-54-8	4,4'-DDD	6.2	U
1031-07-8	Endosulfan sulfate	6.2	U
50-29-3	4,4'-DDT	6.2	U
72-43-5	Methoxychlor	32	U
53494-70-5	Endrin ketone	6.2	U
7421-93-4	Endrin aldehyde	6.2	U
5103-71-9	alpha-Chlordane	3.2	U
5103-74-2	gamma-Chlordane	3.2	U
8001-35-2	Toxaphene	320	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5284.D(Signal #1) H5284.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 12:45 (#1); 12/28/11 13:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 30.1G/5.0ML (Sig #1); S-4476.04 30.1G/5.0ML (Sig #2)
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:53:05 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.188	5.095	2679.8E6	2724.1E6	41.514	43.891
Spiked Amount	60.000	Range 18 - 90		Recovery =	69.19%	73.15%
22) S Decachlor...	13.754	13.055	3385.4E6	4760.2E6	90.319	91.263
Spiked Amount	120.000	Range 36 - 180		Recovery =	75.27%	76.05%
Target Compounds						

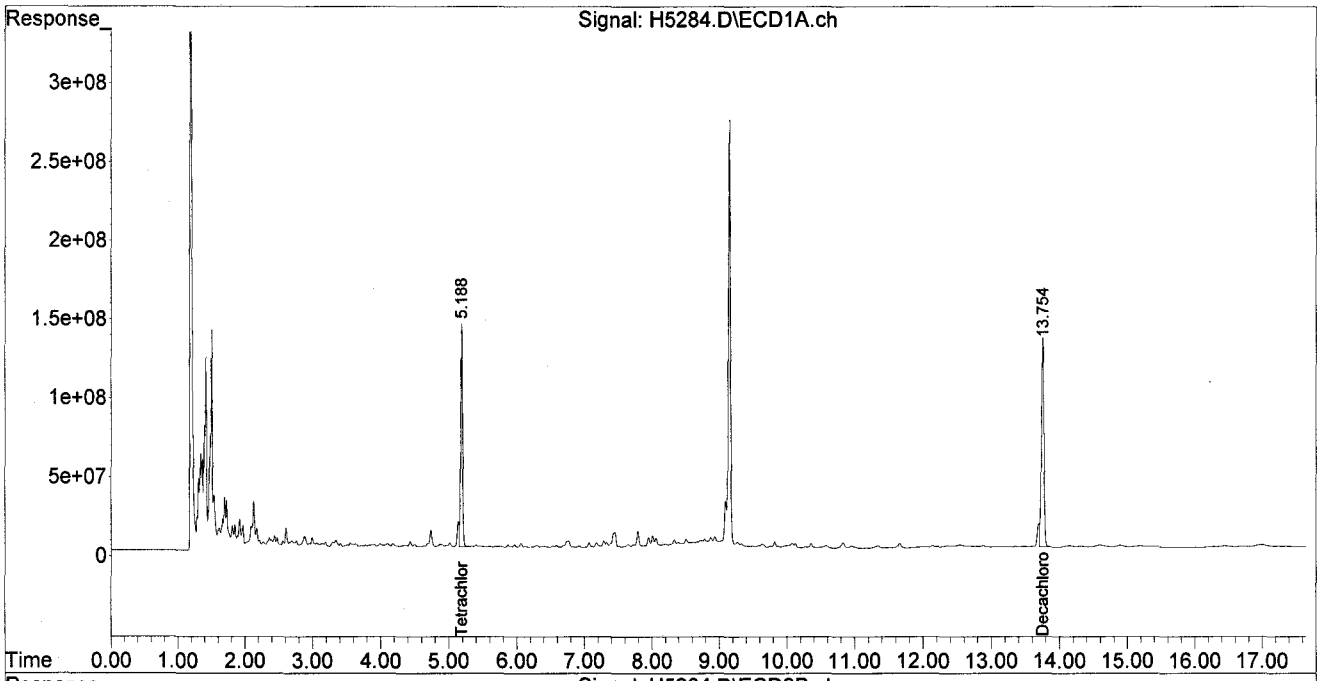
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

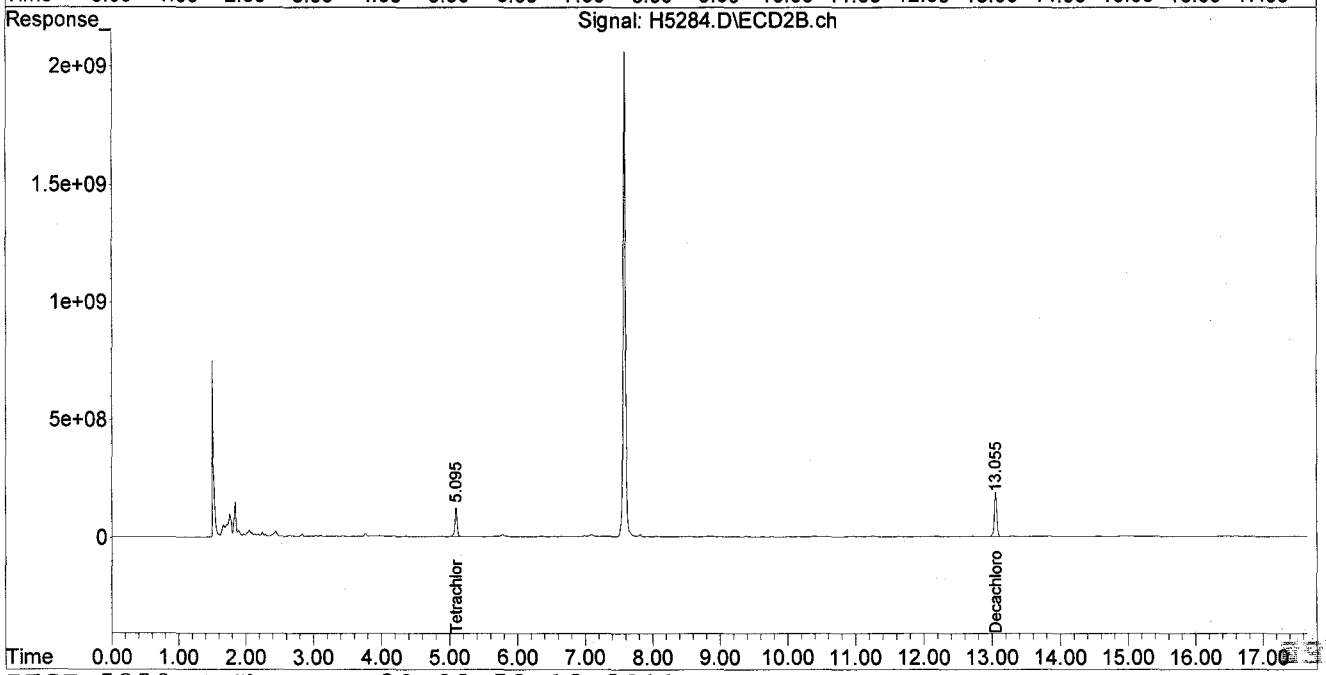
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5284.D(Signal #1) H5284.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 12:45 (#1); 12/28/11 13:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 30.1G/5.0ML (Sig #1); S-4476.04 30.1G/5.0ML (Sig #2)
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:53:05 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.05

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5285

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.3	U
319-85-7	beta-BHC	3.3	U
319-86-8	delta-BHC	3.3	U
58-89-9	gamma-BHC (Lindane)	3.3	U
76-44-8	Heptachlor	3.3	U
309-00-2	Aldrin	3.3	U
1024-57-3	Heptachlor epoxide	3.3	U
959-98-8	Endosulfan I	3.3	U
60-57-1	Dieldrin	6.4	U
72-55-9	4,4'-DDE	6.4	U
72-20-8	Endrin	6.4	U
33213-65-9	Endosulfan II	6.4	U
72-54-8	4,4'-DDD	6.4	U
1031-07-8	Endosulfan sulfate	6.4	U
50-29-3	4,4'-DDT	6.4	U
72-43-5	Methoxychlor	33	U
53494-70-5	Endrin ketone	6.4	U
7421-93-4	Endrin aldehyde	6.4	U
5103-71-9	alpha-Chlordane	3.3	U
5103-74-2	gamma-Chlordane	3.3	U
8001-35-2	Toxaphene	330	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5285.D(Signal #1) H5285.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 13:10 (#1); 12/28/11 13:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 30.3G/5.0ML (Sig #1); S-4476.05 30.3G/5.0ML (Sig #2)
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:54:04 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.186	5.096	2732.2E6	2443.4E6	42.325	39.368
Spiked Amount	60.000	Range 18 - 90		Recovery =	70.54%	65.61%
22) S Decachlor...	13.754	13.055	3248.4E6	4188.5E6	86.665	80.302
Spiked Amount	120.000	Range 36 - 180		Recovery =	72.22%	66.92%
Target Compounds						

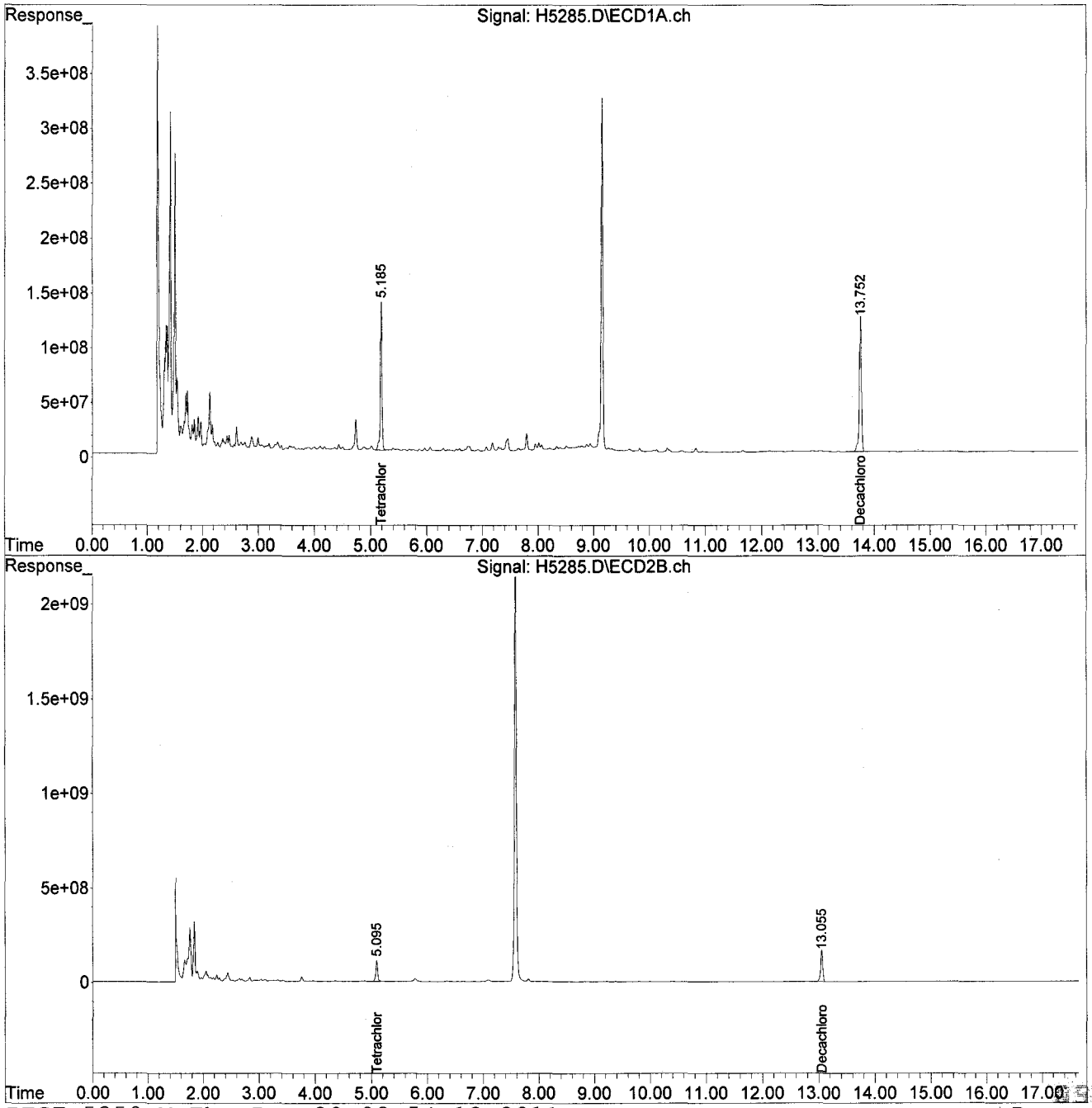
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5285.D(Signal #1) H5285.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 13:10 (#1); 12/28/11 13:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 30.3G/5.0ML (Sig #1); S-4476.05 30.3G/5.0ML (Sig #2)
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:54:04 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.08

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5276

% Moisture: 36 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.1	U
72-55-9	4,4'-DDE	5.1	U
72-20-8	Endrin	5.1	U
33213-65-9	Endosulfan II	5.1	U
72-54-8	4,4'-DDD	5.1	U
1031-07-8	Endosulfan sulfate	5.1	U
50-29-3	4,4'-DDT	5.1	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.1	U
7421-93-4	Endrin aldehyde	5.1	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5276.D(Signal #1) H5276.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 09:25 (#1); 12/28/11 09:49 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ5 (Sig #1); F4XQ5 (Sig #2)
Misc : S-4460.08 30.1G/5.0ML (Sig #1); S-4460.08 30.1G/5.0ML (Sig #2)
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:46:13 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.188	5.094	2532.1E6	2571.7E6	39.226	41.435
Spiked Amount	60.000	Range 18 - 90		Recovery =	65.38%	69.06%
22) S Decachlor...	13.755	13.053	3143.0E6	4435.6E6	83.852	85.040
Spiked Amount	120.000	Range 36 - 180		Recovery =	69.88%	70.87%
Target Compounds						

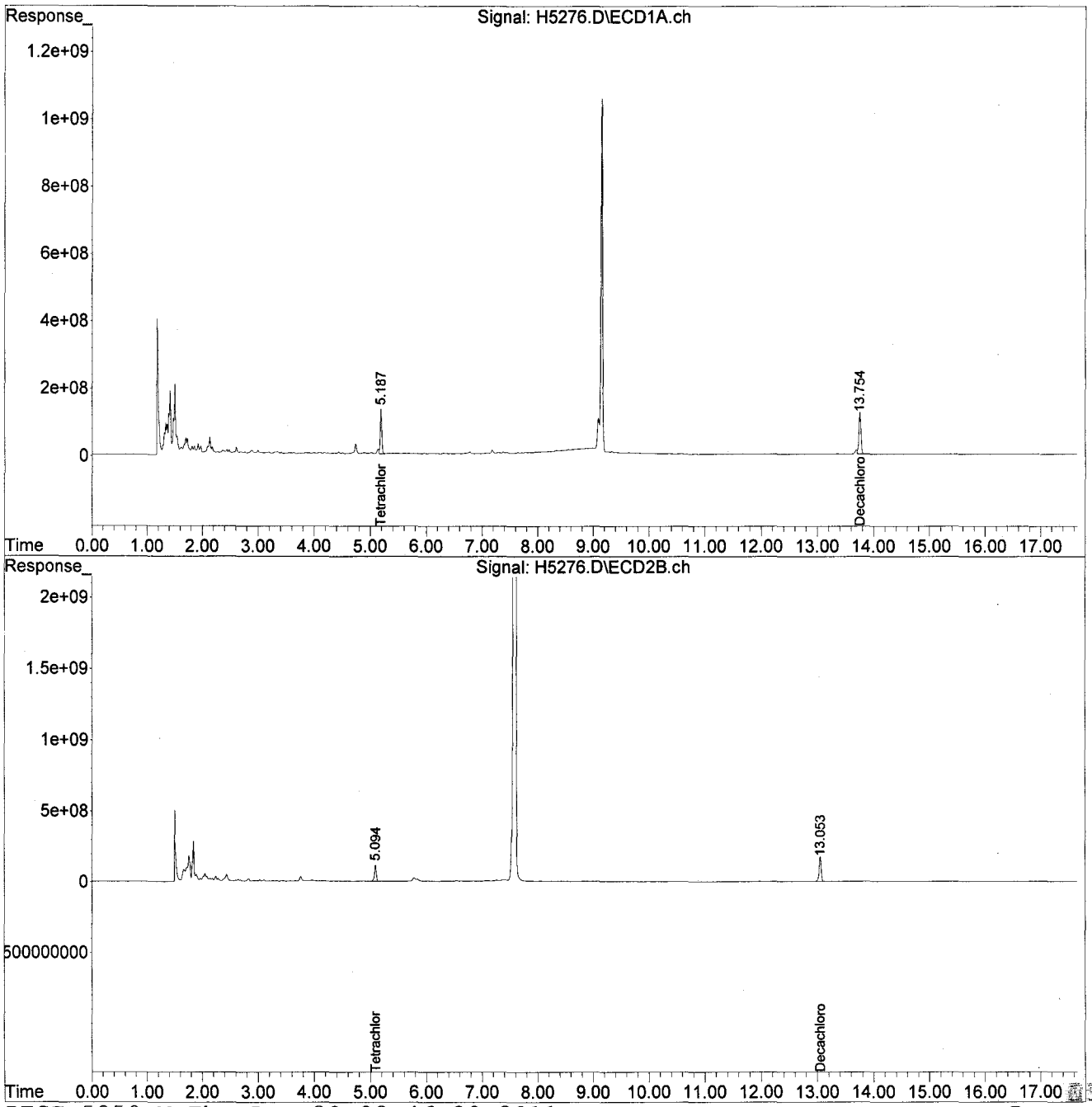
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5276.D(Signal #1) H5276.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 09:25 (#1); 12/28/11 09:49 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ5 (Sig #1); F4XQ5 (Sig #2)
Misc : S-4460.08 30.1G/5.0ML (Sig #1); S-4460.08 30.1G/5.0ML (Sig #2)
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:46:13 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5280

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5280.D(Signal #1) H5280.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 11:09 (#1); 12/28/11 11:33 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ6 (Sig #1); F4XQ6 (Sig #2)
Misc : S-4465.04 30.3G/5.0ML (Sig #1); S-4465.04 30.3G/5.0ML (Sig #2)
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:49:31 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.188	5.096	2736.2E6	2355.7E6	42.387	37.954
	Spiked Amount	60.000	Range 18 - 90		Recovery =	70.64%	63.26%
22)	S Decachlor...	13.754	13.055	3394.9E6	4407.8E6	90.572	84.507
	Spiked Amount	120.000	Range 36 - 180		Recovery =	75.48%	70.42%
	Target Compounds						

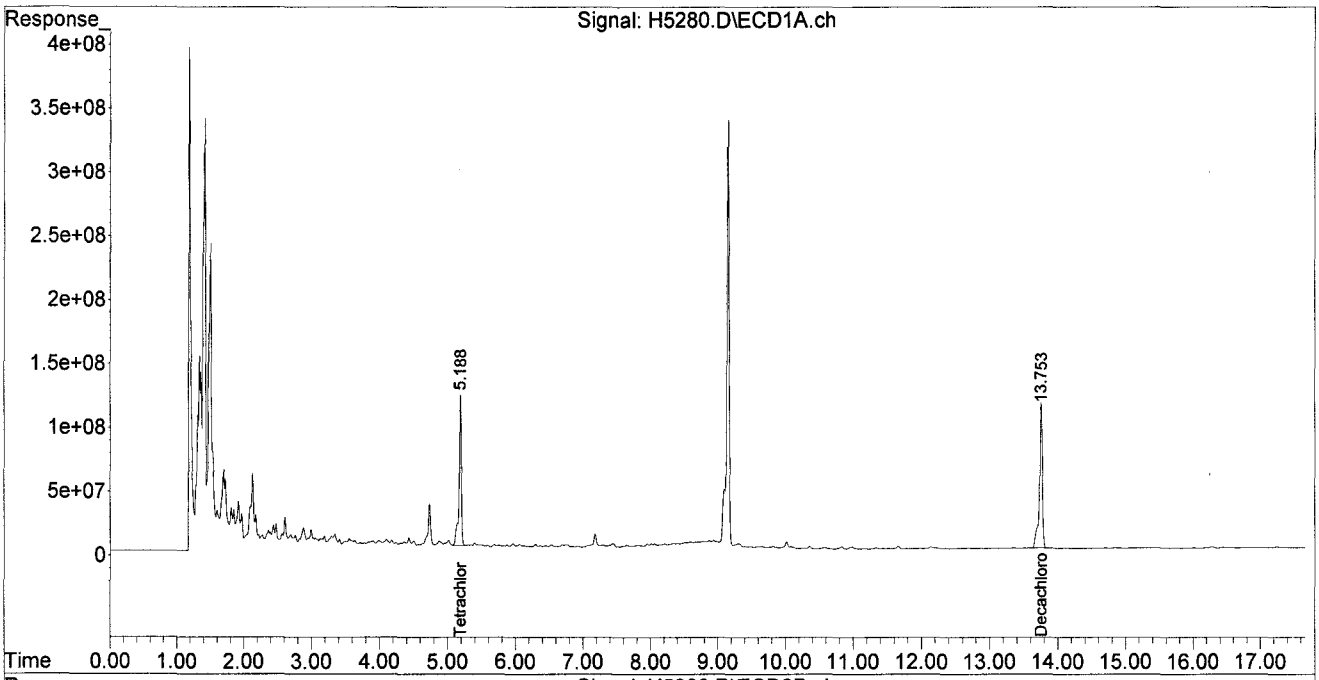
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

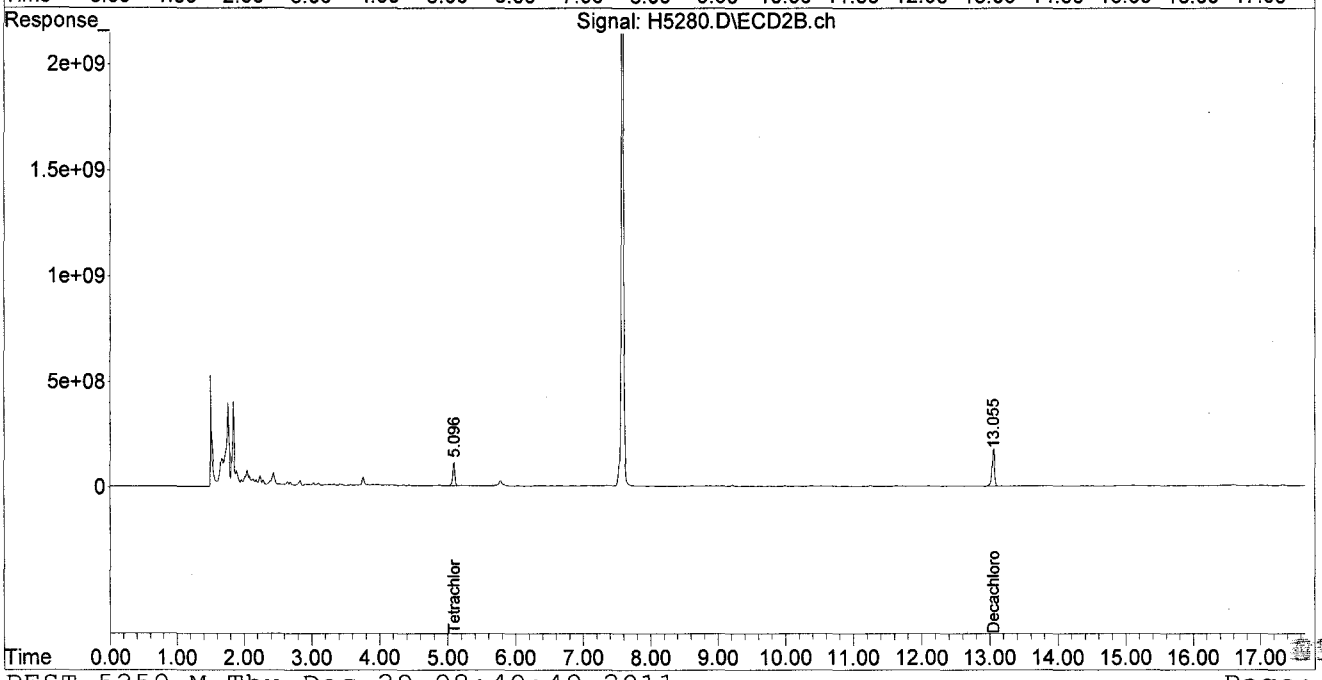
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5280.D(Signal #1) H5280.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 11:09 (#1); 12/28/11 11:33 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ6 (Sig #1); F4XQ6 (Sig #2)
Misc : S-4465.04 30.3G/5.0ML (Sig #1); S-4465.04 30.3G/5.0ML (Sig #2)
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:49:31 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5286

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	2.4	J
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	3.8	JP
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5286.D(Signal #1) H5286.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 13:34 (#1); 12/28/11 13:58 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 30.1G/5.0ML (Sig #1); S-4476.06 30.1G/5.0ML (Sig #2)
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:55:43 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1)	S Tetrachlo...	5.187	5.096	2885.3E6	2679.3E6	44.698	43.169	
	Spiked Amount 60.000	Range 18 - 90		Recovery =		74.50%	71.95%	
22)	S Decachlor...	13.754	13.056	3470.2E6	4545.5E6	92.582	87.147	
	Spiked Amount 120.000	Range 36 - 180		Recovery =		77.15%	72.62%	
	Target Compounds							
15)	4,4'-DDD	10.355f	10.001f	265.7E6	337.2E6	4.532	5.635	
17)	4,4'-DDT	10.834	10.379	437.3E6	495.1E6	7.171	10.064	#

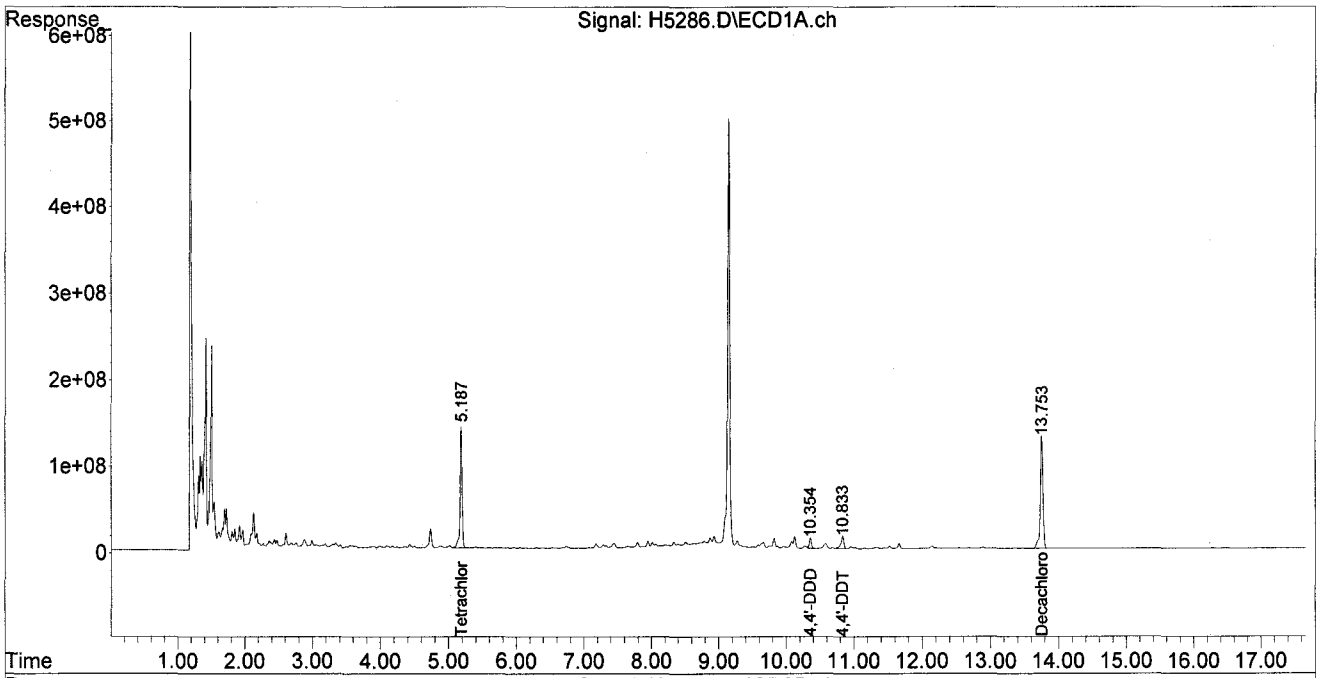
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

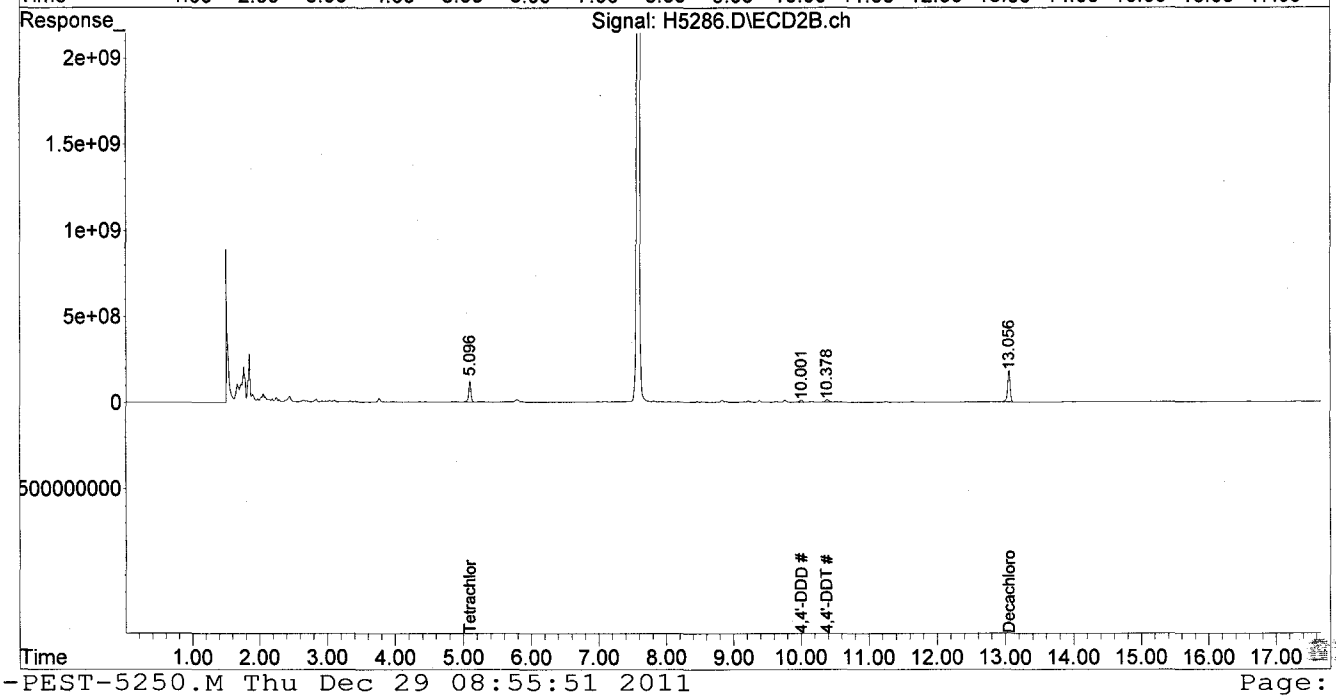
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5286.D(Signal #1) H5286.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 13:34 (#1); 12/28/11 13:58 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 30.1G/5.0ML (Sig #1); S-4476.06 30.1G/5.0ML (Sig #2)
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:55:43 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.07

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5287

% Moisture: 62 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.4	U
319-85-7	beta-BHC	4.4	U
319-86-8	delta-BHC	4.4	U
58-89-9	gamma-BHC (Lindane)	4.4	U
76-44-8	Heptachlor	4.4	U
309-00-2	Aldrin	4.4	U
1024-57-3	Heptachlor epoxide	4.4	U
959-98-8	Endosulfan I	4.4	U
60-57-1	Dieldrin	8.6	U
72-55-9	4,4'-DDE	8.6	U
72-20-8	Endrin	8.6	U
33213-65-9	Endosulfan II	8.6	U
72-54-8	4,4'-DDD	8.6	U
1031-07-8	Endosulfan sulfate	8.6	U
50-29-3	4,4'-DDT	2.1	J
72-43-5	Methoxychlor	44	U
53494-70-5	Endrin ketone	8.6	U
7421-93-4	Endrin aldehyde	8.6	U
5103-71-9	alpha-Chlordane	4.4	U
5103-74-2	gamma-Chlordane	4.4	U
8001-35-2	Toxaphene	440	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5287.D(Signal #1) H5287.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 13:58 (#1); 12/28/11 14:22 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ8 (Sig #1); F4XQ8 (Sig #2)
Misc : S-4476.07 30.3G/5.0ML (Sig #1); S-4476.07 30.3G/5.0ML (Sig #2)
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:56:35 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.187	5.095	3269.2E6	2846.3E6	50.645	45.860
	Spiked Amount	60.000	Range 18 - 90		Recovery =	84.41%	76.43%
22)	S Decachlor...	13.754	13.055	3741.3E6	4813.7E6	99.815	92.289
	Spiked Amount	120.000	Range 36 - 180		Recovery =	83.18%	76.91%
	Target Compounds						
17)	4,4'-DDT	10.826	10.411	150.4E6	150.0E6	2.466	3.049

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

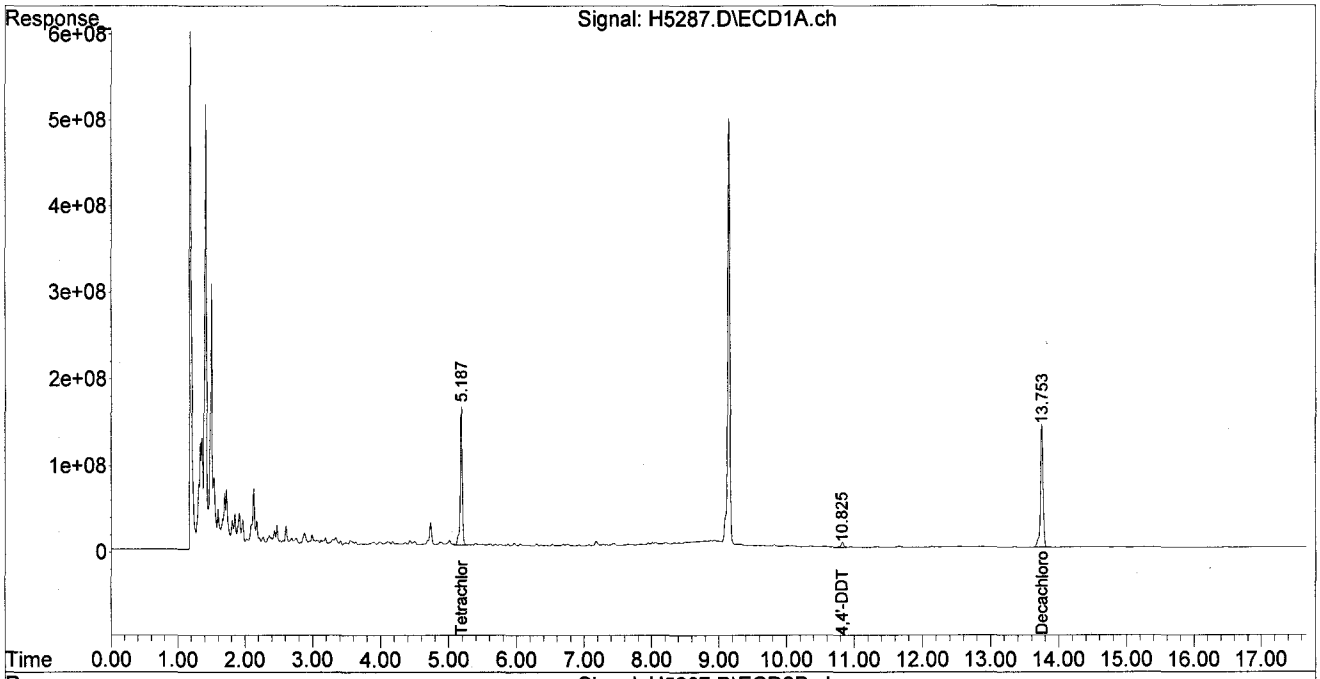
8372

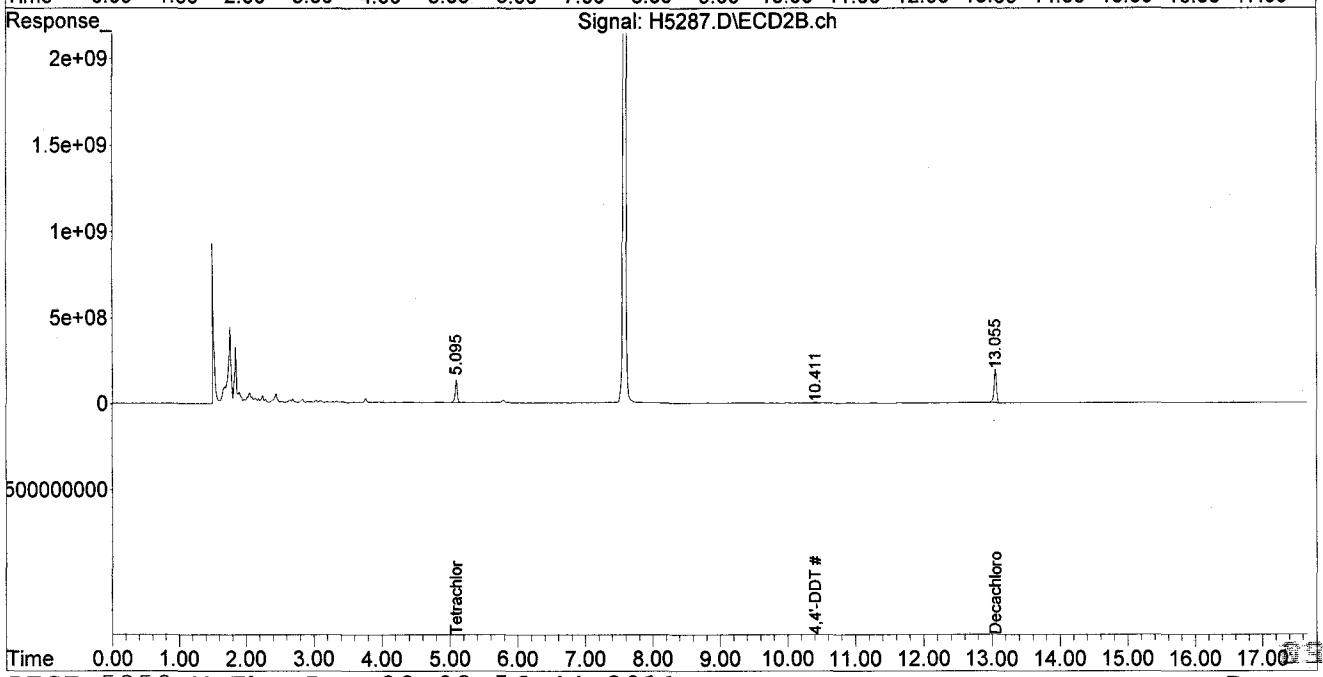
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5287.D(Signal #1) H5287.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 13:58 (#1); 12/28/11 14:22 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ8 (Sig #1); F4XQ8 (Sig #2)
Misc : S-4476.07 30.3G/5.0ML (Sig #1); S-4476.07 30.3G/5.0ML (Sig #2)
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:56:35 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.08

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5288

% Moisture: 45 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.1	U
319-85-7	beta-BHC	3.1	U
319-86-8	delta-BHC	3.1	U
58-89-9	gamma-BHC (Lindane)	3.1	U
76-44-8	Heptachlor	3.1	U
309-00-2	Aldrin	3.1	U
1024-57-3	Heptachlor epoxide	3.1	U
959-98-8	Endosulfan I	3.1	U
60-57-1	Dieldrin	6.0	U
72-55-9	4,4'-DDE	6.0	U
72-20-8	Endrin	6.0	U
33213-65-9	Endosulfan II	6.0	U
72-54-8	4,4'-DDD	6.0	U
1031-07-8	Endosulfan sulfate	6.0	U
50-29-3	4,4'-DDT	6.0	U
72-43-5	Methoxychlor	31	U
53494-70-5	Endrin ketone	6.0	U
7421-93-4	Endrin aldehyde	6.0	U
5103-71-9	alpha-Chlordane	3.1	U
5103-74-2	gamma-Chlordane	3.1	U
8001-35-2	Toxaphene	310	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5288.D(Signal #1) H5288.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 14:22 (#1); 12/28/11 14:46 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 30.1G/5.0ML (Sig #1); S-4476.08 30.1G/5.0ML (Sig #2)
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:57:18 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.187	5.096	3280.9E6	2950.4E6	50.825	47.537
Spiked Amount	60.000	Range 18 - 90	Recovery =		84.71%	79.23%
22) S Decachlor...	13.753	13.056	3705.5E6	4726.9E6	98.859	90.625
Spiked Amount	120.000	Range 36 - 180	Recovery =		82.38%	75.52%
Target Compounds						

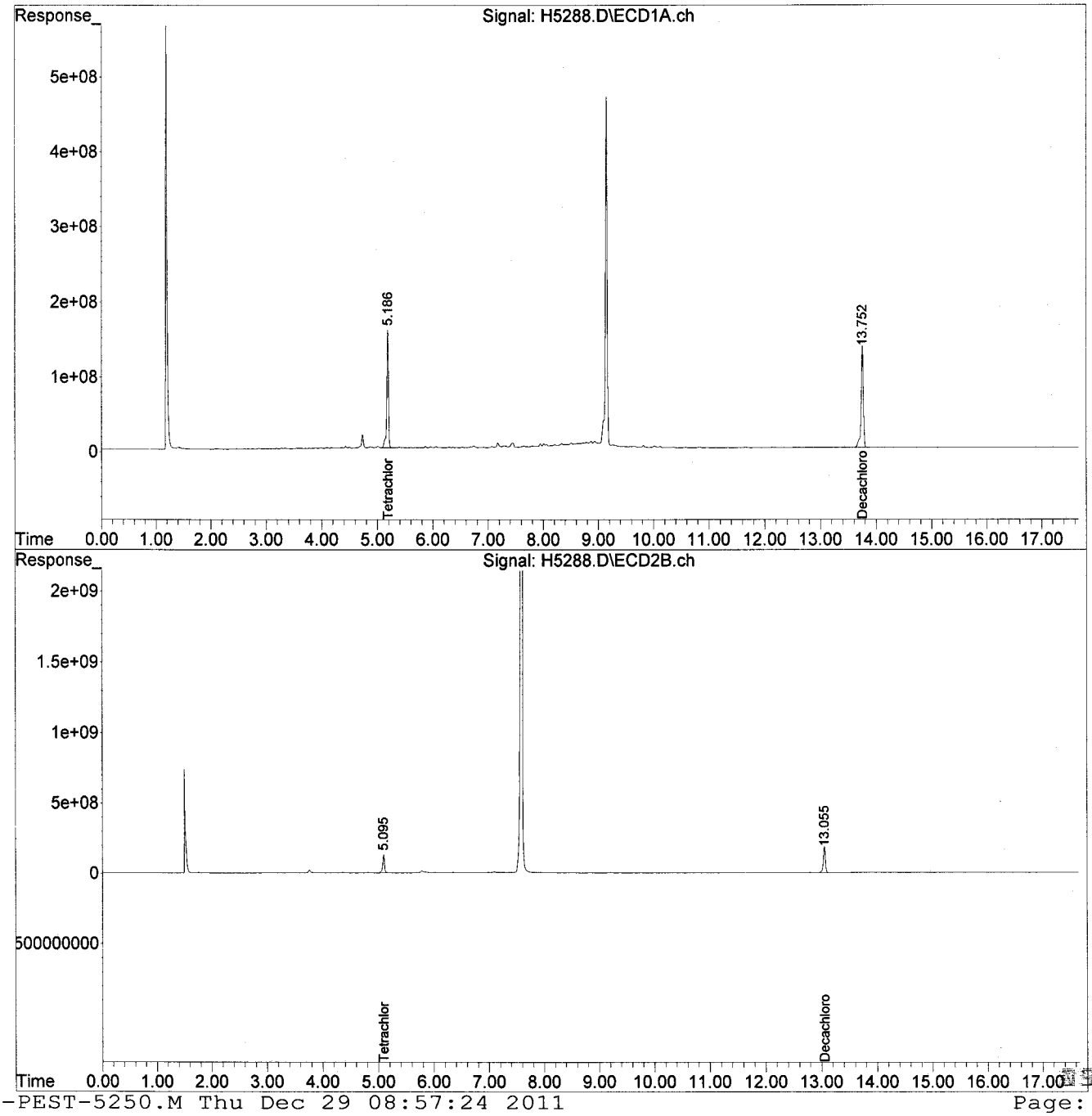
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5288.D(Signal #1) H5288.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 14:22 (#1); 12/28/11 14:46 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 30.1G/5.0ML (Sig #1); S-4476.08 30.1G/5.0ML (Sig #2)
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:57:18 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: H-7890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column (1): RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/27/2011 12/27/2011

	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
COMPOUND	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	6.30	6.30	6.29	6.30	6.30	6.30	6.25	6.35
beta-BHC	7.04	7.04	7.04	7.04	7.05	7.04	6.99	7.09
delta-BHC	7.51	7.51	7.51	7.51	7.51	7.51	7.46	7.56
gamma-BHC (Lindane)	6.90	6.90	6.90	6.90	6.90	6.90	6.85	6.95
Heptachlor	7.60	7.60	7.60	7.60	7.60	7.60	7.55	7.65
Aldrin	8.09	8.09	8.09	8.09	8.09	8.09	8.04	8.14
Heptachlor epoxide	8.93	8.93	8.93	8.93	8.93	8.93	8.86	9.00
Endosulfan I	9.48	9.48	9.48	9.48	9.48	9.48	9.41	9.55
Dieldrin	9.86	9.86	9.86	9.86	9.86	9.86	9.79	9.93
4,4'-DDE	9.63	9.63	9.63	9.63	9.63	9.63	9.56	9.70
Endrin	10.27	10.27	10.27	10.27	10.27	10.27	10.20	10.34
Endosulfan II	10.55	10.55	10.55	10.55	10.55	10.55	10.48	10.62
4,4'-DDD	10.41	10.41	10.41	10.41	10.41	10.41	10.34	10.48
Endosulfan sulfate	11.36	11.37	11.36	11.36	11.37	11.36	11.29	11.43
4,4'-DDT	10.82	10.82	10.82	10.82	10.83	10.82	10.75	10.89
Methoxychlor	11.70	11.70	11.70	11.70	11.71	11.70	11.63	11.77
Endrin ketone	12.08	12.08	12.08	12.08	12.08	12.08	12.01	12.15
Endrin aldehyde	11.00	11.00	11.00	11.00	11.00	11.00	10.93	11.07
alpha-Chlordane	9.40	9.40	9.40	9.40	9.40	9.40	9.33	9.47
gamma-Chlordane	9.20	9.20	9.20	9.20	9.20	9.20	9.13	9.27
TCX (A)	5.19	5.19	5.18	5.19	5.19	5.19	5.14	5.24
DCB (A)	13.75	13.75	13.75	13.75	13.75	13.75	13.65	13.85
TCX (B)								
DCB (B)								

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are $\pm$ 0.05 minutes for all compounds that elute before Heptachlor epoxide; $\pm$ 0.07 minutes for all other compounds (except $\pm$ 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6J - Form VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: H-7890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column (2): RTX-CLP ID 0.53 (mm) Date(s) Analyzed: 12/27/2011 12/27/2011

	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
COMPOUND	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	6.08	6.08	6.08	6.08	6.08	6.08	6.03	6.13
beta-BHC	6.78	6.77	6.77	6.78	6.77	6.77	6.72	6.82
delta-BHC	7.06	7.06	7.06	7.06	7.06	7.06	7.01	7.11
gamma-BHC (Lindane)	6.62	6.62	6.62	6.62	6.62	6.62	6.57	6.67
Heptachlor	7.39	7.39	7.39	7.39	7.39	7.39	7.34	7.44
Aldrin	7.85	7.85	7.85	7.85	7.85	7.85	7.80	7.90
Heptachlor epoxide	8.74	8.74	8.74	8.74	8.74	8.74	8.67	8.81
Endosulfan I	9.30	9.30	9.30	9.30	9.30	9.30	9.23	9.37
Dieldrin	9.63	9.63	9.63	9.63	9.63	9.63	9.56	9.70
4,4'-DDE	9.23	9.23	9.23	9.23	9.23	9.23	9.16	9.30
Endrin	9.95	9.95	9.95	9.95	9.95	9.95	9.88	10.02
Endosulfan II	10.25	10.25	10.25	10.25	10.25	10.25	10.18	10.32
4,4'-DDD	10.04	10.04	10.04	10.04	10.04	10.04	9.97	10.11
Endosulfan sulfate	11.39	11.39	11.39	11.39	11.39	11.39	11.32	11.46
4,4'-DDT	10.41	10.41	10.41	10.41	10.41	10.41	10.34	10.48
Methoxychlor	11.04	11.04	11.04	11.04	11.04	11.04	10.97	11.11
Endrin ketone	11.76	11.76	11.76	11.76	11.76	11.76	11.69	11.83
Endrin aldehyde	10.81	10.81	10.81	10.81	10.81	10.81	10.74	10.88
alpha-Chlordane	9.11	9.11	9.11	9.11	9.11	9.11	9.04	9.18
gamma-Chlordane	8.92	8.92	8.92	8.92	8.92	8.92	8.85	8.99
TCX (A)	5.10	5.10	5.10	5.10	5.10	5.10	5.05	5.15
DCB (A)	13.06	13.06	13.06	13.06	13.06	13.06	12.96	13.16
TCX (B)								
DCB (B)								

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are $\pm$ 0.05 minutes for all compounds that elute before Heptachlor epoxide; $\pm$ 0.07 minutes for all other compounds (except $\pm$ 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: H-7890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column (1): RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/27/2011 12/27/2011

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	99899887800	103215509800	104251962800	109784644325	109524699763	4.04
beta-BHC	41117269200	41036361300	37555273250	36642813075	35073498500	7.05
delta-BHC	93969115600	97354365900	96032242800	98477753925	99121376163	2.12
gamma-BHC (Lindane)	94913199400	97625870400	98773314450	101611222750	100428467775	2.63
Heptachlor	88466560600	90368406200	88346653700	91039246250	88960586250	1.35
Aldrin	82833571800	84995358500	83370036000	86153329350	84580049175	1.56
Heptachlor epoxide	76234704400	76075518100	75161547400	76751870300	75567590388	.81
Endosulfan I	66970705400	66251579400	65630166900	66397665900	64779583475	1.27
Dieldrin	72655142600	74946491600	74525683575	77610497800	76537327613	2.54
4,4'-DDE	67970105100	70692655650	70737773225	73598029588	72955966819	3.12
Endrin	66227808700	69432217400	69390783175	70726905300	69833117131	2.47
Endosulfan II	61358980900	62669830250	61554115000	63328707700	62576455731	1.32
4,4'-DDD	55862180800	57471841850	59238302675	60239202238	60303162006	3.28
Endosulfan sulfate	57008410900	57321390950	55999348575	57704615725	57604160388	1.20
4,4'-DDT	58329526400	60107465850	60030661825	62942769125	63496521563	3.56
Methoxychlor	29746130640	29299445700	29092605990	29926757348	30309873820	1.64
Endrin ketone	64218209000	64207338100	62583111850	65392468575	65373451756	1.79
Endrin aldehyde	52566395300	51416015900	49811682200	50640224638	49869907931	2.27
alpha-Chlordane	74701760200	76508503800	73866380850	74173801700	73362279675	1.63
gamma-Chlordane	75177062600	76857014800	74159963650	76034084275	75531720363	1.33
Tetrachloro-m-xylene	69630869800	66598556300	63765076800	62030602800	60734546575	5.56
Decachlorobiphenyl	40849101200	39131076300	36323482125	35908680588	35200106406	6.41

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6K - Form VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID: H-7890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column (2): RTX-CLP ID 0.53 (mm) Date(s) Analyzed: 12/27/2011 12/27/2011

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	94671566800	96989272500	101118050400	94739727625	110092550688	6.49
beta-BHC	39028554000	36824267900	35598900450	31699454550	34274563963	7.74
delta-BHC	85462970000	88936874400	92246902850	86979534500	99392251638	6.10
gamma-BHC (Lindane)	92020925600	92675269000	95982973000	88694882275	101950769050	5.32
Heptachlor	81694121600	81183611700	83891831300	75991682050	86755565763	4.85
Aldrin	85677747600	84760180500	86089165550	78210432825	87032519838	4.18
Heptachlor epoxide	81757812400	79826341800	80257381700	73023390175	79194143988	4.28
Endosulfan I	78466878000	76103277000	74540208350	68126912775	72959015063	5.24
Dieldrin	80341099700	79564670250	80505695875	73813182450	79357484244	3.54
4,4'-DDE	69518192400	70413111400	72026393025	66383150413	71566778606	3.20
Endrin	54229173300	55513564200	58474268925	53692138200	60255863213	5.01
Endosulfan II	67587747900	66127208600	65183795725	62068417813	66556655313	3.22
4,4'-DDD	59379407700	59680451300	60112992200	58141050538	61874910838	2.26
Endosulfan sulfate	62526343800	60383048000	59946664675	55761851063	60460808988	4.14
4,4'-DDT	42575626000	44869780300	50437217400	48890823538	59181093281	13.01
Methoxychlor	26364119720	26240534590	27280985025	24791569043	28153589871	4.73
Endrin ketone	83608320600	80908741800	79822508050	73696025263	78242471613	4.63
Endrin aldehyde	58363820600	56463924600	56169569125	51493738850	55323827613	4.56
alpha-Chlordane	78639140000	76634680600	75037143550	67121140175	76054799113	5.94
gamma-Chlordane	83109211800	80250699800	80200573650	73452399050	80357502775	4.51
Tetrachloro-m-xylene	66125180000	63745357400	62945552350	56156482075	61356071638	6.00
Decachlorobiphenyl	58288328300	54051216400	51609602075	46867895088	49977161756	8.26

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6L - FORM VI PEST-3

TOXAPHENE INITIAL CALIBRATION

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID (1): H-7890A Date(s) Analyzed (1): 12/27/2011

GC Column (1): RTX-CLP2 ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

		RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
COMPOUND	PEAK [1]	CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	10.19	10.19	10.19	10.19	10.19	10.19	10.12	10.26
	2	10.77	10.77	10.77	10.77	10.77	10.77	10.70	10.84
	3	11.69	11.69	11.69	11.69	11.69	11.69	11.62	11.76
	4								
	5								

Instrument ID (2): H-7890B Date(s) Analyzed (2): 12/27/2011

GC Column (2): RTX-CLP ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

		RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
COMPOUND	PEAK [1]	CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	9.88	9.89	9.89	9.89	9.88	9.88	9.81	9.95
	2	10.33	10.34	10.33	10.33	10.33	10.33	10.26	10.40
	3	11.26	11.26	11.26	11.26	11.26	11.26	11.19	11.33
	4								
	5								

[1] At least three peaks for each column are required for identification of Toxaphene.

6M - FORM VI PEST-4

TOXAPHENE INITIAL CALIBRATION

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Instrument ID (1): H-7890A Date(s) Analyzed (1): 12/27/2011

GC Column (1): RTX-CLP2 ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

COMP-OUND	PEAK [1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	2438010076	2523417268	2456376391	2785961275	2571794969	5.47
	2	1701368880	1817934420	1756733644	1984650674	1844655591	5.88
	3	2750173602	3029902945	2915248087	3367390193	3139966786	7.66
	4						
	5						

Instrument ID (2): H-7890B Date(s) Analyzed (2): 12/27/2011

GC Column (2): RTX-CLP ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

COMP-OUND	PEAK [1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	2110531156	2252884887	2095408216	2378559860	2116292124	5.60
	2	2714179026	2787511848	2702630631	3133377684	2779574751	6.28
	3	3138386226	3413011001	3266844691	3801029219	3468356747	7.32
	4						
	5						

[1] At least three peaks for each column are required for identification of Toxaphene.

6R - FORM VI PEST-5
PESTICIDE RESOLUTION CHECK SUMMARY
COLUMN 1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) Instrument ID (1): H-7890A

EPA Sample No. (RESC##): RESC11 Lab Sample ID (1): RESC11

Date Analyzed (1): 12/27/2011 Time Analyzed (1): 1858

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.19	100.00
02	alpha-BHC	6.30	100.00
03	gamma-BHC (Lindane)	6.90	99.37
04	beta-BHC	7.05	100.00
05	delta-BHC	7.51	94.76
06	Heptachlor	7.60	100.00
07	Aldrin	8.10	100.00
08	Heptachlor epoxide	8.93	100.00
09	gamma-Chlordane	9.20	100.00
10	alpha-Chlordane	9.41	93.18
11	Endosulfan I	9.48	100.00
12	4,4'-DDE	9.63	100.00
13	Dieldrin	9.86	100.00
14	Endrin	10.27	99.07
15	4,4'-DDD	10.41	99.65
16	Endosulfan II	10.56	100.00
17	4,4'-DDT	10.83	100.00
18	Endrin aldehyde	11.00	100.00
19	Endosulfan sulfate	11.37	100.00
20	Methoxychlor	11.71	100.00
21	Endrin ketone	12.08	100.00
22	Decachlorobiphenyl	13.75	

6T - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (2): RTX-CLP ID: 0.53 (mm) Instrument ID (2): H-7890B

EPA Sample No. (RESC##): RESC12 Lab Sample ID (2): RESC12

Date Analyzed (2): 12/27/2011 Time Analyzed (2): 1922

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.10	100.00
02	alpha-BHC	6.08	100.00
03	gamma-BHC (Lindane)	6.62	100.00
04	beta-BHC	6.77	100.00
05	delta-BHC	7.06	100.00
06	Heptachlor	7.38	100.00
07	Aldrin	7.85	100.00
08	Heptachlor epoxide	8.74	99.94
09	gamma-Chlordane	8.92	100.00
10	alpha-Chlordane	9.11	99.69
11	4,4'-DDE	9.23	74.65
12	Endosulfan I	9.30	100.00
13	Dieldrin	9.63	100.00
14	Endrin	9.95	98.24
15	4,4'-DDD	10.04	99.47
16	Endosulfan II	10.25	100.00
17	4,4'-DDT	10.41	100.00
18	Endrin aldehyde	10.81	100.00
19	Methoxychlor	11.04	100.00
20	Endosulfan sulfate	11.39	100.00
21	Endrin ketone	11.76	100.00
22	Decachlorobiphenyl	13.05	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) Instrument ID (1): H-7890A

EPA Sample No. (RESC##): PEM11 Lab Sample ID (1): PEM11

Date Analyzed (1): 12/27/2011 Time Analyzed (1): 1922

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.19	100.00
02	alpha-BHC	6.30	100.00
03	gamma-BHC (Lindane)	6.90	100.00
04	beta-BHC	7.04	100.00
05	Endrin	10.27	100.00
06	4,4'-DDT	10.82	100.00
07	Methoxychlor	11.71	100.00
08	Decachlorobiphenyl	13.75	

GC Column (2): RTX-CLP ID: 0.53 (mm) Instrument ID (2): H-7890B

EPA Sample No. (RESC##): PEM12 Lab Sample ID (2): PEM12

Date Analyzed (2): 12/27/2011 Time Analyzed (2): 1946

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.10	100.00
02	alpha-BHC	6.08	100.00
03	gamma-BHC (Lindane)	6.62	100.00
04	beta-BHC	6.77	100.00
05	Endrin	9.95	100.00
06	4,4'-DDT	10.41	100.00
07	Methoxychlor	11.04	100.00
08	Decachlorobiphenyl	13.05	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) Instrument ID (1): H-7890A

EPA Sample No. (RESC##): PEM21 Lab Sample ID (1): PEM21

Date Analyzed (1): 12/28/2011 Time Analyzed (1): 0011

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.19	100.00
02	alpha-BHC	6.30	100.00
03	gamma-BHC (Lindane)	6.90	100.00
04	beta-BHC	7.04	100.00
05	Endrin	10.27	100.00
06	4,4'-DDT	10.82	100.00
07	Methoxychlor	11.70	100.00
08	Decachlorobiphenyl	13.75	

GC Column (2): RTX-CLP ID: 0.53 (mm) Instrument ID (2): H-7890B

EPA Sample No. (RESC##): PEM22 Lab Sample ID (2): PEM22

Date Analyzed (2): 12/28/2011 Time Analyzed (2): 0035

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.10	100.00
02	alpha-BHC	6.08	100.00
03	gamma-BHC (Lindane)	6.62	100.00
04	beta-BHC	6.78	100.00
05	Endrin	9.95	100.00
06	4,4'-DDT	10.41	100.00
07	Methoxychlor	11.04	100.00
08	Decachlorobiphenyl	13.06	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) Instrument ID (1): H-7890A

EPA Sample No. (RESC##): PEM31 Lab Sample ID (1): PEM31

Date Analyzed (1): 12/28/2011 Time Analyzed (1): 1622

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.19	100.00
02	alpha-BHC	6.30	100.00
03	gamma-BHC (Lindane)	6.90	100.00
04	beta-BHC	7.05	100.00
05	Endrin	10.27	100.00
06	4,4'-DDT	10.83	100.00
07	Methoxychlor	11.71	100.00
08	Decachlorobiphenyl	13.76	

GC Column (2): RTX-CLP ID: 0.53 (mm) Instrument ID (2): H-7890B

EPA Sample No. (RESC##): PEM32 Lab Sample ID (2): PEM32

Date Analyzed (2): 12/28/2011 Time Analyzed (2): 1647

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.10	100.00
02	alpha-BHC	6.08	100.00
03	gamma-BHC (Lindane)	6.62	100.00
04	beta-BHC	6.77	100.00
05	Endrin	9.95	100.00
06	4,4'-DDT	10.41	100.00
07	Methoxychlor	11.04	100.00
08	Decachlorobiphenyl	13.06	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) Instrument ID (1) H-7890A

EPA Sample No. (INDC##): INDC311 Lab Sample ID (1): INDC311

Date Analyzed (1): 12/27/2011 Time Analyzed (1): 2235

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.18	100.00
02	alpha-BHC	6.29	100.00
03	gamma-BHC (Lindane)	6.90	98.57
04	beta-BHC	7.04	100.00
05	delta-BHC	7.51	97.16
06	Heptachlor	7.60	100.00
07	Aldrin	8.09	100.00
08	Heptachlor epoxide	8.93	100.00
09	gamma-Chlordane	9.20	100.00
10	alpha-Chlordane	9.40	94.01
11	Endosulfan I	9.48	100.00
12	4,4'-DDE	9.63	100.00
13	Dieldrin	9.86	100.00
14	Endrin	10.27	98.84
15	4,4'-DDD	10.41	98.75
16	Endosulfan II	10.55	100.00
17	4,4'-DDT	10.82	100.00
18	Endrin aldehyde	11.00	100.00
19	Endosulfan sulfate	11.36	100.00
20	Methoxychlor	11.70	100.00
21	Endrin ketone	12.08	100.00
22	Decachlorobiphenyl	13.75	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) Instrument ID (1) H-7890A

EPA Sample No. (INDC##): INDC321 Lab Sample ID (1): INDC321

Date Analyzed (1): 12/28/2011 Time Analyzed (1): 0524

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.19	100.00
02	alpha-BHC	6.30	100.00
03	gamma-BHC (Lindane)	6.90	99.63
04	beta-BHC	7.05	100.00
05	delta-BHC	7.51	98.01
06	Heptachlor	7.60	100.00
07	Aldrin	8.09	100.00
08	Heptachlor epoxide	8.93	100.00
09	gamma-Chlordane	9.20	100.00
10	alpha-Chlordane	9.40	94.79
11	Endosulfan I	9.48	100.00
12	4,4'-DDE	9.63	100.00
13	Dieldrin	9.86	100.00
14	Endrin	10.27	99.53
15	4,4'-DDD	10.41	99.74
16	Endosulfan II	10.55	100.00
17	4,4'-DDT	10.83	100.00
18	Endrin aldehyde	11.00	100.00
19	Endosulfan sulfate	11.37	100.00
20	Methoxychlor	11.71	100.00
21	Endrin ketone	12.08	100.00
22	Decachlorobiphenyl	13.75	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (2): RTX-CLP ID: 0.53 (mm) Instrument ID (2): H-7890B

EPA Sample No. (INDC##): INDC312 Lab Sample ID (2): INDC312

Date Analyzed (2): 12/27/2011 Time Analyzed (2): 2259

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.10	100.00
02	alpha-BHC	6.08	100.00
03	gamma-BHC (Lindane)	6.62	99.97
04	beta-BHC	6.77	100.00
05	delta-BHC	7.06	100.00
06	Heptachlor	7.39	100.00
07	Aldrin	7.85	100.00
08	Heptachlor epoxide	8.74	100.00
09	gamma-Chlordane	8.92	100.00
10	alpha-Chlordane	9.11	99.34
11	4,4'-DDE	9.23	73.86
12	Endosulfan I	9.30	100.00
13	Dieldrin	9.63	100.00
14	Endrin	9.95	98.18
15	4,4'-DDD	10.04	100.00
16	Endosulfan II	10.25	99.77
17	4,4'-DDT	10.41	100.00
18	Endrin aldehyde	10.81	99.98
19	Methoxychlor	11.04	100.00
20	Endosulfan sulfate	11.39	100.00
21	Endrin ketone	11.76	100.00
22	Decachlorobiphenyl	13.06	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column (2): RTX-CLP ID: 0.53 (mm) Instrument ID (2): H-7890B

EPA Sample No. (INDC##): INDC322 Lab Sample ID (2): INDC322

Date Analyzed (2): 12/28/2011 Time Analyzed (2): 0548

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.10	100.00
02	alpha-BHC	6.08	100.00
03	gamma-BHC (Lindane)	6.62	100.00
04	beta-BHC	6.78	100.00
05	delta-BHC	7.06	100.00
06	Heptachlor	7.39	100.00
07	Aldrin	7.85	100.00
08	Heptachlor epoxide	8.75	100.00
09	gamma-Chlordane	8.92	100.00
10	alpha-Chlordane	9.11	98.91
11	4,4'-DDE	9.23	75.19
12	Endosulfan I	9.30	100.00
13	Dieldrin	9.63	100.00
14	Endrin	9.95	96.55
15	4,4'-DDD	10.04	99.29
16	Endosulfan II	10.25	100.00
17	4,4'-DDT	10.42	100.00
18	Endrin aldehyde	10.81	100.00
19	Methoxychlor	11.05	100.00
20	Endosulfan sulfate	11.39	100.00
21	Endrin ketone	11.76	100.00
22	Decachlorobiphenyl	13.06	

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): _____ Date Analyzed: _____

Lab Sample ID(PIBLK): _____ Time Analyzed: _____

EPA Sample No.(PEM##): PEM11 Date Analyzed: 12/27/2011

Lab Sample ID(PEM): PEM11 Time Analyzed: 1922

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	6.295	6.25	6.35	0.009	0.010	-11.4
beta-BHC	7.044	6.99	7.09	0.010	0.010	2.9
gamma-BHC (Lindane)	6.897	6.85	6.95	0.009	0.010	-8.7
Endrin	10.273	10.20	10.34	0.047	0.050	-5.8
4,4'-DDT	10.824	10.75	10.89	0.099	0.100	-1.2
Methoxychlor	11.705	11.63	11.77	0.234	0.250	-6.3
TCX	5.185	5.14	5.24	0.018	0.020	-11.3
DCB	13.753	13.65	13.85	0.019	0.020	-5.2

4,4'-DDT % Breakdown (1): 0.0 Endrin % breakdown (1): 3.1

Combined % Breakdown (1): 3.1

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): _____ Date Analyzed: _____

Lab Sample ID(PIBLK): _____ Time Analyzed: _____

EPA Sample No.(PEM##): PEM12 Date Analyzed: 12/27/2011

Lab Sample ID(PEM): PEM12 Time Analyzed: 1946

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	6.082	6.03	6.13	0.009	0.010	-6.8
beta-BHC	6.774	6.72	6.82	0.010	0.010	3.9
gamma-BHC (Lindane)	6.619	6.57	6.67	0.010	0.010	-3.2
Endrin	9.947	9.88	10.02	0.057	0.050	13.2
4,4'-DDT	10.412	10.34	10.48	0.124	0.100	23.9
Methoxychlor	11.042	10.97	11.11	0.274	0.250	9.4
TCX	5.095	5.05	5.15	0.019	0.020	-7.5
DCB	13.053	12.96	13.16	0.019	0.020	-4.1

4,4'-DDT % Breakdown (2): 2.4 Endrin % breakdown (2): 11.5

Combined % Breakdown (2): 13.9

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): PIBLK11 Date Analyzed: 12/27/2011

Lab Sample ID(PIBLK): PIBLK11 Time Analyzed: 2347

EPA Sample No.(PEM##): PEM21 Date Analyzed: 12/28/2011

Lab Sample ID(PEM): PEM21 Time Analyzed: 0011

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	6.295	6.25	6.35	0.010	0.010	-3.5
beta-BHC	7.044	6.99	7.09	0.011	0.010	7.3
gamma-BHC (Lindane)	6.897	6.85	6.95	0.010	0.010	-0.9
Endrin	10.271	10.20	10.34	0.051	0.050	1.0
4,4'-DDT	10.822	10.75	10.89	0.106	0.100	5.8
Methoxychlor	11.703	11.63	11.77	0.251	0.250	0.4
TCX	5.185	5.14	5.24	0.019	0.020	-4.4
DCB	13.751	13.65	13.85	0.020	0.020	0.9

4,4'-DDT % Breakdown (1): 0.0 Endrin % breakdown (1): 3.9

Combined % Breakdown (1): 3.9

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): PIBLK12 Date Analyzed: 12/28/2011

Lab Sample ID(PIBLK): PIBLK12 Time Analyzed: 0011

EPA Sample No.(PEM##): PEM22 Date Analyzed: 12/28/2011

Lab Sample ID(PEM): PEM22 Time Analyzed: 0035

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	6.083	6.03	6.13	0.010	0.010	-1.8
beta-BHC	6.775	6.72	6.82	0.011	0.010	7.4
gamma-BHC (Lindane)	6.62	6.57	6.67	0.010	0.010	0.9
Endrin	9.949	9.88	10.02	0.051	0.050	1.3
4,4'-DDT	10.413	10.34	10.48	0.119	0.100	18.6
Methoxychlor	11.044	10.97	11.11	0.270	0.250	8.2
TCX	5.097	5.05	5.15	0.019	0.020	-3.5
DCB	13.055	12.96	13.16	0.021	0.020	2.7

4,4'-DDT % Breakdown (2): 3.7 Endrin % breakdown (2): 20.1

Combined % Breakdown (2): 23.8

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): PIBLK31 Date Analyzed: 12/28/2011

Lab Sample ID(PIBLK): PIBLK31 Time Analyzed: 1558

EPA Sample No.(PEM##): PEM31 Date Analyzed: 12/28/2011

Lab Sample ID(PEM): PEM31 Time Analyzed: 1622

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	6.298	6.25	6.35	0.009	0.010	-5.9
beta-BHC	7.047	6.99	7.09	0.010	0.010	4.0
gamma-BHC (Lindane)	6.9	6.85	6.95	0.010	0.010	-3.6
Endrin	10.274	10.20	10.34	0.045	0.050	-10.0
4,4'-DDT	10.827	10.75	10.89	0.097	0.100	-3.4
Methoxychlor	11.707	11.63	11.77	0.234	0.250	-6.5
TCX	5.189	5.14	5.24	0.019	0.020	-6.2
DCB	13.756	13.65	13.85	0.019	0.020	-4.4

4,4'-DDT % Breakdown (1): 0.9 Endrin % breakdown (1): 3.3

Combined % Breakdown (1): 4.2

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): PIBLK32 Date Analyzed: 12/28/2011

Lab Sample ID(PIBLK): PIBLK32 Time Analyzed: 1622

EPA Sample No.(PEM##): PEM32 Date Analyzed: 12/28/2011

Lab Sample ID(PEM): PEM32 Time Analyzed: 1647

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	6.082	6.03	6.13	0.010	0.010	-1.8
beta-BHC	6.774	6.72	6.82	0.011	0.010	8.4
gamma-BHC (Lindane)	6.619	6.57	6.67	0.010	0.010	1.0
Endrin	9.948	9.88	10.02	0.052	0.050	3.4
4,4'-DDT	10.413	10.34	10.48	0.116	0.100	16.3
Methoxychlor	11.043	10.97	11.11	0.264	0.250	5.5
TCX	5.096	5.05	5.15	0.020	0.020	-1.7
DCB	13.055	12.96	13.16	0.018	0.020	-8.6

4,4'-DDT % Breakdown (2): 2.7 Endrin % breakdown (2): 5.0

Combined % Breakdown (2): 7.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): PIBLK21 Date Analyzed: 12/28/2011

Lab Sample ID(PIBLK): PIBLK21 Time Analyzed: 0500

EPA Sample No.(INDC3##): INDC321 Date Analyzed: 12/28/2011

Lab Sample ID(INDC3): INDC321 Time Analyzed: 0524

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	6.297	6.25	6.35	105335340898	114317706350	8.5
gamma-BHC (Lindane)	6.898	6.85	6.95	98670414955	105972495850	7.4
Heptachlor	7.603	7.55	7.65	89436290600	93992759850	5.1
Endosulfan I	9.483	9.41	9.55	66005940215	65077513850	-1.4
Dieldrin	9.859	9.79	9.93	75255028638	73059834450	-2.9
Endrin	10.273	10.20	10.34	69122166341	65283965400	-5.6
4,4'-DDD	10.407	10.34	10.48	58622937914	55211450350	-5.8
4,4'-DDT	10.825	10.75	10.89	60981388953	56249604350	-7.8
Methoxychlor	11.705	11.63	11.77	29674962700	28602980935	-3.6
beta-BHC	7.045	6.99	7.09	38285043065	40345573000	5.4
delta-BHC	7.508	7.46	7.56	96990970878	100259989050	3.4
Aldrin	8.094	8.04	8.14	84386468965	86662018600	2.7
Heptachlor epoxide	8.931	8.86	9.00	75958246118	75103385500	-1.1
4,4'-DDE	9.632	9.56	9.70	71190906076	69739377850	-2.0
Endosulfan II	10.554	10.48	10.62	62297617916	58306968850	-6.4
Endosulfan sulfate	11.365	11.29	11.43	57127585308	53391336500	-6.5
Endrin ketone	12.077	12.01	12.15	64354915856	61506992375	-4.4
Endrin aldehyde	10.999	10.93	11.07	50860845194	46687895275	-8.2
alpha-Chlordane	9.404	9.33	9.47	74522545245	71140828400	-4.5
gamma-Chlordane	9.2	9.13	9.27	75551969138	73698874650	-2.5
TCX	5.187	5.14	5.24	64551930455	70216731550	8.8
DCB	13.753	13.65	13.85	37482489324	35930433825	-4.1

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/27/2011 12/28/2011

EPA Sample No.(PIBLK##): PIBLK22 Date Analyzed: 12/28/2011

Lab Sample ID(PIBLK): PIBLK22 Time Analyzed: 0524

EPA Sample No.(INDC##): INDC322 Date Analyzed: 12/28/2011

Lab Sample ID(INDC): INDC322 Time Analyzed: 0548

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	6.084	6.03	6.13	99522233603	101176284600	1.7
gamma-BHC (Lindane)	6.621	6.57	6.67	94264963785	96197415650	2.1
Heptachlor	7.387	7.34	7.44	81903362483	85471622450	4.4
Endosulfan I	9.3	9.23	9.37	74039258238	64304324850	-13.1
Dieldrin	9.633	9.56	9.70	78716426504	72481109075	-7.9
Endrin	9.95	9.88	10.02	56433001568	54823322200	-2.9
4,4'-DDD	10.043	9.97	10.11	59837762515	52311152000	-12.6
4,4'-DDT	10.415	10.34	10.48	49190908104	46505673225	-5.5
Methoxychlor	11.045	10.97	11.11	26566159650	25477630700	-4.1
beta-BHC	6.775	6.72	6.82	35485148173	36248429300	2.2
delta-BHC	7.058	7.01	7.11	90603706678	92343144250	1.9
Aldrin	7.848	7.80	7.90	84354009263	81825705200	-3.0
Heptachlor epoxide	8.745	8.67	8.81	78811814013	74904018400	-5.0
4,4'-DDE	9.231	9.16	9.30	69981525169	66235726100	-5.4
Endosulfan II	10.253	10.18	10.32	65504765070	58524295350	-10.7
Endosulfan sulfate	11.388	11.32	11.46	59815743305	51129796875	-14.5
Endrin ketone	11.762	11.69	11.83	79255613465	64183987750	-19.0
Endrin aldehyde	10.812	10.74	10.88	55562976158	47155616000	-15.1
alpha-Chlordane	9.112	9.04	9.18	74697380688	68366592900	-8.5
gamma-Chlordane	8.924	8.85	8.99	79474077415	74342607300	-6.5
TCX	5.098	5.05	5.15	62065728693	62916722600	1.4
DCB	13.057	12.96	13.16	52158840724	45584113225	-12.6

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s): 12/27/2011 12/28/2011

Instrument ID: H-7890A

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.19 DCB: 13.75

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	H5241	12/27/2011	18:58	5.19	13.75
02	PEM11	H5242	12/27/2011	19:22	5.19	13.75
03	TOXAPH111	H5243	12/27/2011	19:46	5.19	13.75
04	TOXAPH211	H5244	12/27/2011	20:10	5.19	13.75
05	TOXAPH311	H5245	12/27/2011	20:34	5.19	13.75
06	TOXAPH411	H5246	12/27/2011	20:58	5.19	13.75
07	TOXAPH511	H5247	12/27/2011	21:23	5.19	13.75
08	INDC111	H5248	12/27/2011	21:47	5.19	13.75
09	INDC211	H5249	12/27/2011	22:11	5.19	13.75
10	INDC311	H5250	12/27/2011	22:35	5.18	13.75
11	INDC411	H5251	12/27/2011	22:59	5.19	13.75
12	INDC511	H5252	12/27/2011	23:23	5.19	13.75
13	PIBLK11	H5253	12/27/2011	23:47	5.19	13.75
14	PEM21	H5254	12/28/2011	00:11	5.19	13.75
15	GPCBLK57	H5255	12/28/2011	00:35	0.00 *	0.00 *
16	GPCPEST57	H5256	12/28/2011	00:59	0.00 *	0.00 *
17	PBLK57	H5257	12/28/2011	01:23	5.18	13.75
18	PLCS57	H5258	12/28/2011	01:47	5.19	13.75
19	ZZZZZ	H5259	12/28/2011	02:12	5.19	13.75
20	ZZZZZ	H5260	12/28/2011	02:36	5.18	13.75
21	ZZZZZ	H5261	12/28/2011	03:00	5.19	13.75
22	ZZZZZ	H5262	12/28/2011	03:24	5.19	13.75
23	ZZZZZ	H5263	12/28/2011	03:48	5.19	13.75
24	ZZZZZ	H5264	12/28/2011	04:12	5.19	13.75
25	ZZZZZ	H5265	12/28/2011	04:36	5.19	13.75
26	PIBLK21	H5266	12/28/2011	05:00	5.19	13.75
27	INDC321	H5267	12/28/2011	05:24	5.19	13.75
28	ZZZZZ	H5268	12/28/2011	05:48	5.19	13.75
29	F4XP0	H5269	12/28/2011	06:36	5.19	13.75
30	F4XP1	H5270	12/28/2011	07:00	5.19	13.75
31	F4XP2	H5271	12/28/2011	07:24	5.19	13.75
32	F4XP3	H5272	12/28/2011	07:48	5.19	13.75

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s): 12/27/2011 12/28/2011

Instrument ID: H-7890B

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.10 DCB: 13.06

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	H5241	12/27/2011	19:22	5.10	13.05
02	PEM12	H5242	12/27/2011	19:46	5.10	13.05
03	TOXAPH112	H5243	12/27/2011	20:10	5.10	13.05
04	TOXAPH212	H5244	12/27/2011	20:34	5.10	13.06
05	TOXAPH312	H5245	12/27/2011	20:58	5.10	13.06
06	TOXAPH412	H5246	12/27/2011	21:23	5.10	13.05
07	TOXAPH512	H5247	12/27/2011	21:47	5.10	13.05
08	INDC112	H5248	12/27/2011	22:11	5.10	13.06
09	INDC212	H5249	12/27/2011	22:35	5.10	13.06
10	INDC312	H5250	12/27/2011	22:59	5.10	13.06
11	INDC412	H5251	12/27/2011	23:23	5.10	13.06
12	INDC512	H5252	12/27/2011	23:47	5.10	13.06
13	PIBLK12	H5253	12/28/2011	00:11	5.10	13.06
14	PEM22	H5254	12/28/2011	00:35	5.10	13.06
15	GPCBLK57	H5255	12/28/2011	00:59	0.00 *	0.00 *
16	GPCPEST57	H5256	12/28/2011	01:23	0.00 *	0.00 *
17	PBLK57	H5257	12/28/2011	01:47	5.10	13.06
18	PLCS57	H5258	12/28/2011	02:12	5.10	13.06
19	ZZZZZ	H5259	12/28/2011	02:36	5.10	13.06
20	ZZZZZ	H5260	12/28/2011	03:00	5.10	13.05
21	ZZZZZ	H5261	12/28/2011	03:24	5.10	13.06
22	ZZZZZ	H5262	12/28/2011	03:48	5.10	13.06
23	ZZZZZ	H5263	12/28/2011	04:12	5.10	13.06
24	ZZZZZ	H5264	12/28/2011	04:36	5.10	13.06
25	ZZZZZ	H5265	12/28/2011	05:00	5.10	13.06
26	PIBLK22	H5266	12/28/2011	05:24	5.10	13.06
27	INDC322	H5267	12/28/2011	05:48	5.10	13.06
28	ZZZZZ	H5268	12/28/2011	06:12	5.10	13.06
29	F4XP0	H5269	12/28/2011	07:00	5.10	13.06
30	F4XP1	H5270	12/28/2011	07:24	5.10	13.06
31	F4XP2	H5271	12/28/2011	07:48	5.10	13.06
32	F4XP3	H5272	12/28/2011	08:13	5.10	13.06

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s): 12/27/2011 12/28/2011

Instrument ID: H-7890A

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.19 DCB: 13.75

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F4XP4	H5273	12/28/2011	08:13	5.19	13.75
02	F4XP5	H5274	12/28/2011	08:37	5.19	13.75
03	F4XP6	H5275	12/28/2011	09:01	5.19	13.75
04	F4XQ5	H5276	12/28/2011	09:25	5.19	13.76
05	F4XP7	H5277	12/28/2011	09:49	5.19	13.75
06	F4XP8	H5278	12/28/2011	10:13	5.19	13.75
07	F4XP9	H5279	12/28/2011	10:45	5.19	13.76
08	F4XQ6	H5280	12/28/2011	11:09	5.19	13.75
09	F4XQ0	H5281	12/28/2011	11:33	5.19	13.75
10	F4XQ1	H5282	12/28/2011	11:57	5.19	13.75
11	F4XQ2	H5283	12/28/2011	12:21	5.19	13.75
12	F4XQ3	H5284	12/28/2011	12:45	5.19	13.75
13	F4XQ4	H5285	12/28/2011	13:10	5.19	13.75
14	F4XQ7	H5286	12/28/2011	13:34	5.19	13.75
15	F4XQ8	H5287	12/28/2011	13:58	5.19	13.75
16	F4XQ9	H5288	12/28/2011	14:22	5.19	13.75
17	F4XP2MS	H5289	12/28/2011	14:46	5.19	13.75
18	F4XP2MSD	H5290	12/28/2011	15:10	5.19	13.75
19	ZZZZZ	H5291	12/28/2011	15:34	5.19	13.76
20	PIBLK31	H5292	12/28/2011	15:58	5.19	13.76
21	PEM31	H5293	12/28/2011	16:22	5.19	13.76
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s): 12/27/2011 12/28/2011

Instrument ID: H-7890B

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.10 DCB: 13.06

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F4XP4	H5273	12/28/2011	08:37	5.10	13.06
02	F4XP5	H5274	12/28/2011	09:01	5.10	13.05
03	F4XP6	H5275	12/28/2011	09:25	5.09	13.05
04	F4XQ5	H5276	12/28/2011	09:49	5.09	13.05
05	F4XP7	H5277	12/28/2011	10:13	5.09	13.05
06	F4XP8	H5278	12/28/2011	10:45	5.10	13.06
07	F4XP9	H5279	12/28/2011	11:09	5.10	13.06
08	F4XQ6	H5280	12/28/2011	11:33	5.10	13.06
09	F4XQ0	H5281	12/28/2011	11:57	5.10	13.05
10	F4XQ1	H5282	12/28/2011	12:21	5.10	13.06
11	F4XQ2	H5283	12/28/2011	12:45	5.10	13.06
12	F4XQ3	H5284	12/28/2011	13:10	5.10	13.06
13	F4XQ4	H5285	12/28/2011	13:34	5.10	13.06
14	F4XQ7	H5286	12/28/2011	13:58	5.10	13.06
15	F4XQ8	H5287	12/28/2011	14:22	5.10	13.06
16	F4XQ9	H5288	12/28/2011	14:46	5.10	13.06
17	F4XP2MS	H5289	12/28/2011	15:10	5.10	13.06
18	F4XP2MSD	H5290	12/28/2011	15:34	5.10	13.06
19	ZZZZZ	H5291	12/28/2011	15:58	5.10	13.06
20	PIBLK32	H5292	12/28/2011	16:22	5.10	13.06
21	PEM32	H5293	12/28/2011	16:47	5.10	13.06
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

9A - FORM IX PEST-1
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Florisil Cartridge Lot Number: K02599 Date(s) Analyzed: 07/31/2011

GC Column (1): RTX-CLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
Alpha-BHC	10.00	9.90	99	80-120
gamma-BHC (Lindane)	10.00	10.2	102	80-120
Heptachlor	10.00	9.94	99	80-120
Endosulfan I	10.00	10.3	103	80-120
Dieldrin	20.00	20.2	101	80-120
Endrin	20.00	19.8	99	80-120
4,4'-DDD	20.00	20.7	103	80-120
4,4'-DDT	20.00	19.8	99	80-120
Methoxychlor	100.00	104	104	80-120
TCX	10.00	9.91	99	80-120
DCB	20.00	20.6	103	80-120
2,4,5-Trichlorophenol	2.00		<5.0	<5

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PBLK57	PBLK57	12/28/2011	12/28/2011
02	PLCS57	PLCS57	12/28/2011	12/28/2011
03	F4XP0	S-4460.01	12/28/2011	12/28/2011
04	F4XP1	S-4460.02	12/28/2011	12/28/2011
05	F4XP2	S-4460.03	12/28/2011	12/28/2011
06	F4XP3	S-4460.04	12/28/2011	12/28/2011
07	F4XP4	S-4460.05	12/28/2011	12/28/2011
08	F4XP5	S-4460.06	12/28/2011	12/28/2011
09	F4XP6	S-4460.07	12/28/2011	12/28/2011
10	F4XQ5	S-4460.08	12/28/2011	12/28/2011
11	F4XP7	S-4465.01	12/28/2011	12/28/2011
12	F4XP8	S-4465.02	12/28/2011	12/28/2011
13	F4XP9	S-4465.03	12/28/2011	12/28/2011
14	F4XQ6	S-4465.04	12/28/2011	12/28/2011
15	F4XQ0	S-4476.01	12/28/2011	12/28/2011
16	F4XQ1	S-4476.02	12/28/2011	12/28/2011
17	F4XQ2	S-4476.03	12/28/2011	12/28/2011
18	F4XQ3	S-4476.04	12/28/2011	12/28/2011
19	F4XQ4	S-4476.05	12/28/2011	12/28/2011
20	F4XQ7	S-4476.06	12/28/2011	12/28/2011
21	F4XQ8	S-4476.07	12/28/2011	12/28/2011
22	F4XQ9	S-4476.08	12/28/2011	12/28/2011
23	F4XP2MS	S-4460.03MS	12/28/2011	12/28/2011

9A - FORM IX PEST-1
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Florisil Cartridge Lot Number: K02599 Date(s) Analyzed: 07/31/2011

GC Column (1): RTX-CLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
Alpha-BHC	10.00	9.90	99	80-120
gamma-BHC (Lindane)	10.00	10.2	102	80-120
Heptachlor	10.00	9.94	99	80-120
Endosulfan I	10.00	10.3	103	80-120
Dieldrin	20.00	20.2	101	80-120
Endrin	20.00	19.8	99	80-120
4,4'-DDD	20.00	20.7	103	80-120
4,4'-DDT	20.00	19.8	99	80-120
Methoxychlor	100.00	104	104	80-120
TCX	10.00	9.91	99	80-120
DCB	20.00	20.6	103	80-120
2,4,5-Trichlorophenol	2.00		<5.0	<5

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	F4XP2MSD	S-4460.03MSD	12/28/2011	12/28/2011
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

9B - FORM IX PEST-2
PESTICIDE GPC CALIBRATION VERIFICATION

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

GPC Column: 0531.802 Calibration Verification Date: 12/28/2011

GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	20.00	20.0	100	80-110
Heptachlor	20.00	21.5	107	80-110
Aldrin	20.00	20.7	103	80-110
Dieldrin	40.00	41.5	104	80-110
Endrin	40.00	42.1	105	80-110
4,4'-DDT	40.00	40.3	101	80-110

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	GPC CLEANUP DATE
01	PBLK57	PBLK57	12/14/2011
02	PLCS57	PLCS57	12/14/2011
03	F4XP0	S-4460.01	12/14/2011
04	F4XP1	S-4460.02	12/14/2011
05	F4XP2	S-4460.03	12/14/2011
06	F4XP3	S-4460.04	12/14/2011
07	F4XP4	S-4460.05	12/14/2011
08	F4XP5	S-4460.06	12/14/2011
09	F4XP6	S-4460.07	12/14/2011
10	F4XQ5	S-4460.08	12/14/2011
11	F4XP7	S-4465.01	12/14/2011
12	F4XP8	S-4465.02	12/14/2011
13	F4XP9	S-4465.03	12/14/2011
14	F4XQ6	S-4465.04	12/14/2011
15	F4XQ0	S-4476.01	12/14/2011
16	F4XQ1	S-4476.02	12/14/2011
17	F4XQ2	S-4476.03	12/14/2011
18	F4XQ3	S-4476.04	12/14/2011
19	F4XQ4	S-4476.05	12/14/2011
20	F4XQ7	S-4476.06	12/14/2011
21	F4XQ8	S-4476.07	12/14/2011
22	F4XQ9	S-4476.08	12/14/2011
23	F4XP2MS	S-4460.03MS	12/14/2011
24	F4XP2MSD	S-4460.03MSD	12/14/2011
25			
26			

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: S-4460.01 Date(s) Analyzed 12/28/2011

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	12.13	12.01	12.15	2.6	25.7
	2	11.73	11.69	11.83	2.1	
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP2MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: S-4460.03MS Date(s) Analyzed 12/28/2011

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	10.27	10.20	10.34	39	10.1
	2	9.95	9.88	10.02	43	
4,4'-DDT	1	10.83	10.75	10.89	39	14.6
	2	10.41	10.34	10.48	45	
gamma-BHC (Lindane)	1	6.90	6.85	6.95	19	5.1
	2	6.62	6.57	6.67	18	
Heptachlor	1	7.60	7.55	7.65	20	3.2
	2	7.39	7.34	7.44	19	
Aldrin	1	8.10	8.04	8.14	20	15.1
	2	7.85	7.80	7.90	17	
Dieldrin	1	9.86	9.79	9.93	40	9.5
	2	9.63	9.56	9.70	36	
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP2MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: S-4460.03MSD Date(s) Analyzed 12/28/2011

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	10.27	10.20	10.34	39	13.0
	2	9.95	9.88	10.02	44	
4,4'-DDT	1	10.83	10.75	10.89	40	17.0
	2	10.41	10.34	10.48	46	
gamma-BHC (Lindane)	1	6.90	6.85	6.95	19	1.7
	2	6.62	6.57	6.67	19	
Heptachlor	1	7.60	7.55	7.65	20	0.3
	2	7.39	7.34	7.44	20	
Aldrin	1	8.10	8.04	8.14	20	12.3
	2	7.85	7.80	7.90	18	
Dieldrin	1	9.86	9.79	9.93	40	7.8
	2	9.63	9.56	9.70	38	
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: S-4476.06 Date(s) Analyzed 12/28/2011

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	10.36	10.34	10.48	2.4	24.4
	2	10.00	9.97	10.11	3.0	
4,4'-DDT	1	10.83	10.75	10.89	3.8	40.3
	2	10.38	10.34	10.48	5.3	
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: S-4476.07 Date(s) Analyzed 12/28/2011

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	10.83	10.75	10.89	2.1	23.6
	2	10.41	10.34	10.48	2.6	
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
PLCS57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Lab Sample ID: PLCS57 Date(s) Analyzed 12/28/2011

Instrument ID (1): H-7890A Instrument ID (2): H-7890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	10.27	10.20	10.34	3.1	14.6
	2	9.95	9.88	10.02	3.5	
Endosulfan sulfate	1	11.37	11.29	11.43	3.3	4.0
	2	11.39	11.32	11.46	3.5	
gamma-BHC (Lindane)	1	6.90	6.85	6.95	1.5	2.1
	2	6.62	6.57	6.67	1.6	
Heptachlor epoxide	1	8.93	8.86	9.00	1.5	0.8
	2	8.74	8.67	8.81	1.6	
gamma-Chlordane	1	9.20	9.13	9.27	1.6	7.8
	2	8.92	8.85	8.99	1.7	
4,4'-DDE	1	9.63	9.56	9.70	3.1	3.9
	2	9.23	9.16	9.30	3.2	
Dieldrin	1	9.86	9.79	9.93	3.0	8.4
	2	9.63	9.56	9.70	3.3	
	1					
	2					
	1					
	2					

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5241.D(Signal #1) H5241.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 18:58 (#1); 12/27/11 19:22 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : RESC11 (Sig #1); RESC12 (Sig #2)
Misc : RESC11 (Sig #1); RESC12 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:59:38 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.095	798.9E6	652.8E6	12.377	10.518
	Spiked Amount 60.000	Range 18 - 90		Recovery =		20.63%	17.53%#
22)	S Decachlor...	13.754	13.053	908.5E6	1040.0E6	24.237	19.939
	Spiked Amount 120.000	Range 36 - 180		Recovery =		20.20%#	16.62%#
	Target Compounds						
2)	Alpha-BHC	6.297	6.082	1178.2E6	1005.8E6	11.185	10.106
3)	Gamma-BHC...	6.898	6.619	1110.6E6	967.9E6	11.255	10.268
4)	Beta-BHC	7.045	6.773	465.3E6	378.2E6	12.153	10.657
5)	Delta-BHC	7.507	7.055	1101.6E6	915.9E6	11.358	10.109
6)	Heptachlor	7.603	7.384	1030.9E6	911.1E6	11.527	11.124
7)	Aldrin	8.095	7.845	976.9E6	875.6E6	11.576	10.380
8)	Heptachlo...	8.931	8.743	873.7E6	832.2E6	11.502	10.560
9)	Gamma-Chl...	9.200	8.922	861.5E6	814.1E6	11.402	10.244
10)	Alpha-chl...	9.405	9.109	863.5E6	781.3E6	11.587	10.459
11)	Endosulfan I	9.483	9.298	758.4E6	753.2E6	11.489	10.173
12)	4,4'-DDE	9.633	9.229	1626.1E6	1428.0E6	22.841	20.405
13)	Dieldrin	9.860	9.630	1713.5E6	1607.5E6	22.769	20.421
14)	Endrin	10.273	9.947	1591.9E6	1293.6E6	23.030	22.923
15)	4,4'-DDD	10.408	10.041	1333.1E6	1187.4E6	22.740	19.843
16)	Endosulfa...	10.555	10.250	1430.0E6	1329.4E6	22.954	20.294
17)	4,4'-DDT	10.826	10.412	1390.1E6	1067.2E6	22.795	21.696
18)	Endrin Al...	11.000	10.810	1156.9E6	1120.5E6	22.746	20.166
19)	Endosulfa...	11.366	11.385	1290.0E6	1193.0E6	22.581	19.944
20)	Methoxychlor	11.706	11.042	3444.0E6	2959.7E6	116.058	111.410
21)	Endrin Ke...	12.078	11.759	1459.6E6	1508.2E6	22.681	19.030

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

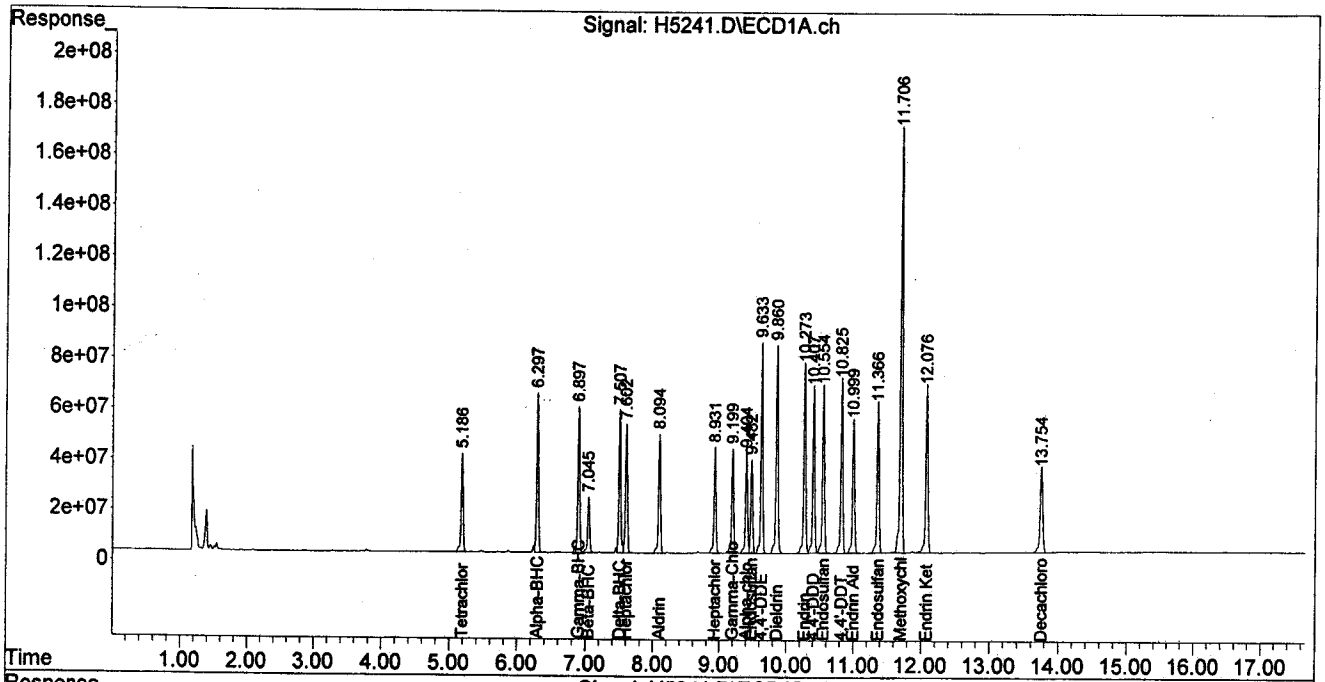
ORIGINAL
Case 42035 SDG COA45
Episode S-445 init/date 12/29/14

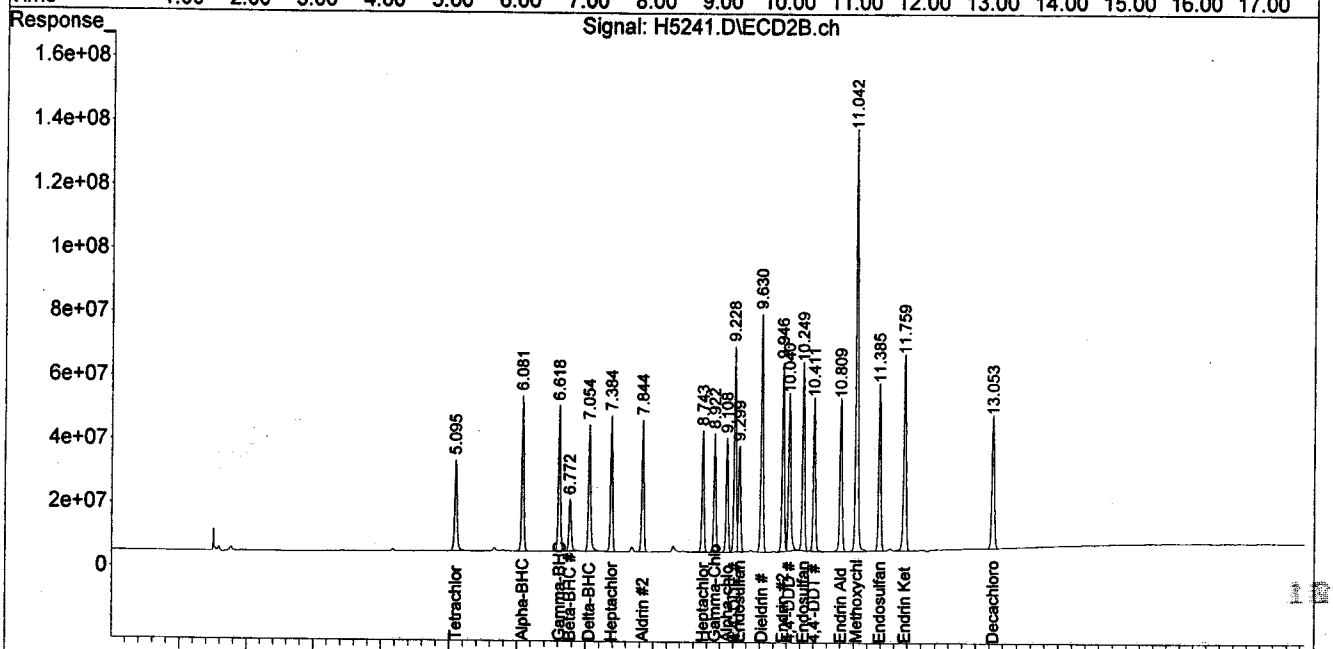
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5241.D(Signal #1) H5241.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 18:58 (#1); 12/27/11 19:22 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : RESC11 (Sig #1); RESC12 (Sig #2)
Misc : RESC11 (Sig #1); RESC12 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:59:38 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5242.D(Signal #1) H5242.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 19:22 (#1); 12/27/11 19:46 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEM11 (Sig #1); PEM12 (Sig #2)
Misc : PEM11 (Sig #1); PEM12 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:40:55 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:40:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1)	S Tetrachlo...	5.185	5.095	1145.3E6	1148.7E6	17.742	18.507	
	Spiked Amount	60.000	Range 18 - 90		Recovery =	29.57%	30.84%	
22)	S Decachlor...	13.753	13.053	710.6E6	1000.3E6	18.959	19.177	
	Spiked Amount	120.000	Range 36 - 180		Recovery =	15.80%#	15.98%#	
	Target Compounds							
2)	Alpha-BHC	6.295	6.082	933.5E6	927.9E6	8.862	9.323	
3)	Gamma-BHC...	6.897	6.619	900.7E6	912.5E6	9.128	9.680	
4)	Beta-BHC	7.044	6.774	393.8E6	368.7E6	10.287	10.391	
14)	Endrin	10.273	9.947	3255.4E6	3193.6E6	47.096	56.591	
15)	4,4'-DDD	0.000	10.050	0	146.5E6	N.D.	2.449	#
17)	4,4'-DDT	10.824	10.412	6025.6E6	6094.1E6	98.810	123.887	#
18)	Endrin Al...	0.000	10.806	0	76119930	N.D.	1.370	#
20)	Methoxychlor	11.705	11.042	6948.3E6	7267.2E6	234.148	273.552	
21)	Endrin Ke...	12.077	11.750	99861451	345.7E6	1.552	4.362	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

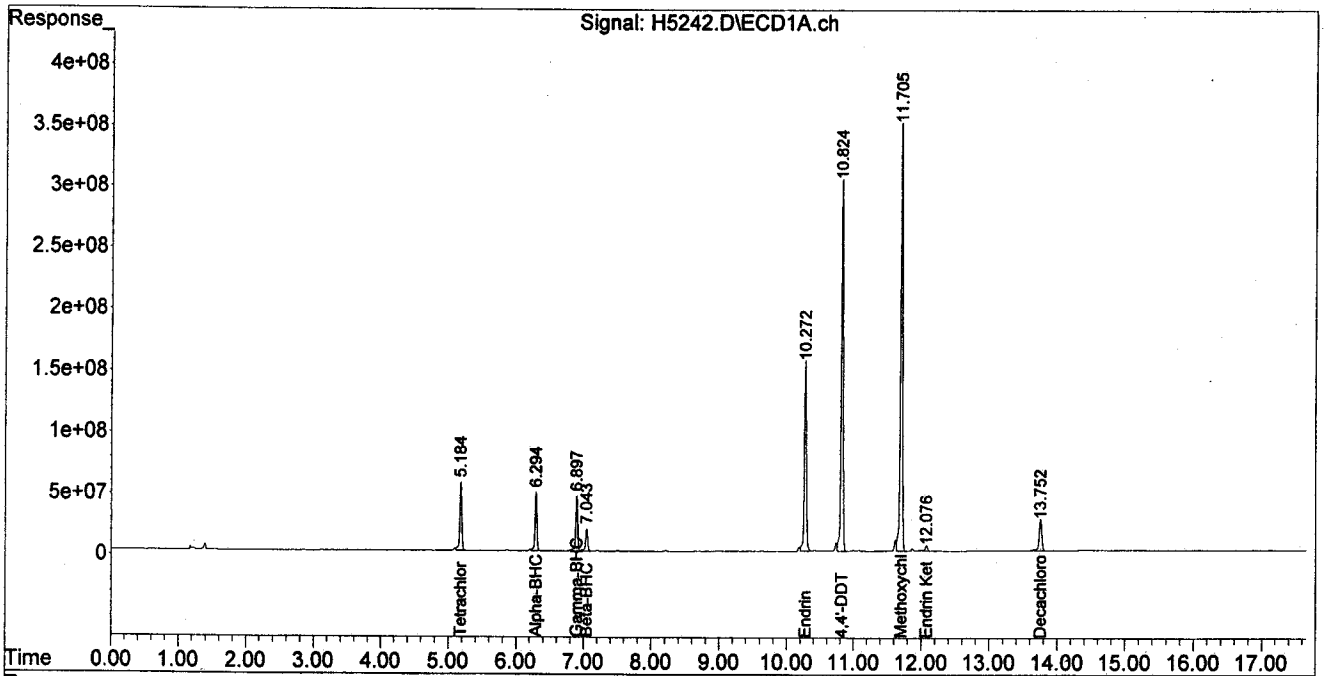
ORIGINAL
Case 42035 SDG COA05
Episode S-4469 init/date m 12/28/14

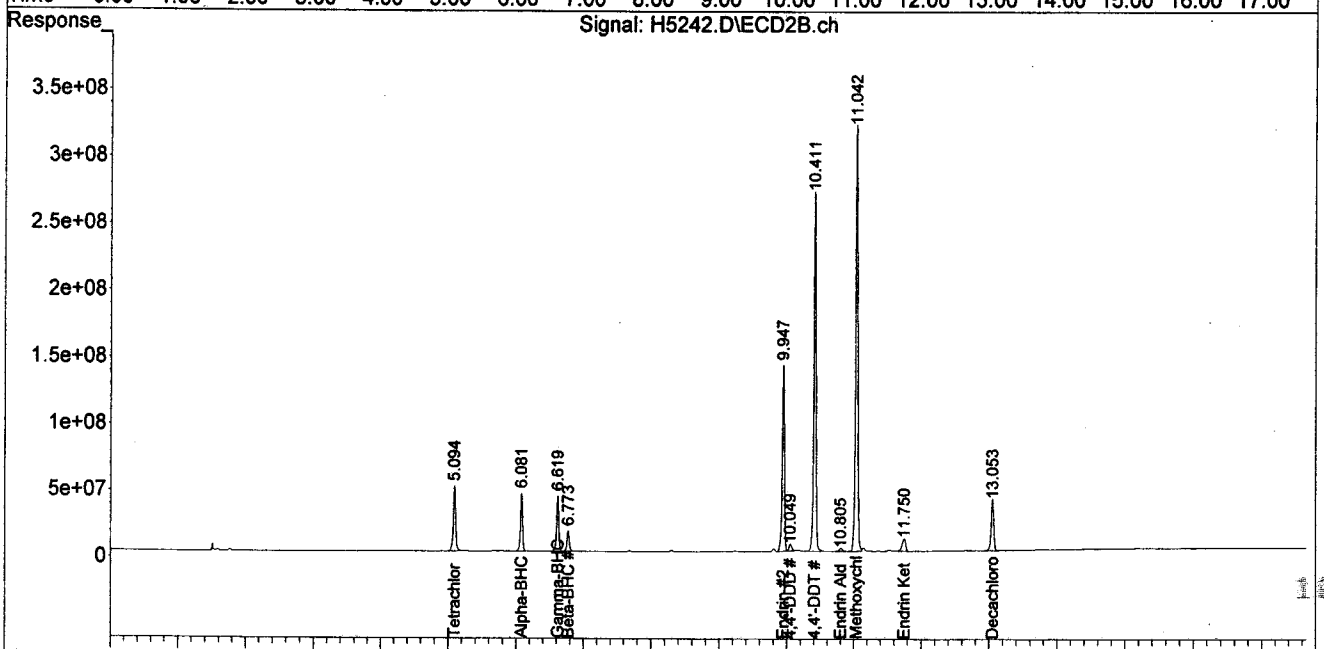
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5242.D(Signal #1) H5242.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 19:22 (#1); 12/27/11 19:46 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEM11 (Sig #1); PEM12 (Sig #2)
Misc : PEM11 (Sig #1); PEM12 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:40:55 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:40:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Response Factor Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : TOXAPH-5245.M
Title : CLP PESTICIDES METHOD
Last Update : Wed Dec 28 10:58:35 2011
Response Via : Initial Calibration

Calibration Files
1 =H5243.D 2 =H5244.D 3 =H5245.D
4 =H5246.D 5 =H5247.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	7.850	7.239	7.400	7.590	7.260	7.468	E7	3.42
2)		Toxaphene-1	2.438	2.523	2.456	2.786	2.572	2.555	E6	5.47
3)		Toxaphene-2	1.701	1.818	1.757	1.985	1.845	1.821	E6	5.88
4)		Toxaphene-3	2.750	3.030	2.915	3.367	3.140	3.041	E6	7.66
5)	S	Decachlorobiphenyl	4.517	4.183	4.605	4.666	4.573	4.509	E7	4.21

Signal #2 Calibration Files
1 =H5243.D 2 =H5244.D 3 =H5245.D
4 =H5246.D 5 =H5247.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	7.708	7.991	7.186	7.746	6.868	7.500	E7	6.12
2)		Toxaphene-1	2.111	2.253	2.095	2.379	2.116	2.191	E6	5.60
3)		Toxaphene-2	2.714	2.788	2.703	3.133	2.780	2.823	E6	6.28
4)		Toxaphene-3	3.138	3.413	3.267	3.801	3.468	3.418	E6	7.32
5)	S	Decachlorobiphenyl	6.561	6.841	6.045	6.710	5.858	6.403	E7	6.70

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5243.D(Signal #1) H5243.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 19:46 (#1); 12/27/11 20:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH111 (Sig #1); TOXAPH112 (Sig #2)
Misc : TOXAPH111 (Sig #1); TOXAPH112 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:58:06 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:57:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.185	5.096	392.5E6	385.4E6	5.370	5.266
	Spiked Amount 60.000	Range 18 - 90		Recovery =		8.95%#	8.78%#
5)	S Decachlor...	13.752	13.054	451.7E6	656.1E6	9.976	10.760
	Spiked Amount 120.000	Range 36 - 180		Recovery =		8.31%#	8.97%#
	Target Compounds						
2)	Toxaphene-1	10.193	9.884	1219.0E6	1055.3E6	492.365	487.648
3)	Toxaphene-2	10.768	10.333	850.7E6	1357.1E6	487.256	487.487
4)	Toxaphene-3	11.693	11.259	1375.1E6	1569.2E6	466.210	470.084

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

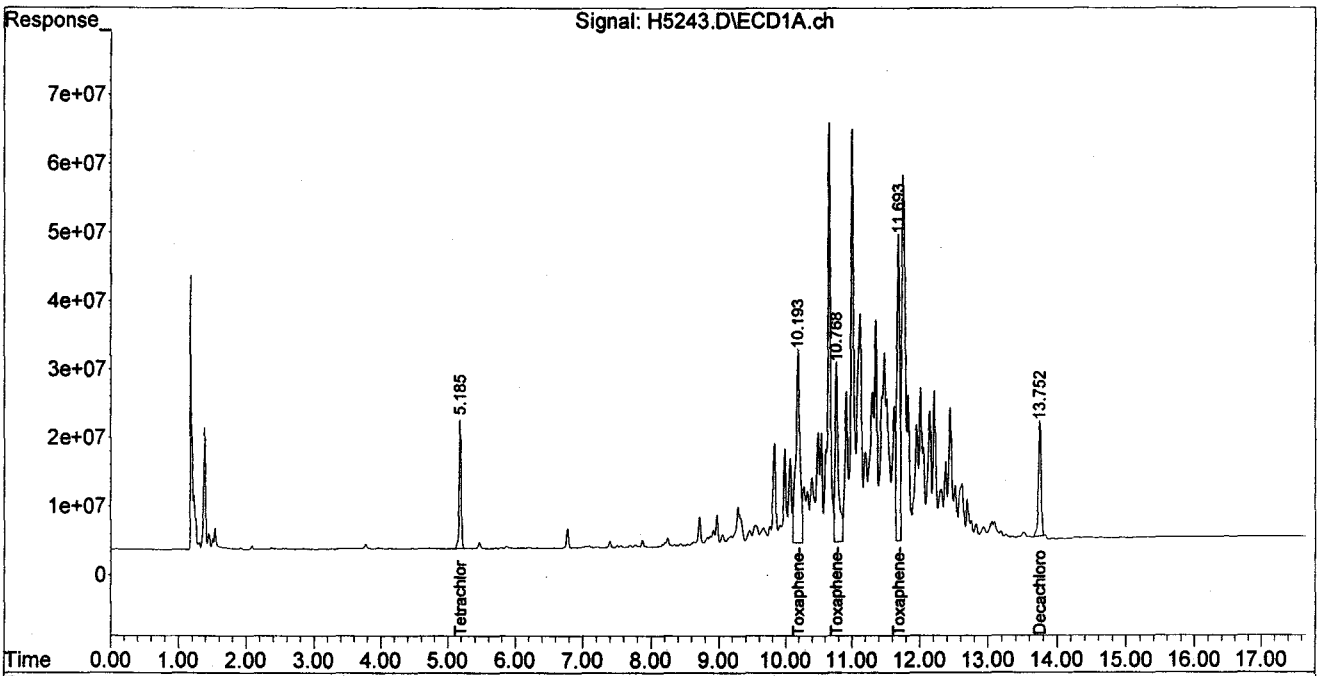
ORIGINAL
Case 42035 SDG COAA5
Episode S4465 init/date 1-22-2014

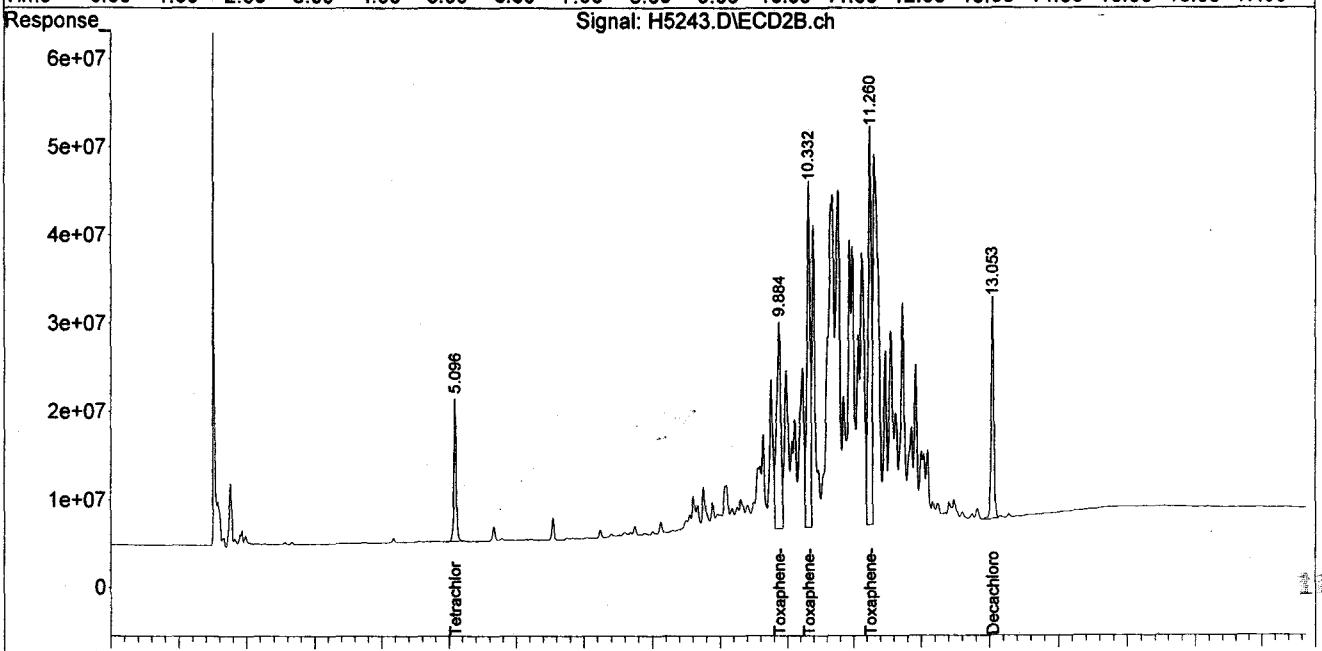
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5243.D(Signal #1) H5243.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 19:46 (#1); 12/27/11 20:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH111 (Sig #1); TOXAPH112 (Sig #2)
Misc : TOXAPH111 (Sig #1); TOXAPH112 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:58:06 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:57:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5244.D(Signal #1) H5244.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 20:10 (#1); 12/27/11 20:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH211 (Sig #1); TOXAPH212 (Sig #2)
Misc : TOXAPH211 (Sig #1); TOXAPH212 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:58:18 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:58:12 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.185	5.096	723.9E6	799.1E6	9.632	10.834
	Spiked Amount	60.000	Range 18 - 90	Recovery =		16.05%#	18.06%
5)	S Decachlor...	13.753	13.056	836.6E6	1368.1E6	18.141	22.082
	Spiked Amount	120.000	Range 36 - 180	Recovery =		15.12%#	18.40%#
	Target Compounds						
2)	Toxaphene-1	10.194	9.885	2523.4E6	2252.9E6	999.626	1038.564
3)	Toxaphene-2	10.768	10.335	1817.9E6	2787.5E6	1021.713	994.612
4)	Toxaphene-3	11.694	11.260	3029.9E6	3413.0E6	1013.796	1012.396

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

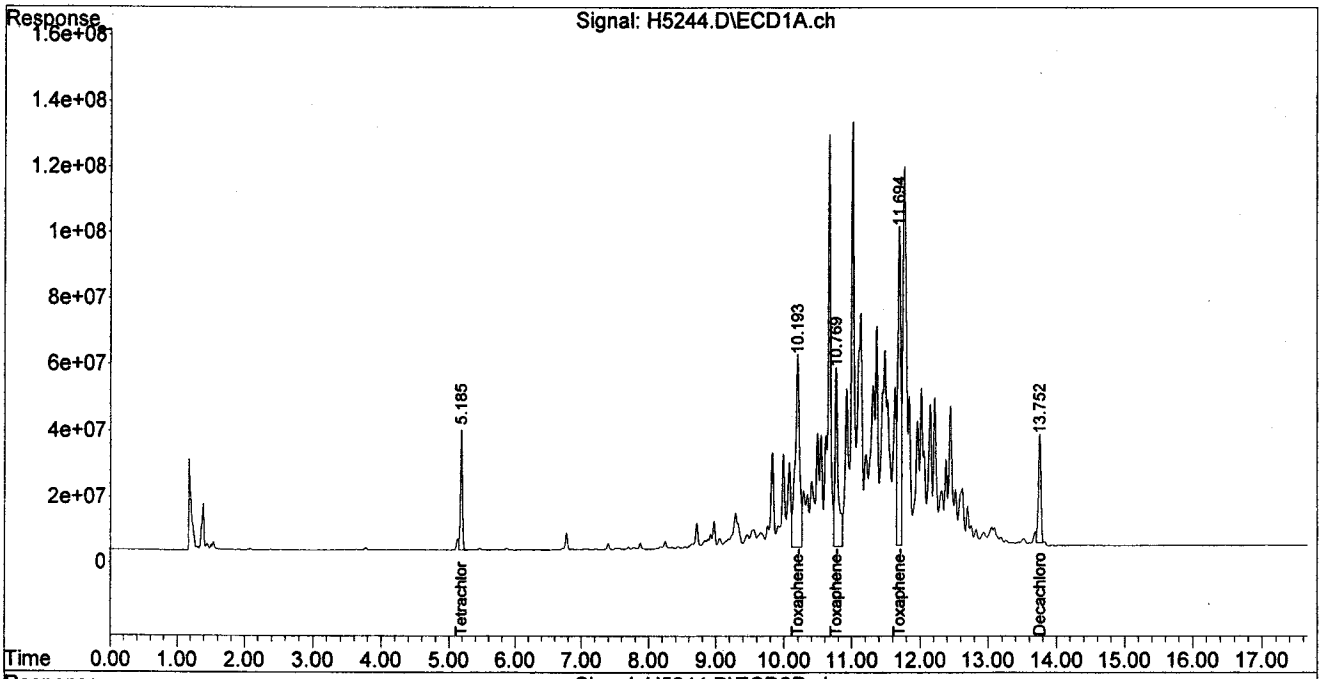
ORIGINAL
Case 42035 SDG COAA5
Episode S-4469 init/date 4/24/14

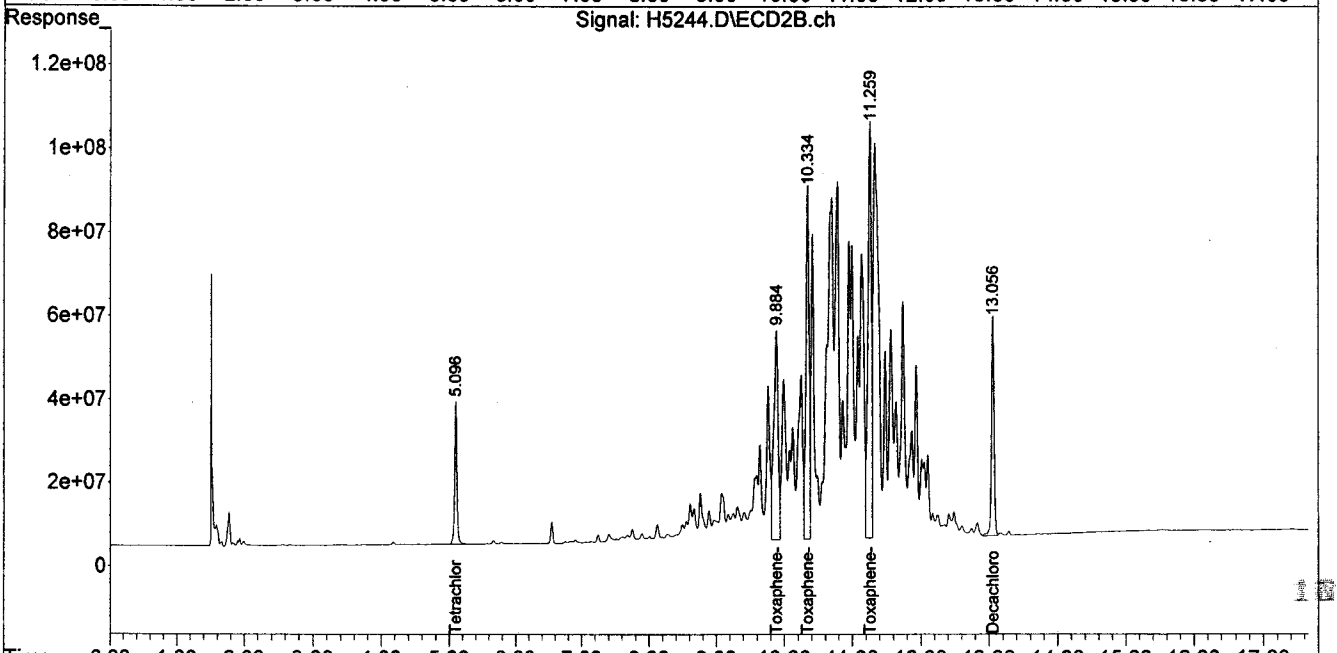
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5244.D(Signal #1) H5244.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 20:10 (#1); 12/27/11 20:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH211 (Sig #1); TOXAPH212 (Sig #2)
Misc : TOXAPH211 (Sig #1); TOXAPH212 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:58:18 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:58:12 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5245.D(Signal #1) H5245.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 20:34 (#1); 12/27/11 20:58 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH311 (Sig #1); TOXAPH312 (Sig #2)
Misc : TOXAPH311 (Sig #1); TOXAPH312 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:58:31 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:58:24 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.185	5.097	1480.0E6	1437.2E6	19.818	19.164
Spiked Amount	60.000 Range	18 - 90	Recovery	=	33.03%	31.94%
5) S Decachlor...	13.753	13.055	1841.9E6	2417.9E6	40.852	37.763
Spiked Amount	120.000 Range	36 - 180	Recovery	=	34.04%#	31.47%#
Target Compounds						
2) Toxaphene-1	10.193	9.885	4912.8E6	4190.8E6	1922.715	1912.973
3) Toxaphene-2	10.769	10.334	3513.5E6	5405.3E6	1929.344	1914.414
4) Toxaphene-3	11.693	11.260	5830.5E6	6533.7E6	1917.588	1911.819

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

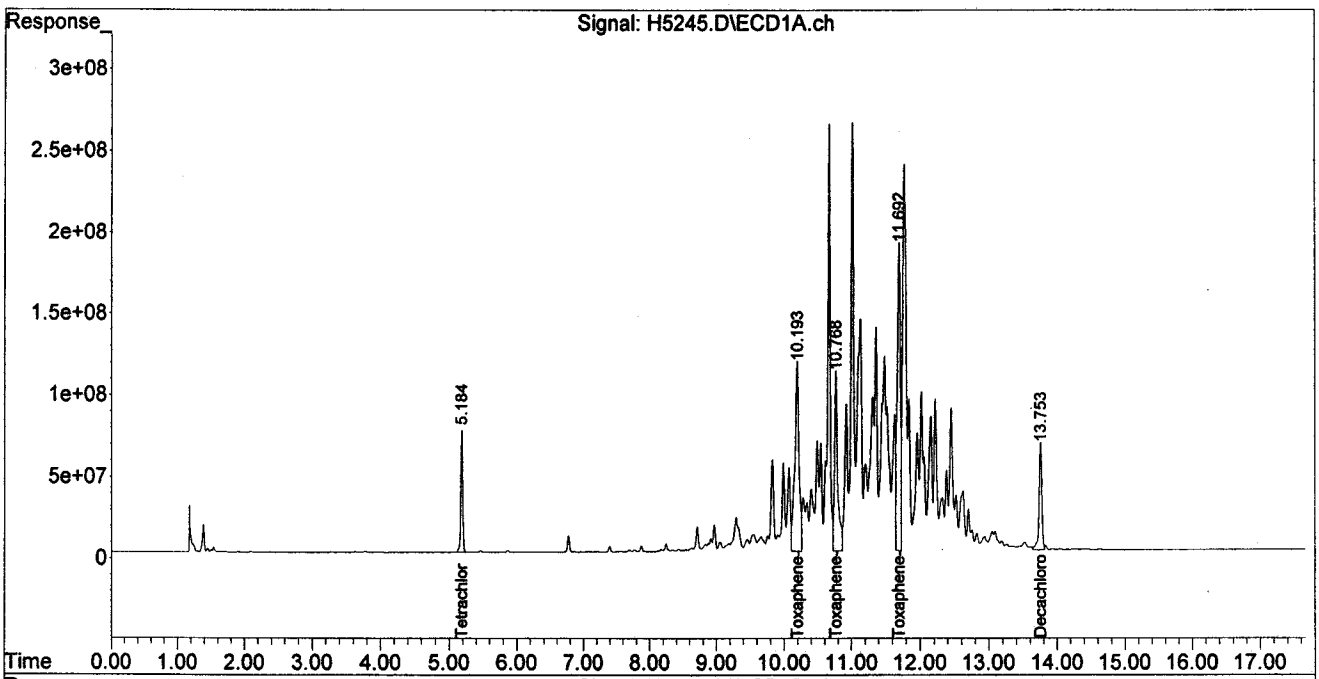
ORIGINAL
Case 42035 SDG COAA5
Episode S-4469 init/date 1-17-2014

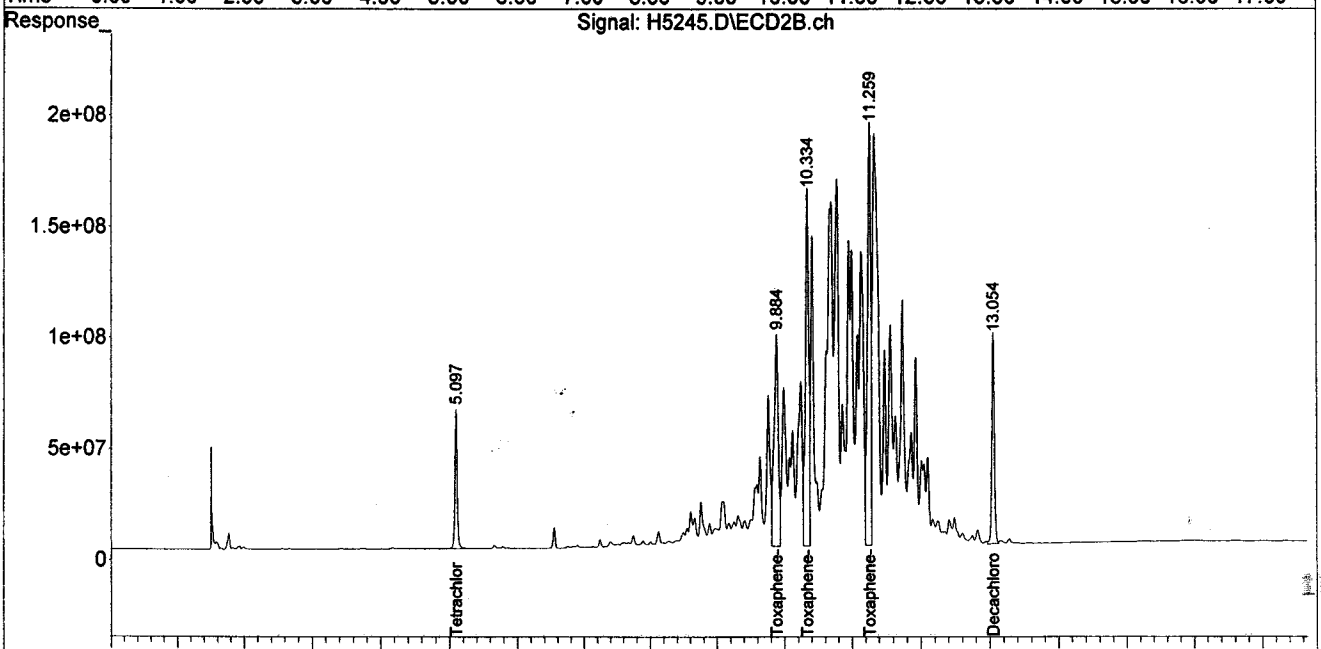
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5245.D(Signal #1) H5245.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 20:34 (#1); 12/27/11 20:58 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH311 (Sig #1); TOXAPH312 (Sig #2)
Misc : TOXAPH311 (Sig #1); TOXAPH312 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:58:31 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:58:24 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5246.D(Signal #1)            H5246.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
InstName  : H-7890A(Signal #1)             H-7890B(Signal # 2)
Acq On    : 12/27/11 20:58 (#1); 12/27/11 21:23 (#2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : TOXAPH411 (Sig #1); TOXAPH412 (Sig #2)
Misc      : TOXAPH411 (Sig #1); TOXAPH412 (Sig #2)
ALS Vial  : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:57:34 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title  : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:57:28 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1 uL
Signal #1 Phase : RTX-CLP-2          Signal #2 Phase: RTX-CLP
Signal #1 Info  : 30mLn,  0.53mm     Signal #2 Info : 30mLn,  0.53mm
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	5.185	5.095	3036.0E6	3098.5E6	42.803	43.285
	Spiked Amount	60.000 Range	18 - 90	Recovery	=	71.34%	72.14%
5) S	Decachlor...	13.753	13.054	3733.0E6	5368.2E6	83.620	92.854
	Spiked Amount	120.000 Range	36 - 180	Recovery	=	69.68%	77.38%
	Target Compounds						
2)	Toxaphene-1	10.194	9.885	11143.8E6	9514.2E6	4682.701	4476.121
3)	Toxaphene-2	10.769	10.333	7938.6E6	12533.5E6	4750.688	4579.982
4)	Toxaphene-3	11.693	11.259	13469.6E6	15204.1E6	4766.529	4684.862

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

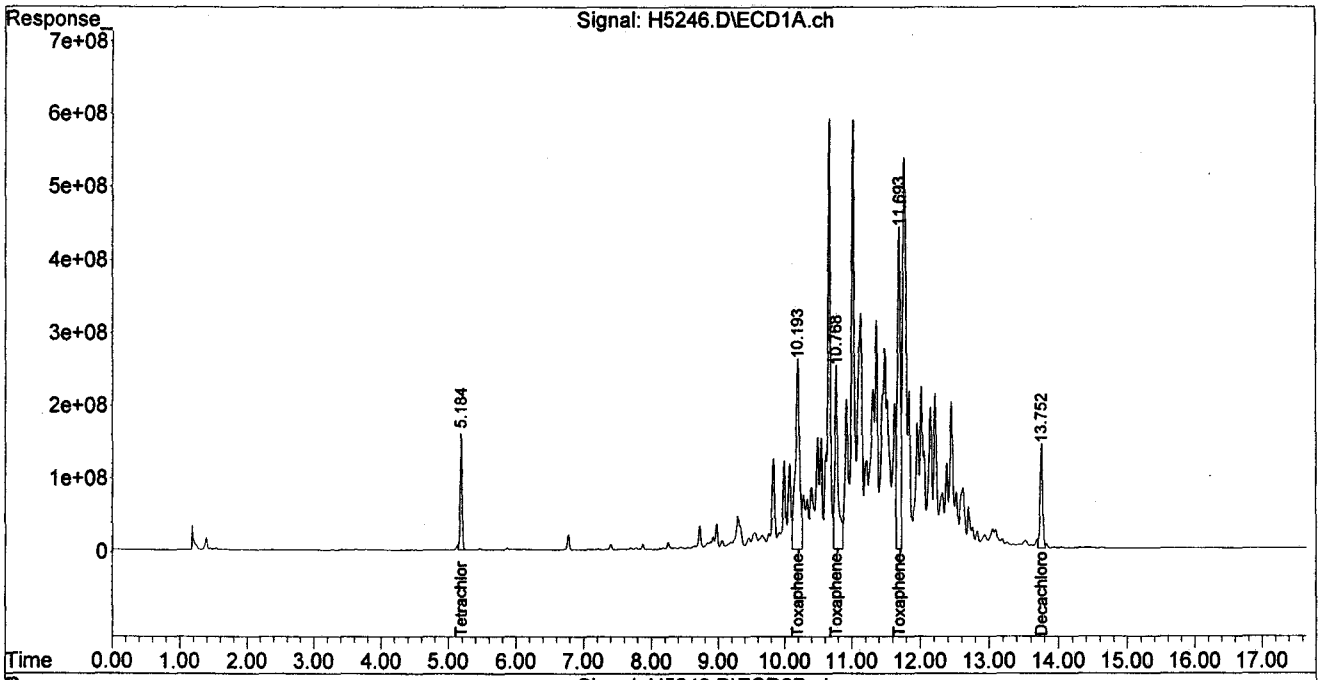
ORIGINAL
Case 42035 SDG COAA5
Episode S-4419 init/date 12/28/11

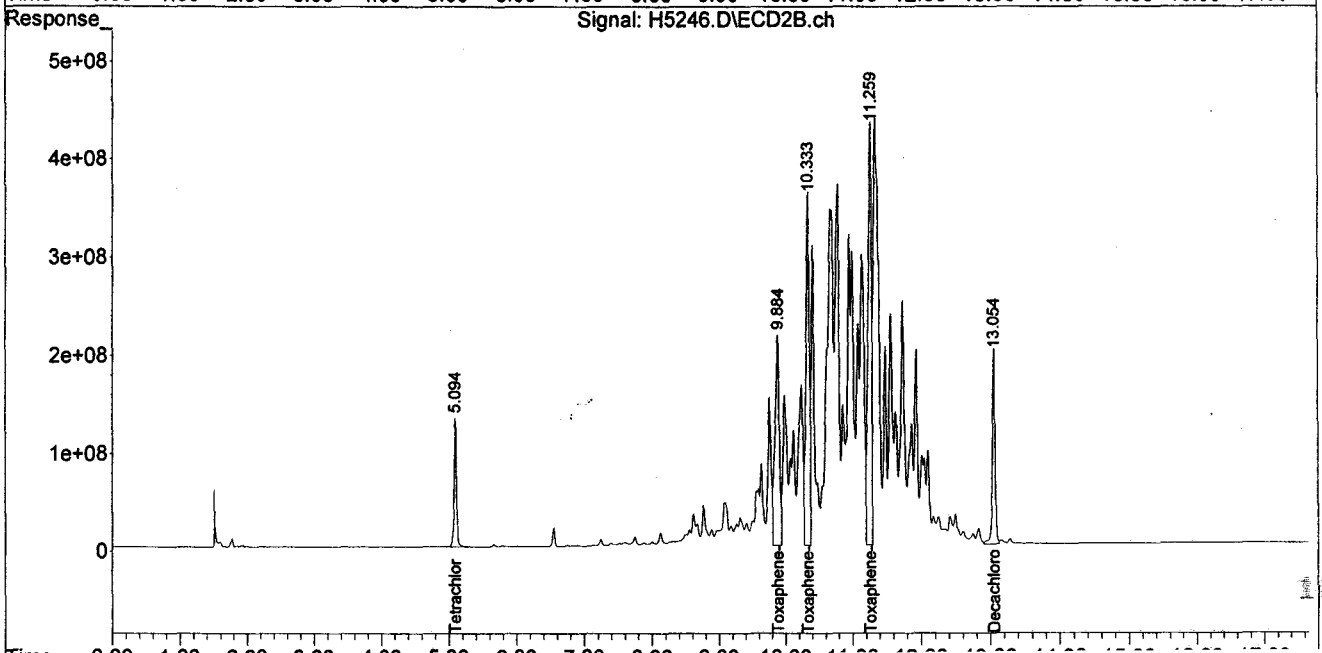
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5246.D(Signal #1) H5246.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 20:58 (#1); 12/27/11 21:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH411 (Sig #1); TOXAPH412 (Sig #2)
Misc : TOXAPH411 (Sig #1); TOXAPH412 (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:57:34 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:57:28 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5247.D(Signal #1) H5247.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 21:23 (#1); 12/27/11 21:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH511 (Sig #1); TOXAPH512 (Sig #2)
Misc : TOXAPH511 (Sig #1); TOXAPH512 (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:57:50 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:57:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.185	5.096	5808.1E6	5494.7E6	80.786	75.560
Spiked Amount	60.000	Range 18 - 90		Recovery =	134.64%#	125.93%#
5) S Decachlor...	13.752	13.054	7317.0E6	9372.8E6	163.120	156.419
Spiked Amount	120.000	Range 36 - 180		Recovery =	135.93%	130.35%
Target Compounds						
2) Toxaphene-1	10.194	9.884	20574.4E6	16930.3E6	8426.522	7844.480
3) Toxaphene-2	10.769	10.333	14757.2E6	22236.6E6	8586.654	7988.931
4) Toxaphene-3	11.693	11.259	25119.7E6	27746.9E6	8637.456	8365.537

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

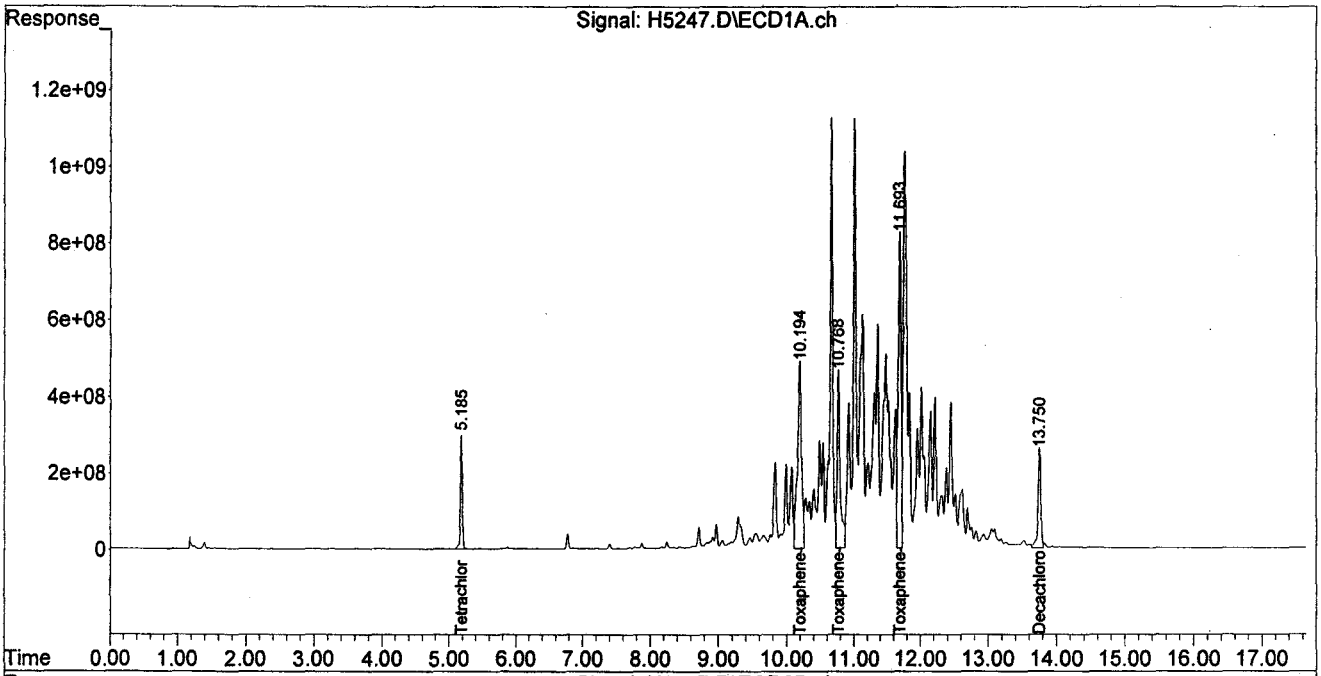
ORIGINAL
Case 42035 SDG COAA5
Episode S-446 init/date 4/12/2016

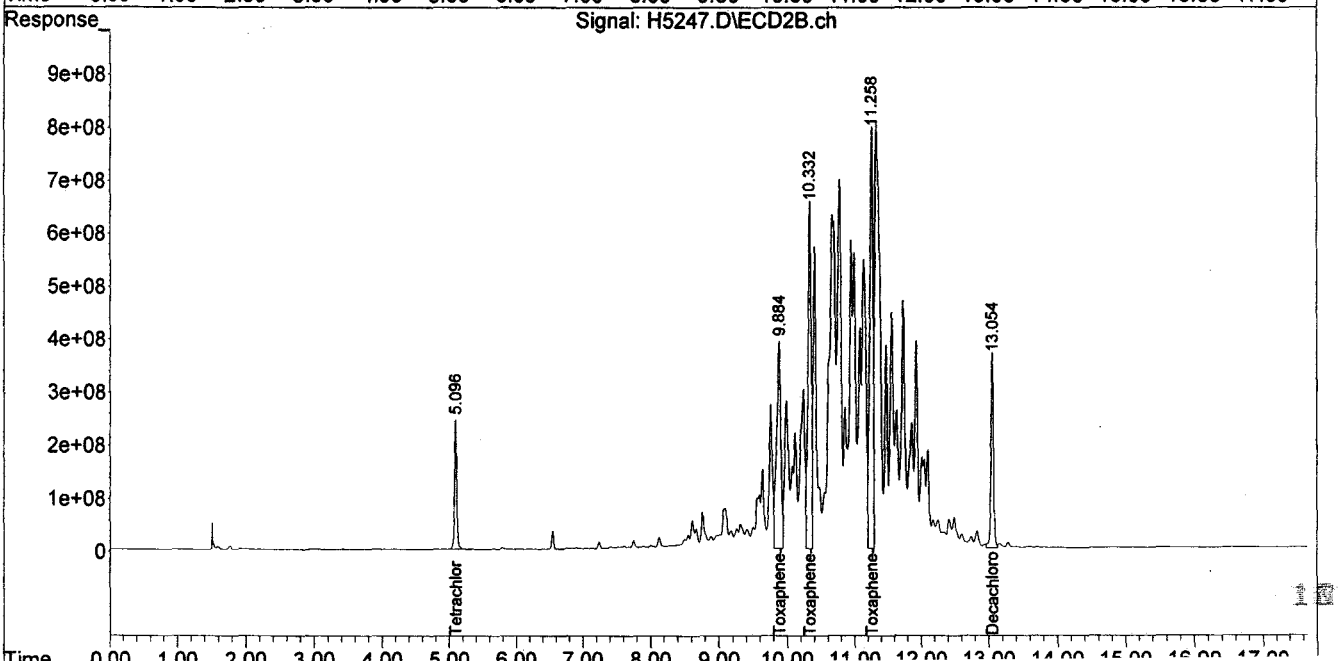
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5247.D(Signal #1) H5247.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 21:23 (#1); 12/27/11 21:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH511 (Sig #1); TOXAPH512 (Sig #2)
Misc : TOXAPH511 (Sig #1); TOXAPH512 (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 10:57:50 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-5245.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 10:57:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Response Factor Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : CLP-PEST-5250.M
Title : CLP PESTICIDES METHOD
Last Update : Wed Dec 28 09:45:15 2011
Response Via : Initial Calibration

Calibration Files
1 =H5248.D 2 =H5249.D 3 =H5250.D
4 =H5251.D 5 =H5252.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	6.963	6.660	6.377	6.203	6.073	6.455	E7	5.56
2)		Alpha-BHC	0.999	1.032	1.043	1.098	1.095	1.053	E8	4.04
3)		Gamma-BHC (Lindane)	0.949	0.976	0.988	1.016	1.004	0.987	E8	2.63
4)		Beta-BHC	4.112	4.104	3.756	3.664	3.507	3.829	E7	7.05
5)		Delta-BHC	9.397	9.735	9.603	9.848	9.912	9.699	E7	2.12
6)		Heptachlor	8.847	9.037	8.835	9.104	8.896	8.944	E7	1.35
7)		Aldrin	8.283	8.500	8.337	8.615	8.458	8.439	E7	1.56
8)		Heptachlor Epoxide	7.623	7.608	7.516	7.675	7.557	7.596	E7	0.81
9)		Gamma-Chlordane	7.518	7.686	7.416	7.603	7.553	7.555	E7	1.33
10)		Alpha-chlordane	7.470	7.651	7.387	7.417	7.336	7.452	E7	1.63
11)		Endosulfan I	6.697	6.625	6.563	6.640	6.478	6.601	E7	1.27
12)		4,4'-DDE	6.797	7.069	7.074	7.360	7.296	7.119	E7	3.12
13)		Dieldrin	7.266	7.495	7.453	7.761	7.654	7.526	E7	2.54
14)		Endrin	6.623	6.943	6.939	7.073	6.983	6.912	E7	2.47
15)		4,4'-DDD	5.586	5.747	5.924	6.024	6.030	5.862	E7	3.28
16)		Endosulfan II	6.136	6.267	6.155	6.333	6.258	6.230	E7	1.32
17)		4,4'-DDT	5.833	6.011	6.003	6.294	6.350	6.098	E7	3.56
18)		Endrin Aldehyde	5.257	5.142	4.981	5.064	4.987	5.086	E7	2.27
19)		Endosulfan sulfate	5.701	5.732	5.600	5.770	5.760	5.713	E7	1.20
20)		Methoxychlor	2.975	2.930	2.909	2.993	3.031	2.967	E7	1.64
21)		Endrin Ketone	6.422	6.421	6.258	6.539	6.537	6.435	E7	1.79
22)	S	Decachlorobiphenyl	4.085	3.913	3.632	3.591	3.520	3.748	E7	6.41

Signal #2 Calibration Files
1 =H5248.D 2 =H5249.D 3 =H5250.D
4 =H5251.D 5 =H5252.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	6.613	6.375	6.295	5.616	6.136	6.207	E7	6.00
2)		Alpha-BHC	0.947	0.970	1.011	0.947	1.101	0.995	E8	6.49
3)		Gamma-BHC (Lindane)	0.920	0.927	0.960	0.887	1.020	0.943	E8	5.32
4)		Beta-BHC	3.903	3.682	3.560	3.170	3.427	3.549	E7	7.74
5)		Delta-BHC	8.546	8.894	9.225	8.698	9.939	9.060	E7	6.10
6)		Heptachlor	8.169	8.118	8.389	7.599	8.676	8.190	E7	4.85
7)		Aldrin	8.568	8.476	8.609	7.821	8.703	8.435	E7	4.18
8)		Heptachlor Epoxide	8.176	7.983	8.026	7.302	7.919	7.881	E7	4.28
9)		Gamma-Chlordane	8.311	8.025	8.020	7.345	8.036	7.947	E7	4.51
10)		Alpha-chlordane	7.864	7.663	7.504	6.712	7.605	7.470	E7	5.94
11)		Endosulfan I	7.847	7.610	7.454	6.813	7.296	7.404	E7	5.24
12)		4,4'-DDE	6.952	7.041	7.203	6.638	7.157	6.998	E7	3.20
13)		Dieldrin	8.034	7.956	8.051	7.381	7.936	7.872	E7	3.54
14)		Endrin	5.423	5.551	5.847	5.369	6.026	5.643	E7	5.01
15)		4,4'-DDD	5.938	5.968	6.011	5.814	6.187	5.984	E7	2.26
16)		Endosulfan II	6.759	6.613	6.518	6.207	6.656	6.550	E7	3.22
17)		4,4'-DDT	4.258	4.487	5.044	4.889	5.918	4.919	E7	13.01
18)		Endrin Aldehyde	5.836	5.646	5.617	5.149	5.532	5.556	E7	4.56
19)		Endosulfan sulfate	6.253	6.038	5.995	5.576	6.046	5.982	E7	4.14
20)		Methoxychlor	2.636	2.624	2.728	2.479	2.815	2.657	E7	4.73
21)		Endrin Ketone	8.361	8.091	7.982	7.370	7.824	7.926	E7	4.63
22)	S	Decachlorobiphenyl	5.829	5.405	5.161	4.687	4.998	5.216	E7	8.26

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5248.D(Signal #1) H5248.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 21:47 (#1); 12/27/11 22:11 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC111 (Sig #1); INDC112 (Sig #2)
Misc : INDC111 (Sig #1); INDC112 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:01:39 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.097	348.2E6	330.6E6	5.393	5.327
	Spiked Amount 60.000	Range 18 - 90		Recovery =		8.99%#	8.88%#
22)	S Decachlor...	13.752	13.055	408.5E6	582.9E6	10.898	11.175
	Spiked Amount 120.000	Range 36 - 180		Recovery =		9.08%#	9.31%#
	Target Compounds						
2)	Alpha-BHC	6.296	6.083	499.5E6	473.4E6	4.742	4.756
3)	Gamma-BHC...	6.897	6.620	474.6E6	460.1E6	4.810	4.881
4)	Beta-BHC	7.044	6.775	205.6E6	195.1E6	5.370	5.499
5)	Delta-BHC	7.506	7.057	469.8E6	427.3E6	4.844	4.716
6)	Heptachlor	7.602	7.385	442.3E6	408.5E6	4.946	4.987
7)	Aldrin	8.093	7.846	414.2E6	428.4E6	4.908	5.078
8)	Heptachlo...	8.930	8.744	381.2E6	408.8E6	5.018	5.187
9)	Gamma-Chl...	9.199	8.923	375.9E6	415.5E6	4.975	5.229
10)	Alpha-chl...	9.403	9.111	373.5E6	393.2E6	5.012	5.264
11)	Endosulfan I	9.481	9.299	334.9E6	392.3E6	5.073	5.299
12)	4,4'-DDE	9.631	9.230	679.7E6	695.2E6	9.548	9.934
13)	Dieldrin	9.858	9.631	726.6E6	803.4E6	9.655	10.206
14)	Endrin	10.272	9.948	662.3E6	542.3E6	9.581	9.609
15)	4,4'-DDD	10.406	10.043	558.6E6	593.8E6	9.529	9.923
16)	Endosulfa...	10.553	10.251	613.6E6	675.9E6	9.849	10.318
17)	4,4'-DDT	10.824	10.413	583.3E6	425.8E6	9.565	8.655
18)	Endrin Al...	10.998	10.811	525.7E6	583.6E6	10.335	10.504
19)	Endosulfa...	11.364	11.386	570.1E6	625.3E6	9.979	10.453
20)	Methoxychlor	11.704	11.044	1487.3E6	1318.2E6	50.120	49.620
21)	Endrin Ke...	12.076	11.759	642.2E6	836.1E6	9.979	10.549

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

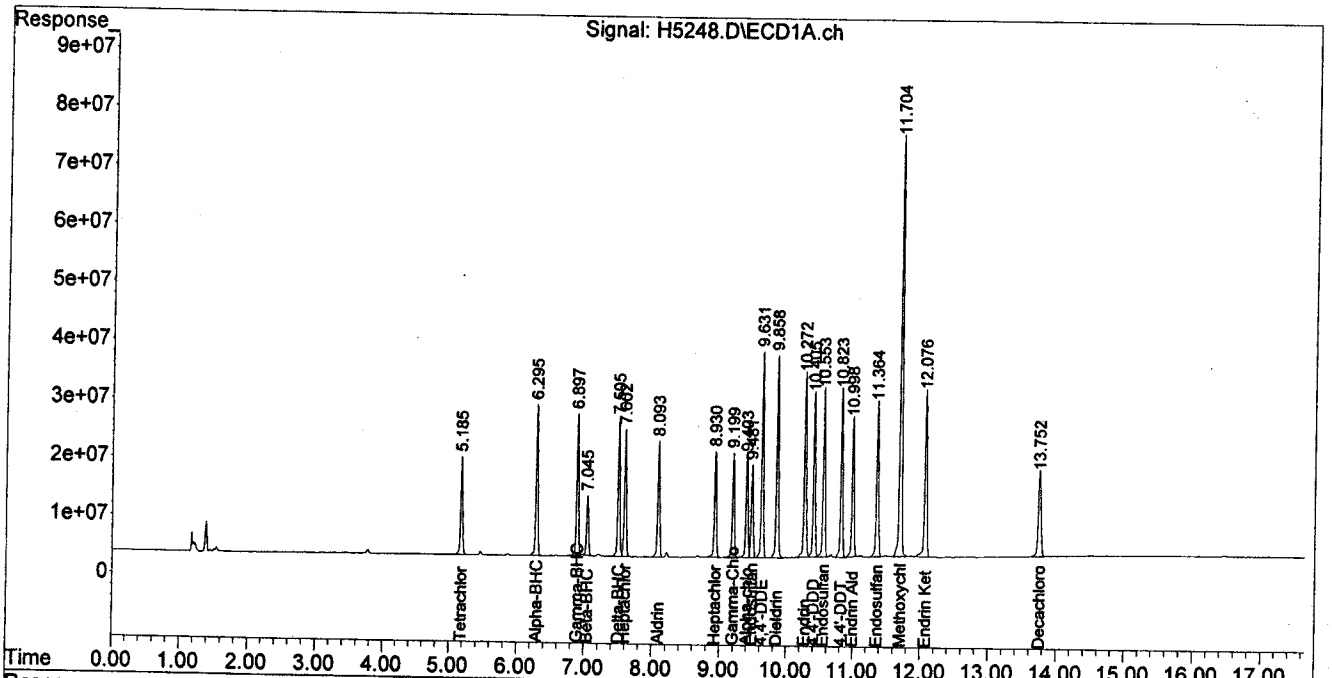
ORIGINAL
Case 42035 SDG COAA5
Episode 54469 init/date 4/12/2014

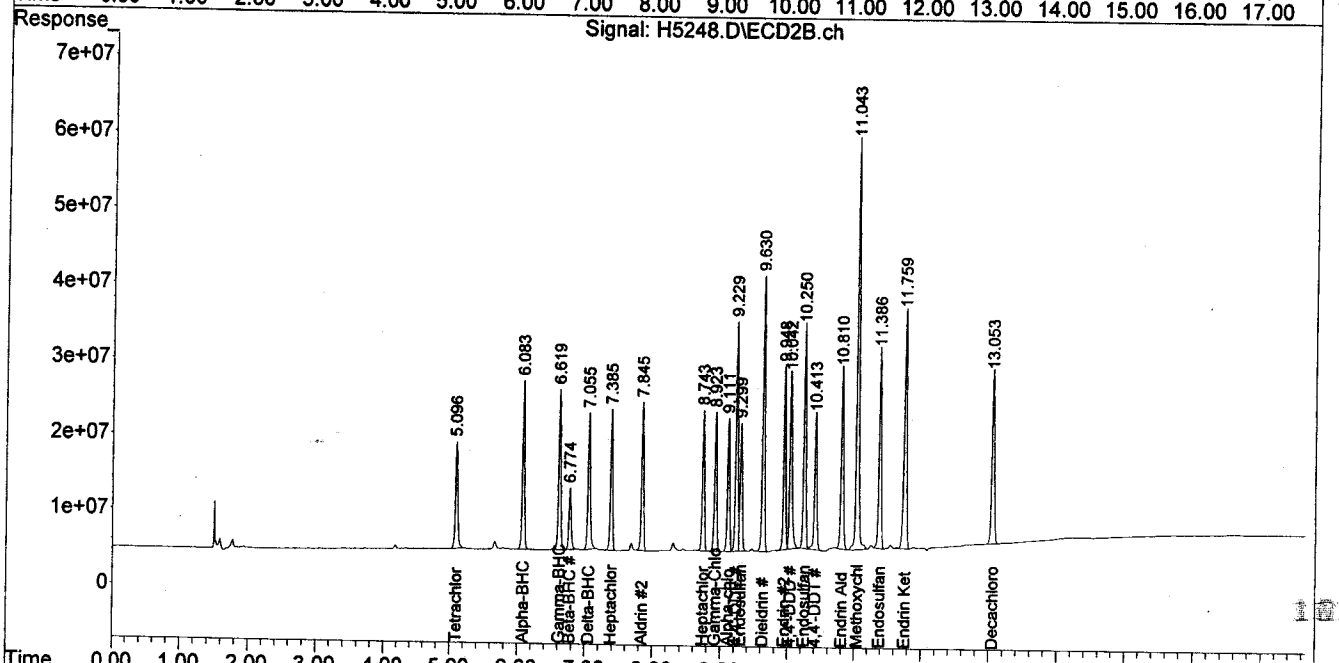
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5248.D(Signal #1) H5248.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 21:47 (#1); 12/27/11 22:11 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC111 (Sig #1); INDC112 (Sig #2)
Misc : INDC111 (Sig #1); INDC112 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:01:39 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5249.D(Signal #1) H5249.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 22:11 (#1); 12/27/11 22:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC211 (Sig #1); INDC212 (Sig #2)
Misc : INDC211 (Sig #1); INDC212 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:36:47 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:36:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.185	5.095	666.0E6	637.5E6	9.899	9.942
	Spiked Amount 60.000	Range 18 - 90		Recovery =		16.50%#	16.57%#
22)	S Decachlor...	13.753	13.055	782.6E6	1081.0E6	20.205	20.368
	Spiked Amount 120.000	Range 36 - 180		Recovery =		16.84%#	16.97%#
	Target Compounds						
2)	Alpha-BHC	6.296	6.082	1032.2E6	969.9E6	9.455	9.433
3)	Gamma-BHC...	6.897	6.619	976.3E6	926.8E6	9.560	9.503
4)	Beta-BHC	7.044	6.774	410.4E6	368.2E6	10.404	10.046
5)	Delta-BHC	7.506	7.056	973.5E6	889.4E6	9.711	9.496
6)	Heptachlor	7.602	7.385	903.7E6	811.8E6	9.843	9.386
7)	Aldrin	8.093	7.845	850.0E6	847.6E6	9.774	9.758
8)	Heptachlo...	8.930	8.743	760.8E6	798.3E6	9.694	9.825
9)	Gamma-Chl...	9.199	8.922	768.6E6	802.5E6	9.907	9.805
10)	Alpha-chl...	9.403	9.110	765.1E6	766.3E6	9.958	9.972
11)	Endosulfan I	9.481	9.298	662.5E6	761.0E6	9.766	10.079
12)	4,4'-DDE	9.631	9.229	1413.9E6	1408.3E6	19.291	19.431
13)	Dieldrin	9.858	9.631	1498.9E6	1591.3E6	19.357	19.627
14)	Endrin	10.272	9.948	1388.6E6	1110.3E6	19.517	18.289
15)	4,4'-DDD	10.406	10.042	1149.4E6	1193.6E6	19.037	19.480
16)	Endosulfa...	10.553	10.251	1253.4E6	1322.5E6	19.564	19.593
17)	4,4'-DDT	10.824	10.412	1202.1E6	897.4E6	19.183	16.775
18)	Endrin Al...	10.998	10.811	1028.3E6	1129.3E6	19.783	20.019
19)	Endosulfa...	11.365	11.386	1146.4E6	1207.7E6	19.594	19.736
20)	Methoxychlor	11.704	11.043	2929.9E6	2624.1E6	95.618	93.114
21)	Endrin Ke...	12.076	11.759	1284.1E6	1618.2E6	19.434	20.316

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

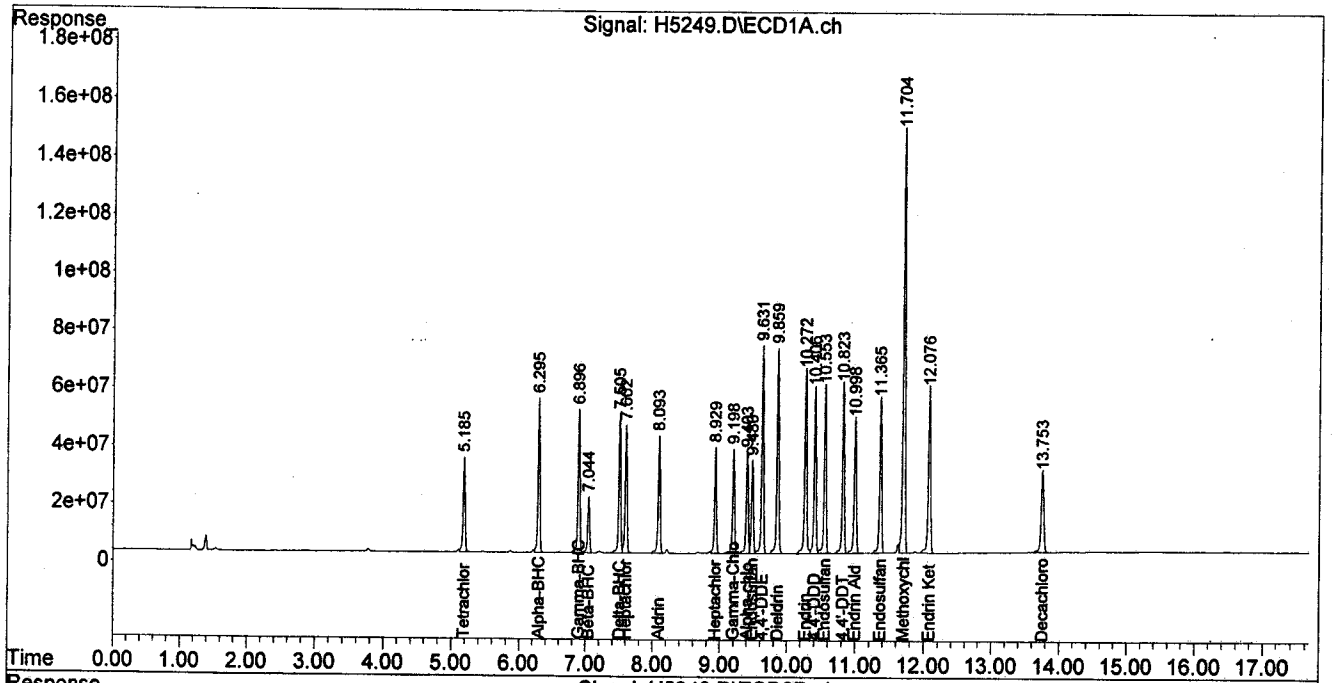
ORIGINAL
Case 42035 SDG COA45
Episode S-4469 init/date 1/12/12

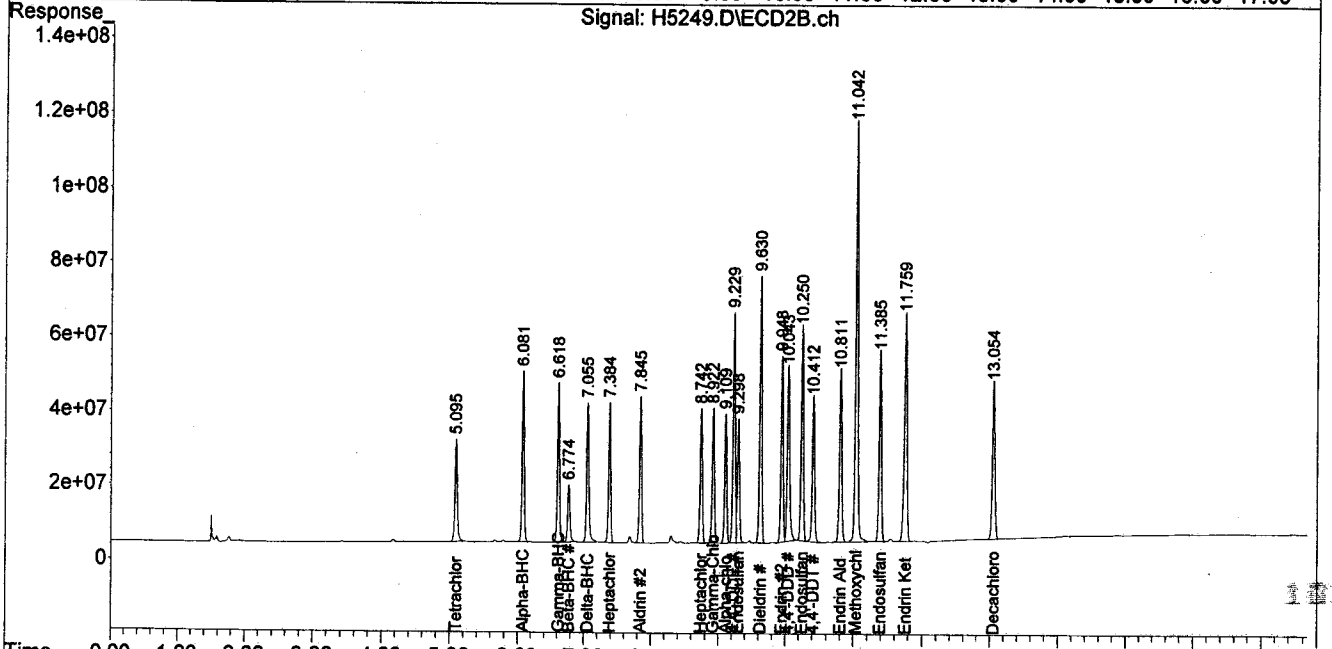
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5249.D(Signal #1) H5249.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 22:11 (#1); 12/27/11 22:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC211 (Sig #1); INDC212 (Sig #2)
Misc : INDC211 (Sig #1); INDC212 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:36:47 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:36:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5250.D(Signal #1) H5250.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 22:35 (#1); 12/27/11 22:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC311 (Sig #1); INDC312 (Sig #2)
Misc : INDC311 (Sig #1); INDC312 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:02:02 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.184	5.096	1275.3E6	1258.9E6	19.756	20.284
	Spiked Amount	60.000	Range 18 - 90		Recovery =	32.93%	33.81%
22)	S Decachlor...	13.751	13.055	1452.9E6	2064.4E6	38.763	39.579
	Spiked Amount	120.000	Range 36 - 180		Recovery =	32.30%#	32.98%#
	Target Compounds						
2)	Alpha-BHC	6.294	6.083	2085.0E6	2022.4E6	19.794	20.321
3)	Gamma-BHC...	6.896	6.620	1975.5E6	1919.7E6	20.021	20.365
4)	Beta-BHC	7.043	6.774	751.1E6	712.0E6	19.619	20.064
5)	Delta-BHC	7.505	7.056	1920.6E6	1844.9E6	19.802	20.363
6)	Heptachlor	7.601	7.385	1766.9E6	1677.8E6	19.756	20.486
7)	Aldrin	8.093	7.846	1667.4E6	1721.8E6	19.759	20.411
8)	Heptachlo...	8.929	8.743	1503.2E6	1605.1E6	19.790	20.367
9)	Gamma-Chl...	9.198	8.922	1483.2E6	1604.0E6	19.632	20.183
10)	Alpha-chl...	9.402	9.110	1477.3E6	1500.7E6	19.824	20.091
11)	Endosulfan I	9.480	9.299	1312.6E6	1490.8E6	19.886	20.135
12)	4,4'-DDE	9.631	9.229	2829.5E6	2881.1E6	39.745	41.169
13)	Dieldrin	9.858	9.631	2981.0E6	3220.2E6	39.612	40.909
14)	Endrin	10.271	9.948	2775.6E6	2339.0E6	40.155	41.447
15)	4,4'-DDD	10.406	10.041	2369.5E6	2404.5E6	40.420	40.184
16)	Endosulfa...	10.552	10.251	2462.2E6	2607.4E6	39.523	39.804
17)	4,4'-DDT	10.823	10.413	2401.2E6	2017.5E6	39.376	41.013
18)	Endrin Al...	10.998	10.810	1992.5E6	2246.8E6	39.175	40.437
19)	Endosulfa...	11.364	11.386	2240.0E6	2397.9E6	39.210	40.088
20)	Methoxychlor	11.704	11.043	5818.5E6	5456.2E6	196.075	205.381
21)	Endrin Ke...	12.076	11.759	2503.3E6	3192.9E6	38.899	40.286

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

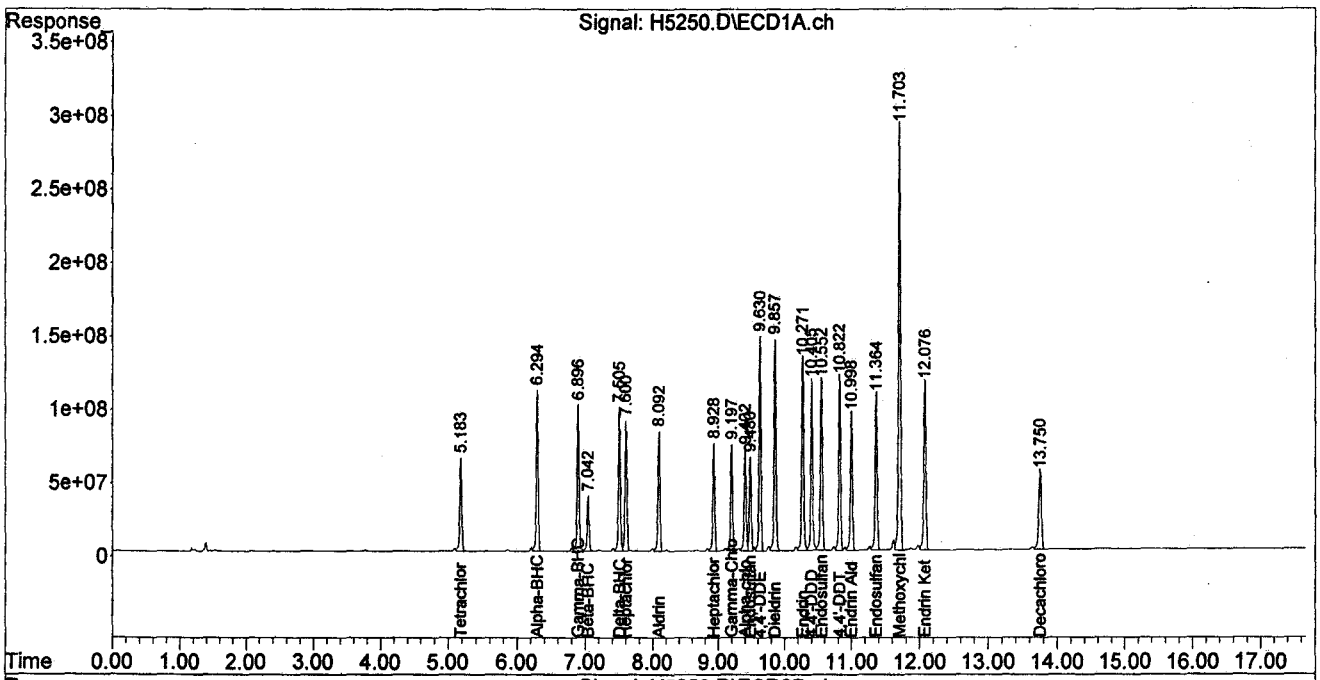
ORIGINAL
Case 42035 SDG C0AA5
Episode S-4469 init/date 12/28/11

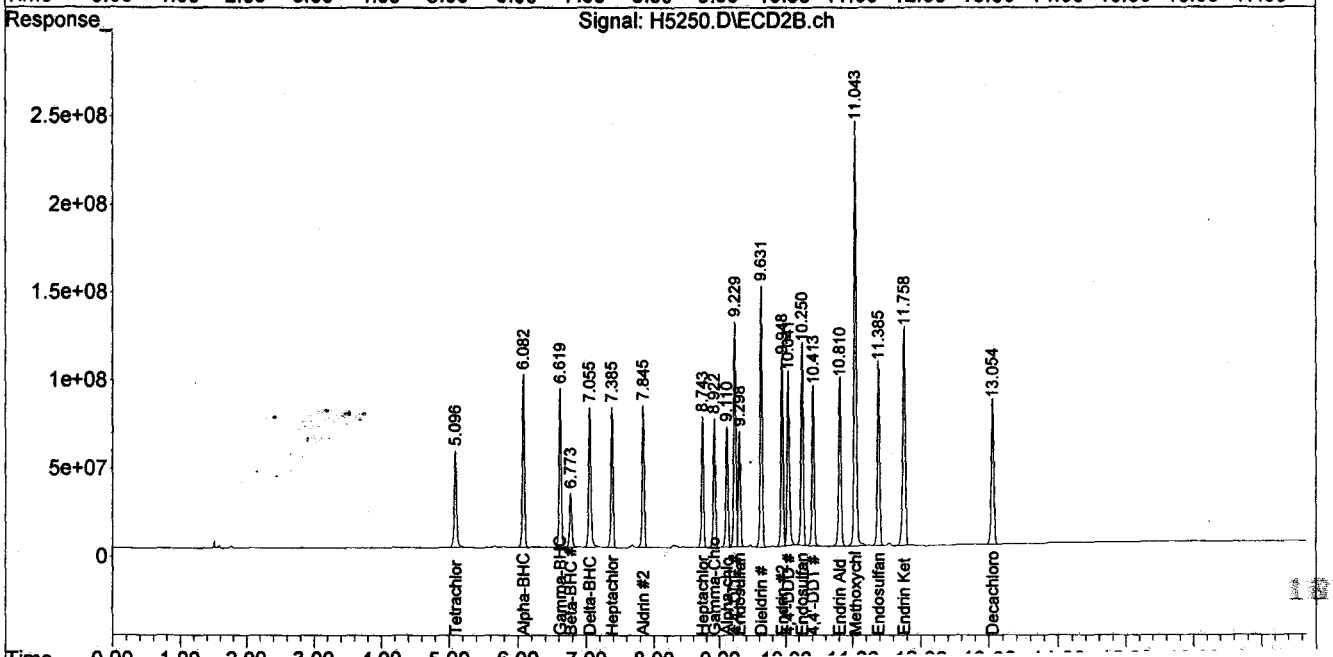
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5250.D(Signal #1) H5250.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 22:35 (#1); 12/27/11 22:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC311 (Sig #1); INDC312 (Sig #2)
Misc : INDC311 (Sig #1); INDC312 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:02:02 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5251.D(Signal #1) H5251.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 22:59 (#1); 12/27/11 23:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC411 (Sig #1); INDC412 (Sig #2)
Misc : INDC411 (Sig #1); INDC412 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:33:53 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:33:44 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.185	5.096	2481.2E6	2246.3E6	29.932	27.557
	Spiked Amount	60.000	Range 18 - 90	Recovery =		49.89%	45.93%
22)	S Decachlor...	13.751	13.056	2872.7E6	3749.4E6	60.542	58.423
	Spiked Amount	120.000	Range 36 - 180	Recovery =		50.45%	48.69%
	Target Compounds						
2)	Alpha-BHC	6.296	6.083	4391.4E6	3789.6E6	32.427	28.517
3)	Gamma-BHC...	6.898	6.621	4064.4E6	3547.8E6	32.129	28.314
4)	Beta-BHC	7.044	6.775	1465.7E6	1268.0E6	30.937	27.676
5)	Delta-BHC	7.506	7.057	3939.1E6	3479.2E6	31.718	29.028
6)	Heptachlor	7.602	7.386	3641.6E6	3039.7E6	32.149	26.514
7)	Aldrin	8.093	7.847	3446.1E6	3128.4E6	32.565	28.750
8)	Heptachlo...	8.930	8.744	3070.1E6	2920.9E6	32.359	29.015
9)	Gamma-Chl...	9.198	8.924	3041.4E6	2938.1E6	32.508	28.637
10)	Alpha-chl...	9.402	9.111	2967.0E6	2684.8E6	31.785	28.053
11)	Endosulfan I	9.481	9.300	2655.9E6	2725.1E6	32.175	29.499
12)	4,4'-DDE	9.631	9.230	5887.8E6	5310.7E6	65.722	58.024
13)	Dieldrin	9.858	9.632	6208.8E6	5905.1E6	65.603	58.156
14)	Endrin	10.271	9.949	5658.2E6	4295.4E6	64.584	50.959
15)	4,4'-DDD	10.405	10.043	4819.1E6	4651.3E6	65.046	61.508
16)	Endosulfa...	10.553	10.252	5066.3E6	4965.5E6	65.069	58.971
17)	4,4'-DDT	10.823	10.413	5035.4E6	3911.3E6	65.702	51.286
18)	Endrin Al...	10.997	10.812	4051.2E6	4119.5E6	64.922	60.638
19)	Endosulfa...	11.364	11.387	4616.4E6	4460.9E6	64.728	58.429
20)	Methoxychlor	11.704	11.044	11970.7E6	9916.6E6	312.315	259.674
21)	Endrin Ke...	12.075	11.760	5231.4E6	5895.7E6	65.275	62.868

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

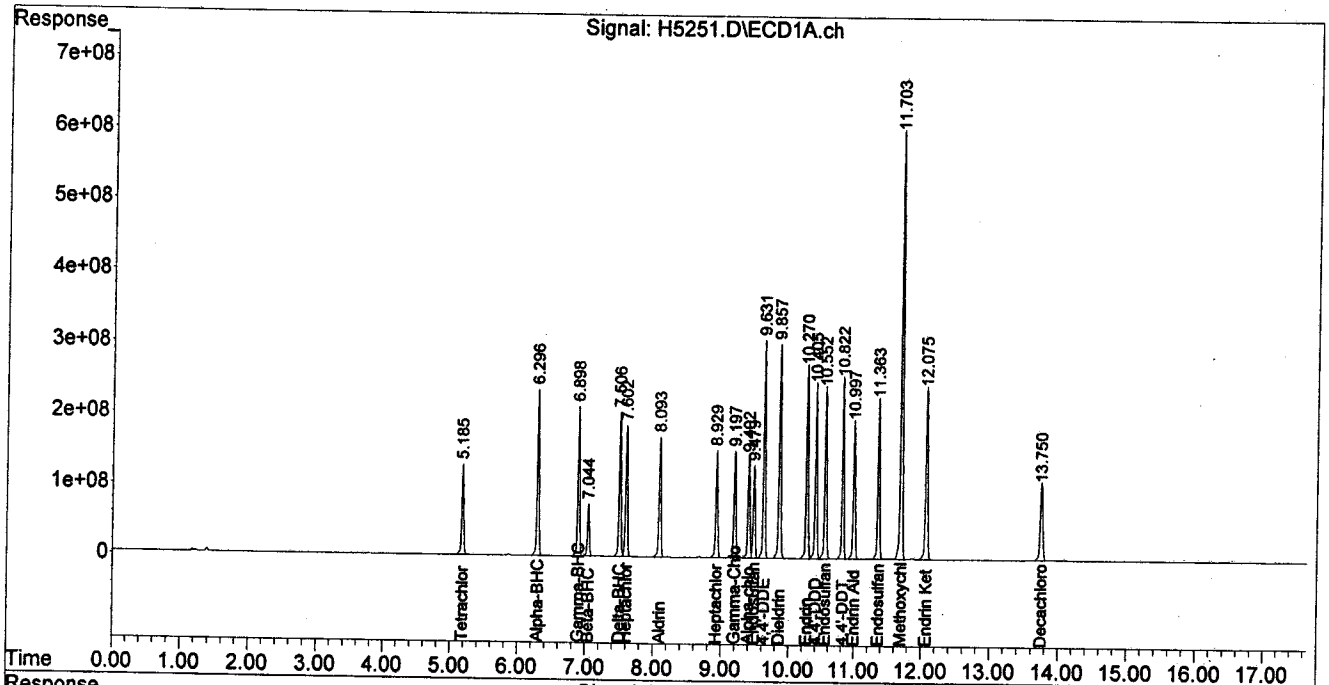
ORIGINAL
Case 42035 SDG COAA5
Episode S-4469 init/date ~ 12/28/11

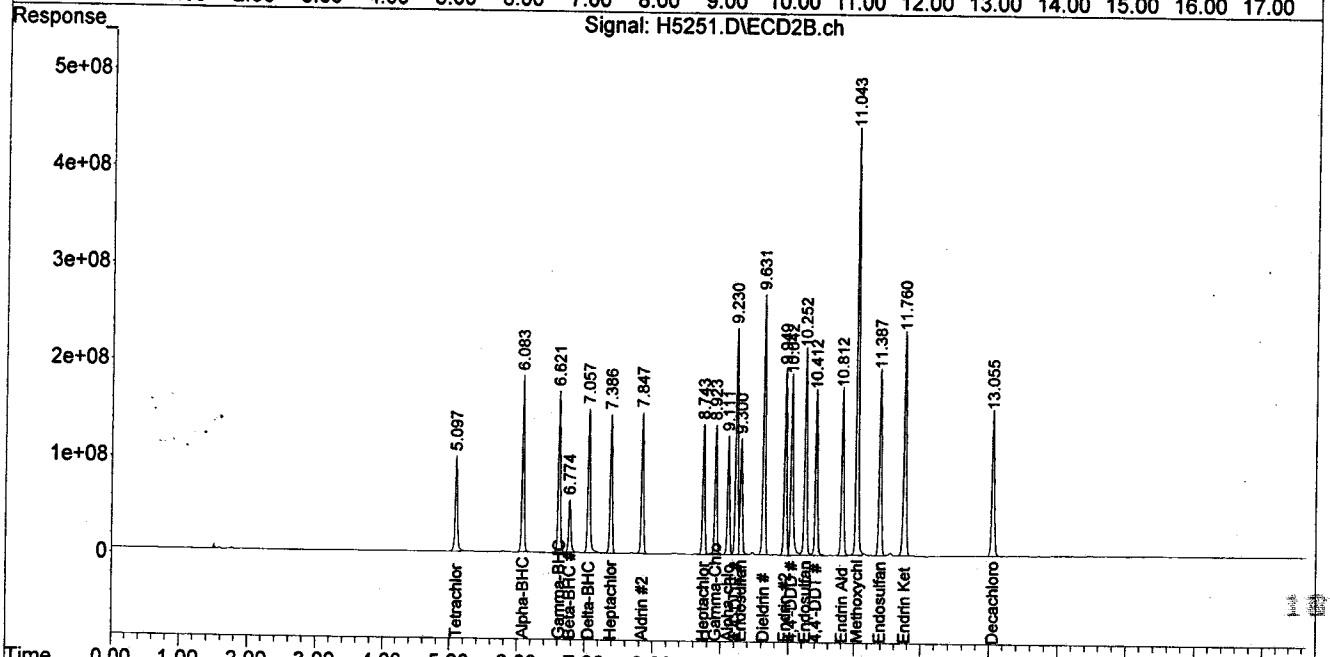
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5251.D(Signal #1) H5251.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 22:59 (#1); 12/27/11 23:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC411 (Sig #1); INDC412 (Sig #2)
Misc : INDC411 (Sig #1); INDC412 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:33:53 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:33:44 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5252.D(Signal #1) H5252.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 23:23 (#1); 12/27/11 23:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC511 (Sig #1); INDC512 (Sig #2)
Misc : INDC511 (Sig #1); INDC512 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:36:10 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:36:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.095	4858.8E6	4908.5E6	62.169	65.458
	Spiked Amount	60.000	Range 18 - 90		Recovery =	103.61%#	109.10%#
22)	S Decachlor...	13.752	13.055	5632.0E6	7996.3E6	126.880	133.543
	Spiked Amount	120.000	Range 36 - 180		Recovery =	105.73%	111.29%
	Target Compounds						
2)	Alpha-BHC	6.296	6.082	8762.0E6	8807.4E6	68.649	72.547
3)	Gamma-BHC...	6.898	6.619	8034.3E6	8156.1E6	67.230	71.120
4)	Beta-BHC	7.045	6.773	2805.9E6	2742.0E6	62.128	64.644
5)	Delta-BHC	7.507	7.055	7929.7E6	7951.4E6	68.308	72.484
6)	Heptachlor	7.603	7.385	7116.8E6	6940.4E6	66.586	66.628
7)	Aldrin	8.094	7.845	6766.4E6	6962.6E6	67.551	69.581
8)	Heptachlo...	8.930	8.743	6045.4E6	6335.5E6	67.241	68.206
9)	Gamma-Chl...	9.199	8.922	6042.5E6	6428.6E6	68.213	67.760
10)	Alpha-chl...	9.404	9.110	5869.0E6	6084.4E6	66.776	69.182
11)	Endosulfan I	9.482	9.299	5182.4E6	5836.7E6	66.527	68.174
12)	4,4'-DDE	9.632	9.229	11673.0E6	11450.7E6	138.032	135.923
13)	Dieldrin	9.859	9.631	12246.0E6	12697.2E6	136.924	135.450
14)	Endrin	10.273	9.948	11173.3E6	9640.9E6	135.062	127.012
15)	4,4'-DDD	10.407	10.041	9648.5E6	9900.0E6	137.773	141.372
16)	Endosulfa...	10.554	10.251	10012.2E6	10649.1E6	135.759	136.657
17)	4,4'-DDT	10.825	10.413	10159.4E6	9469.0E6	140.400	138.723
18)	Endrin Al...	10.999	10.810	7979.2E6	8851.8E6	135.950	139.664
19)	Endosulfa...	11.366	11.386	9216.7E6	9673.7E6	137.639	136.763
20)	Methoxychlor	11.706	11.043	24247.9E6	22522.9E6	676.957	645.911
21)	Endrin Ke...	12.077	11.760	10459.8E6	12518.8E6	139.124	142.307

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

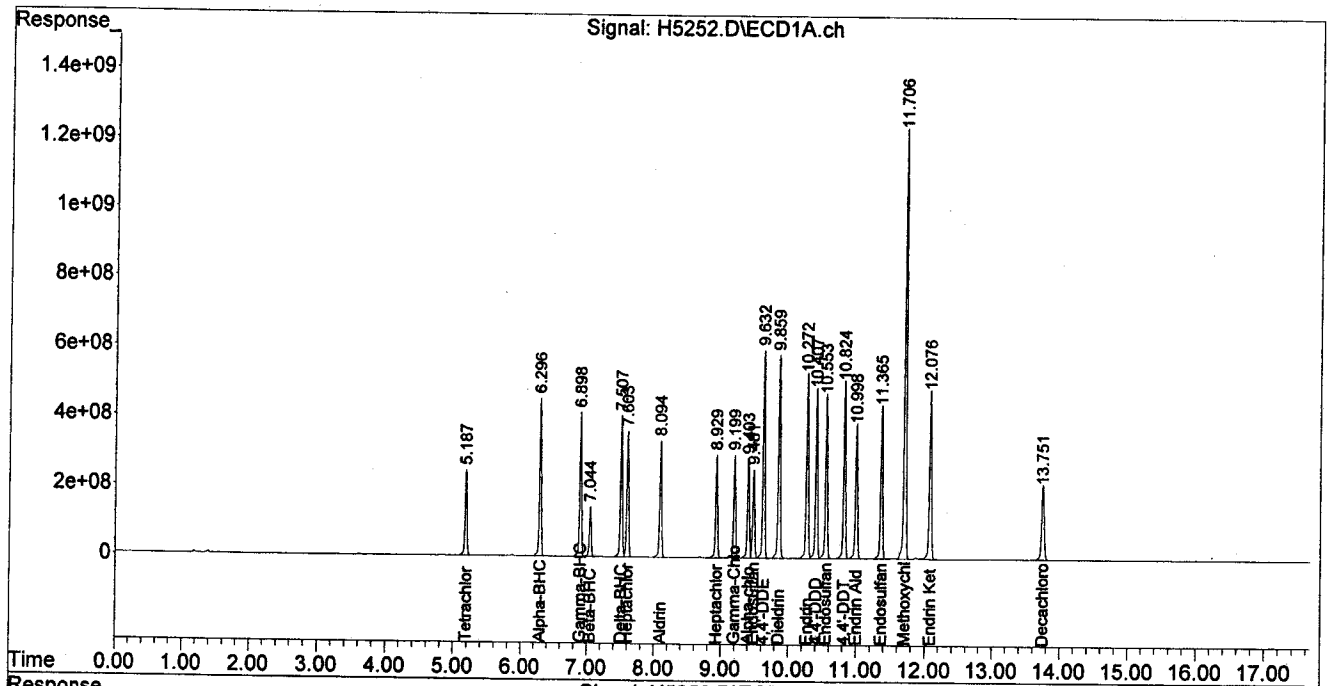
ORIGINAL
Case 42035 SDG COAA5
Episode S-4469 init/date 1/28/14

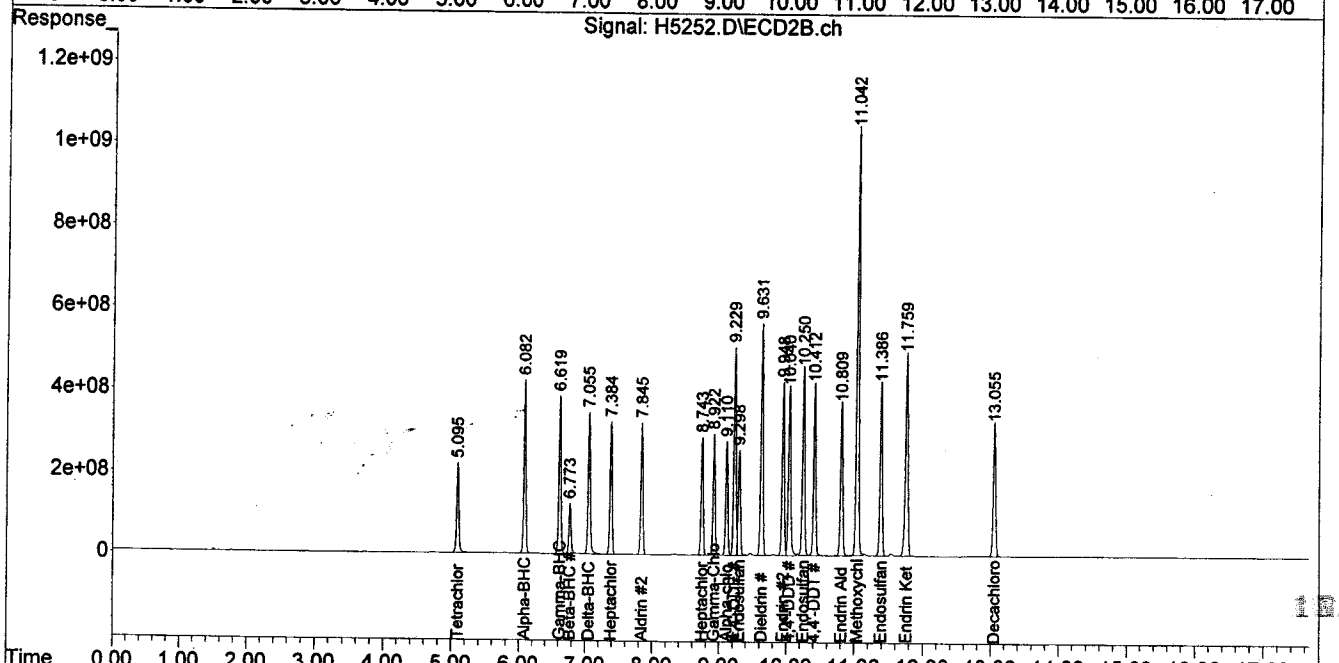
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5252.D(Signal #1) H5252.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 23:23 (#1); 12/27/11 23:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC511 (Sig #1); INDC512 (Sig #2)
Misc : INDC511 (Sig #1); INDC512 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:36:10 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:36:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5254.D(Signal #1)            H5254.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
InstName  : H-7890A(Signal #1)             H-7890B(Signal # 2)
Acq On    : 12/28/11 00:11 (#1); 12/28/11 00:35 (#2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : PEM21 (Sig #1); PEM22 (Sig #2)
Misc      : PEM21 (Sig #1); PEM22 (Sig #2)
ALS Vial  : 14   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:51:42 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title  : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1 uL
Signal #1 Phase : RTX-CLP-2          Signal #2 Phase: RTX-CLP
Signal #1 Info  : 30mLn,  0.53mm I. Signal #2 Info : 30mLn,  0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1) S	Tetrachlo...	5.185	5.097	1234.8E6	1197.3E6	19.130	19.291	
	Spiked Amount	60.000 Range	18 - 90	Recovery	=	31.88%	32.15%	
22) S	Decachlor...	13.751	13.055	756.6E6	1071.5E6	20.186	20.543	
	Spiked Amount	120.000 Range	36 - 180	Recovery	=	16.82%#	17.12%#	
	Target Compounds							
2)	Alpha-BHC	6.295	6.083	1016.7E6	977.0E6	9.652	9.817	
3)	Gamma-BHC...	6.897	6.620	978.2E6	951.0E6	9.913	10.088	
4)	Beta-BHC	7.044	6.775	410.8E6	381.1E6	10.731	10.740	
14)	Endrin	10.271	9.949	3490.8E6	2857.9E6	50.502	50.642	
15)	4,4'-DDD	0.000	10.056	0	223.8E6	N.D.	3.740	#
17)	4,4'-DDT	10.822	10.413	6451.0E6	5833.4E6	105.787	118.587	
18)	Endrin Al...	0.000	10.798	0	143.5E6	N.D.	2.583	#
20)	Methoxychlor	11.703	11.044	7449.2E6	7185.2E6	251.027	270.465	
21)	Endrin Ke...	12.074	11.727	125.8E6	592.8E6	1.954	7.480	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

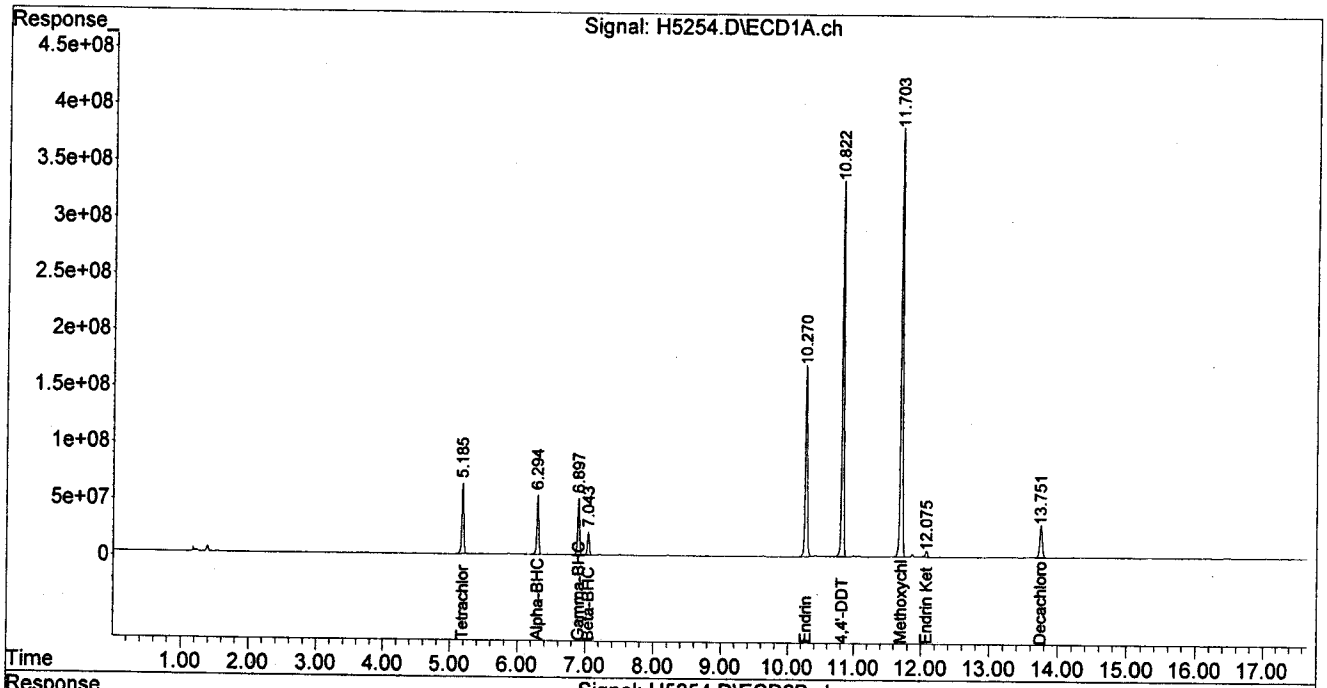
ORIGINAL
Case 42035 SDG COAA5
Episode S-4469 init/date 12/20/14

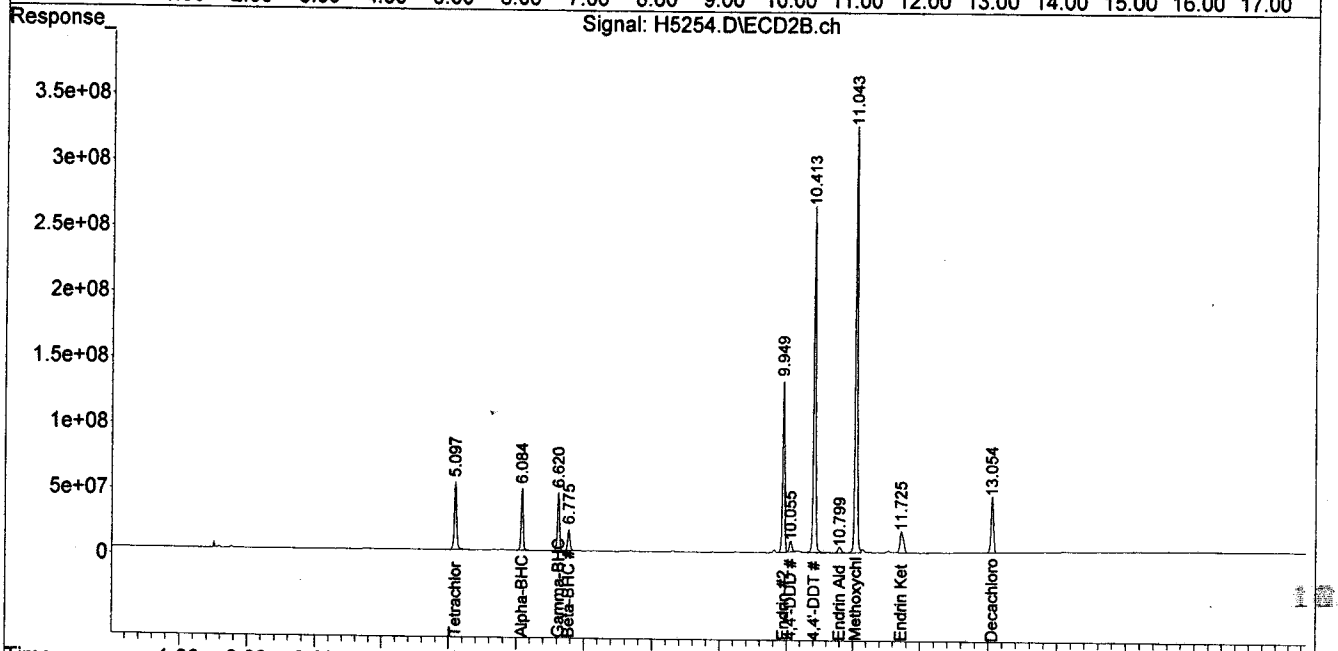
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5254.D(Signal #1) H5254.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 00:11 (#1); 12/28/11 00:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEM21 (Sig #1); PEM22 (Sig #2)
Misc : PEM21 (Sig #1); PEM22 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 09:51:42 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Continuing Calibration Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : CLP-PEST-5250.M
Title : CLP PESTICIDES METHOD
Last Update : Wed Dec 28 11:26:21 2011
Response Via : Initial Calibration

CC Data File: H5267.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	64.552	70.217	E6	-8.8	110
2		Alpha-BHC	105.335	114.318	E6	-8.5	110
3		Gamma-BHC (Lindane)	98.670	105.972	E6	-7.4	107
4		Beta-BHC	38.285	40.346	E6	-5.4	107
5		Delta-BHC	96.991	100.260	E6	-3.4	104
6		Heptachlor	89.436	93.993	E6	-5.1	106
7		Aldrin	84.386	86.662	E6	-2.7	104
8		Heptachlor Epoxide	75.958	75.103	E6	1.1	100
9		Gamma-Chlordane	75.552	73.699	E6	2.5	99
10		Alpha-chlordane	74.523	71.141	E6	4.5	96
11		Endosulfan I	66.006	65.078	E6	1.4	99
12		4,4'-DDE	71.191	69.739	E6	2.0	99
13		Dieldrin	75.255	73.060	E6	2.9	98
14		Endrin	69.122	65.284	E6	5.6	94
15		4,4'-DDD	58.623	55.211	E6	5.8	93
16		Endosulfan II	62.298	58.307	E6	6.4	95
17		4,4'-DDT	60.981	56.250	E6	7.8	94
18		Endrin Aldehyde	50.861	46.688	E6	8.2	94
19		Endosulfan sulfate	57.128	53.391	E6	6.5	95
20		Methoxychlor	29.675	28.603	E6	3.6	98
21		Endrin Ketone	64.355	61.507	E6	4.4	98
22	S	Decachlorobiphenyl	37.482	35.930	E6	4.1	99

Signal #2
CC Data File: H5267.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	62.066	62.917	E6	-1.4	100
2		Alpha-BHC	99.522	101.176	E6	-1.7	100
3		Gamma-BHC (Lindane)	94.265	96.197	E6	-2.1	100
4		Beta-BHC	35.485	36.248	E6	-2.2	102
5		Delta-BHC	90.604	92.343	E6	-1.9	100
6		Heptachlor	81.903	85.472	E6	-4.4	102
7		Aldrin	84.354	81.826	E6	3.0	95
8		Heptachlor Epoxide	78.812	74.904	E6	5.0	93
9		Gamma-Chlordane	79.474	74.343	E6	6.5	93
10		Alpha-chlordane	74.697	68.367	E6	8.5	91
11		Endosulfan I	74.039	64.304	E6	13.1	86
12		4,4'-DDE	69.982	66.236	E6	5.4	92
13		Dieldrin	78.716	72.481	E6	7.9	90
14		Endrin	56.433	54.823	E6	2.9	94
15		4,4'-DDD	59.838	52.311	E6	12.6	87
16		Endosulfan II	65.505	58.524	E6	10.7	90
17		4,4'-DDT	49.191	46.506	E6	5.5	92
18		Endrin Aldehyde	55.563	47.156	E6	15.1	84
19		Endosulfan sulfate	59.816	51.130	E6	14.5	85
20		Methoxychlor	26.566	25.478	E6	4.1	93
21		Endrin Ketone	79.256	64.184	E6	19.0	80
22	S	Decachlorobiphenyl	52.159	45.584	E6	12.6	88

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5267.D(Signal #1) H5267.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 05:24 (#1); 12/28/11 05:48 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC321 (Sig #1); INDC322 (Sig #2)
Misc : INDC321 (Sig #1); INDC322 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:26:02 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.187	5.098	1404.3E6	1258.3E6	21.755	20.274
	Spiked Amount	60.000	Range 18 - 90		Recovery =	36.26%	33.79%
22)	S Decachlor...	13.753	13.057	1437.2E6	1823.4E6	38.344	34.958
	Spiked Amount	120.000	Range 36 - 180		Recovery =	31.95%#	29.13%#
	Target Compounds						
2)	Alpha-BHC	6.297	6.084	2286.4E6	2023.5E6	21.705	20.332
3)	Gamma-BHC...	6.898	6.621	2119.4E6	1923.9E6	21.480	20.410
4)	Beta-BHC	7.045	6.775	806.9E6	725.0E6	21.076	20.430
5)	Delta-BHC	7.508	7.058	2005.2E6	1846.9E6	20.674	20.384
6)	Heptachlor	7.603	7.387	1879.9E6	1709.4E6	21.019	20.871
7)	Aldrin	8.094	7.848	1733.2E6	1636.5E6	20.539	19.401
8)	Heptachlo...	8.931	8.745	1502.1E6	1498.1E6	19.775	19.008
9)	Gamma-Chl...	9.200	8.924	1474.0E6	1486.9E6	19.509	18.709
10)	Alpha-chl...	9.404	9.112	1422.8E6	1367.3E6	19.092	18.305
11)	Endosulfan I	9.483	9.300	1301.6E6	1286.1E6	19.719	17.370
12)	4,4'-DDE	9.632	9.231	2789.6E6	2649.4E6	39.184	37.859
13)	Dieldrin	9.859	9.633	2922.4E6	2899.2E6	38.833	36.832
14)	Endrin	10.273	9.950	2611.4E6	2192.9E6	37.779	38.859
15)	4,4'-DDD	10.407	10.043	2208.5E6	2092.4E6	37.672	34.969
16)	Endosulfa...	10.554	10.253	2332.3E6	2341.0E6	37.438	35.737
17)	4,4'-DDT	10.825	10.415	2250.0E6	1860.2E6	36.896	37.816
18)	Endrin Al...	10.999	10.812	1867.5E6	1886.2E6	36.718	33.948
19)	Endosulfa...	11.365	11.388	2135.7E6	2045.2E6	37.384	34.192
20)	Methoxychlor	11.705	11.045	5720.6E6	5095.5E6	192.775	191.805
21)	Endrin Ke...	12.077	11.762	2460.3E6	2567.4E6	38.230	32.393

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

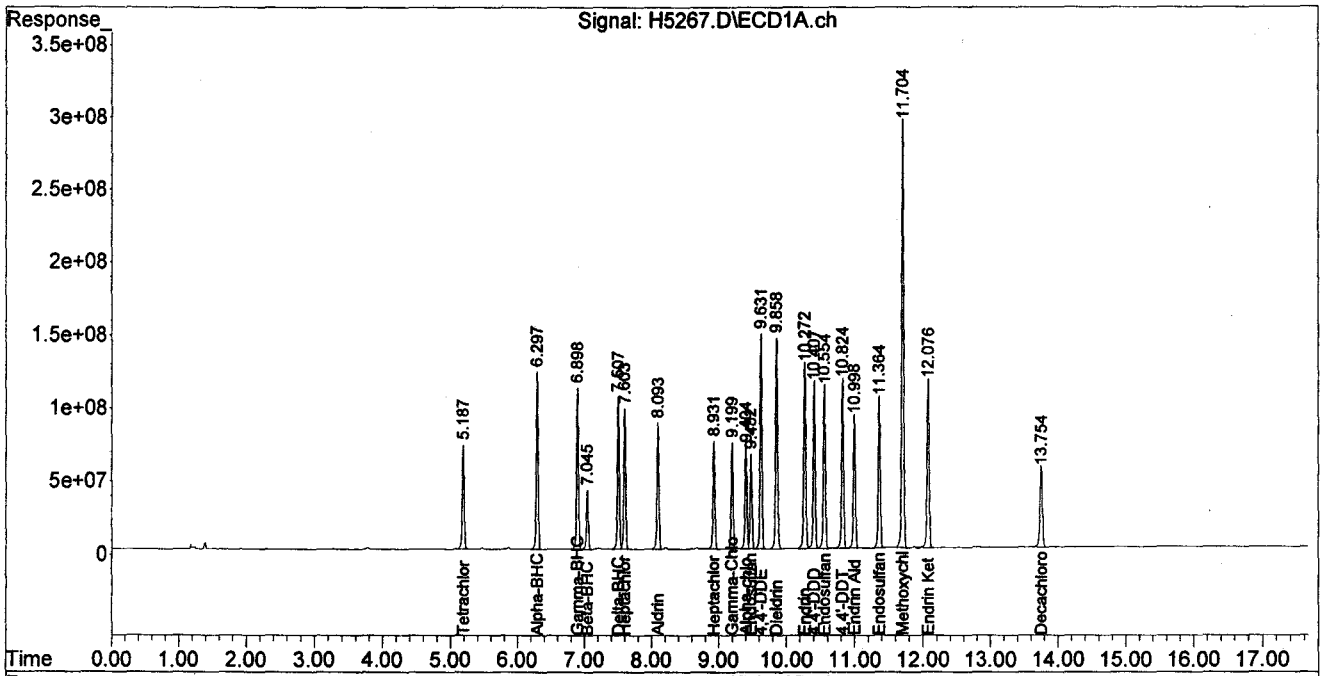
ORIGINAL
Case 42035 SDG COAA5
Episode S-4469 init/date 1/2/2014

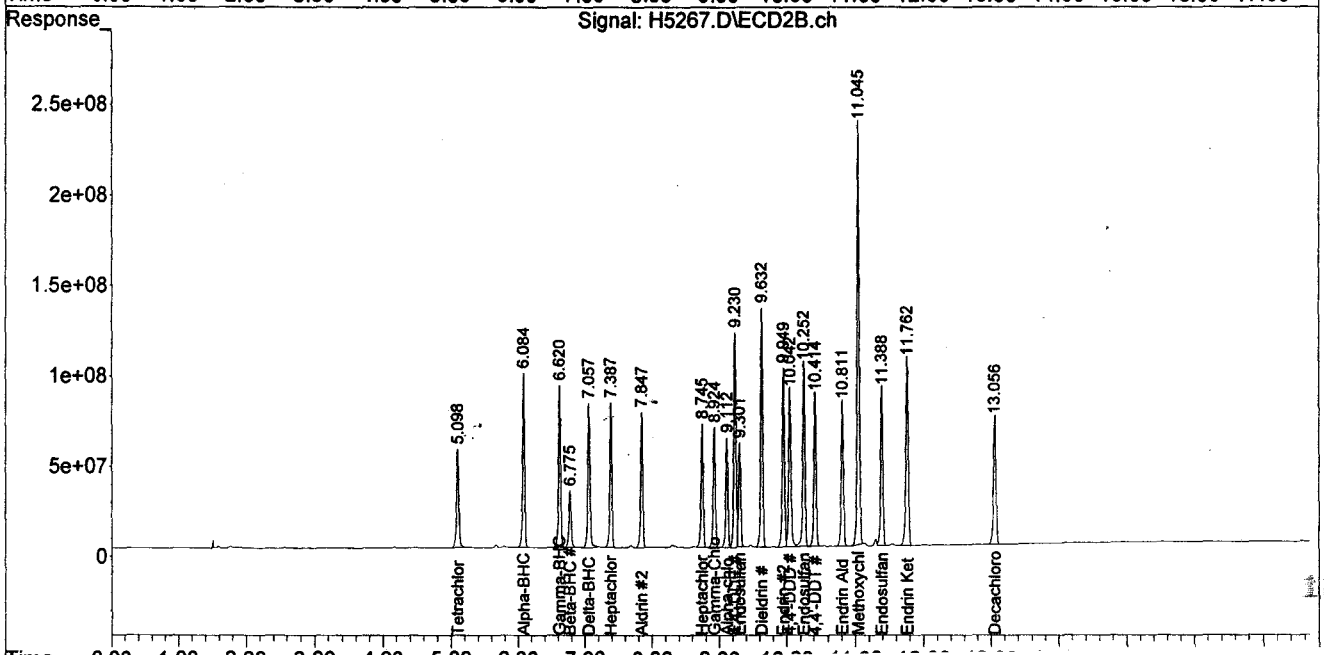
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5267.D(Signal #1) H5267.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 05:24 (#1); 12/28/11 05:48 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC321 (Sig #1); INDC322 (Sig #2)
Misc : INDC321 (Sig #1); INDC322 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:26:02 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1843

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5293.D(Signal #1) H5293.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 16:22 (#1); 12/28/11 16:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEM31 (Sig #1); PEM32 (Sig #2)
Misc : PEM31 (Sig #1); PEM32 (Sig #2)
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 09:02:28 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1)	S Tetrachlo...	5.189	5.096	1211.4E6	1220.5E6	18.767	19.664	
	Spiked Amount	60.000	Range 18 - 90		Recovery =	31.28%	32.77%	
22)	S Decachlor...	13.756	13.055	716.9E6	953.5E6	19.127	18.280	
	Spiked Amount	120.000	Range 36 - 180		Recovery =	15.94%#	15.23%#	
	Target Compounds							
2)	Alpha-BHC	6.298	6.082	991.6E6	977.4E6	9.413	9.821	
3)	Gamma-BHC...	6.900	6.619	951.2E6	952.1E6	9.641	10.100	
4)	Beta-BHC	7.047	6.774	398.3E6	384.6E6	10.403	10.838	
14)	Endrin	10.274	9.948	3110.9E6	2916.4E6	45.005	51.678	
15)	4,4'-DDD	10.418	10.052	51289836	161.5E6	0.875	2.698	#
17)	4,4'-DDT	10.827	10.413	5893.1E6	5721.6E6	96.637	116.314	
18)	Endrin Al...	0.000	10.807	0	59429598	N.D.	1.070	#
20)	Methoxychlor	11.707	11.043	6935.1E6	7004.9E6	233.701	263.677	
21)	Endrin Ke...	12.077	11.751	211.2E6	309.2E6	3.282	3.902	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

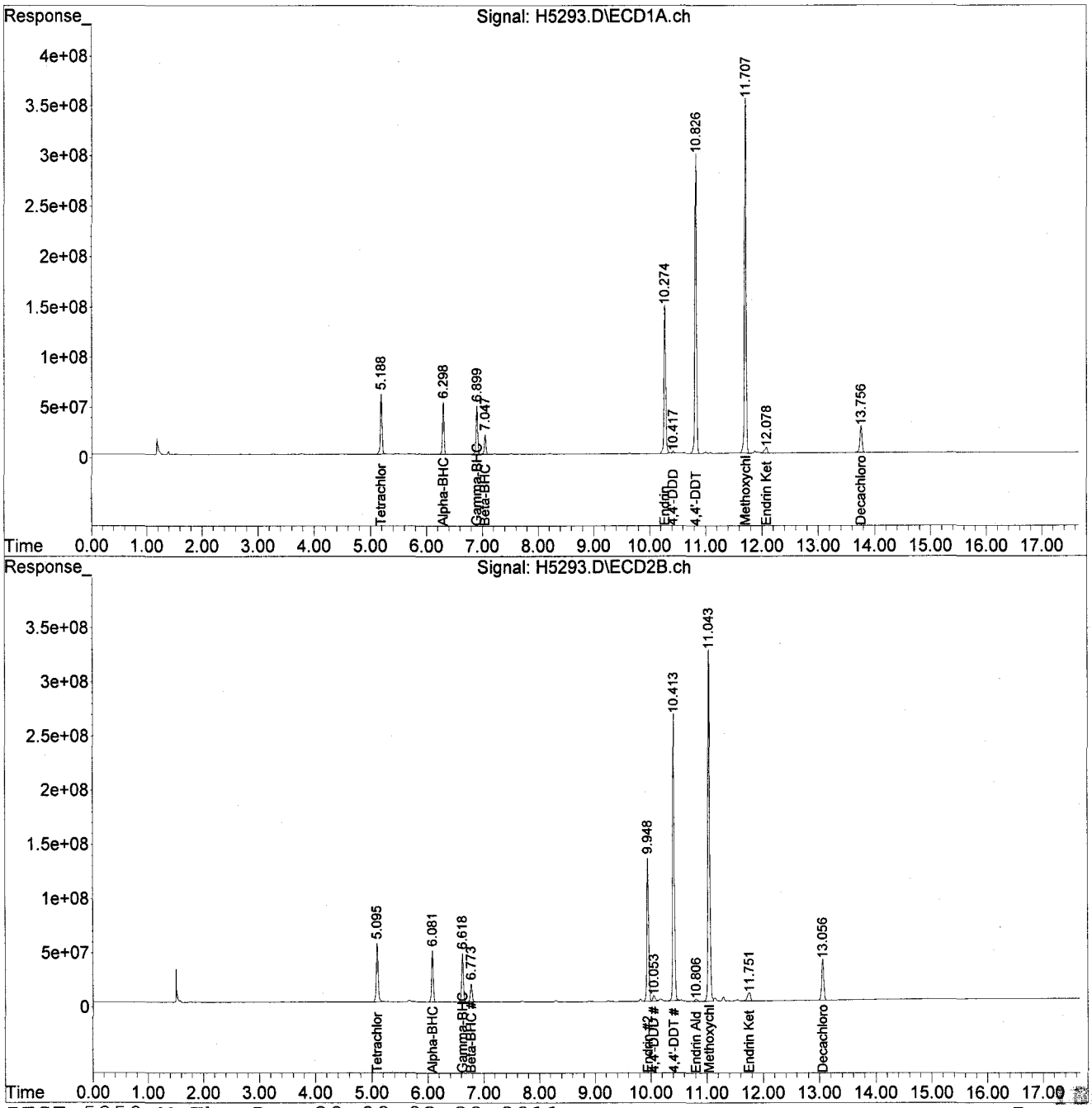
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 Init/date 12/29/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5293.D(Signal #1) H5293.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 16:22 (#1); 12/28/11 16:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEM31 (Sig #1); PEM32 (Sig #2)
Misc : PEM31 (Sig #1); PEM32 (Sig #2)
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 09:02:28 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK57 ~~(1)~~ N

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PBLK57

Sample wt/vol: 30.00 (g/mL) G Lab File ID: H5257

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5257.D(Signal #1) H5257.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 01:23 (#1); 12/28/11 01:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PBLK57 (Sig #1); PBLK57 (Sig #2)
Misc : PBLK57 30.0G/5.0ML (Sig #1); PBLK57 30.0G/5.0ML (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:05:40 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.184	5.097	4019.3E6	3856.1E6	62.264	62.130
	Spiked Amount	60.000	Range 18 - 90		Recovery =	103.77%#	103.55%#
22)	S Decachlor...	13.751	13.055	5258.4E6	7050.1E6	140.291	135.165
	Spiked Amount	120.000	Range 36 - 180		Recovery =	116.91%	112.64%
	Target Compounds						

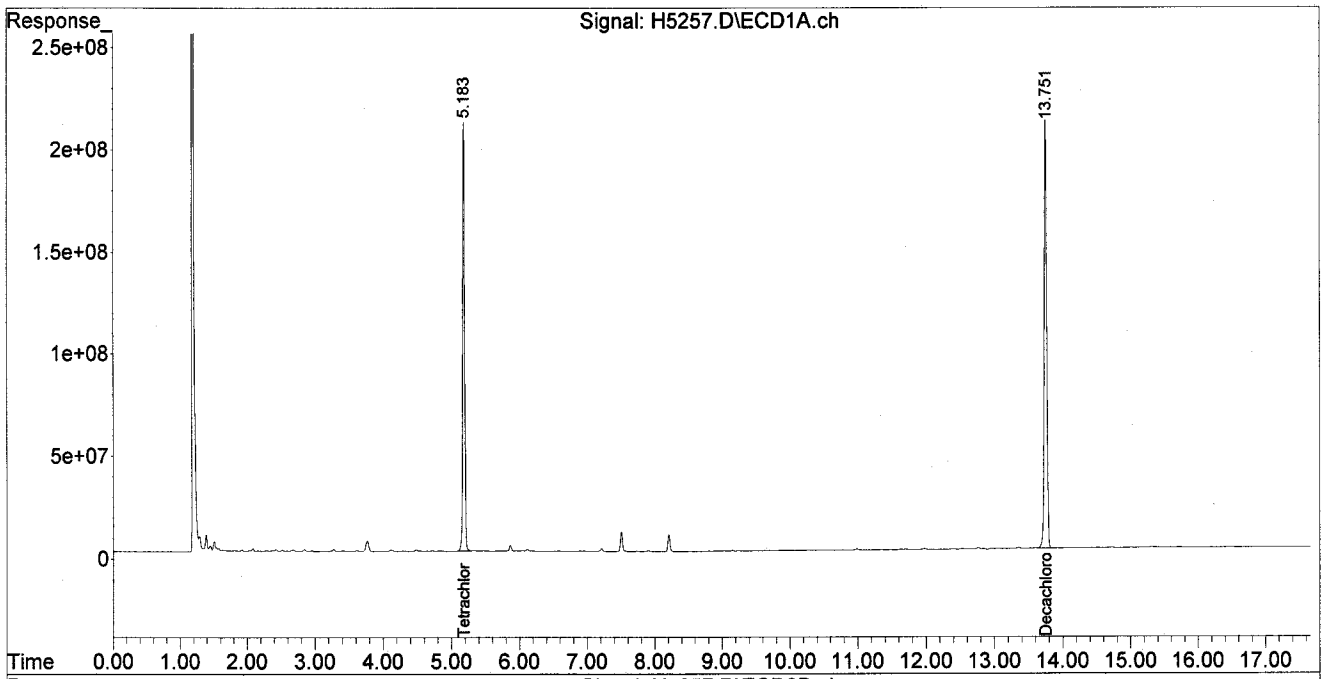
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

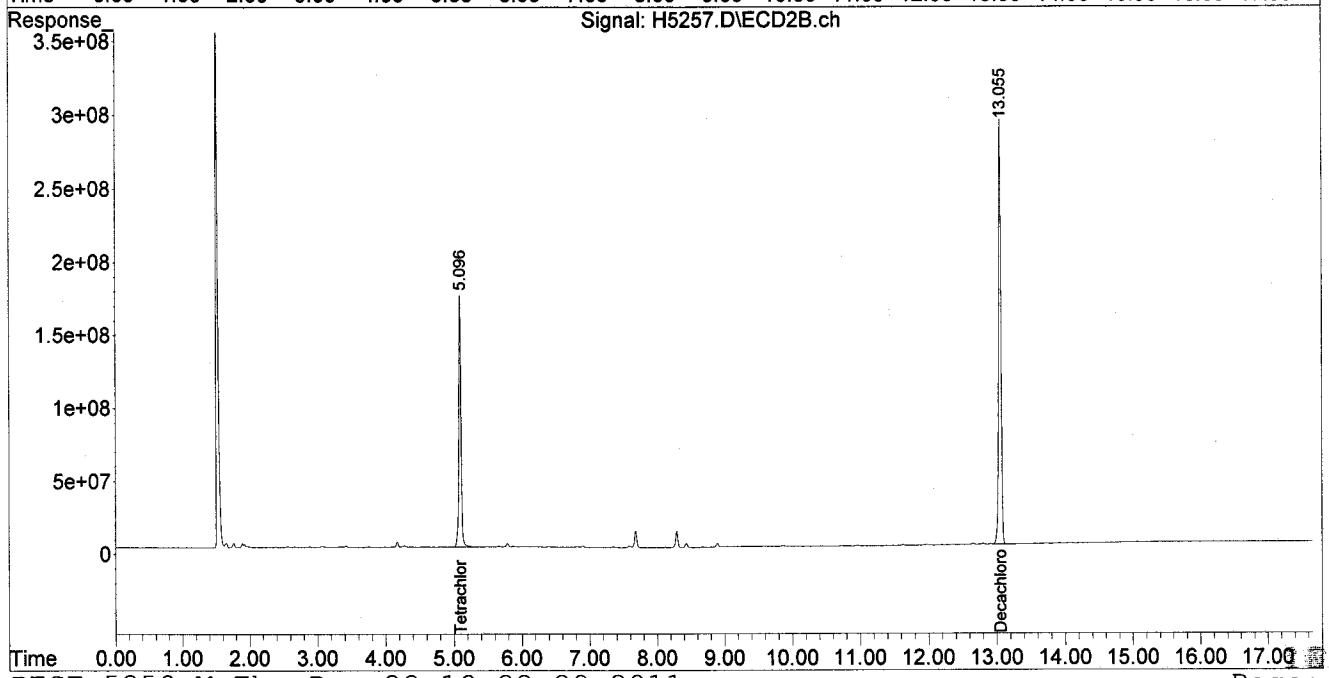
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5257.D(Signal #1) H5257.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 01:23 (#1); 12/28/11 01:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PBLK57 (Sig #1); PBLK57 (Sig #2)
Misc : PBLK57 30.0G/5.0ML (Sig #1); PBLK57 30.0G/5.0ML (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:05:40 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK11(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H5253

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

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK12(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H5253

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

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5253.D(Signal #1) H5253.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 23:47 (#1); 12/28/11 00:11 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLK11 (Sig #1); PIBLK12 (Sig #2)
Misc : PIBLK11 (Sig #1); PIBLK12 (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:02:36 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:40:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.185	5.096	1238.2E6	1165.4E6	19.181	18.777
Spiked Amount 60.000	Range 18 - 90		Recovery =		31.97%	31.30%
22) S Decachlor...	13.752	13.055	1402.2E6	1972.1E6	37.409	37.810
Spiked Amount 120.000	Range 36 - 180		Recovery =		31.17%#	31.51%#
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

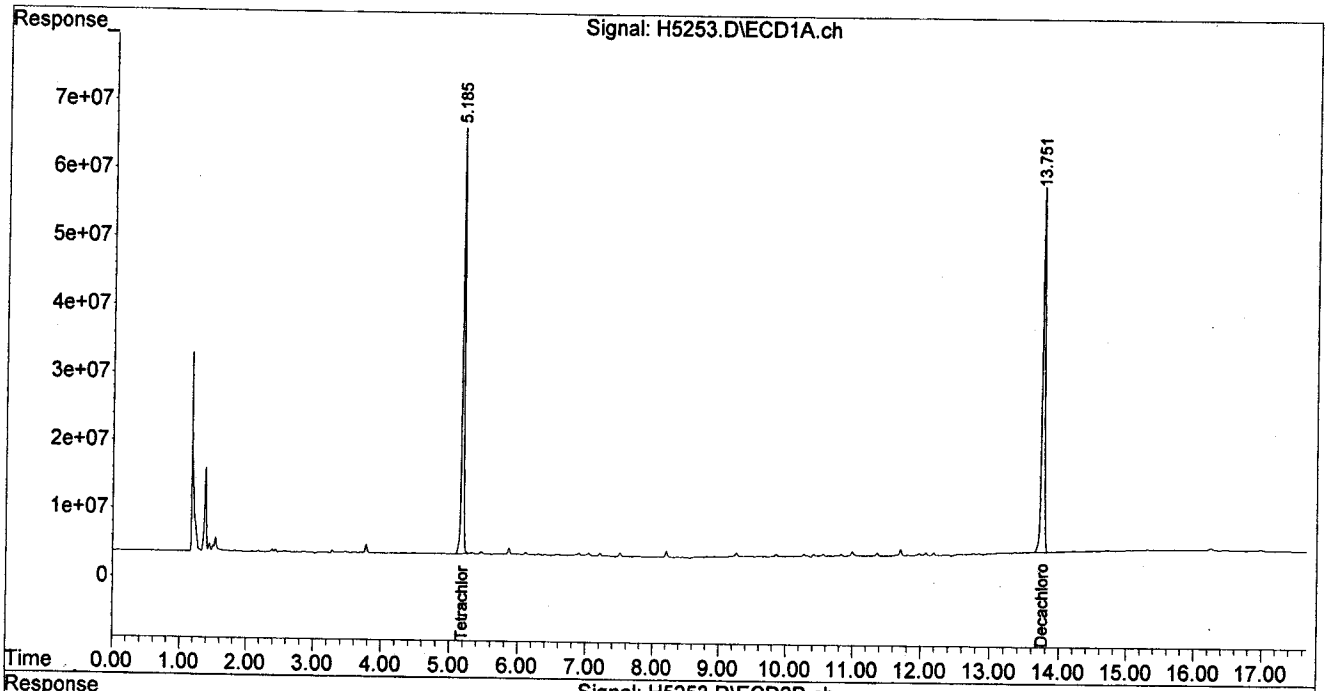
ORIGINAL
Case 42035 SDG COMS
Episode S-4469 init/date m 12/30/14

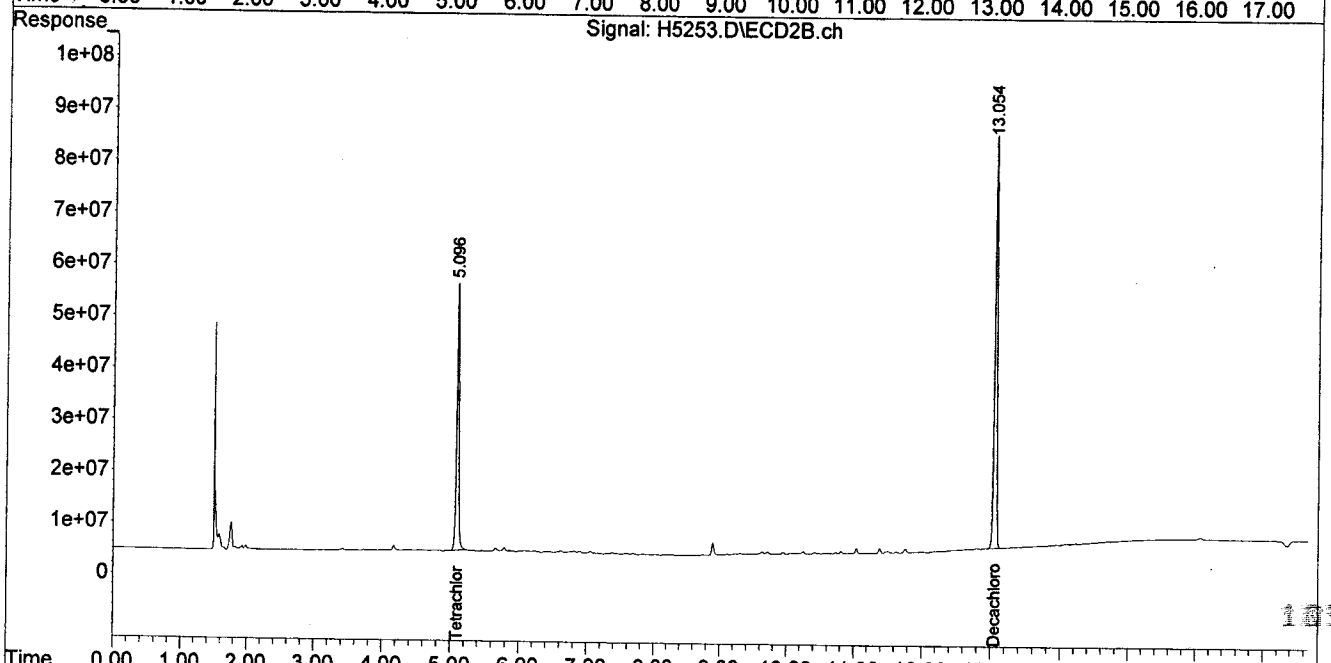
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5253.D(Signal #1) H5253.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/27/11 23:47 (#1); 12/28/11 00:11 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLK11 (Sig #1); PIBLK12 (Sig #2)
Misc : PIBLK11 (Sig #1); PIBLK12 (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:02:36 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:40:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK21(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK21

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H5266

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

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK22(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK22

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H5266

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

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5266.D(Signal #1) H5266.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 05:00 (#1); 12/28/11 05:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLK21 (Sig #1); PIBLK22 (Sig #2)
Misc : PIBLK21 (Sig #1); PIBLK22 (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:25:54 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:40:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.187	5.097	1328.5E6	1201.5E6	20.580	19.358
Spiked Amount 60.000	Range 18 - 90		Recovery =		34.30%	32.26%
22) S Decachlor...	13.753	13.056	1303.6E6	1691.9E6	34.778	32.437
Spiked Amount 120.000	Range 36 - 180		Recovery =		28.98%#	27.03%#
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

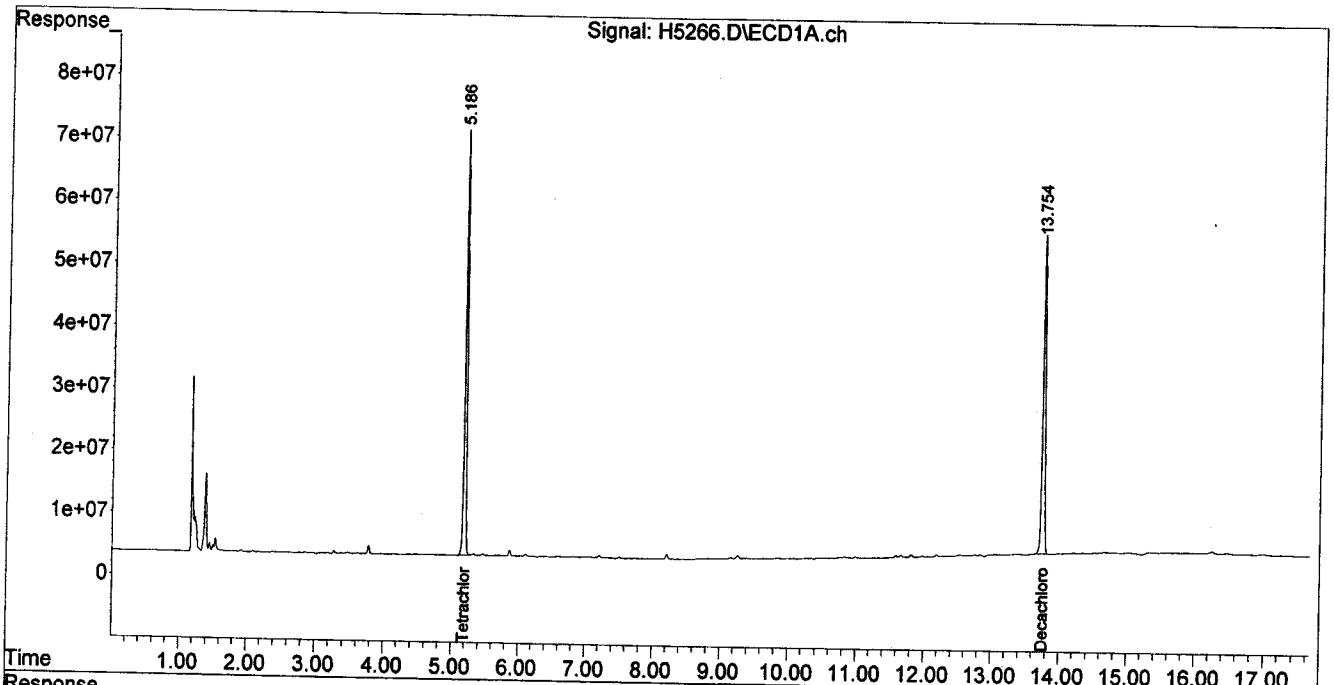
ORIGINAL
Case 42035 SDG COAA5
Episode 5-4469 init/date 1/24/12

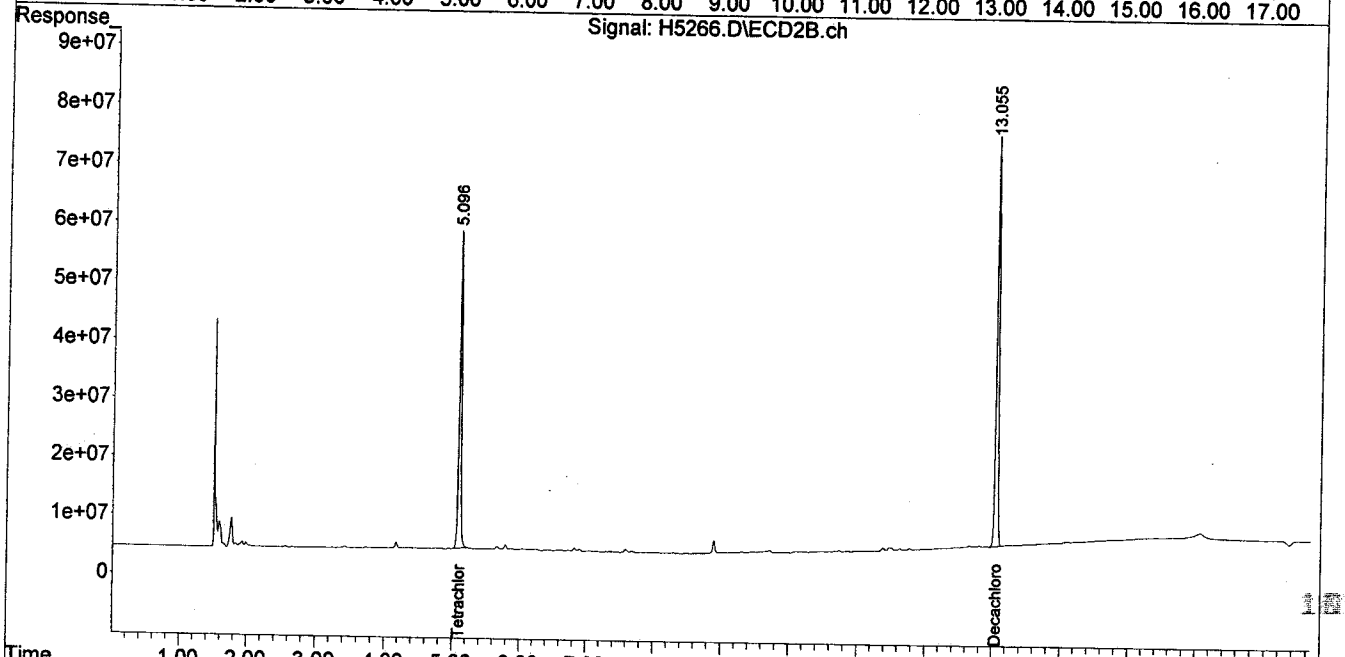
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5266.D(Signal #1) H5266.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 05:00 (#1); 12/28/11 05:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLK21 (Sig #1); PIBLK22 (Sig #2)
Misc : PIBLK21 (Sig #1); PIBLK22 (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:25:54 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:40:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK31(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK31

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H5292

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

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK32(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK32

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H5292

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

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5292.D(Signal #1) H5292.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 15:58 (#1); 12/28/11 16:22 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLK31 (Sig #1); PIBLK32 (Sig #2)
Misc : PIBLK31 (Sig #1); PIBLK32 (Sig #2)
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 09:02:11 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	5.186	5.096	1272.1E6	1254.9E6	19.706	20.219
Spiked Amount 60.000	Range 18 - 90		Recovery =		32.84%	33.70%
22) S Decachlor...	13.755	13.055	1441.6E6	1842.4E6	38.460	35.323
Spiked Amount 120.000	Range 36 - 180		Recovery =		32.05%#	29.44%#
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

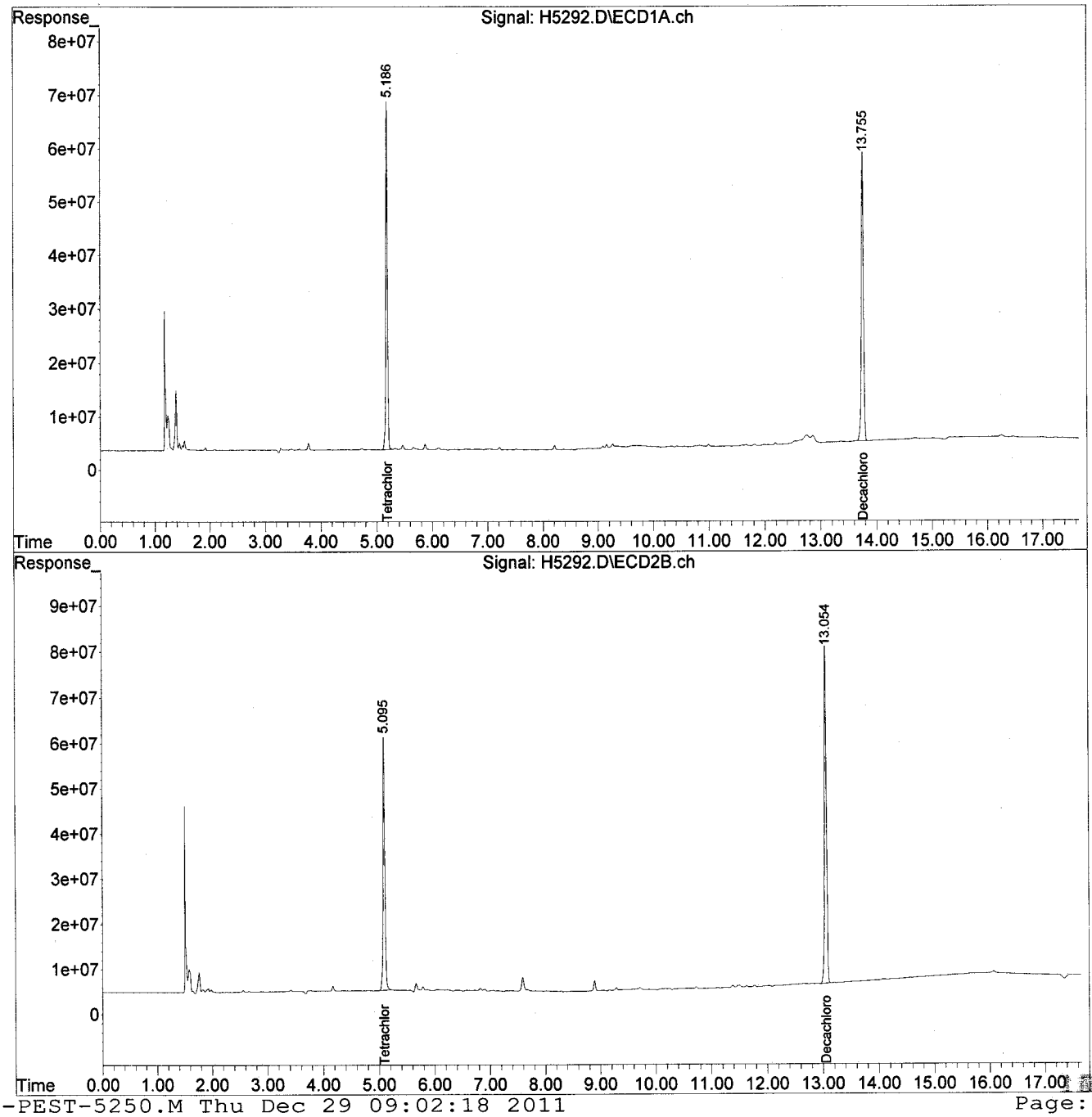
ORIGINAL
Case 42040 SDG F4XP0
Episode F4460 init/date 1/1/12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5292.D(Signal #1) H5292.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 15:58 (#1); 12/28/11 16:22 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLK31 (Sig #1); PIBLK32 (Sig #2)
Misc : PIBLK31 (Sig #1); PIBLK32 (Sig #2)
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 09:02:11 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5289

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	19	
76-44-8	Heptachlor	20	
309-00-2	Aldrin	20	
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	40	
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	39	
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	39	
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 30.10 (g/mL) G Lab File ID: H5289

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	18	
76-44-8	Heptachlor	19	
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	36	
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	43	
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	45	
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5289.D(Signal #1) H5289.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 14:46 (#1); 12/28/11 15:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MS (Sig #1); F4XP2MS (Sig #2)
Misc : S-4460.03MS 30.1G/5.0ML (Sig #1); S-4460.03MS 30.1G/5.0ML (Sig #2)
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:59:14 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.096	3020.4E6	2532.8E6	46.790	40.808
	Spiked Amount	60.000	Range 18 - 90		Recovery =	77.98%	68.01%
22)	S Decachlor...	13.754	13.055	3520.1E6	4405.7E6	93.913	84.467
	Spiked Amount	120.000	Range 36 - 180		Recovery =	78.26%	70.39%
	Target Compounds						
3)	Gamma-BHC...	6.898	6.619	3400.9E6	3090.0E6	34.467	32.780
6)	Heptachlor	7.603	7.385	3265.0E6	2896.2E6	36.506	35.361
7)	Aldrin	8.095	7.846	3062.1E6	2660.1E6	36.286	31.535
13)	Dieldrin	9.860	9.630	5507.8E6	5262.8E6	73.188	66.858
14)	Endrin	10.274	9.948	4927.3E6	4428.2E6	71.284	78.468
17)	4,4'-DDT	10.825	10.412	4385.2E6	4052.7E6	71.911	82.387

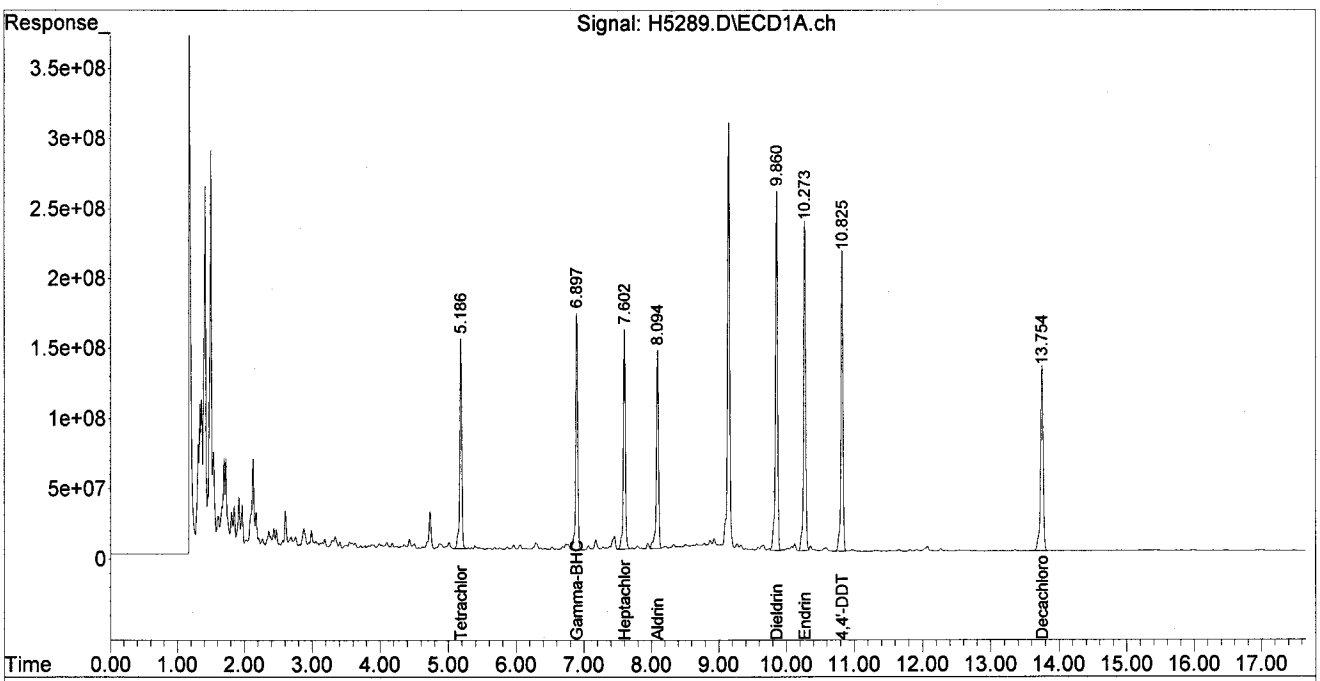
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5289.D(Signal #1) H5289.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 14:46 (#1); 12/28/11 15:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MS (Sig #1); F4XP2MS (Sig #2)
Misc : S-4460.03MS 30.1G/5.0ML (Sig #1); S-4460.03MS 30.1G/5.0ML (Sig #2
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 08:59:14 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5290

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	19	
76-44-8	Heptachlor	20	
309-00-2	Aldrin	20	
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	40	
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	39	
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	40	
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 30.30 (g/mL) G Lab File ID: H5290

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	19	
76-44-8	Heptachlor	20	
309-00-2	Aldrin	18	
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	38	
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	44	
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	46	
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5290.D(Signal #1) H5290.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 15:10 (#1); 12/28/11 15:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MSD (Sig #1); F4XP2MSD (Sig #2)
Misc : S-4460.03MSD 30.3G/5.0ML (Sig #1); S-4460.03MSD 30.3G/5.0ML (Sig #2)
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 09:00:44 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.188	5.096	3038.8E6	2655.6E6	47.076	42.787
	Spiked Amount 60.000	Range 18 - 90		Recovery =		78.46%	71.31%
22)	S Decachlor...	13.753	13.056	3502.2E6	4547.0E6	93.436	87.176
	Spiked Amount 120.000	Range 36 - 180		Recovery =		77.86%	72.65%
	Target Compounds						
3)	Gamma-BHC...	6.899	6.620	3503.9E6	3292.2E6	35.511	34.924
6)	Heptachlor	7.603	7.385	3326.5E6	3056.6E6	37.194	37.319
7)	Aldrin	8.095	7.846	3093.2E6	2753.6E6	36.655	32.643
13)	Dieldrin	9.860	9.631	5623.3E6	5457.6E6	74.723	69.332
14)	Endrin	10.273	9.949	5011.9E6	4622.9E6	72.507	81.918
17)	4,4'-DDT	10.826	10.413	4476.1E6	4225.7E6	73.401	85.904

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

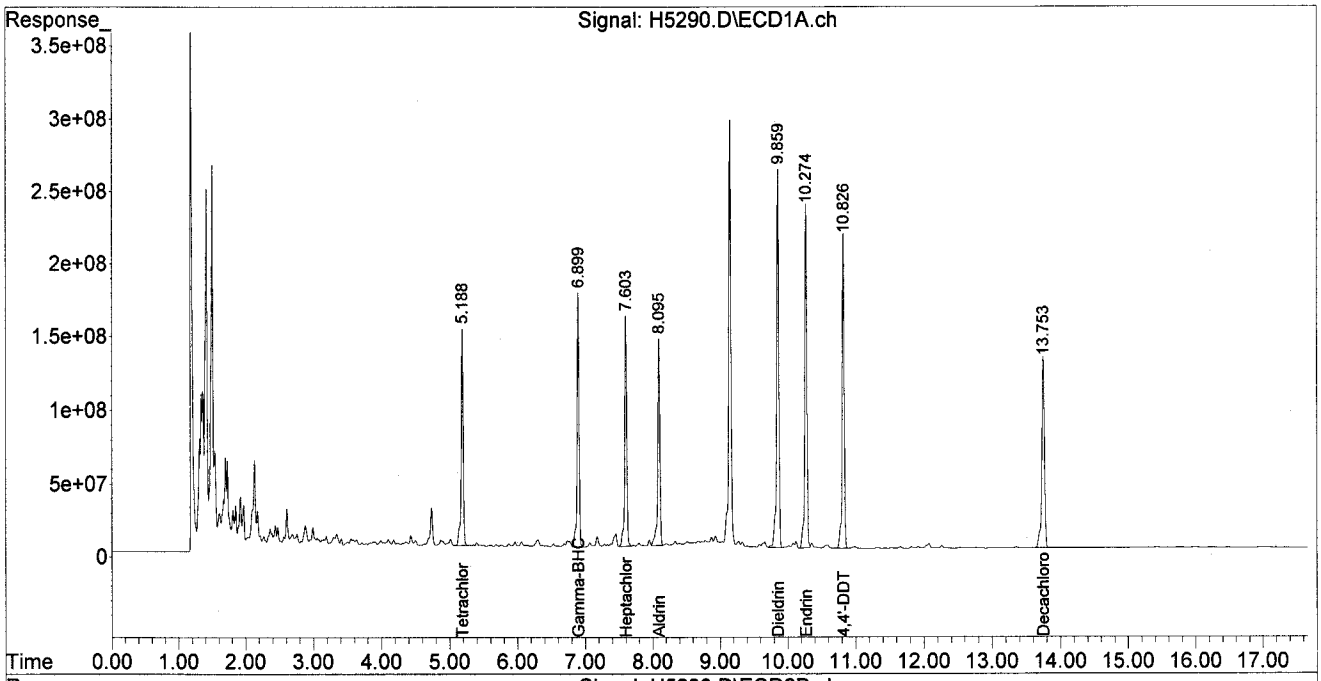
1057

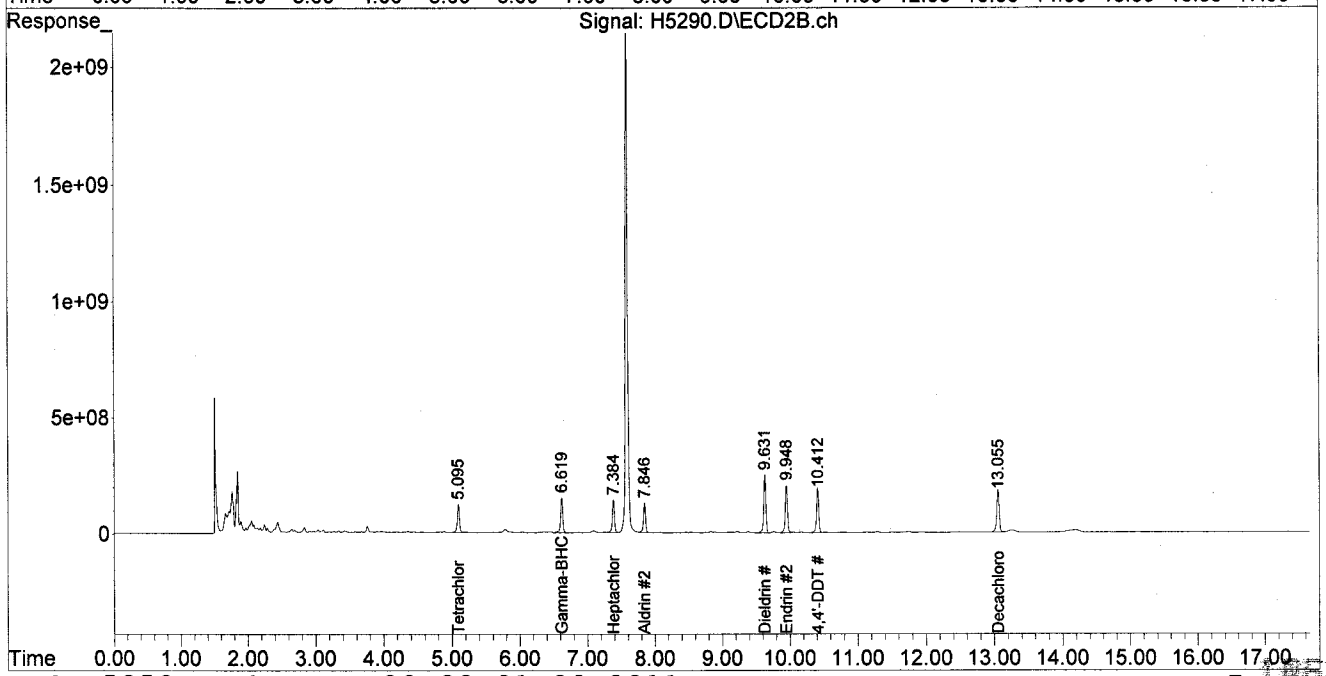
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5290.D(Signal #1) H5290.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 15:10 (#1); 12/28/11 15:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MSD (Sig #1); F4XP2MSD (Sig #2)
Misc : S-4460.03MSD 30.3G/5.0ML (Sig #1); S-4460.03MSD 30.3G/5.0ML (Sig
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 29 09:00:44 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 11:26:45 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS57(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PLCS57

Sample wt/vol: 30.00 (g/mL) G Lab File ID: H5258

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.5	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.5	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.0	J
72-55-9	4,4'-DDE	3.1	J
72-20-8	Endrin	3.1	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.6	J
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS57(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: _____ SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PLCS57

Sample wt/vol: 30.00 (g/mL) G Lab File ID: H5258

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 12/15/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____ Sulfur Cleanup: (Y/N) N

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.6	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.6	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	J
72-55-9	4,4'-DDE	3.2	J
72-20-8	Endrin	3.5	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.5	
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	
8001-35-2	Toxaphene	170	U

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5258.D(Signal #1) H5258.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 01:47 (#1); 12/28/11 02:12 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PLCS57 (Sig #1); PLCS57 (Sig #2)
Misc : PLCS57 30.0G/5.0ML (Sig #1); PLCS57 30.0G/5.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:16:32 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	5.186	5.097	3581.8E6	3478.8E6	55.487	56.050
	Spiked Amount	60.000	Range 18 - 90		Recovery =	92.48%#	93.42%#
22)	S Decachlor...	13.753	13.056	4617.7E6	6423.6E6	123.196	123.154
	Spiked Amount	120.000	Range 36 - 180		Recovery =	102.66%	102.63%
	Target Compounds						
3)	Gamma-BHC...	6.897	6.620	449.9E6	438.8E6	4.560	4.655
8)	Heptachlo...	8.930	8.744	352.6E6	369.0E6	4.643	4.682
9)	Gamma-Chl...	9.199	8.923	353.2E6	400.6E6	4.676	5.041
12)	4,4'-DDE	9.631	9.230	657.1E6	671.4E6	9.231	9.593
13)	Dieldrin	9.858	9.632	685.9E6	777.9E6	9.115	9.883
14)	Endrin	10.272	9.949	641.7E6	600.6E6	9.284	10.643
19)	Endosulfa...	11.365	11.387	570.4E6	621.2E6	9.985	10.385

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

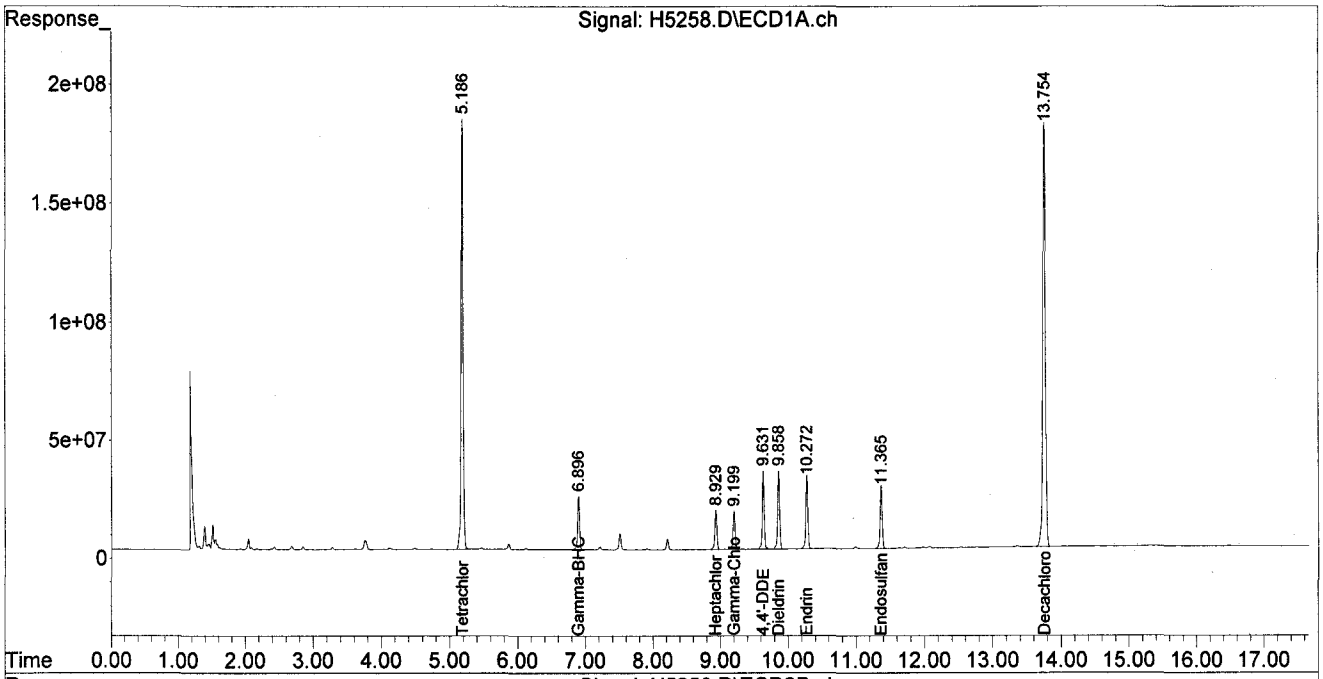
1871

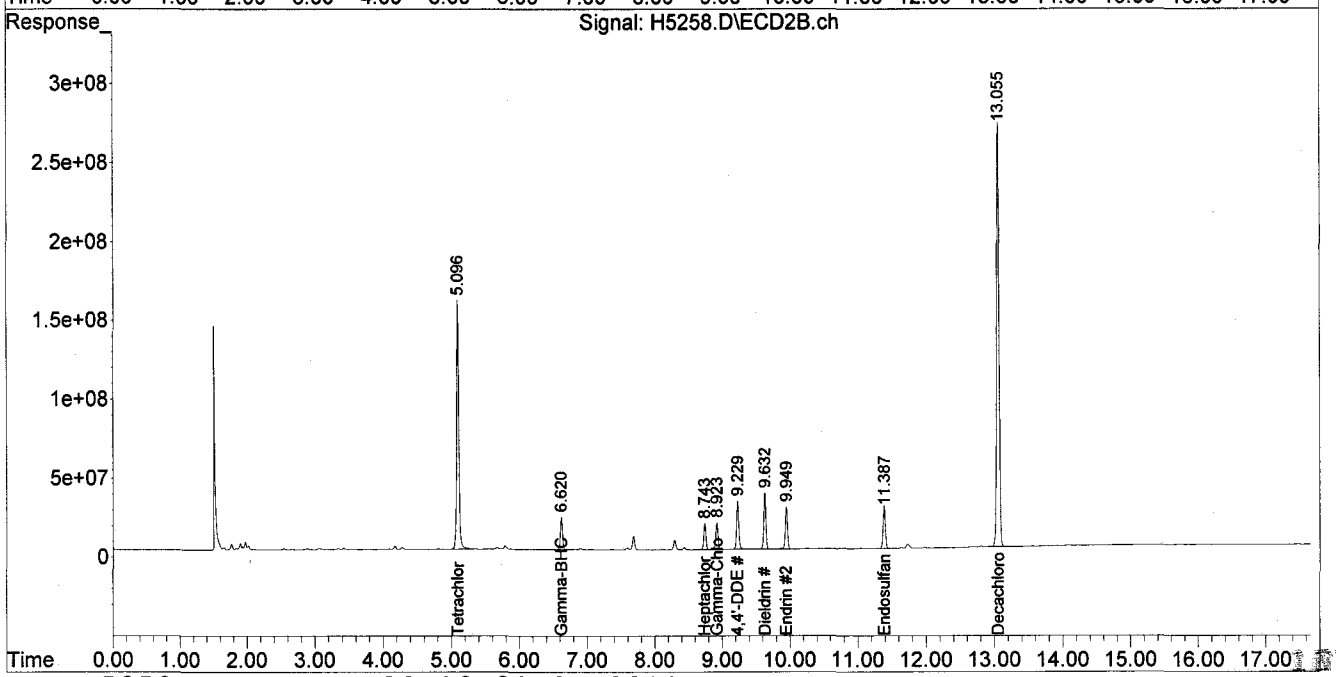
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5258.D(Signal #1) H5258.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 01:47 (#1); 12/28/11 02:12 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PLCS57 (Sig #1); PLCS57 (Sig #2)
Misc : PLCS57 30.0G/5.0ML (Sig #1); PLCS57 30.0G/5.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:16:32 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





O·I·CORPORATION

	Name	Date
Approval 1:	RAO-IC ALSAKANI	12/15/11
Approval 2:		

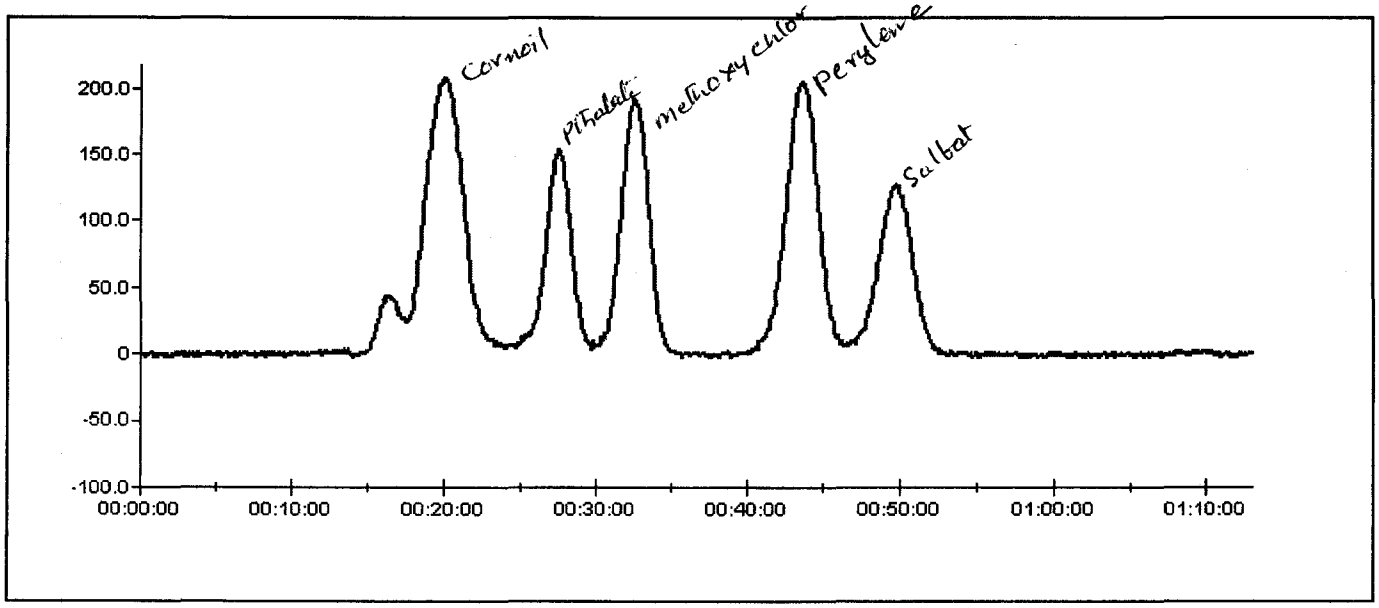
KAP Technologies
The Woodlands,TX 77380
Phone: (281) 367 0065
Fax: (281) 367 6772
WWW: http://oico.com

Sequence:	CCV-12092011	**Date of Sample:**	12/9/2011 9:22:24AM
Operator:	RAO ALSAKANI	**Sample Results:**	Completed run
Sample ID:	3640A Standard	**Sample Type:**	Calibration

Configuration Details:

Syringe Size (mL):	10.00	**Sample Tray:**	60 16 * 100 mm tubes
Loop Size (mL):	5.00	**Collect Tray:**	TurboVap 200 mL tubes
Flow Rate (mL/min):	5.00	**Column Type:**	Methylene chloride - glass
Bypass Valve:	Yes	**Solvent Type:**	Methylene chloride
Using UV Detector:	Yes	**Detector Type:**	OI UV-1000 254 nm
Plotting UV Data:	Yes		

Chromatograph:



Start	0.22 min	23.47 min	10 min
Post	6.28 Min	29.47 Min	10 min

Date Printed: 12/15/2011 3:04:18PM

Initials: RAM

1873

O·I·CORPORATION

KAP Technologies
The Woodlands,TX 77380
Phone: (281) 367 0065
Fax: (281) 367 6772
WWW: http://oico.com

	Name	Date
Approval 1:	M.A. Billow	11/2/11
Approval 2:		

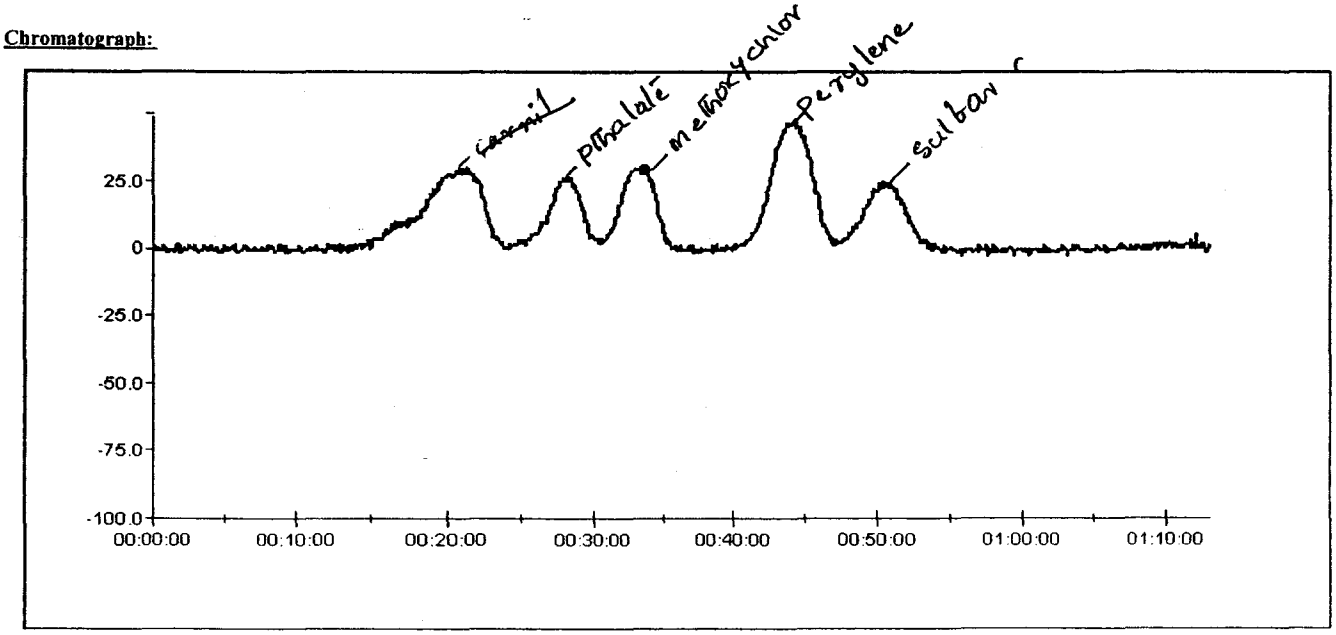
Sequence:	CCV-10182011	**Date of Sample:**	10/18/2011 10:04:43AM
Operator:	RAO ALSAKANI	**Sample Results:**	Completed run
Sample ID:	3640A Standard	**Sample Type:**	Calibration

Configuration Details:

Syringe Size (mL):	10.00
Loop Size (mL):	5.00
Flow Rate (mL/min):	5.00
Bypass Valve:	Yes
Using UV Detector:	Yes
Plotting UV Data:	Yes

Sample Tray:	60 16 * 100 mm tubes
Collect Tray:	TurboVap 200 mL tubes
Column Type:	Methylene chloride - glass
Solvent Type:	Methylene chloride
Detector Type:	OI UV-1000 254 nm

Chromatograph:



SVOA	0.22 min	23.47 min	10 min
Pest	0.28 min	29.47 min	10 min

Date Printed: 10/18/2011 11:26:50AM

Initials: RAlsa

1874

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5255.D(Signal #1) H5255.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 00:35 (#1); 12/28/11 00:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : GPCBLK57 (Sig #1); GPCBLK57 (Sig #2)
Misc : GPCBLK57 (Sig #1); GPCBLK57 (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:03:13 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds

Target Compounds

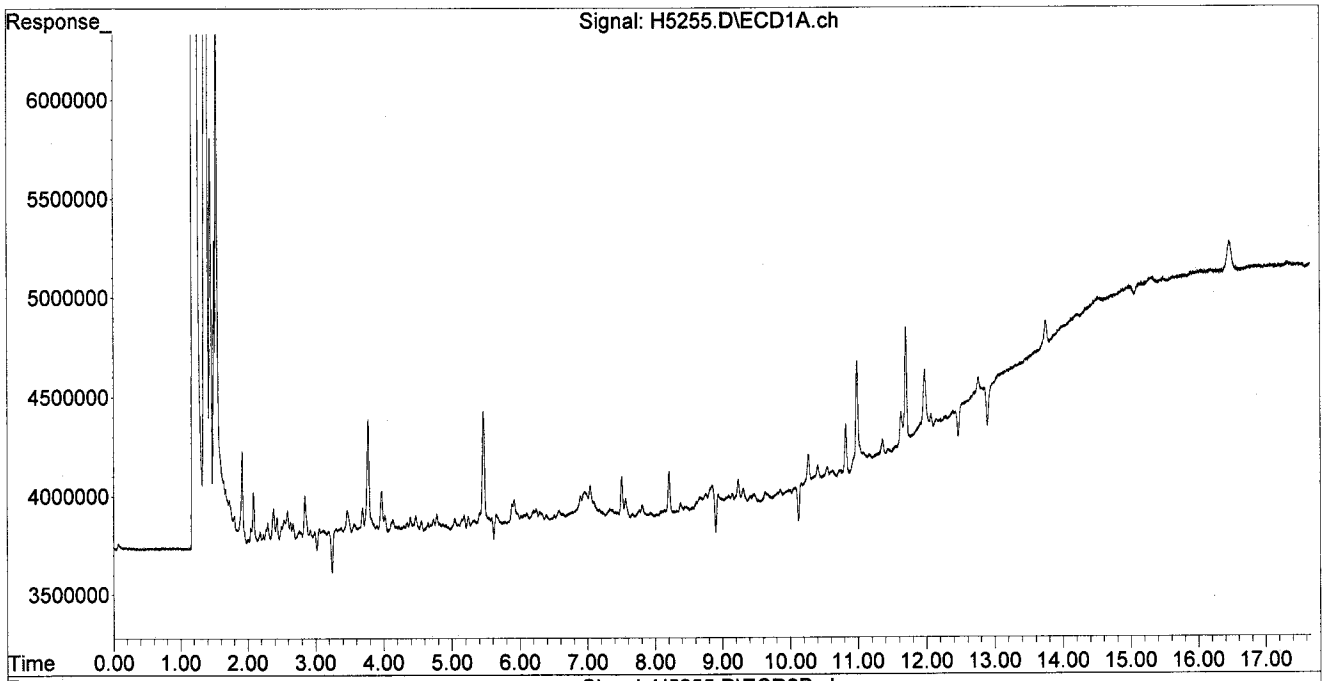
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

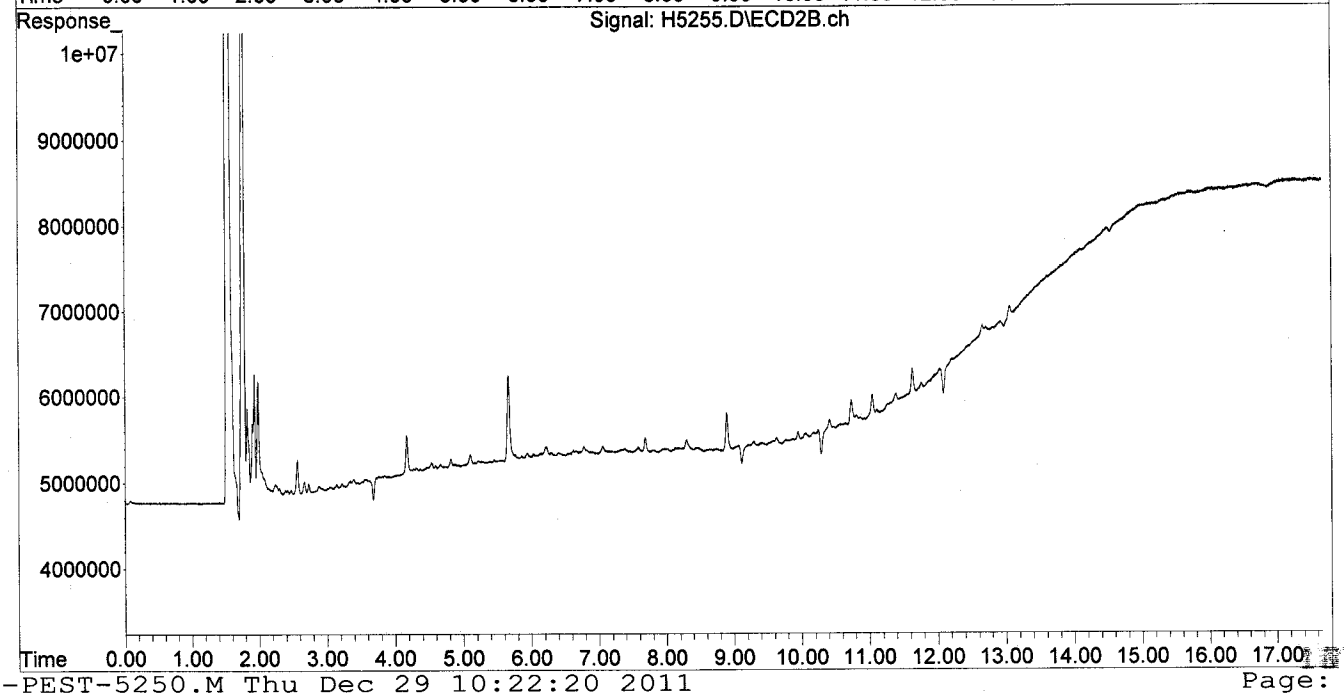
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5255.D(Signal #1) H5255.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 00:35 (#1); 12/28/11 00:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : GPCBLK57 (Sig #1); GPCBLK57 (Sig #2)
Misc : GPCBLK57 (Sig #1); GPCBLK57 (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:03:13 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5256.D(Signal #1) H5256.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 00:59 (#1); 12/28/11 01:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : GPCPEST57 (Sig #1); GPCPEST57 (Sig #2)
Misc : GPCPEST57 (Sig #1); GPCPEST57 (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:05:00 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
	Target Compounds						
3)	Gamma-BHC...	6.897	6.619	1969.5E6	1867.6E6	19.961	19.812
6)	Heptachlor	7.602	7.385	1920.4E6	1798.0E6	21.473	21.953
7)	Aldrin	8.093	7.845	1746.2E6	1742.4E6	20.693	20.655
13)	Dieldrin	9.858	9.631	3122.2E6	3346.9E6	41.489	42.519
14)	Endrin	10.272	9.948	2907.1E6	2548.0E6	42.057	45.151
17)	4,4'-DDT	10.824	10.413	2458.8E6	2219.5E6	40.321	45.120

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

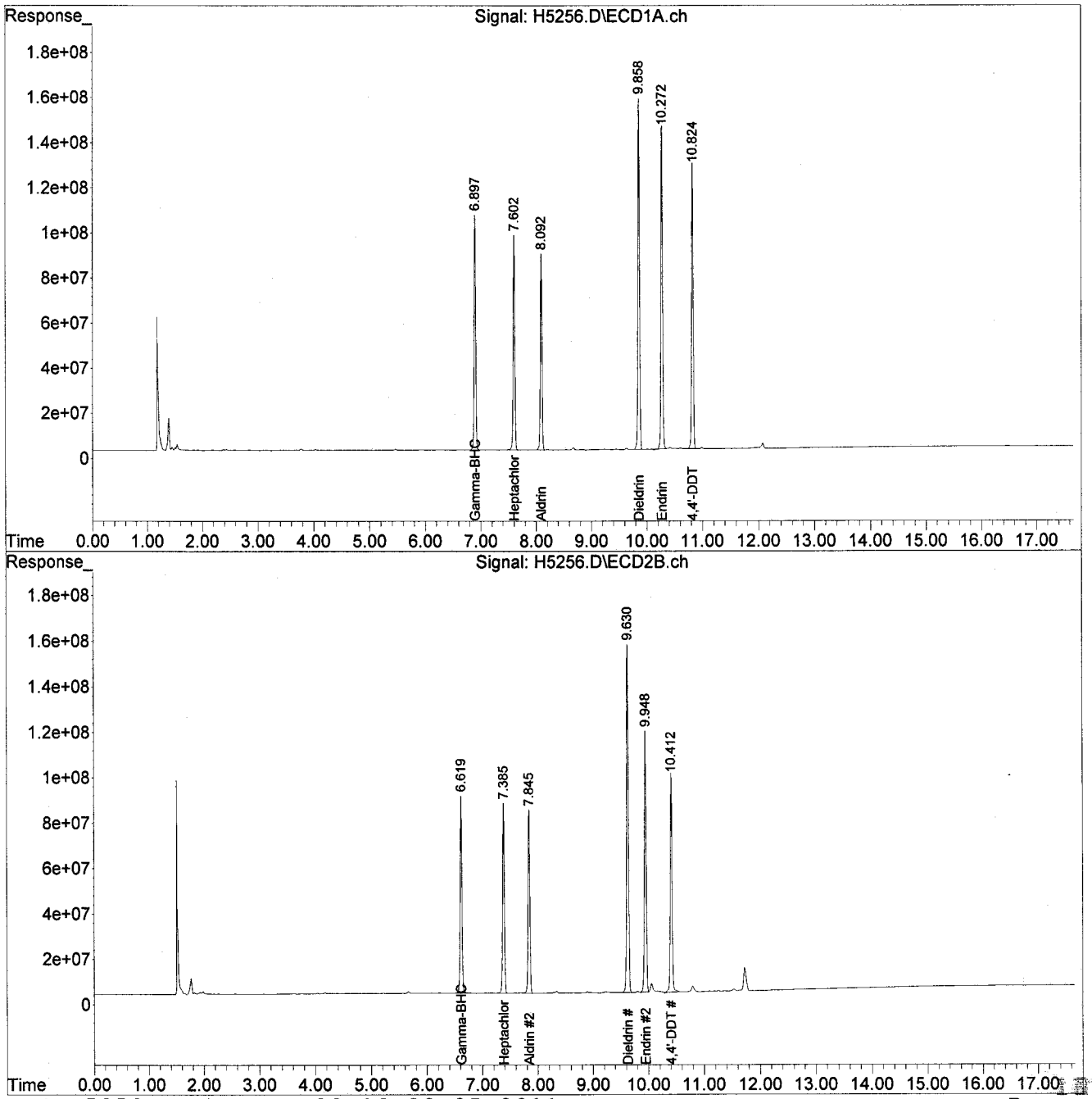
1077

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\(Signal #1) C:\msdchem\1\DATA\(Signal #2)
Data File : H5256.D(Signal #1) H5256.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 12/28/11 00:59 (#1); 12/28/11 01:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : GPCPEST57 (Sig #1); GPCPEST57 (Sig #2)
Misc : GPCPEST57 (Sig #1); GPCPEST57 (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 28 11:05:00 2011
Quant Method : C:\msdchem\1\METHODS\CLP-PEST-5250.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Wed Dec 28 09:45:15 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3491.D(Signal #1) H3491.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 21:00 (#1); 07/31/11 21:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : FLOK02599 (Sig #1); FLOK02599 (Sig #2)
Misc : FLOK02599 (Sig #1); FLOK02599 (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:51:59 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.252	5.706	337.4E6	352.3E6	10.110	9.914
	Spiked Amount	60.000	Range 18 - 90		Recovery =	16.85%#	16.52%#
23)	S Decachlor...	15.357	13.849	539.2E6	689.0E6	18.669	20.614
	Spiked Amount	120.000	Range 36 - 180		Recovery =	15.56%#	17.18%#
	Target Compounds						
3)	Alpha-BHC	7.379	6.710	479.4E6	514.3E6	9.984	9.899
4)	Gamma-BHC...	7.992	7.255	437.6E6	511.2E6	9.980	10.210
5)	Beta-BHC	8.128	7.406	183.8E6	233.2E6	10.263	10.797
6)	Delta-BHC	8.607	7.698	390.3E6	467.7E6	10.248	10.000
7)	Heptachlor	8.607	8.031	390.3E6	486.4E6	10.248	9.940
8)	Aldrin	9.230	8.501	382.2E6	433.8E6	10.142	10.100
9)	Heptachlo...	10.070	9.406	378.1E6	425.4E6	10.216	10.282
10)	Gamma-Chl...	10.342	9.586	366.6E6	420.8E6	10.124	10.227
11)	Alpha-chl...	10.548	9.776	315.8E6	360.7E6	10.233	10.143
12)	Endosulfan I	10.642	9.973	321.5E6	398.3E6	10.112	10.335
13)	4,4'-DDE	10.747	9.878	639.9E6	765.6E6	19.817	20.001
14)	Dieldrin	11.024	10.309	686.2E6	792.3E6	19.926	20.173
15)	Endrin	11.453	10.635	510.3E6	716.8E6	19.960	19.790
16)	4,4'-DDD	11.538	10.703	544.4E6	643.8E6	20.639	20.655
17)	Endosulfa...	11.733	10.941	542.5E6	691.2E6	18.265	20.563
18)	4,4'-DDT	11.966	11.080	449.2E6	632.1E6	18.724	19.837
19)	Endrin Al...	12.181	11.507	466.9E6	551.6E6	20.524	21.658
20)	Endosulfa...	12.554	12.092	558.8E6	628.2E6	20.690	20.875
21)	Methoxychlor	12.843	11.701	1283.8E6	1735.6E6	95.647	103.879
22)	Endrin Ke...	13.336	12.480	628.0E6	746.7E6	20.365	21.206

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 Init/date KVR
08/08/2011

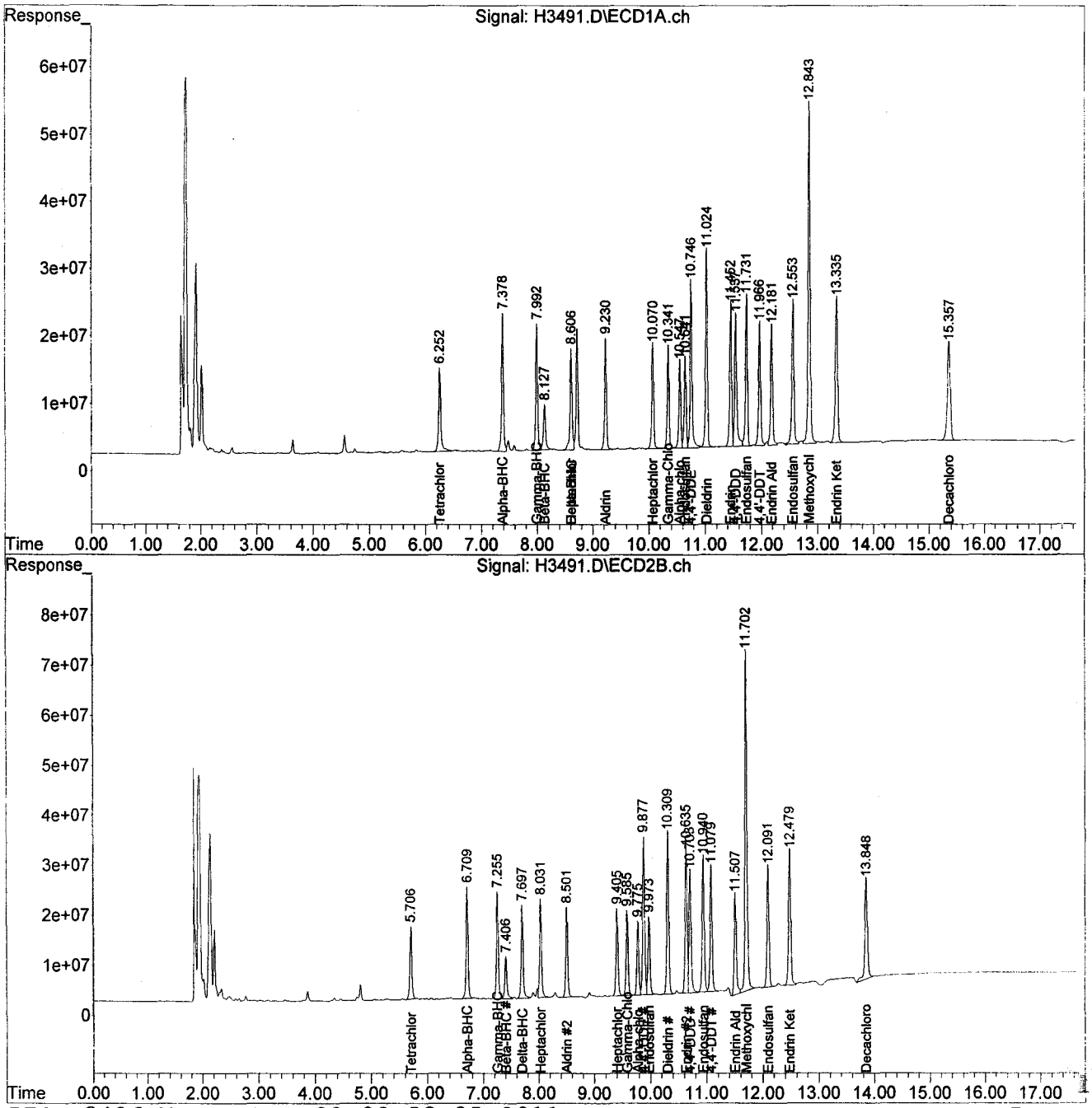
1875

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3491.D(Signal #1) H3491.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 21:00 (#1); 07/31/11 21:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : FLOK02599 (Sig #1); FLOK02599 (Sig #2)
Misc : FLOK02599 (Sig #1); FLOK02599 (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:51:59 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3477.D(Signal #1) H3477.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 15:22 (#1); 07/31/11 15:46 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : RESCY1 (Sig #1); RESCY2 (Sig #2)
Misc : RESCY1 (Sig #1); RESCY2 (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:34:54 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.253	5.709	316.3E6	348.7E6	9.478	9.811
	Spiked Amount	60.000	Range 18 - 90		Recovery =	15.80%#	16.35%#
23)	S Decachlor...	15.356	13.884	572.5E6	673.4E6	19.822	20.148
	Spiked Amount	120.000	Range 36 - 180		Recovery =	16.52%#	16.79%#
	Target Compounds						
2)	2,4,5-Tri...	4.118	3.826	430.7E6	616.2E6	8.363	8.777
3)	Alpha-BHC	7.380	6.718	447.2E6	486.5E6	9.314	9.363
4)	Gamma-BHC...	7.993	7.266	412.6E6	473.2E6	9.410	9.451
5)	Beta-BHC	8.128	7.418	184.9E6	216.0E6	10.323	10.003
6)	Delta-BHC	8.607	7.710	363.7E6	438.9E6	9.549	9.384
7)	Heptachlor	8.607	8.046	363.7E6	454.0E6	9.549	9.278
8)	Aldrin	9.232	8.518	350.5E6	410.8E6	9.300	9.566
9)	Heptachlo...	10.071	9.426	353.4E6	395.3E6	9.549	9.554
10)	Gamma-Chl...	10.343	9.606	347.3E6	391.0E6	9.591	9.503
11)	Alpha-chl...	10.549	9.797	295.6E6	344.1E6	9.576	9.676
12)	Endosulfan I	10.643	9.995	300.9E6	366.5E6	9.464	9.509
13)	4,4'-DDE	10.748	9.899	596.1E6	716.7E6	18.462	18.724
14)	Dieldrin	11.026	10.331	633.4E6	743.2E6	18.393	18.922
15)	Endrin	11.454	10.659	474.0E6	693.9E6	18.542	19.157
16)	4,4'-DDD	11.538	10.726	499.0E6	590.3E6	18.917	18.939
17)	Endosulfa...	11.734	10.964	556.0E6	643.3E6	18.720	19.138
18)	4,4'-DDT	11.967	11.104	436.7E6	582.3E6	18.201	18.273
19)	Endrin Al...	12.182	11.532	436.5E6	479.7E6	19.188	18.836
20)	Endosulfa...	12.554	12.120	521.3E6	570.5E6	19.304	18.957
21)	Methoxychlor	12.843	11.727	1244.5E6	1557.7E6	92.718	93.227
22)	Endrin Ke...	13.337	12.508	588.7E6	660.7E6	19.089	18.764

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date K.Rao 08/08/11

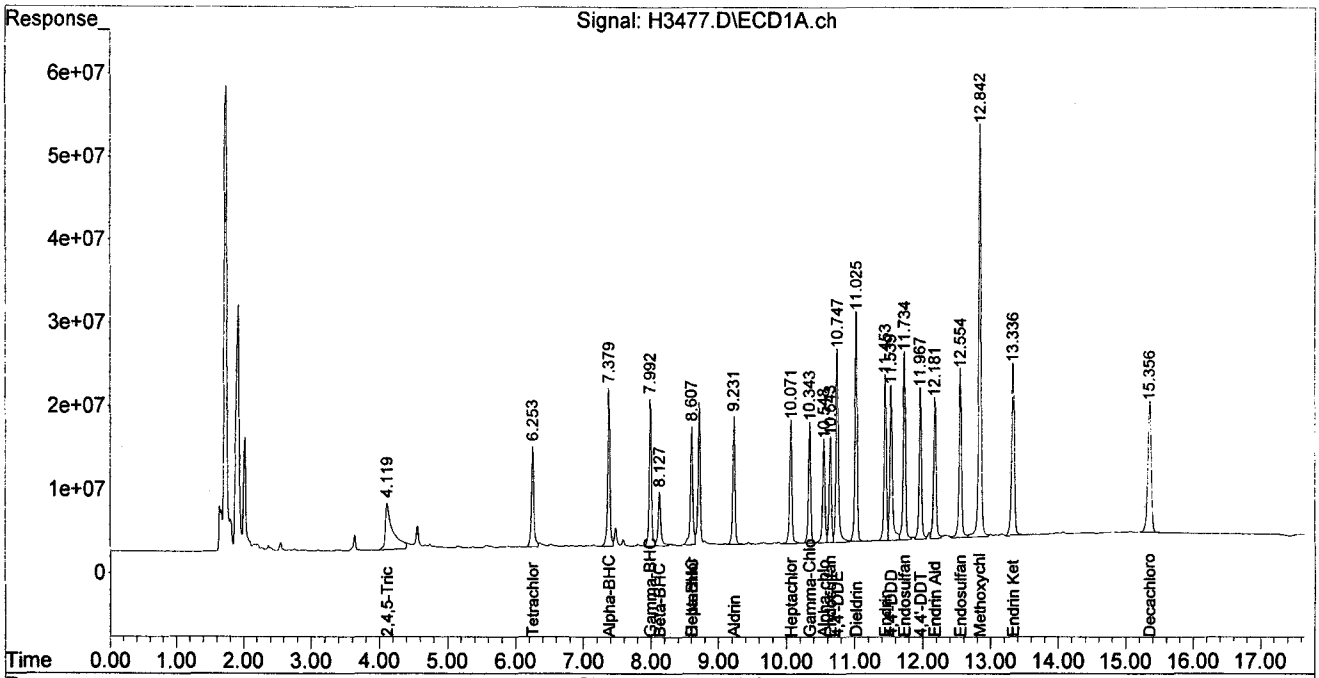
1061

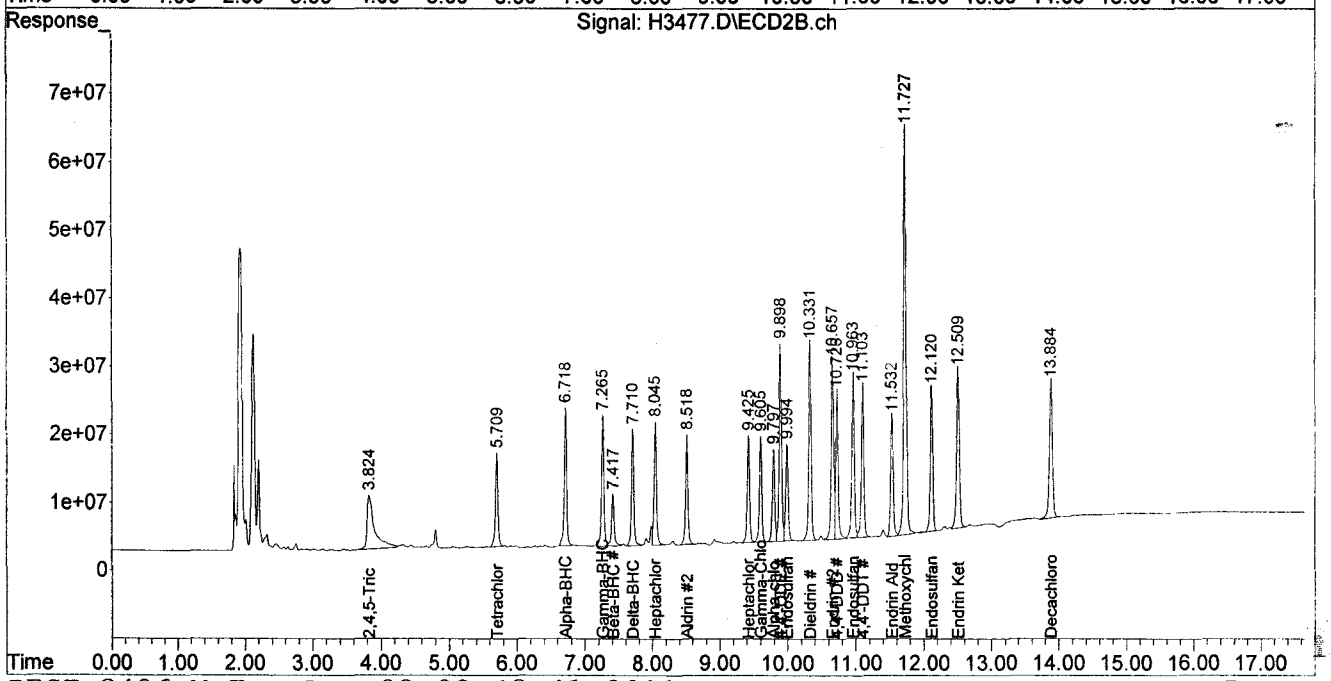
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3477.D(Signal #1) H3477.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 15:22 (#1); 07/31/11 15:46 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : RESCY1 (Sig #1); RESCY2 (Sig #2)
Misc : RESCY1 (Sig #1); RESCY2 (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:34:54 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3478.D(Signal #1) H3478.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 15:46 (#1); 07/31/11 16:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMY1 (Sig #1); PEMY2 (Sig #2)
Misc : PEMY1 (Sig #1); PEMY2 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:46:19 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.253	5.706	617.3E6	674.9E6	18.499	18.988
	Spiked Amount	60.000	Range 18 - 90		Recovery =	30.83%	31.65%
23)	S Decachlor...	15.356	13.883	529.0E6	656.1E6	18.317	19.630
	Spiked Amount	120.000	Range 36 - 180		Recovery =	15.26%#	16.36%#
	Target Compounds						
3)	Alpha-BHC	7.381	6.716	438.5E6	470.9E6	9.133	9.064
4)	Gamma-BHC...	7.993	7.264	405.4E6	465.9E6	9.247	9.305
5)	Beta-BHC	8.129	7.415	180.6E6	218.1E6	10.083	10.101
15)	Endrin	11.454	10.656	1248.2E6	1852.7E6	48.823	51.149
16)	4,4'-DDD	11.547	10.727	125.6E6	94474052	4.762	3.031m#
18)	4,4'-DDT	11.967	11.102	2500.4E6	3166.5E6	104.215	99.372
19)	Endrin Al...	12.186	11.539	68652981	72509400	3.018	2.847
21)	Methoxychlor	12.843	11.725	3234.7E6	4049.0E6	240.988	242.333
22)	Endrin Ke...	13.331	12.506	97061338	71821406	3.147	2.040 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date KV-Rao 08/08/11

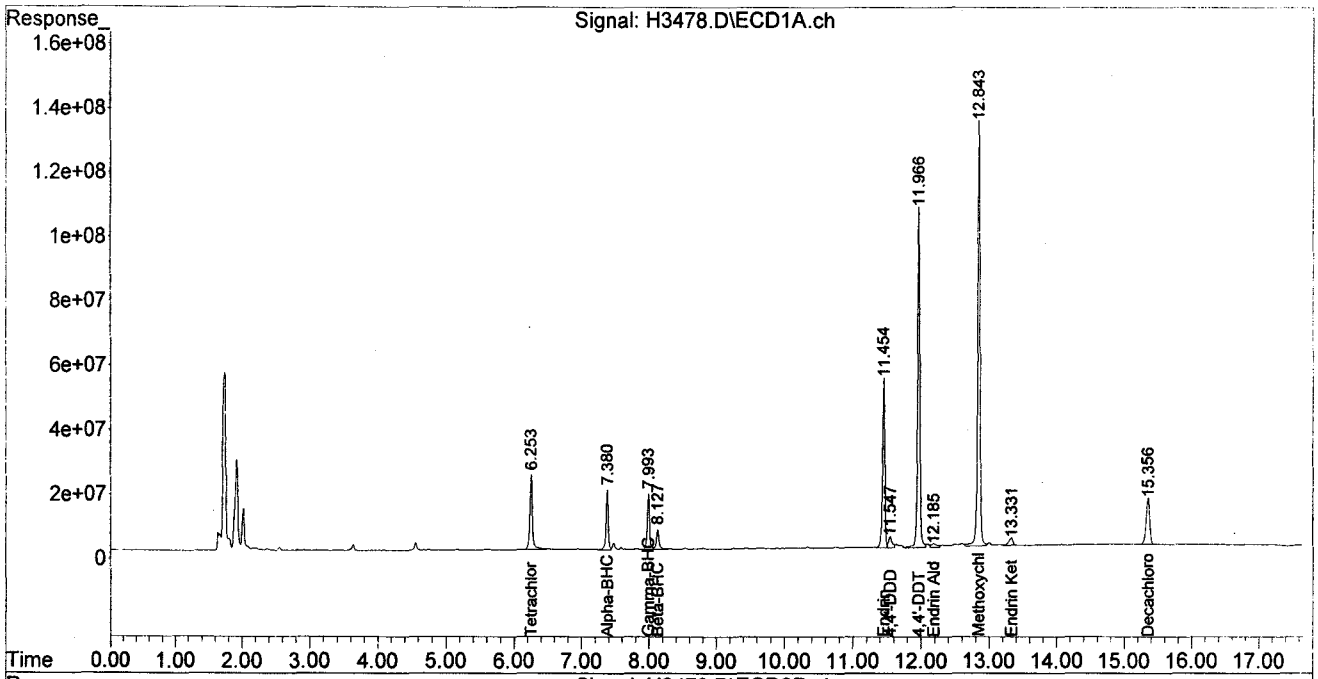
1883

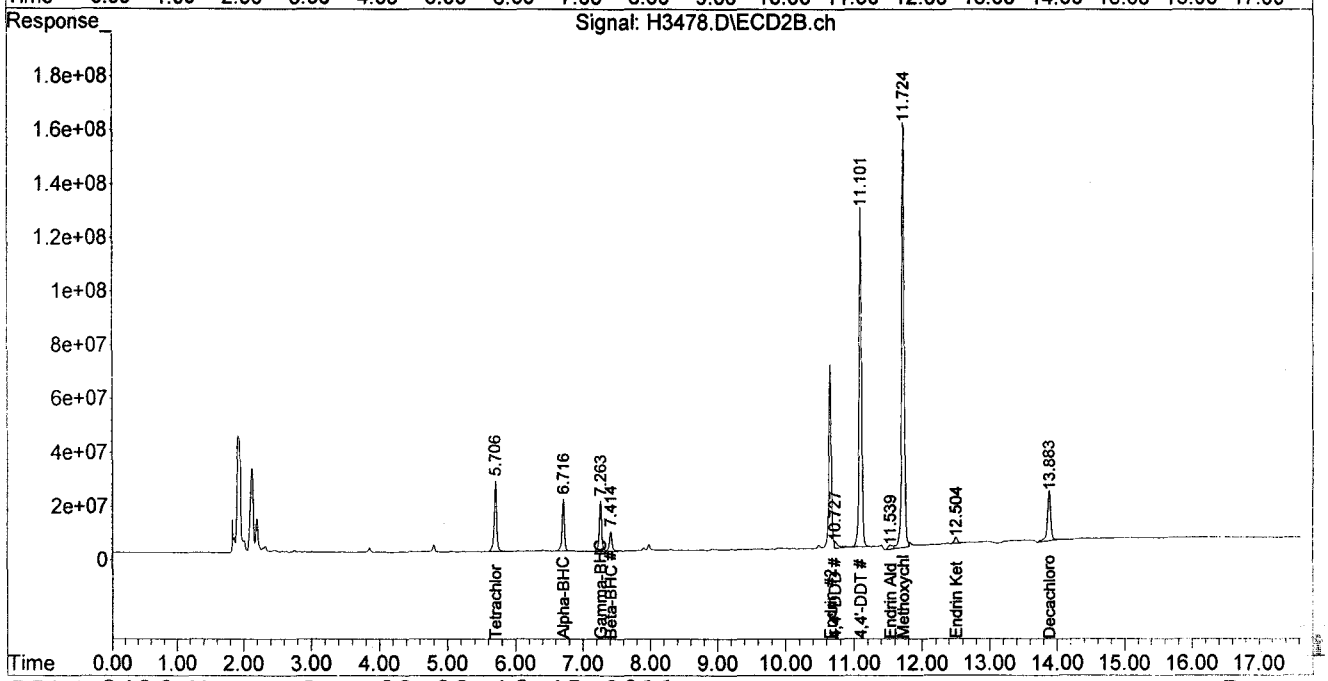
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3478.D(Signal #1) H3478.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 15:46 (#1); 07/31/11 16:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMY1 (Sig #1); PEMY2 (Sig #2)
Misc : PEMY1 (Sig #1); PEMY2 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:46:19 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





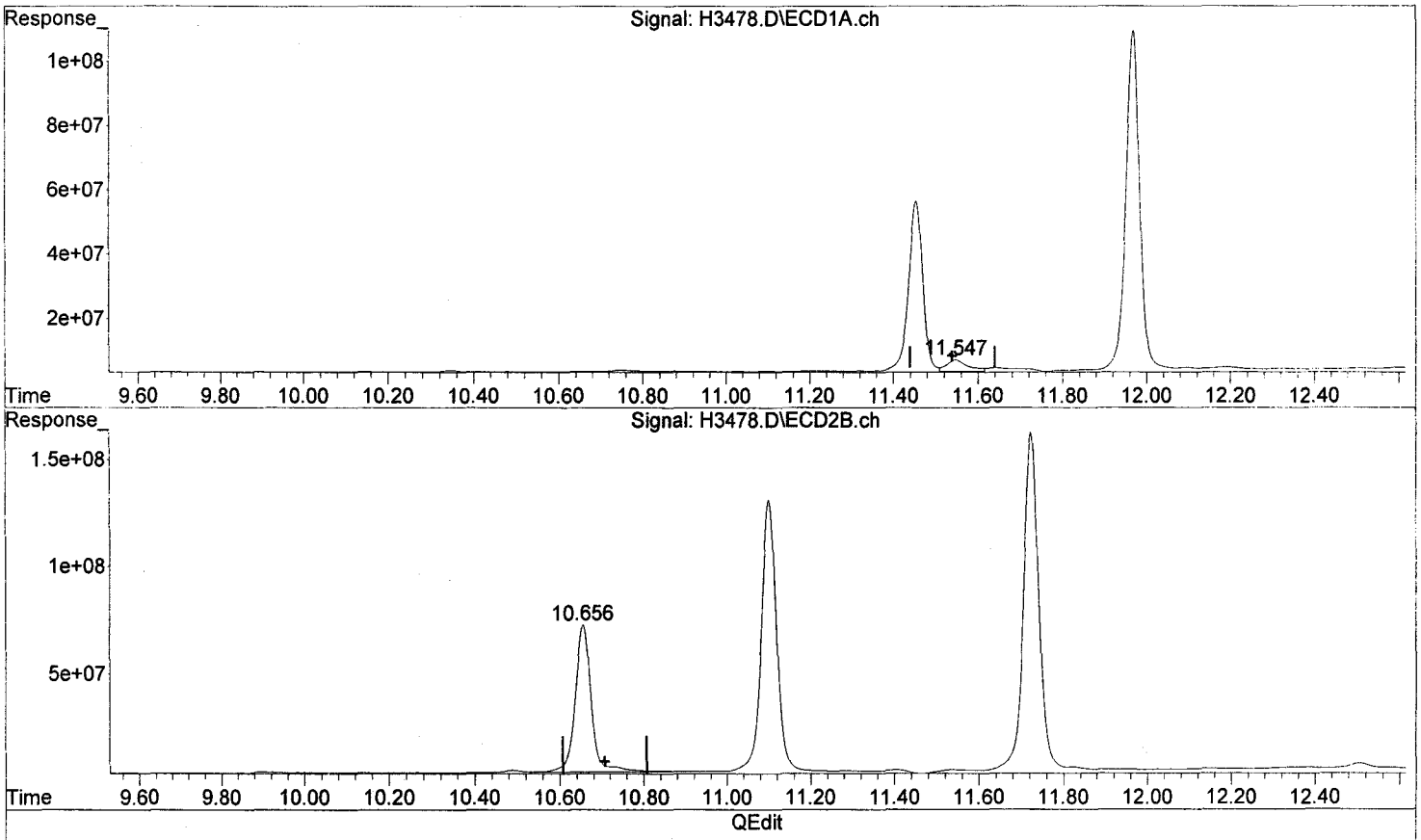
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3478.D(Signal #1) H3478.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 15:46 (#1); 07/31/11 16:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMY1 (Sig #1); PEMY2 (Sig #2)
Misc : PEMY1 (Sig #1); PEMY2 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

KVRao
08/08/11

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:44:07 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



(16) 4,4'-DDD
11.547min 4.762 ug/L
response 125604605

(16) 4,4'-DDD #2
10.656min 59.441 ug/L
response 1852675792

(+) = Expected Retention Time

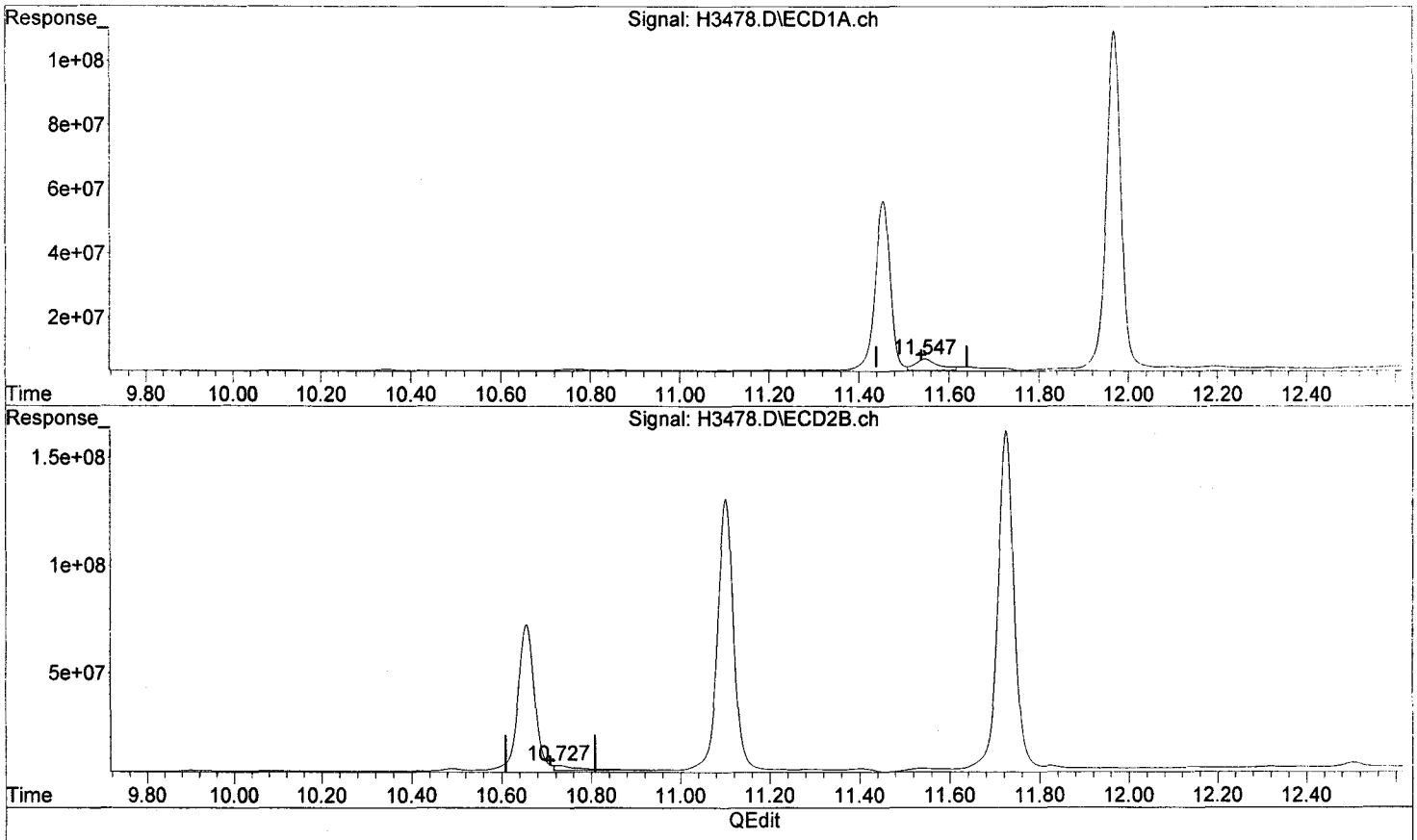
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3478.D(Signal #1) H3478.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 15:46 (#1); 07/31/11 16:10 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMY1 (Sig #1); PEMY2 (Sig #2)
Misc : PEMY1 (Sig #1); PEMY2 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

KVLaa 08/08/11

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:44:07 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



(16) 4,4'-DDD
11.547min 4.762 ug/L
response 125604605

(16) 4,4'-DDD #2
10.727min 3.031 ug/L m
response 94474052

(+) = Expected Retention Time

Response Factor Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : TOXAPH-3481.M
Title : CLP PESTICIDES METHOD
Last Update : Sun Jul 31 21:45:33 2011
Response Via : Initial Calibration

Calibration Files
1 =H3479.D 2 =H3480.D 3 =H3481.D
4 =H3482.D 5 =H3483.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	2.958	3.009	3.259	3.303	3.323	3.170	E7	5.45
2)		Toxaphene-1	0.884	0.974	0.999	1.033	1.074	0.993	E6	7.21
3)		Toxaphene-2	6.427	7.318	7.795	8.164	8.585	7.658	E5	10.86
4)		Toxaphene-3	1.140	1.239	1.343	1.445	1.520	1.337	E6	11.45
5)	S	Decachlorobiphenyl	2.664	2.573	2.447	2.514	2.487	2.537	E7	3.32

Signal #2 Calibration Files
1 =H3479.D 2 =H3480.D 3 =H3481.D
4 =H3482.D 5 =H3483.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	3.738	3.680	3.685	3.650	3.603	3.671	E7	1.34
2)		Toxaphene-1	1.186	1.256	1.261	1.279	1.273	1.251	E6	3.00
3)		Toxaphene-2	1.444	1.554	1.567	1.665	1.619	1.570	E6	5.30
4)		Toxaphene-3	0.855	0.913	0.943	0.998	1.030	0.948	E6	7.29
5)	S	Decachlorobiphenyl	2.897	2.829	3.257	3.041	2.903	2.986	E7	5.70

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3479.D(Signal #1) H3479.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:10 (#1); 07/31/11 16:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
Misc : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:44:14 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:42:57 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.253	5.705	147.9E6	186.9E6	5.001	5.267
	Spiked Amount	60.000	Range 18 - 90	Recovery =		8.34%#	8.78%#
5)	S Decachlor...	15.356	13.880	266.4E6	289.7E6	11.231	9.691m ✓
	Spiked Amount	120.000	Range 36 - 180	Recovery =		9.36%#	8.08%#
	Target Compounds						
2)	Toxaphene-1	11.363	10.588	441.9E6	593.0E6	600.738	506.750
3)	Toxaphene-2	11.954	11.043	321.4E6	721.9E6	425.201	482.138
4)	Toxaphene-3	12.909	12.296	569.8E6	427.6E6	428.325	447.891

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

KM 08/08/11

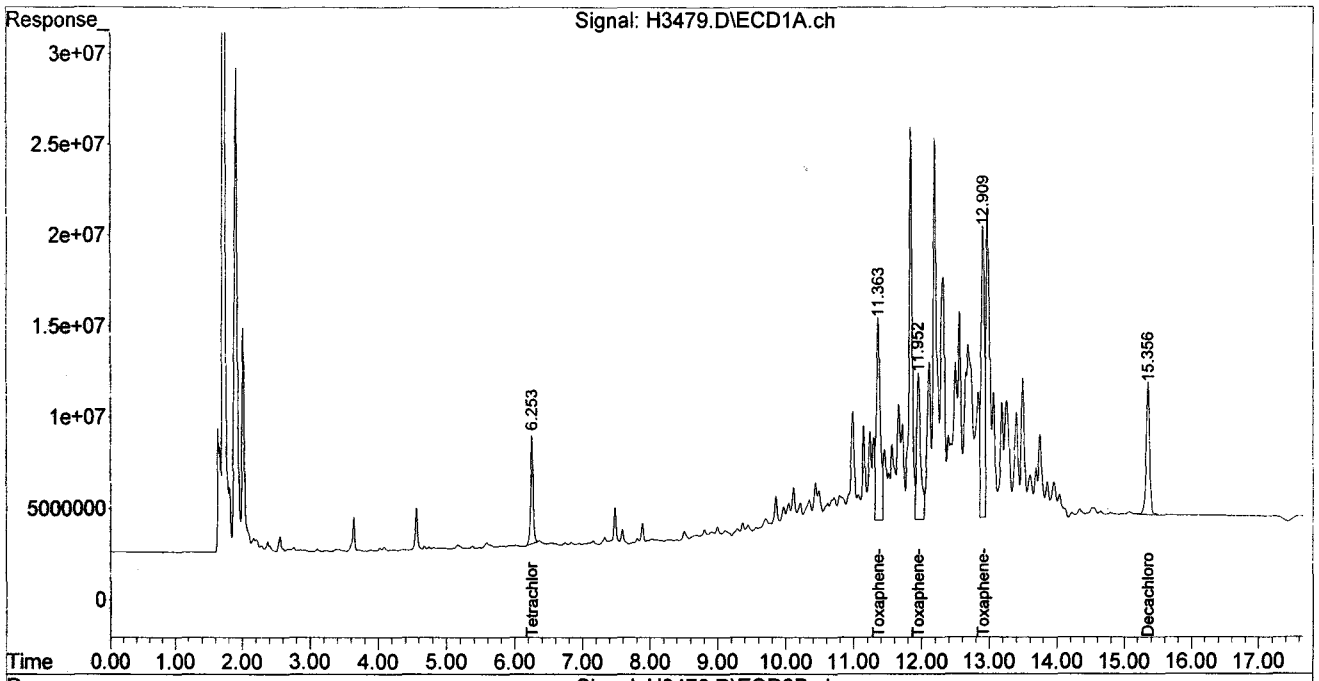
ORIGINAL
Case 41539 SDG B79N8
Episode 5-4259 init/date KM 08/08/11

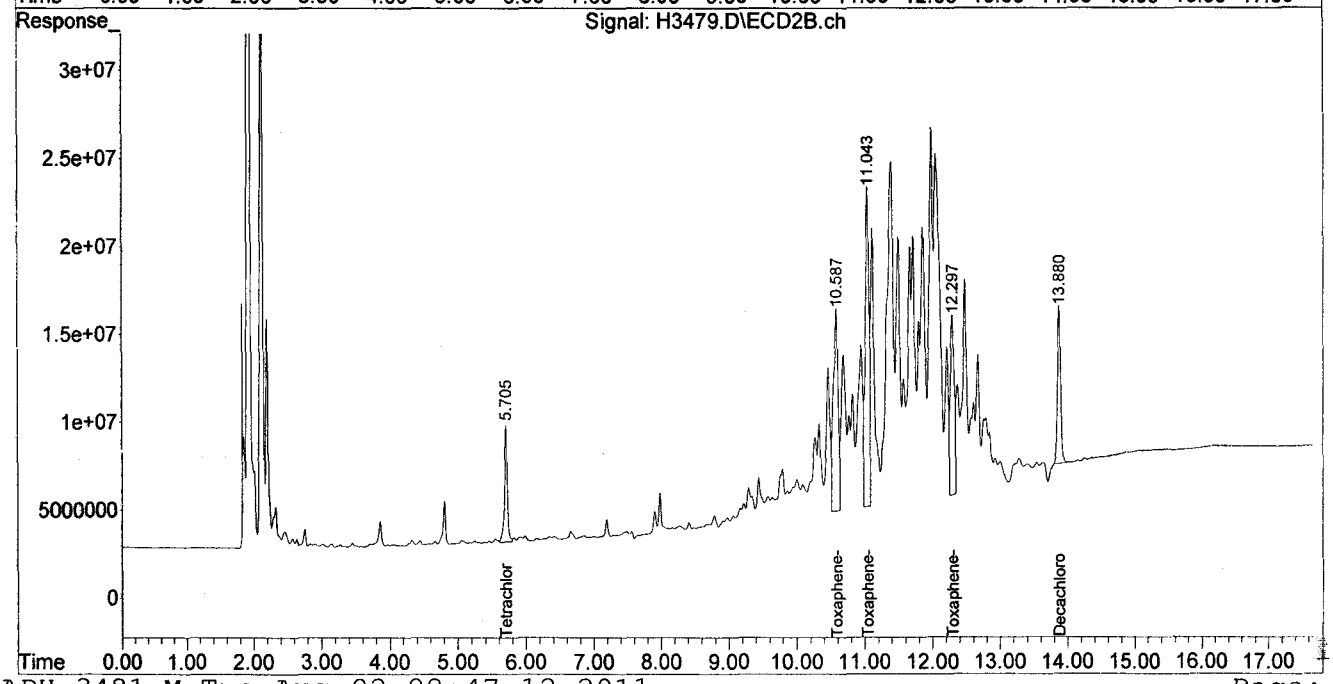
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3479.D(Signal #1) H3479.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:10 (#1); 07/31/11 16:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
Misc : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:44:14 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:42:57 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





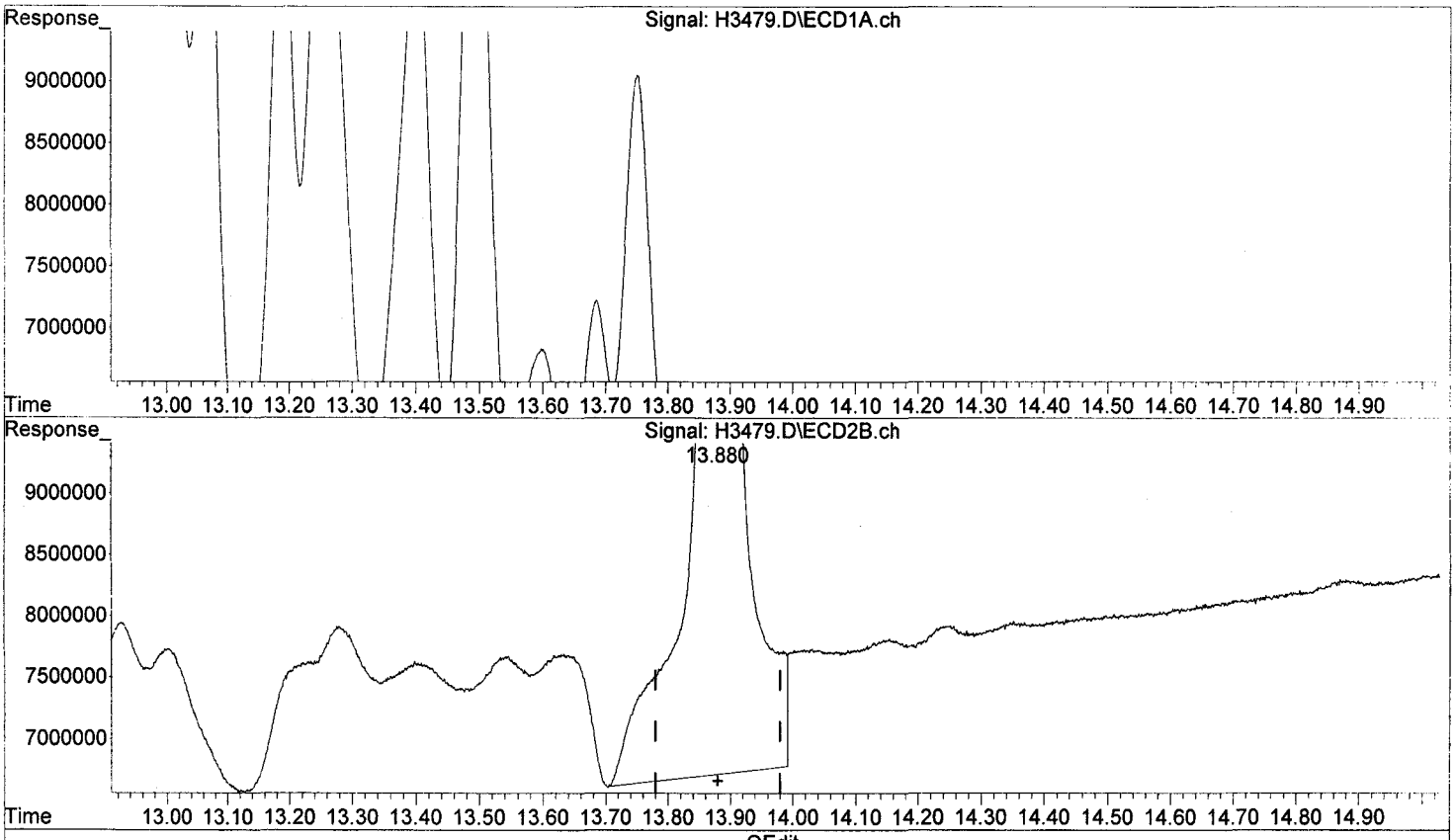
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3479.D(Signal #1) H3479.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:10 (#1); 07/31/11 16:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
Misc : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:43:11 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:42:57 2011
Response via : Initial Calibration
Integrator: ChemStation

dr 08/08/11

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm



(5) Decachlorobiphenyl (S)
15.356min 11.231 ug/L
response 266356272

(5) Decachlorobiphenyl #2 (S)
13.881min 14.330 ug/L
response 428361140

(+) = Expected Retention Time

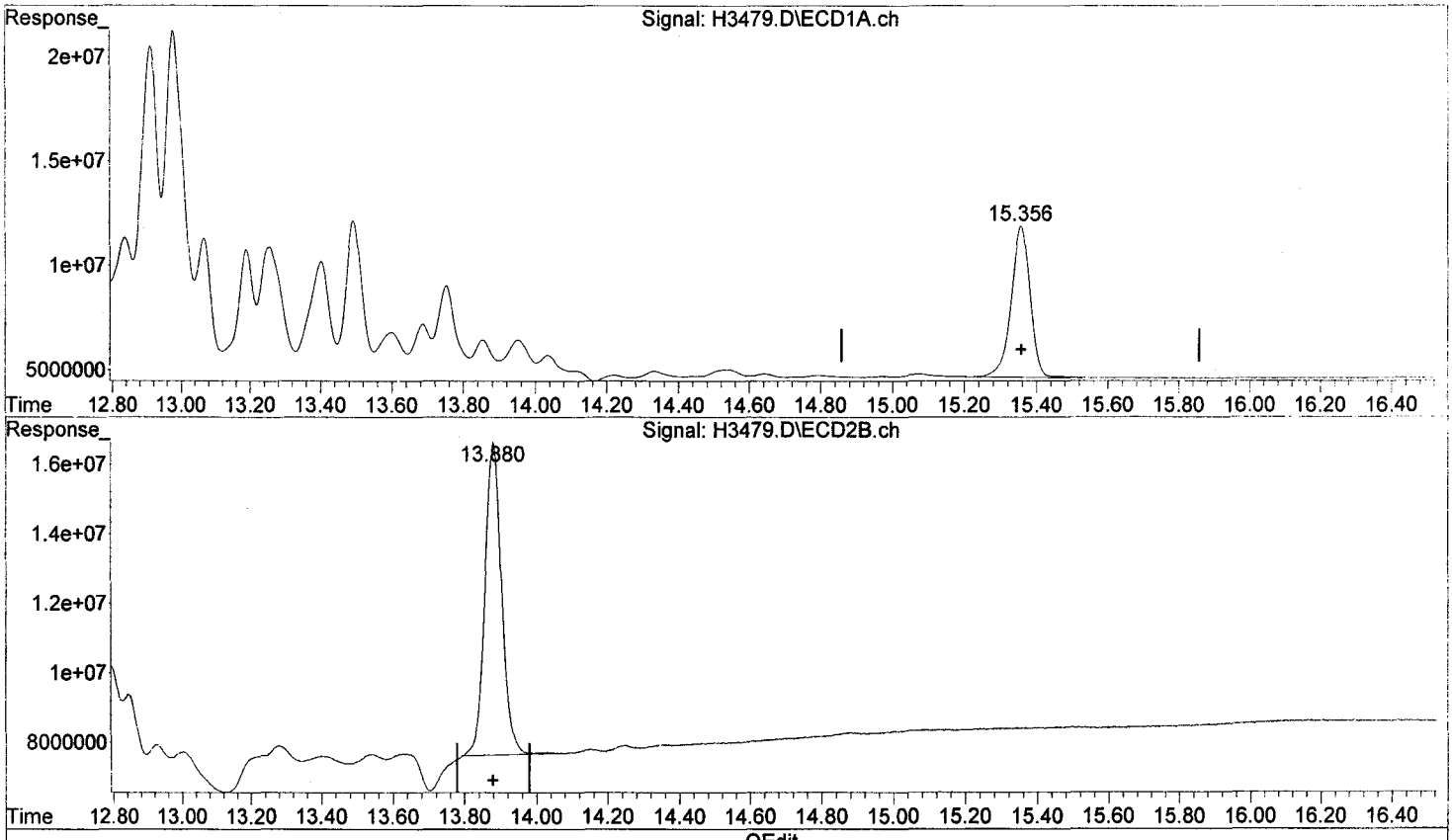
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3479.D(Signal #1) H3479.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:10 (#1); 07/31/11 16:34 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
Misc : TOXAPH1Y1 (Sig #1); TOXAPH1Y2 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:43:11 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:42:57 2011
Response via : Initial Calibration
Integrator: ChemStation

08/08/11

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm



QEdit

(5) Decachlorobiphenyl (S)
15.356min 11.231 ug/L
response 266356272

(5) Decachlorobiphenyl #2 (S)
13.880min 9.691 ug/L m
response 289699030

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3480.D(Signal #1) H3480.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:34 (#1); 07/31/11 16:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
Misc : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:45:20 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:43:19 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	6.252	5.706	300.9E6	368.0E6	9.882	10.201
Spiked Amount	60.000	Range 18 - 90		Recovery =	16.47%#	17.00%#
5) S Decachlor...	15.358	13.881	514.5E6	565.8E6	21.061	17.405m
Spiked Amount	120.000	Range 36 - 180		Recovery =	17.55%#	14.50%#
Target Compounds						
2) Toxaphene-1	11.365	10.588	974.2E6	1256.2E6	1140.327	1043.174
3) Toxaphene-2	11.954	11.044	731.8E6	1553.6E6	975.756	1019.881
4) Toxaphene-3	12.910	12.297	1238.9E6	912.7E6	937.486	965.376

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

KVR 08/08/11

ORIGINAL
Case 41538 SDG B7GN8
Episode 54259 init/date KVR 08/08/11

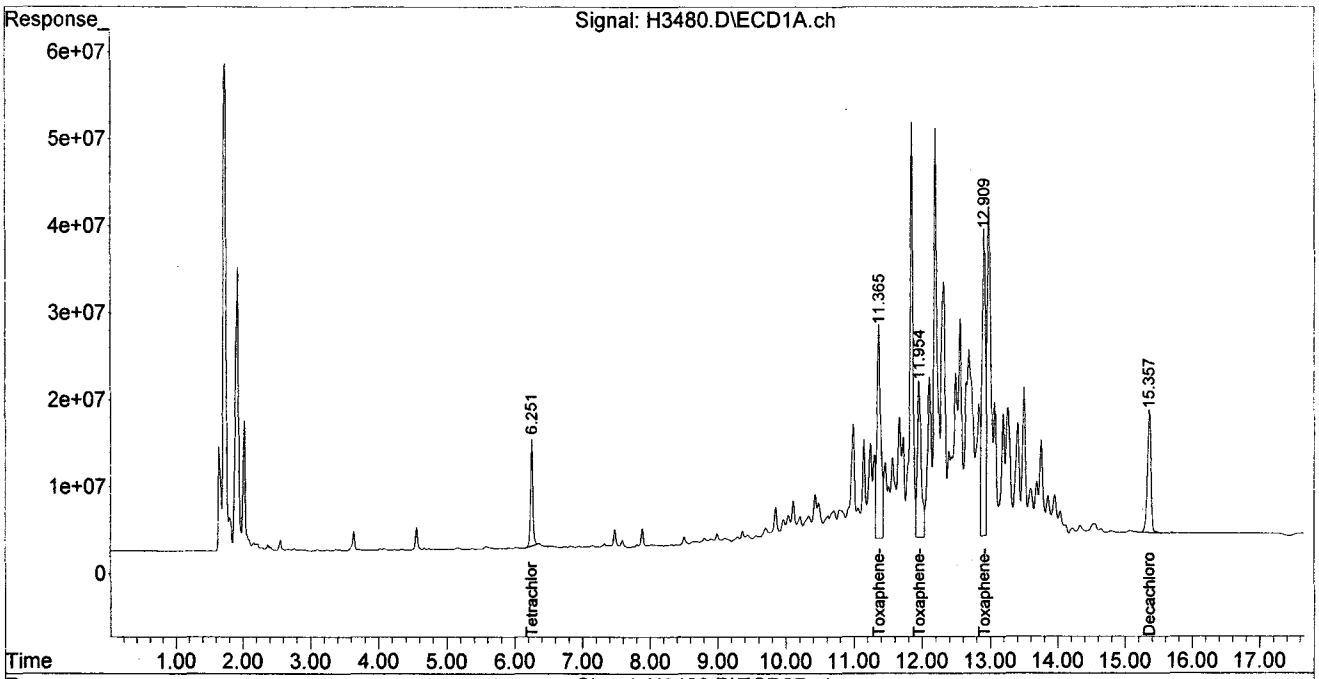
1892

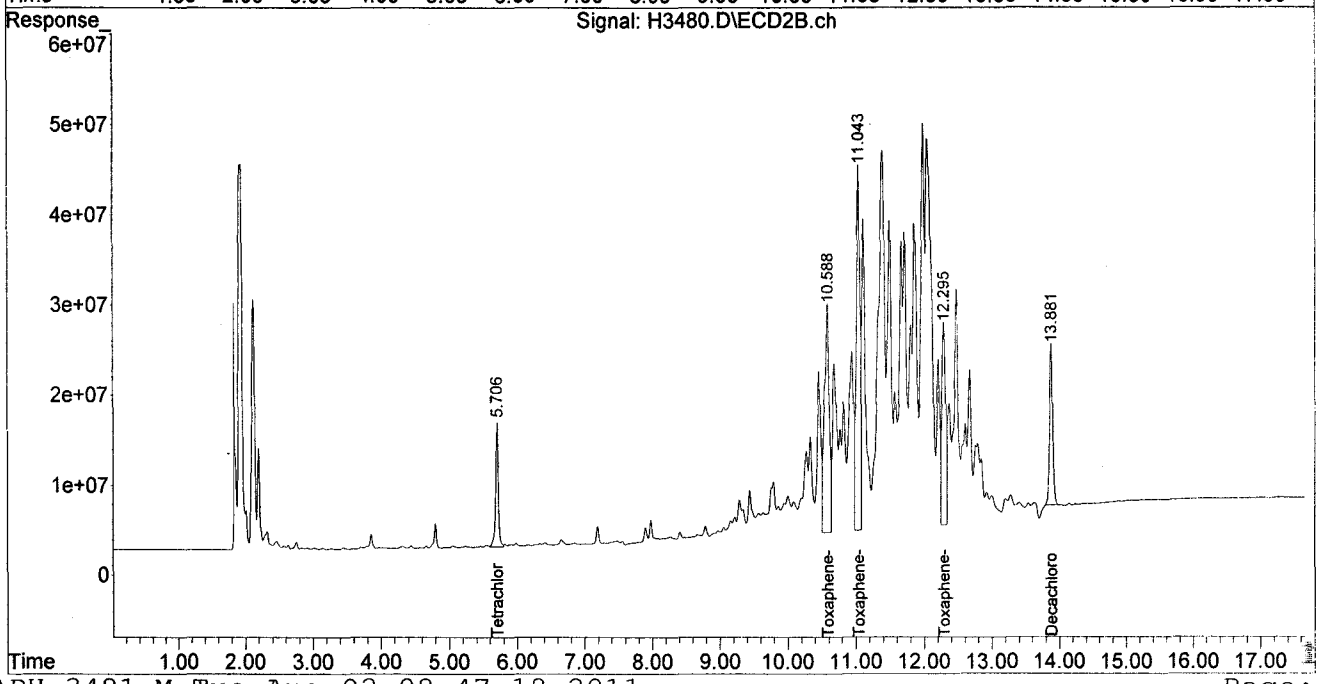
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3480.D(Signal #1) H3480.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:34 (#1); 07/31/11 16:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
Misc : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:45:20 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:43:19 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





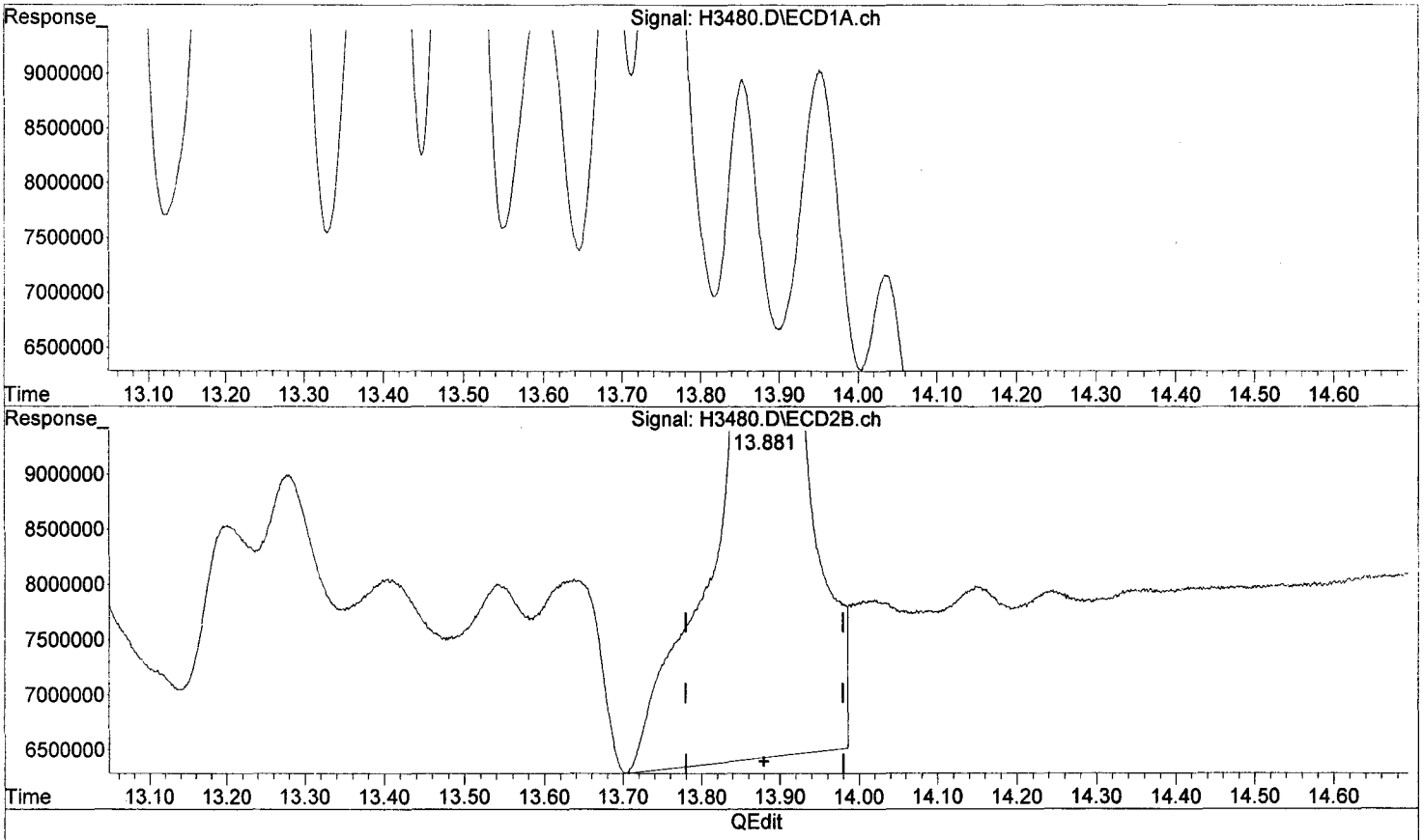
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3480.D(Signal #1) H3480.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:34 (#1); 07/31/11 16:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
Misc : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:43:26 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:43:19 2011
Response via : Initial Calibration
Integrator: ChemStation

O mkoo 08/08/11

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm



(5) Decachlorobiphenyl (S)
15.358min 21.061 ug/L
response 514532407

(5) Decachlorobiphenyl #2 (S)
13.882min 23.504 ug/L
response 764120551

(+) = Expected Retention Time

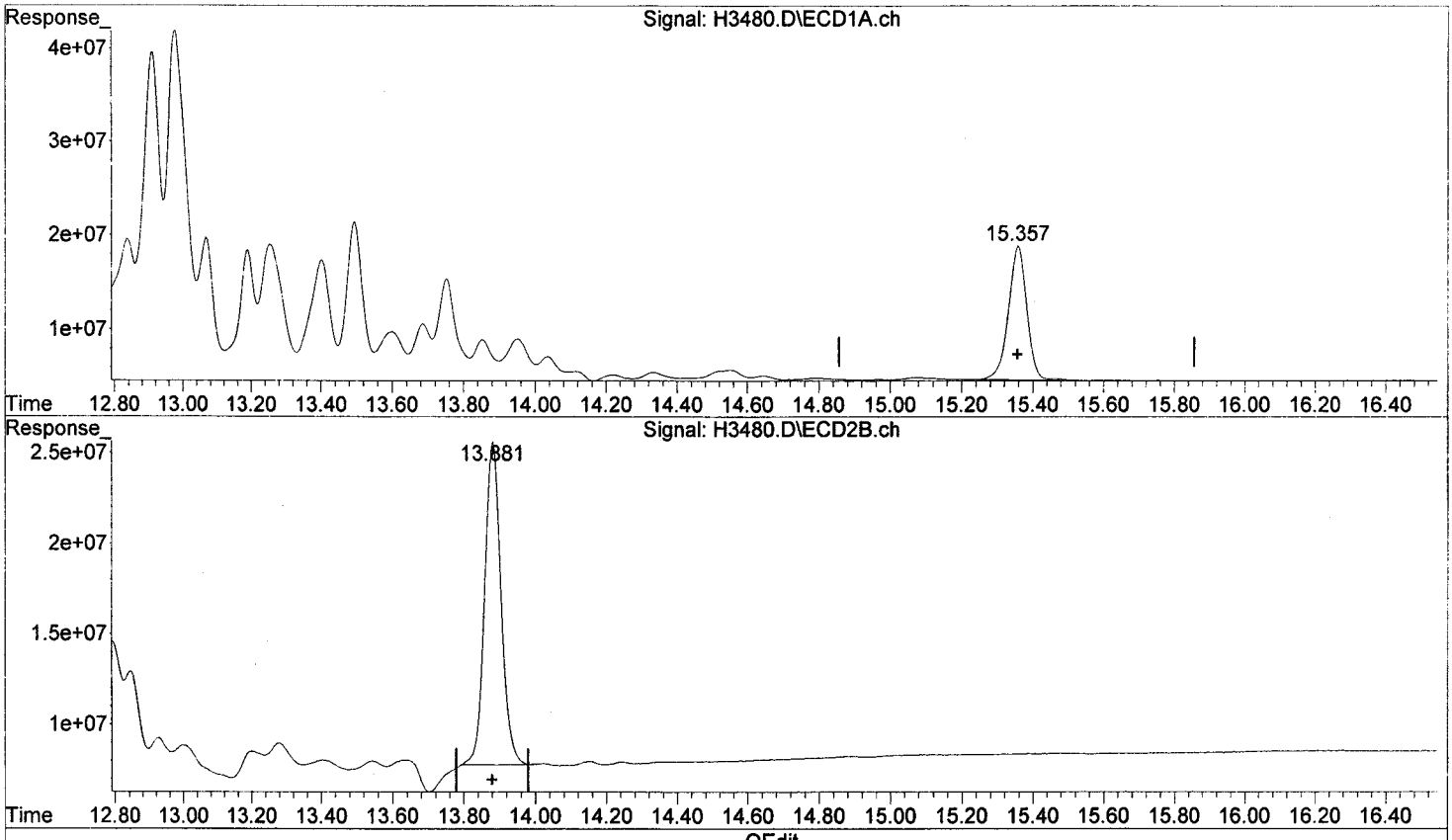
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3480.D(Signal #1) H3480.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:34 (#1); 07/31/11 16:59 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
Misc : TOXAPH2Y1 (Sig #1); TOXAPH2Y2 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:43:26 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:43:19 2011
Response via : Initial Calibration
Integrator: ChemStation

Q Rao 8/10/11

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm



QEdit

(5) Decachlorobiphenyl (S)

15.358min 21.061 ug/L

response 514532407

(5) Decachlorobiphenyl #2 (S)

13.881min 17.405 ug/L m

response 565840717

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3481.D(Signal #1) H3481.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:59 (#1); 07/31/11 17:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH3Y1 (Sig #1); TOXAPH3Y2 (Sig #2)
Misc : TOXAPH3Y1 (Sig #1); TOXAPH3Y2 (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:42:06 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:42:00 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	6.253	5.709	651.8E6	736.9E6	23.849	22.531
Spiked Amount 60.000	Range 18 - 90		Recovery =		39.75%	37.55%
5) S Decachlor...	15.358	13.884	978.6E6	1302.9E6	43.633	46.754
Spiked Amount 120.000	Range 36 - 180		Recovery =		36.36%	38.96%
Target Compounds						
2) Toxaphene-1	11.364	10.593	1997.9E6	2522.2E6	4986.558	2444.166 #
3) Toxaphene-2	11.954	11.049	1558.9E6	3135.0E6	2186.142	2317.132
4) Toxaphene-3	12.911	12.300	2686.2E6	1886.0E6	2148.807	2163.617

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B79N8
Episode S-1259 init/date LMP 08/08/11

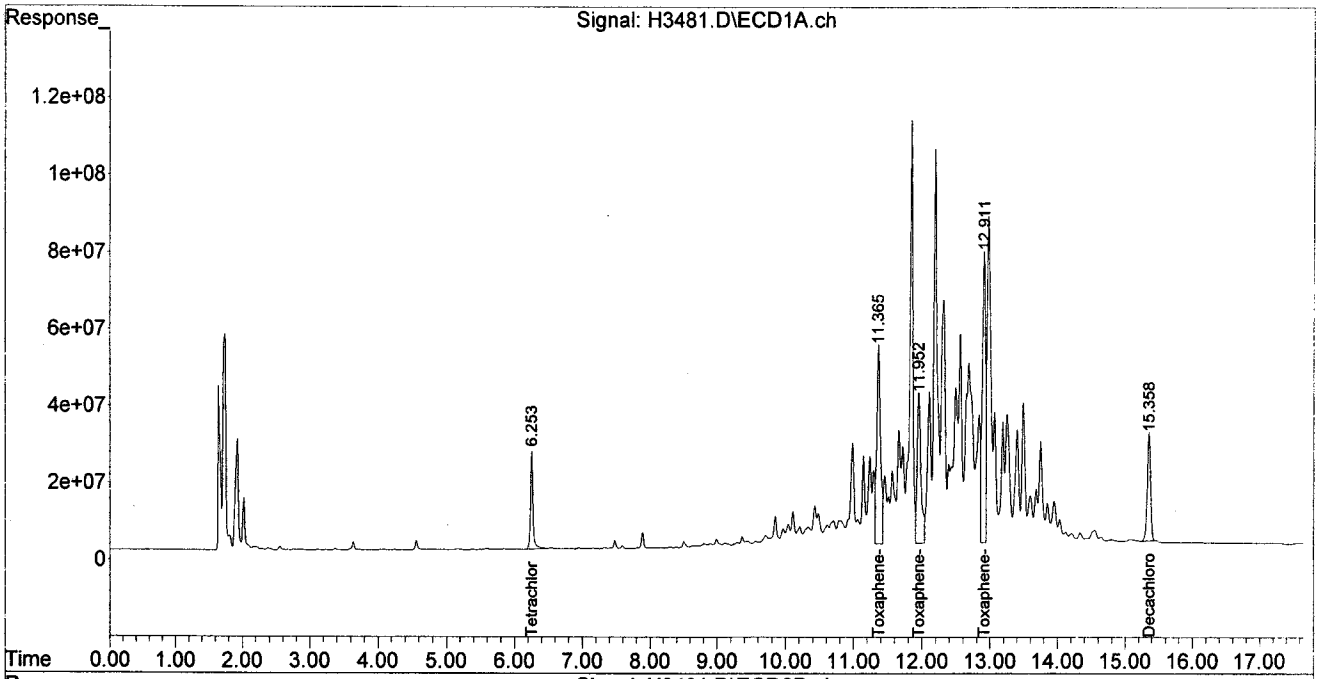
1096

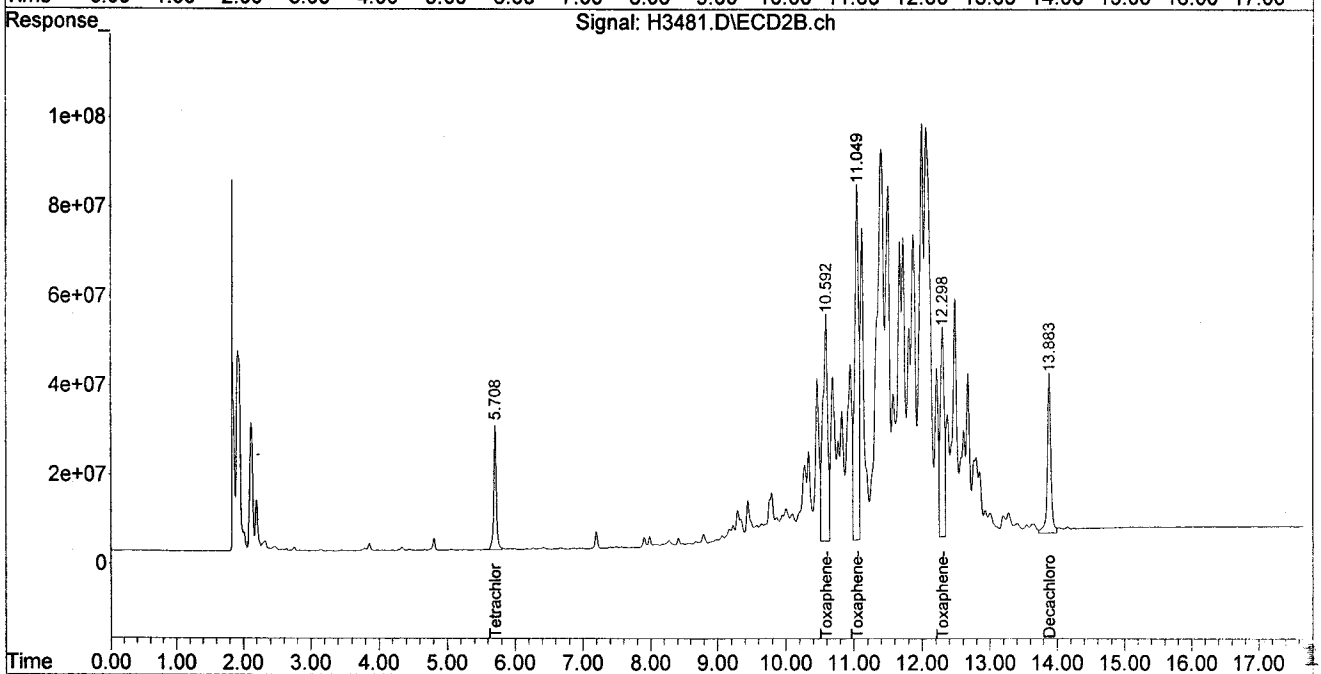
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3481.D(Signal #1) H3481.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 16:59 (#1); 07/31/11 17:23 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH3Y1 (Sig #1); TOXAPH3Y2 (Sig #2)
Misc : TOXAPH3Y1 (Sig #1); TOXAPH3Y2 (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:42:06 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:42:00 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3482.D(Signal #1)            H3482.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
InstName  : H-7890A(Signal #1)             H-7890B(Signal # 2)
Acq On    : 07/31/11 17:23 (#1); 07/31/11 17:47 (#2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : TOXAPH4Y1 (Sig #1); TOXAPH4Y2 (Sig #2)
Misc      : TOXAPH4Y1 (Sig #1); TOXAPH4Y2 (Sig #2)
ALS Vial  : 26   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:47:31 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title  : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:45:33 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1 uL
Signal #1 Phase : RTX-CLP-2          Signal #2 Phase: RTX-CLP
Signal #1 Info  : 30mLn,  0.53mm     Signal #2 Info : 30mLn,  0.53mm
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	6.253	5.707	1321.0E6	1459.9E6	41.669	39.767
	Spiked Amount	60.000 Range	18 - 90	Recovery	=	69.45%	66.28%
5) S	Decachlor...	15.357	13.877	2011.4E6	2433.2E6	79.287	81.494
	Spiked Amount	120.000 Range	36 - 180	Recovery	=	66.07%	67.91%
	Target Compounds						
2)	Toxaphene-1	11.364	10.590	4131.9E6	5115.9E6	4162.009	4088.990
3)	Toxaphene-2	11.952	11.045	3265.5E6	6661.6E6	4264.391	4243.515
4)	Toxaphene-3	12.909	12.296	5781.6E6	3992.2E6	4323.123	4212.033

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

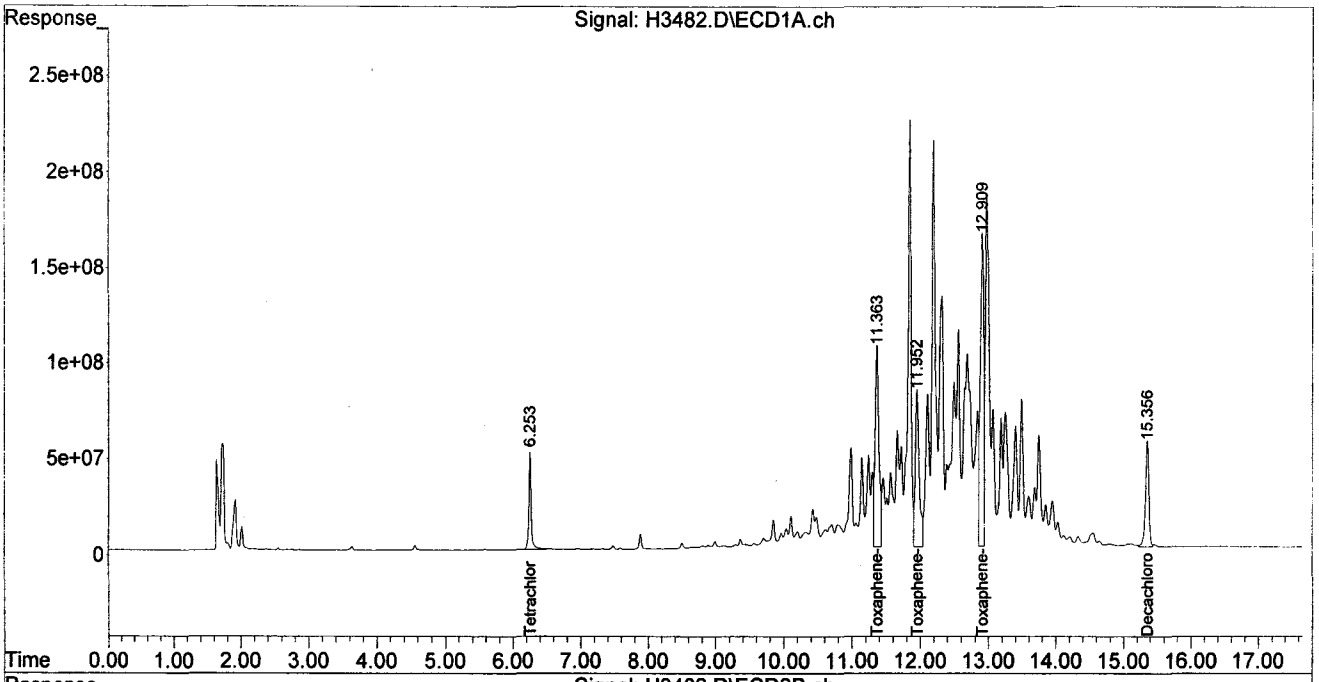
ORIGINAL
Case 41539 SDG B79N8
Episode S-4258 init/date [illegible] 08/08/11

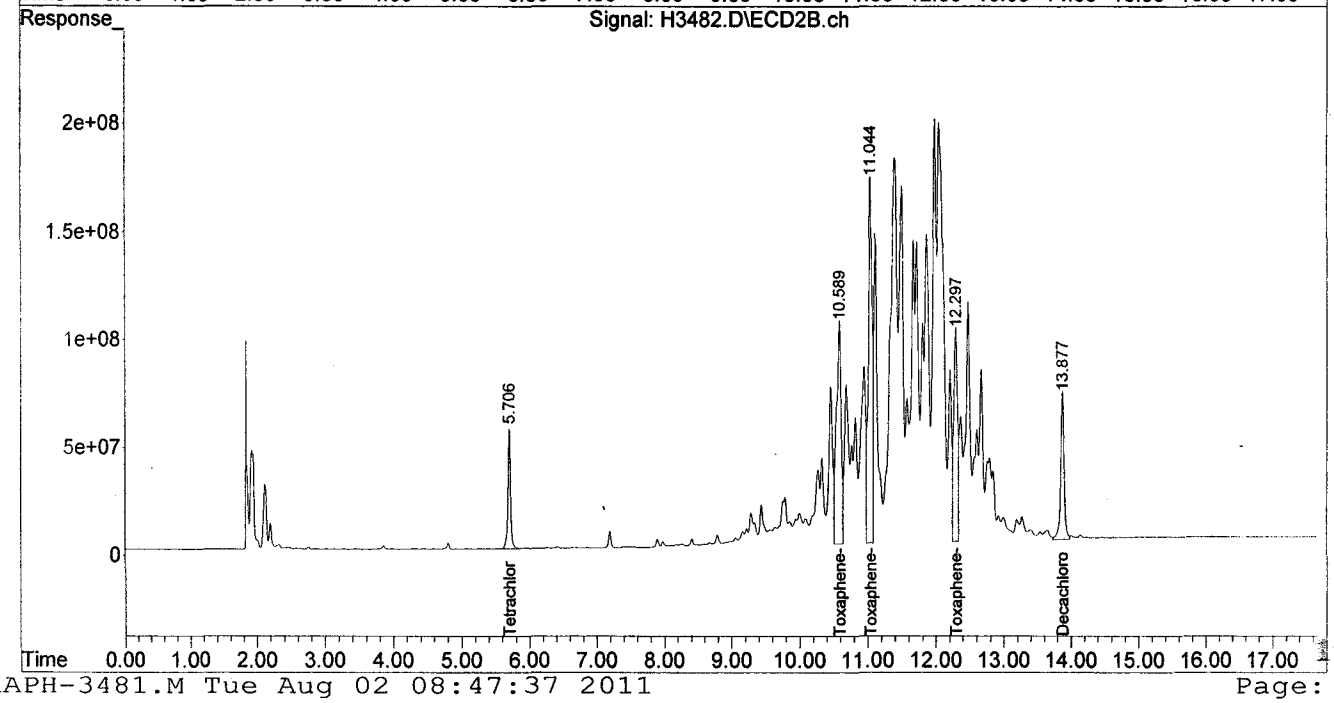
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3482.D(Signal #1) H3482.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 17:23 (#1); 07/31/11 17:47 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH4Y1 (Sig #1); TOXAPH4Y2 (Sig #2)
Misc : TOXAPH4Y1 (Sig #1); TOXAPH4Y2 (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:47:31 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:45:33 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3483.D(Signal #1) H3483.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 17:47 (#1); 07/31/11 18:11 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH5Y1 (Sig #1); TOXAPH5Y2 (Sig #2)
Misc : TOXAPH5Y1 (Sig #1); TOXAPH5Y2 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:47:43 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:45:33 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	6.254	5.703	2658.0E6	2882.7E6	83.844	78.526
Spiked Amount	60.000	Range 18 - 90		Recovery =	139.74%#	130.88%#
5) S Decachlor...	15.360	13.873	3980.0E6	4645.6E6	156.882	155.595
Spiked Amount	120.000	Range 36 - 180		Recovery =	130.74%	129.66%
Target Compounds						
2) Toxaphene-1	11.366	10.585	8592.2E6	10187.8E6	8654.752	8142.842
3) Toxaphene-2	11.956	11.041	6867.8E6	12950.4E6	8968.586	8249.500
4) Toxaphene-3	12.912	12.292	12158.7E6	8240.5E6	9091.628	8694.228

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date KVR 08/08/11

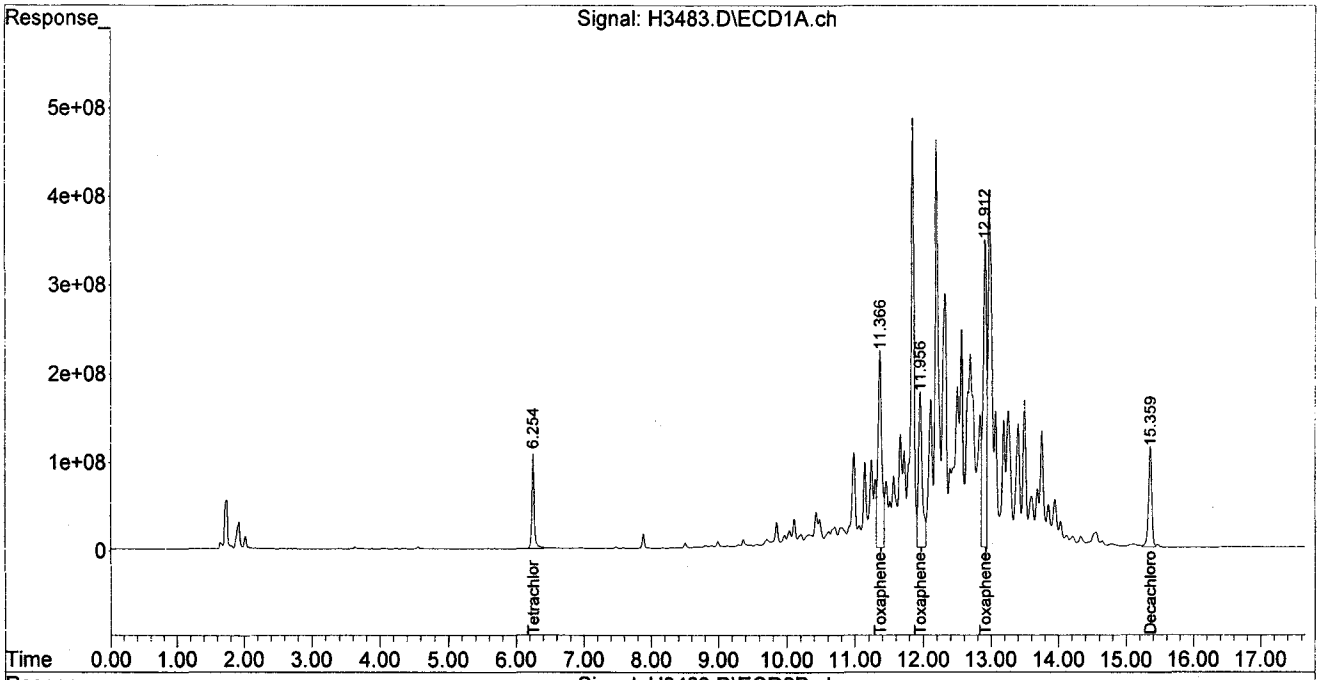
1188

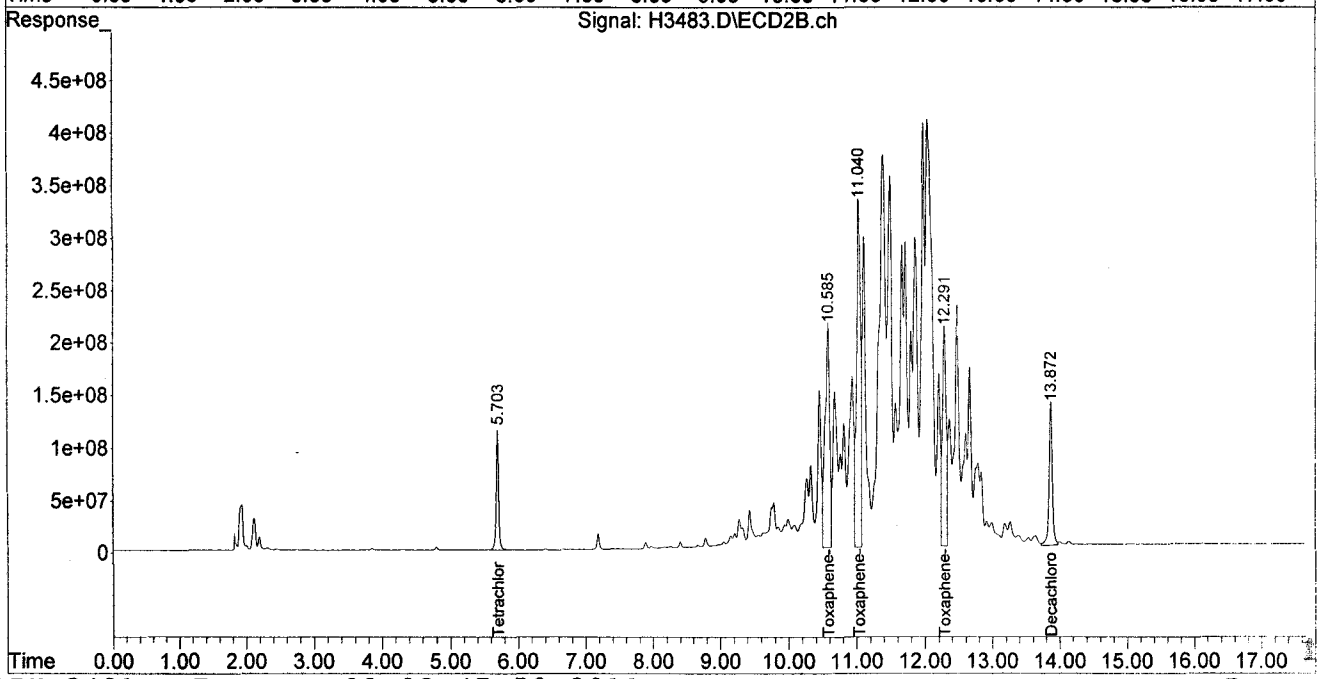
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3483.D(Signal #1) H3483.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 17:47 (#1); 07/31/11 18:11 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : TOXAPH5Y1 (Sig #1); TOXAPH5Y2 (Sig #2)
Misc : TOXAPH5Y1 (Sig #1); TOXAPH5Y2 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:47:43 2011
Quant Method : C:\msdchem\1\METHODS\TOXAPH-3481.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:45:33 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm Signal #2 Info : 30mLn, 0.53mm





Response Factor Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : FLO-PEST-3486.M
Title : CLP PESTICIDES METHOD
Last Update : Sun Jul 31 21:34:18 2011
Response Via : Initial Calibration

Calibration Files
1 =H3484.D 2 =H3485.D 3 =H3486.D
4 =H3487.D 5 =H3488.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	3.340	3.285	3.397	3.331	3.333	3.337	E7	1.19
2)		2,4,5-Trichlorophenol	4.929	4.580	4.666	5.650	5.924	5.150	E7	11.72
3)		Alpha-BHC	4.701	4.502	4.781	4.894	5.127	4.801	E7	4.83
4)		Gamma-BHC (Lindane)	4.219	4.154	4.363	4.492	4.695	4.385	E7	4.95
5)		Beta-BHC	1.847	1.850	1.714	1.778	1.766	1.791	E7	3.22
6)		Delta-BHC	3.509	3.651	3.722	3.960	4.200	3.809	E7	7.17
7)		Heptachlor	3.509	3.651	3.722	3.960	4.200	3.809	E7	7.17
8)		Aldrin	3.806	3.532	3.713	3.816	3.977	3.769	E7	4.32
9)		Heptachlor Epoxide	3.727	3.603	3.659	3.695	3.822	3.701	E7	2.20
10)		Gamma-Chlordane	3.661	3.536	3.560	3.607	3.744	3.621	E7	2.30
11)		Alpha-chlordane	3.068	2.993	3.054	3.113	3.204	3.086	E7	2.54
12)		Endosulfan I	3.144	3.036	3.166	3.210	3.343	3.180	E7	3.51
13)		4,4'-DDE	3.053	3.021	3.200	3.333	3.537	3.229	E7	6.58
14)		Dieldrin	3.235	3.235	3.427	3.562	3.760	3.444	E7	6.51
15)		Endrin	2.388	2.364	2.541	2.677	2.814	2.557	E7	7.49
16)		4,4'-DDD	2.413	2.514	2.649	2.722	2.891	2.638	E7	7.02
17)		Endosulfan II	2.902	2.705	2.995	3.049	3.200	2.970	E7	6.17
18)		4,4'-DDT	2.108	2.100	2.377	2.589	2.823	2.399	E7	13.02
19)		Endrin Aldehyde	2.250	2.164	2.278	2.308	2.376	2.275	E7	3.42
20)		Endosulfan sulfate	2.589	2.560	2.695	2.774	2.886	2.701	E7	4.97
21)		Methoxychlor	1.256	1.217	1.312	1.402	1.524	1.342	E7	9.17
22)		Endrin Ketone	3.008	2.910	3.068	3.149	3.285	3.084	E7	4.62
23)	S	Decachlorobiphenyl	3.124	2.854	2.844	2.801	2.818	2.888	E7	4.61

Signal #2 Calibration Files
1 =H3484.D 2 =H3485.D 3 =H3486.D
4 =H3487.D 5 =H3488.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	3.608	3.443	3.563	3.597	3.561	3.554	E7	1.85
2)		2,4,5-Trichlorophenol	7.920	6.374	6.321	6.853	7.637	7.021	E7	10.38
3)		Alpha-BHC	4.907	4.831	5.193	5.450	5.599	5.196	E7	6.41
4)		Gamma-BHC (Lindane)	4.815	4.779	4.971	5.178	5.291	5.007	E7	4.47
5)		Beta-BHC	2.517	2.190	2.086	2.014	1.992	2.160	E7	9.91
6)		Delta-BHC	4.333	4.435	4.670	4.902	5.046	4.677	E7	6.45
7)		Heptachlor	4.719	4.630	5.079	5.017	5.020	4.893	E7	4.16
8)		Aldrin	4.032	4.095	4.329	4.465	4.553	4.295	E7	5.28
9)		Heptachlor Epoxide	4.050	4.000	4.158	4.213	4.265	4.137	E7	2.68
10)		Gamma-Chlordane	4.061	3.963	4.109	4.182	4.260	4.115	E7	2.76
11)		Alpha-chlordane	3.502	3.411	3.546	3.621	3.700	3.556	E7	3.11
12)		Endosulfan I	3.847	3.754	3.878	3.929	3.863	3.854	E7	1.66
13)		4,4'-DDE	3.550	3.609	3.813	4.002	4.165	3.828	E7	6.78
14)		Dieldrin	3.748	3.736	3.907	4.076	4.171	3.927	E7	4.94
15)		Endrin	3.524	3.379	3.590	3.708	3.910	3.622	E7	5.53
16)		4,4'-DDD	2.918	2.958	3.155	3.295	3.258	3.117	E7	5.51
17)		Endosulfan II	3.259	3.213	3.374	3.463	3.497	3.361	E7	3.69
18)		4,4'-DDT	2.980	3.000	3.152	3.332	3.468	3.187	E7	6.64
19)		Endrin Aldehyde	2.594	2.602	2.473	2.506	2.559	2.547	E7	2.20
20)		Endosulfan sulfate	3.022	2.925	3.003	3.040	3.058	3.009	E7	1.71
21)		Methoxychlor	1.604	1.623	1.624	1.721	1.782	1.671	E7	4.62
22)		Endrin Ketone	3.574	3.406	3.564	3.521	3.541	3.521	E7	1.92
23)	S	Decachlorobiphenyl	3.624	3.456	3.305	3.224	3.101	3.342	E7	6.10

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3484.D(Signal #1) H3484.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:11 (#1); 07/31/11 18:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
Misc : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:34:02 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:31:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.254	5.704	167.0E6	180.4E6	5.160	5.212
	Spiked Amount 60.000	Range 18 - 90		Recovery =		8.60%#	8.69%#
23)	S Decachlor...	15.359	13.860	312.4E6	362.4E6	10.929m	10.785m
	Spiked Amount 120.000	Range 36 - 180		Recovery =		9.11%#	8.99%#
	Target Compounds						
2)	2,4,5-Tri...	4.120	3.856	246.5E6	396.0E6	4.828	6.739m#
3)	Alpha-BHC	7.381	6.713	235.1E6	245.3E6	4.973	4.844
4)	Gamma-BHC...	7.994	7.261	210.9E6	240.7E6	4.863	4.914
5)	Beta-BHC	8.129	7.412	92334311	125.8E6	5.129	5.893
6)	Delta-BHC	8.609	7.704	175.5E6	216.7E6	4.659	4.670
7)	Heptachlor	8.609	8.039	175.5E6	235.9E6	4.659	4.884
8)	Aldrin	9.233	8.510	190.3E6	201.6E6	5.131	4.763
9)	Heptachlo...	10.072	9.417	186.3E6	202.5E6	5.128	4.995
10)	Gamma-Chl...	10.344	9.597	183.0E6	203.0E6	5.164	5.048
11)	Alpha-chl...	10.550	9.788	153.4E6	175.1E6	5.069	4.970
12)	Endosulfan I	10.643	9.986	157.2E6	192.4E6	5.051	5.156
13)	4,4'-DDE	10.748	9.890	305.3E6	355.0E6	9.638	9.419
14)	Dieldrin	11.026	10.321	323.5E6	374.8E6	9.577	9.821
15)	Endrin	11.455	10.648	238.8E6	352.4E6	9.266	9.855
16)	4,4'-DDD	11.539	10.716	241.3E6	291.8E6	9.273	9.613
17)	Endosulfa...	11.735	10.954	290.2E6	325.9E6	10.317	9.831
18)	4,4'-DDT	11.968	11.094	210.8E6	298.0E6	8.466	9.372
19)	Endrin Al...	12.182	11.521	225.0E6	259.4E6	9.870	9.547
20)	Endosulfa...	12.555	12.107	258.9E6	302.2E6	9.659	9.088
21)	Methoxychlor	12.845	11.716	627.9E6	802.2E6	46.013	45.932
22)	Endrin Ke...	13.338	12.495	300.8E6	357.4E6	9.902	10.089

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date KVKao 08/08/11

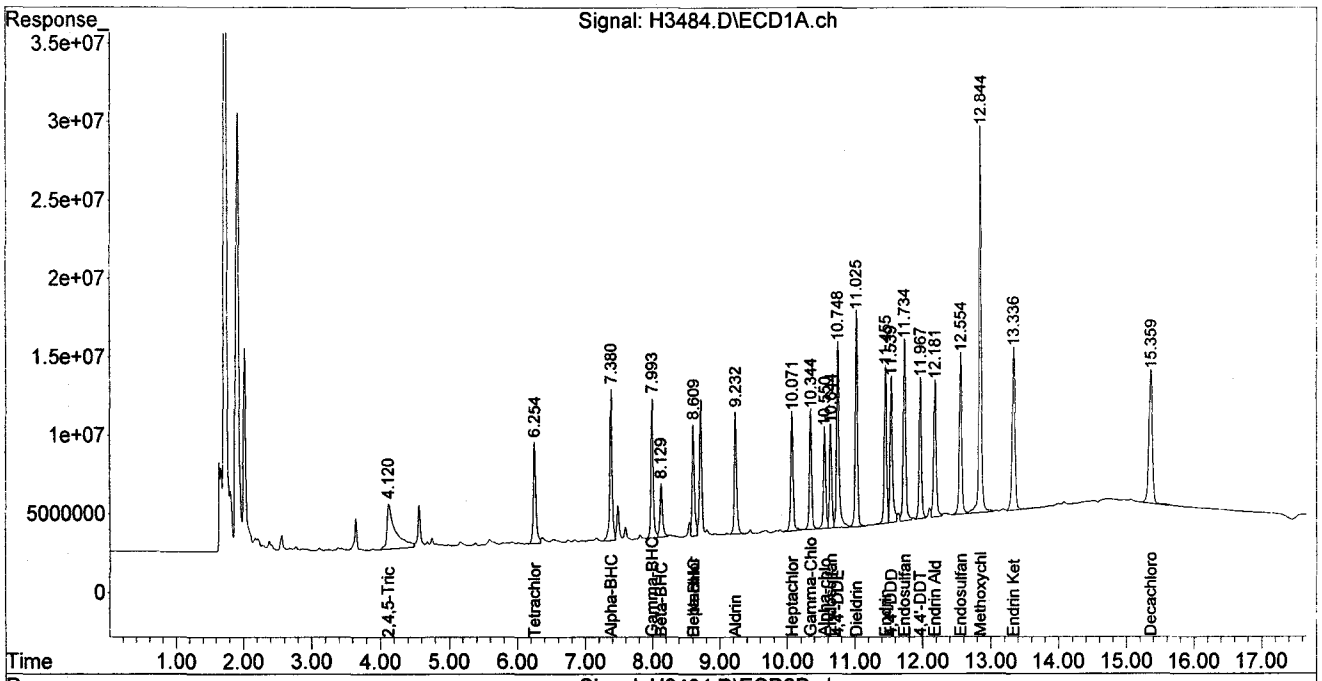
1183

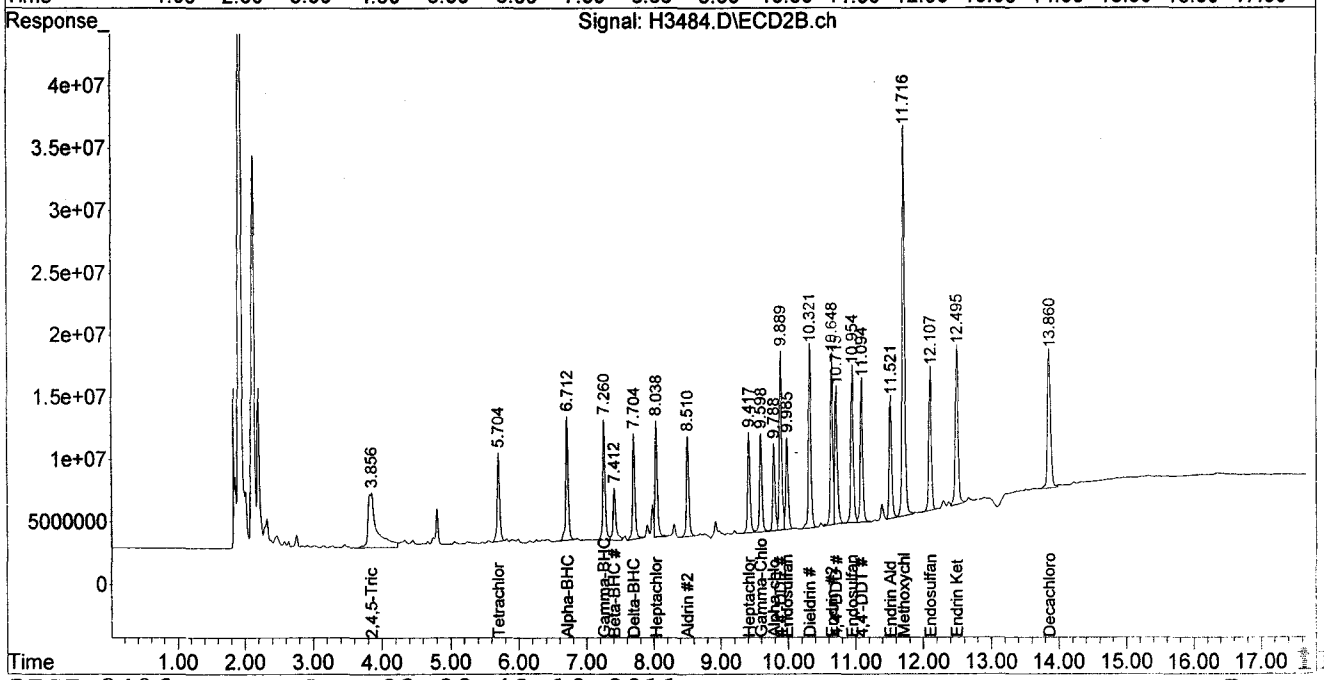
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3484.D(Signal #1) H3484.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:11 (#1); 07/31/11 18:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
Misc : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:34:02 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:31:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



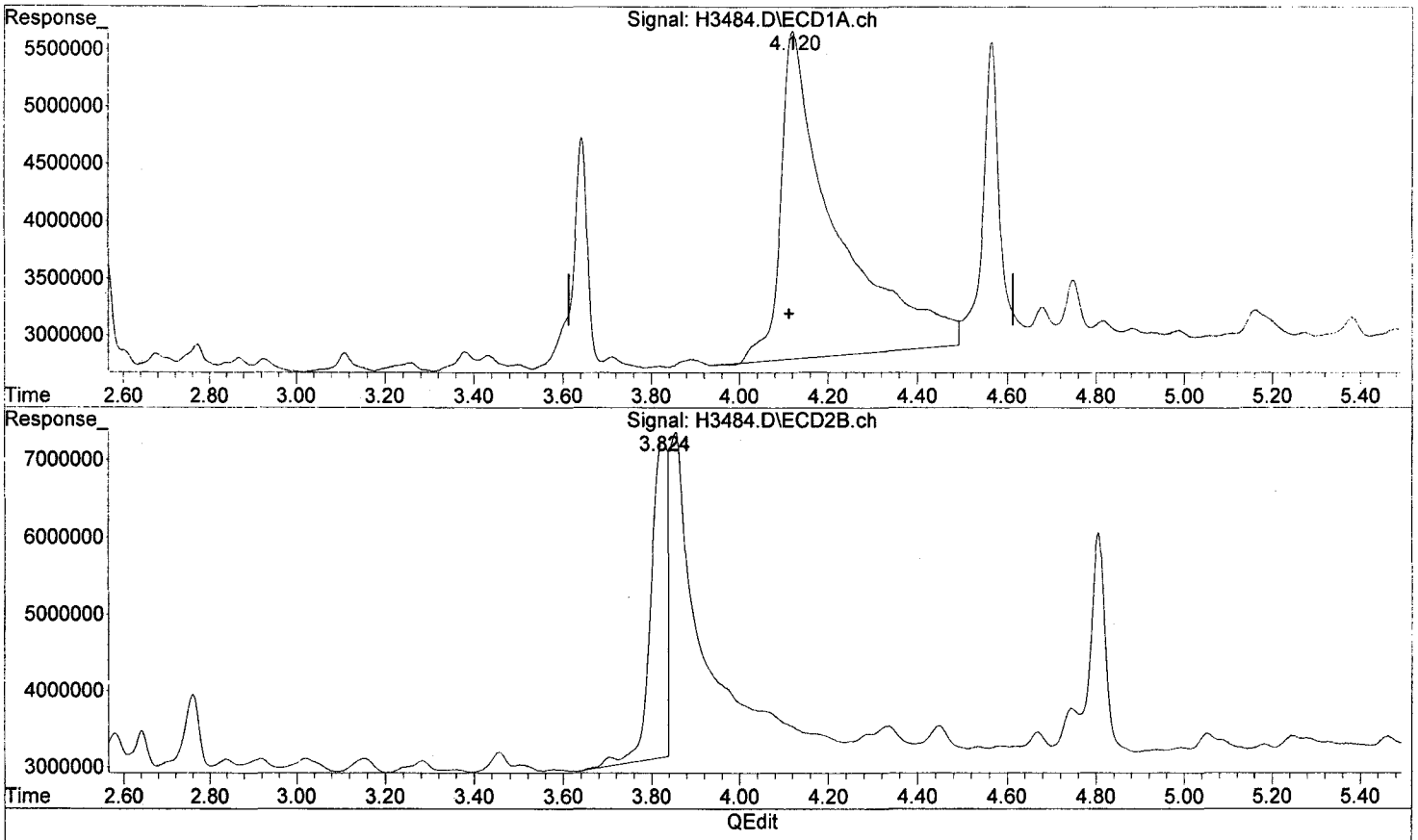


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3484.D(Signal #1) H3484.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:11 (#1); 07/31/11 18:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
Misc : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:31:14 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:31:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



QEdit

(2) 2,4,5-Trichlorophenol

4.120min 4.828 ug/L

response 246454535

(2) 2,4,5-Trichlorophenol #2

3.826min 1.829 ug/L

response 107439262

(+) = Expected Retention Time

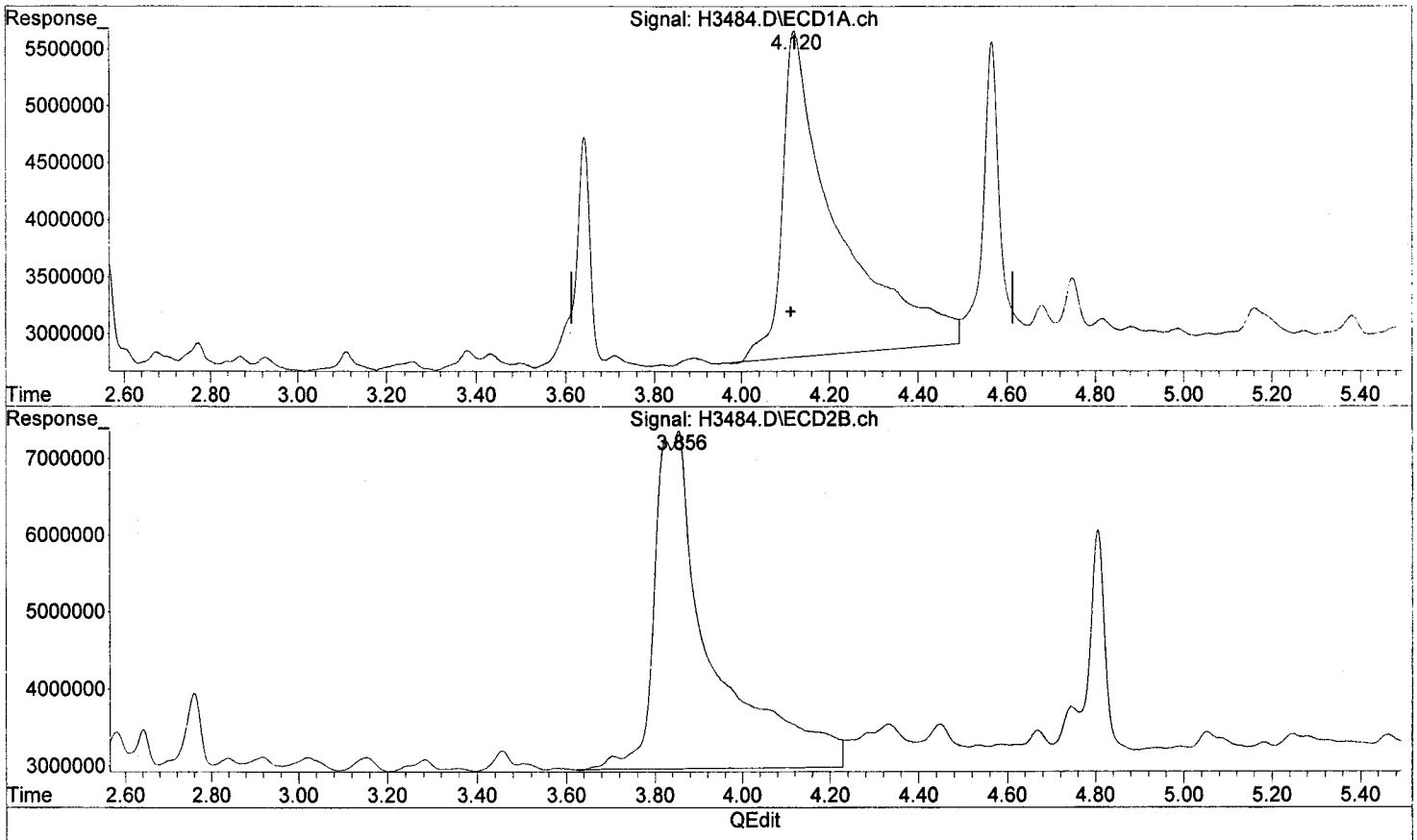
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3484.D(Signal #1) H3484.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:11 (#1); 07/31/11 18:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
Misc : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:31:14 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:31:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

DeLeo
08/08/11



(2) 2,4,5-Trichlorophenol

4.120min 4.828 ug/L

response 246454535

(2) 2,4,5-Trichlorophenol #2

3.856min 6.739 ug/L m

response 395977674

(+) = Expected Retention Time

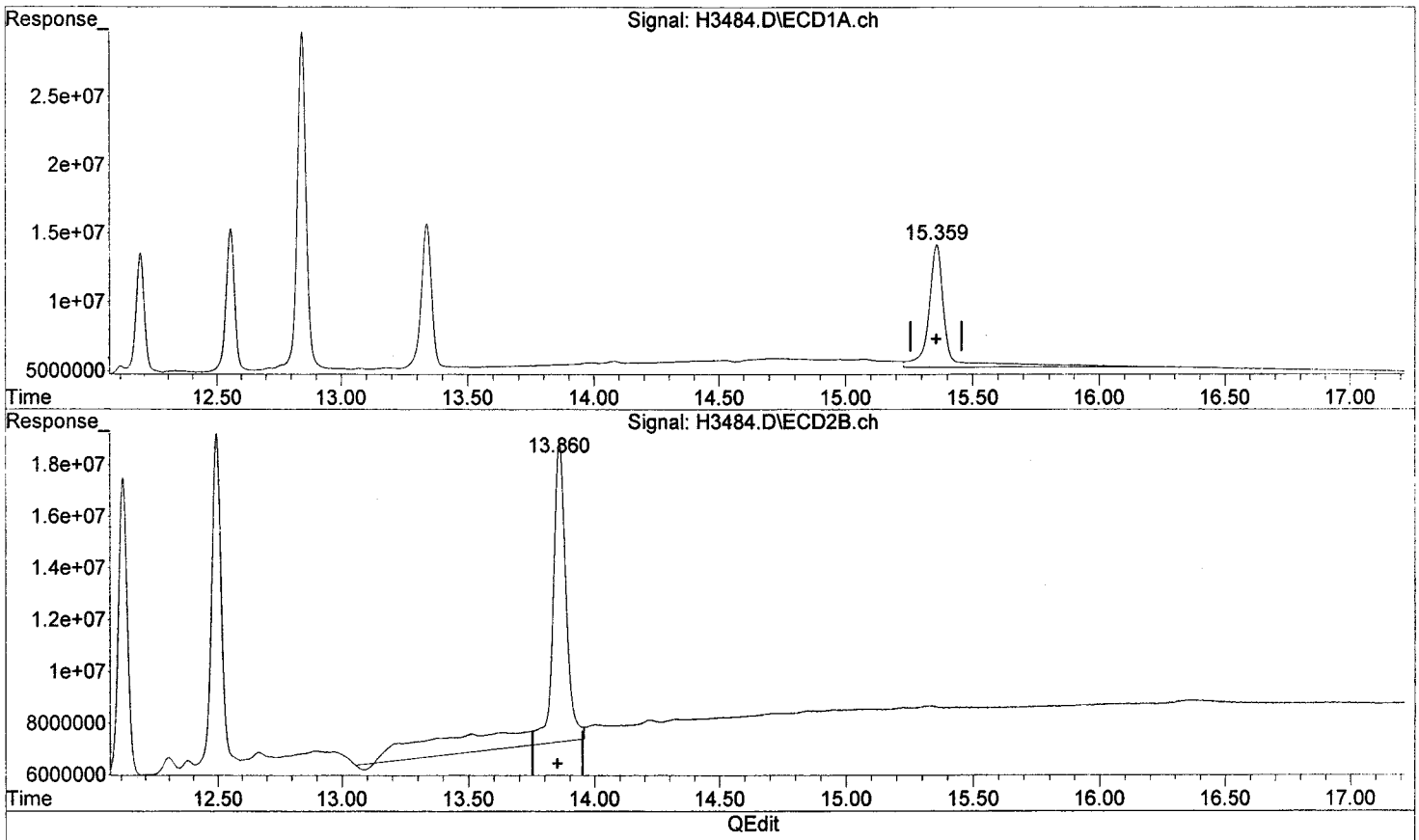
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3484.D(Signal #1) H3484.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:11 (#1); 07/31/11 18:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
Misc : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

08/08/11

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:31:14 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:31:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



QEdit

(23) Decachlorobiphenyl (S)
15.358min 14.704 ug/L
response 420222817

(23) Decachlorobiphenyl #2 (S)
13.861min 18.470 ug/L
response 620608391

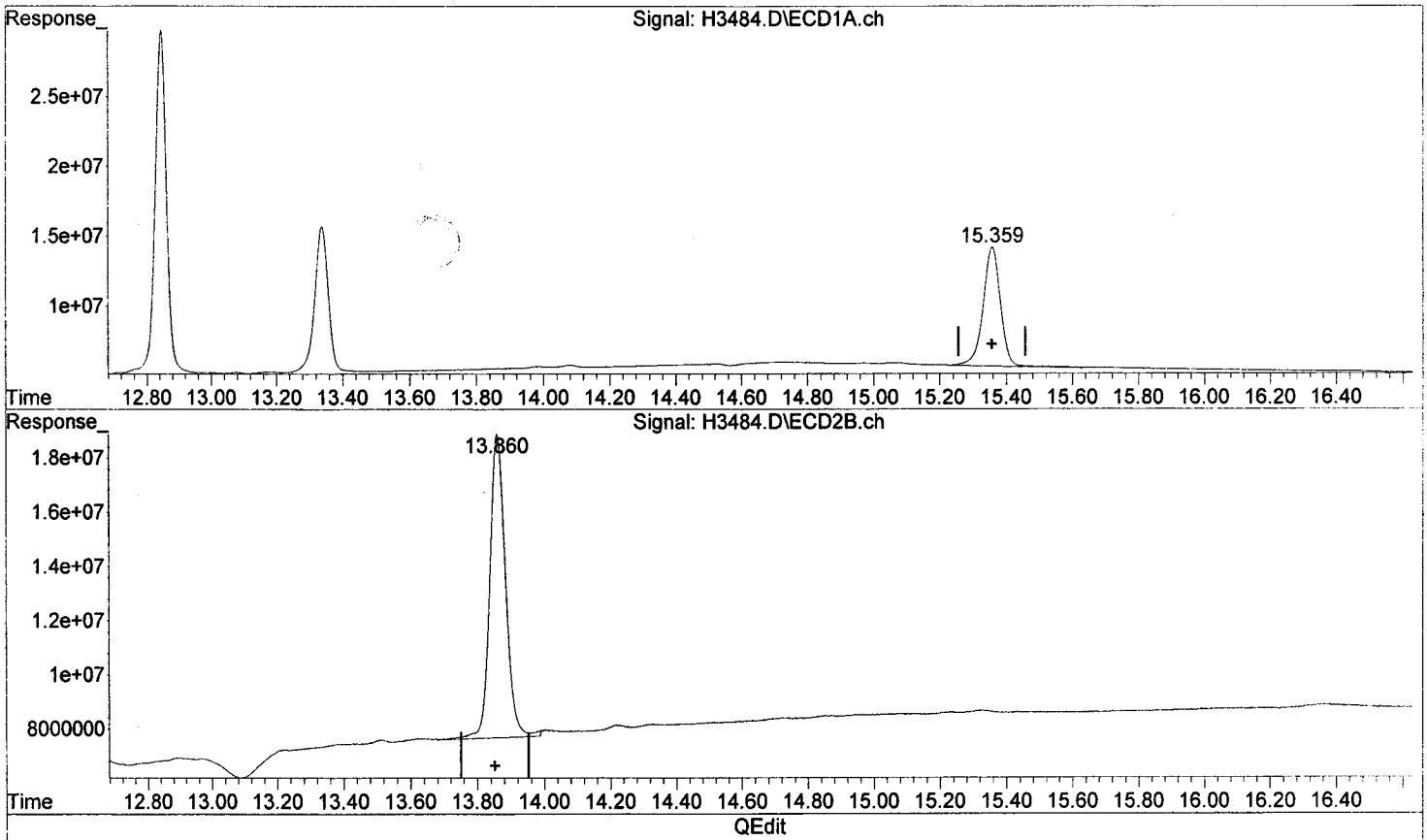
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3484.D(Signal #1) H3484.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:11 (#1); 07/31/11 18:35 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
Misc : INDC1Y1 (Sig #1); INDC1Y2 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 31 21:31:14 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:31:02 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



QEdit

(23) Decachlorobiphenyl (S)
15.359min 10.929 ug/L m
response 312354537

(23) Decachlorobiphenyl #2 (S)
13.860min 10.785 ug/L m
response 362394353

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3485.D(Signal #1) H3485.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:35 (#1); 07/31/11 19:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC2Y1 (Sig #1); INDC2Y2 (Sig #2)
Misc : INDC2Y1 (Sig #1); INDC2Y2 (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:48:18 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.254	5.702	328.5E6	344.3E6	9.843	9.686
	Spiked Amount 60.000	Range 18 - 90		Recovery =		16.41%#	16.14%#
23)	S Decachlor...	15.357	13.847	570.7E6	691.3E6	19.761	20.684
	Spiked Amount 120.000	Range 36 - 180		Recovery =		16.47%#	17.24%#
	Target Compounds						
2)	2,4,5-Tri...	4.119	3.824	458.0E6	637.4E6	8.893	9.079
3)	Alpha-BHC	7.380	6.709	450.2E6	483.1E6	9.377	9.297
4)	Gamma-BHC...	7.994	7.256	415.4E6	477.9E6	9.474	9.545
5)	Beta-BHC	8.129	7.406	185.0E6	219.0E6	10.330	10.139
6)	Delta-BHC	8.609	7.698	365.1E6	443.5E6	9.587	9.482
7)	Heptachlor	8.609	8.033	365.1E6	463.0E6	9.587	9.463
8)	Aldrin	9.233	8.503	353.2E6	409.5E6	9.372	9.536
9)	Heptachlo...	10.071	9.407	360.3E6	400.0E6	9.735	9.669
10)	Gamma-Chl...	10.344	9.587	353.6E6	396.3E6	9.764	9.631
11)	Alpha-chl...	10.550	9.777	299.3E6	341.1E6	9.697	9.593
12)	Endosulfan I	10.643	9.975	303.6E6	375.4E6	9.547	9.739
13)	4,4'-DDE	10.748	9.879	604.3E6	721.8E6	18.715	18.856
14)	Dieldrin	11.026	10.310	647.0E6	747.1E6	18.788	19.023
15)	Endrin	11.454	10.636	472.8E6	675.7E6	18.492	18.655
16)	4,4'-DDD	11.540	10.704	502.8E6	591.5E6	19.062	18.979
17)	Endosulfa...	11.735	10.941	541.1E6	642.7E6	18.216	19.119
18)	4,4'-DDT	11.968	11.080	420.0E6	600.0E6	17.505	18.828
19)	Endrin Al...	12.182	11.507	432.7E6	520.5E6	19.022	20.438
20)	Endosulfa...	12.556	12.091	512.1E6	584.9E6	18.960	19.437
21)	Methoxychlor	12.844	11.701	1217.1E6	1623.2E6	90.679	97.149
22)	Endrin Ke...	13.337	12.480	582.0E6	681.2E6	18.871	19.346

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B79N8
Episode S-4258 init/date 08/08/11

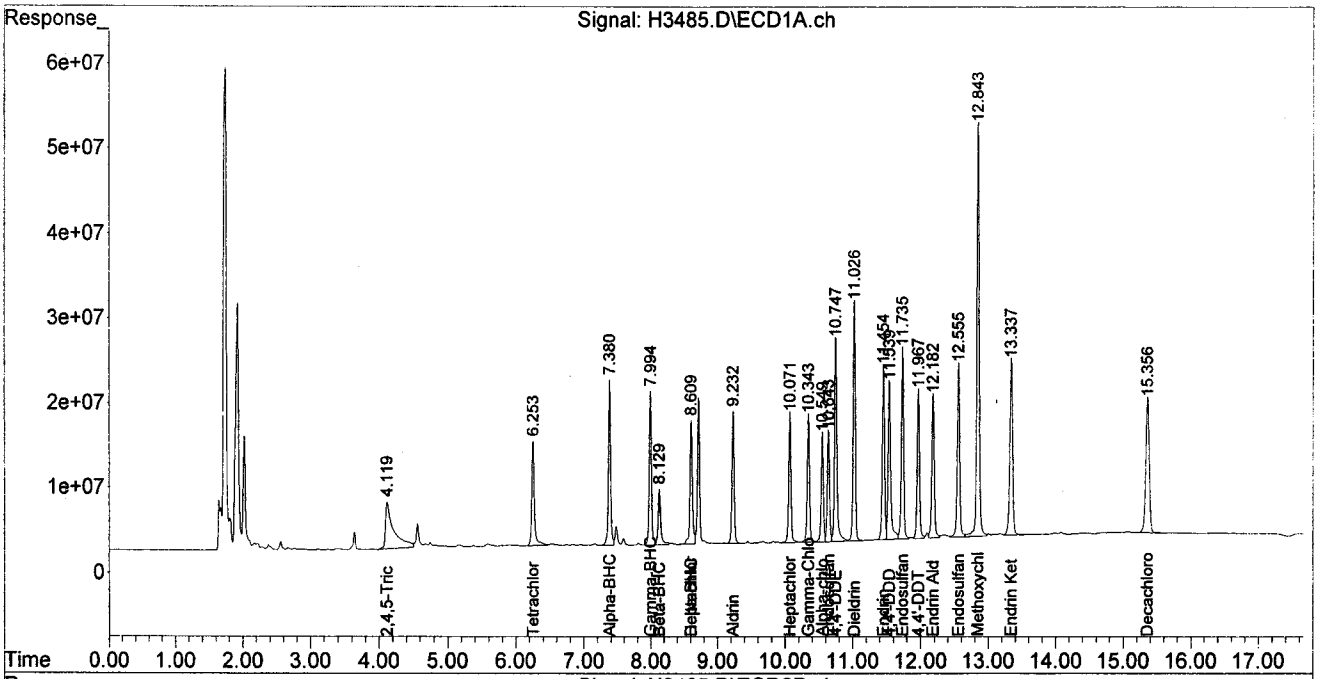
1189

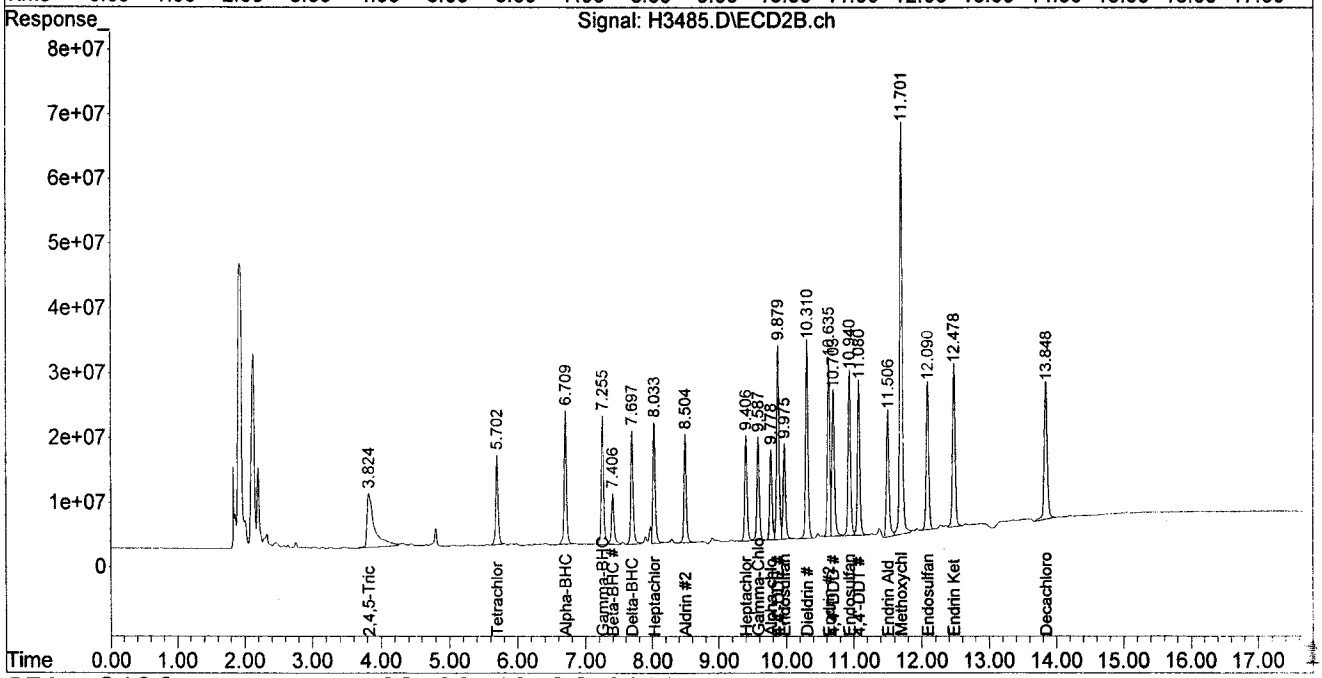
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3485.D(Signal #1) H3485.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 18:35 (#1); 07/31/11 19:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC2Y1 (Sig #1); INDC2Y2 (Sig #2)
Misc : INDC2Y1 (Sig #1); INDC2Y2 (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:48:18 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3486.D(Signal #1) H3486.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 19:00 (#1); 07/31/11 19:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC3Y1 (Sig #1); INDC3Y2 (Sig #2)
Misc : INDC3Y1 (Sig #1); INDC3Y2 (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:48:34 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.253	5.701	679.3E6	712.6E6	20.356	20.050
	Spiked Amount	60.000	Range 18 - 90		Recovery =	33.93%	33.42%
23)	S Decachlor...	15.358	13.861	1137.5E6	1322.2E6	39.387	39.561
	Spiked Amount	120.000	Range 36 - 180		Recovery =	32.82%#	32.97%#
	Target Compounds						
2)	2,4,5-Tri...	4.115	3.818	933.2E6	1264.3E6	18.121	18.007
3)	Alpha-BHC	7.380	6.708	956.3E6	1038.7E6	19.918	19.991
4)	Gamma-BHC...	7.994	7.255	872.7E6	994.1E6	19.904	19.856
5)	Beta-BHC	8.129	7.406	342.8E6	417.1E6	19.141	19.315
6)	Delta-BHC	8.609	7.698	744.4E6	934.0E6	19.545	19.969
7)	Heptachlor	8.609	8.032	744.4E6	1015.8E6	19.545	20.761
8)	Aldrin	9.232	8.504	742.7E6	865.8E6	19.706	20.159
9)	Heptachlo...	10.071	9.410	731.8E6	831.6E6	19.771	20.101
10)	Gamma-Chl...	10.344	9.590	711.9E6	821.8E6	19.658	19.971
11)	Alpha-chl...	10.550	9.780	610.8E6	709.1E6	19.792	19.940
12)	Endosulfan I	10.643	9.978	633.2E6	775.6E6	19.914	20.124
13)	4,4'-DDE	10.748	9.882	1280.0E6	1525.4E6	39.642	39.850
14)	Dieldrin	11.026	10.314	1370.9E6	1562.9E6	39.808	39.794
15)	Endrin	11.455	10.640	1016.4E6	1436.0E6	39.757	39.645
16)	4,4'-DDD	11.540	10.708	1059.8E6	1262.2E6	40.178	40.496
17)	Endosulfa...	11.735	10.946	1198.0E6	1349.7E6	40.332	40.152
18)	4,4'-DDT	11.968	11.086	950.6E6	1260.9E6	39.623	39.570
19)	Endrin Al...	12.183	11.515	911.1E6	989.2E6	40.049	38.841
20)	Endosulfa...	12.555	12.102	1077.9E6	1201.1E6	39.911	39.912
21)	Methoxychlor	12.844	11.710	2625.0E6	3247.2E6	195.565	194.345
22)	Endrin Ke...	13.338	12.491	1227.1E6	1425.6E6	39.792	40.485

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date 08/08/11

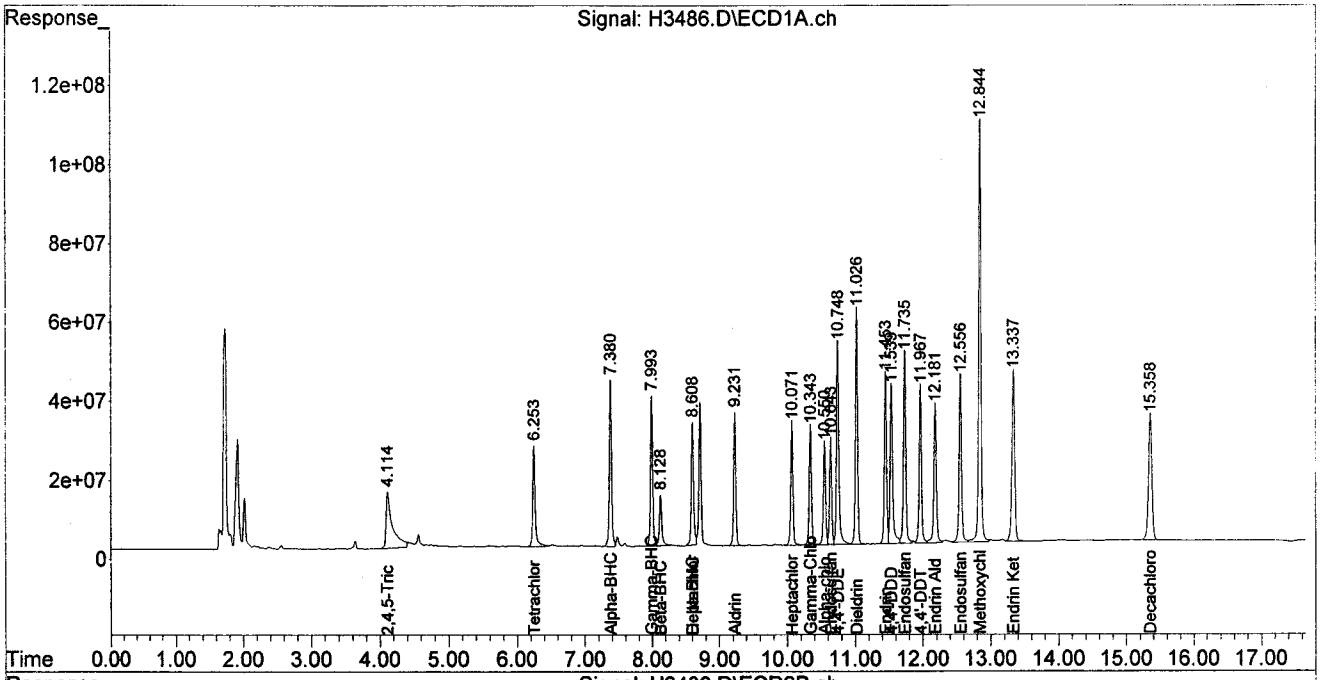
1111

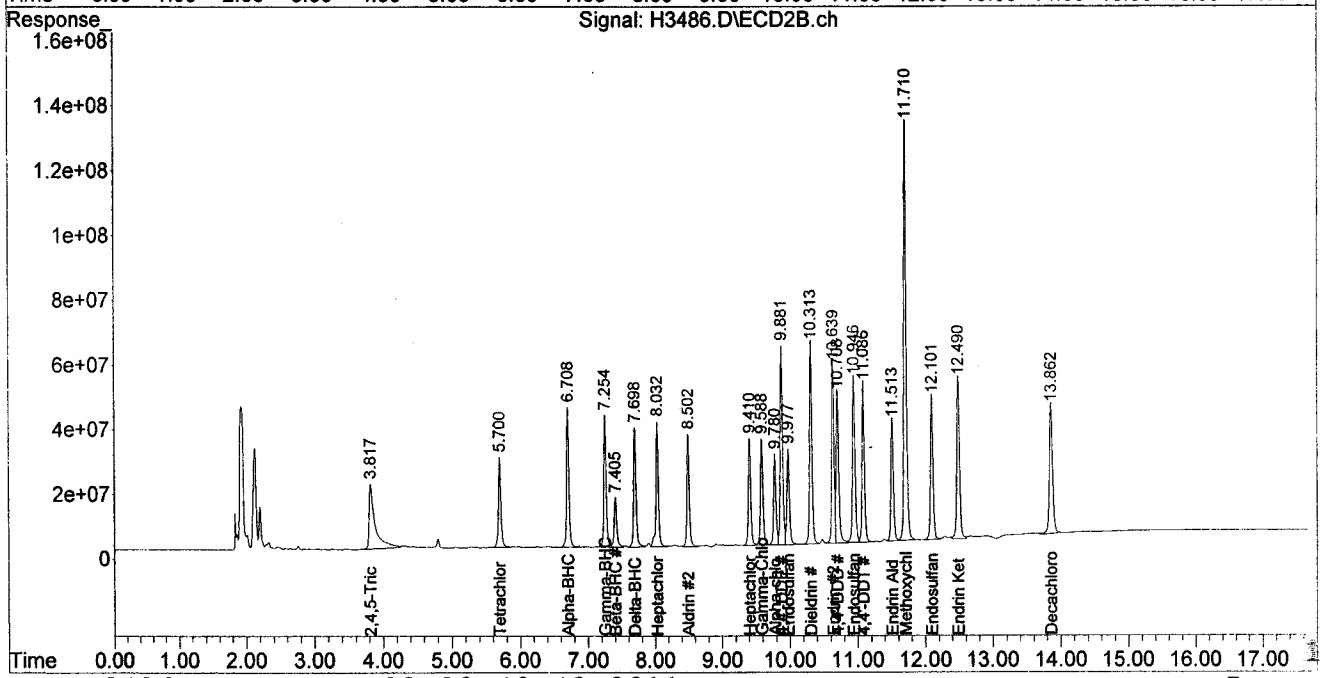
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3486.D(Signal #1) H3486.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 19:00 (#1); 07/31/11 19:24 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC3Y1 (Sig #1); INDC3Y2 (Sig #2)
Misc : INDC3Y1 (Sig #1); INDC3Y2 (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:48:34 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3487.D(Signal #1) H3487.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 19:24 (#1); 07/31/11 19:48 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC4Y1 (Sig #1); INDC4Y2 (Sig #2)
Misc : INDC4Y1 (Sig #1); INDC4Y2 (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:48:49 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	6.252	5.702	1332.5E6	1438.7E6	39.931	40.479
	Spiked Amount	60.000 Range	18 - 90	Recovery	=	66.55%	67.47%
23) S	Decachlor...	15.357	13.845	2241.0E6	2579.3E6	77.593	77.174
	Spiked Amount	120.000 Range	36 - 180	Recovery	=	64.66%	64.31%
	Target Compounds						
2)	2,4,5-Tri...	4.112	3.814	2260.2E6	2741.0E6	43.887	39.040
3)	Alpha-BHC	7.379	6.709	1957.7E6	2180.0E6	40.774	41.956
4)	Gamma-BHC...	7.992	7.256	1796.6E6	2071.1E6	40.976	41.366
5)	Beta-BHC	8.128	7.407	711.4E6	805.5E6	39.719	37.299
6)	Delta-BHC	8.607	7.699	1584.0E6	1960.7E6	41.591	41.921
7)	Heptachlor	8.607	8.033	1584.0E6	2006.8E6	41.591	41.015
8)	Aldrin	9.231	8.503	1526.3E6	1786.0E6	40.499	41.586
9)	Heptachlo...	10.070	9.407	1478.2E6	1685.4E6	39.939	40.735
10)	Gamma-Chl...	10.343	9.586	1442.9E6	1672.8E6	39.844	40.653
11)	Alpha-chl...	10.549	9.777	1245.1E6	1448.5E6	40.342	40.733
12)	Endosulfan I	10.642	9.974	1284.2E6	1571.6E6	40.385	40.776
13)	4,4'-DDE	10.747	9.878	2666.6E6	3201.8E6	82.587	83.647
14)	Dieldrin	11.025	10.309	2849.3E6	3260.4E6	82.737	83.015
15)	Endrin	11.454	10.635	2141.3E6	2966.1E6	83.756	81.890
16)	4,4'-DDD	11.538	10.702	2177.4E6	2636.3E6	82.550	84.582
17)	Endosulfa...	11.734	10.940	2439.0E6	2770.6E6	82.115	82.424
18)	4,4'-DDT	11.967	11.079	2071.3E6	2665.8E6	86.331	83.658
19)	Endrin Al...	12.182	11.505	1846.4E6	2004.5E6	81.161	78.710
20)	Endosulfa...	12.555	12.091	2219.4E6	2431.8E6	82.179	80.805
21)	Methoxychlor	12.844	11.700	5606.3E6	6883.9E6	417.675	412.003
22)	Endrin Ke...	13.337	12.478	2519.2E6	2816.6E6	81.686	79.987

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7GN8
4259
Episode S-4259 init/date [signature] 08/08/11

[signature] 08/08/11

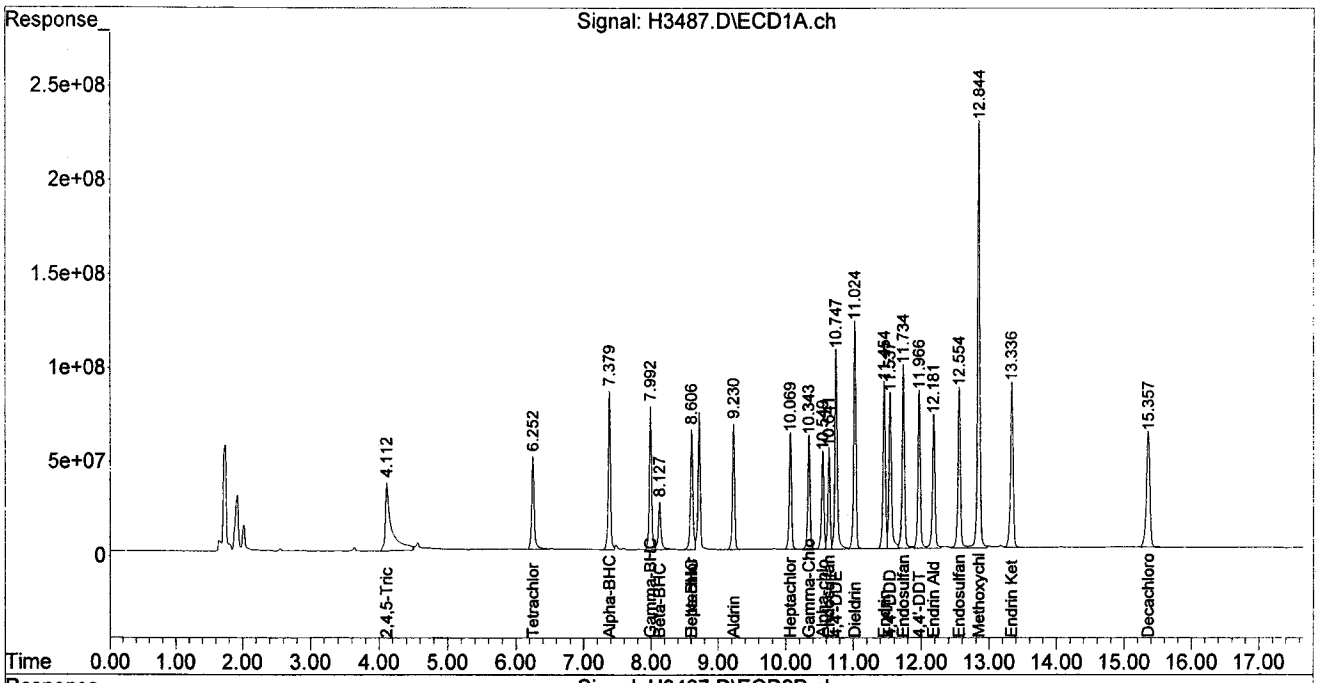
1113

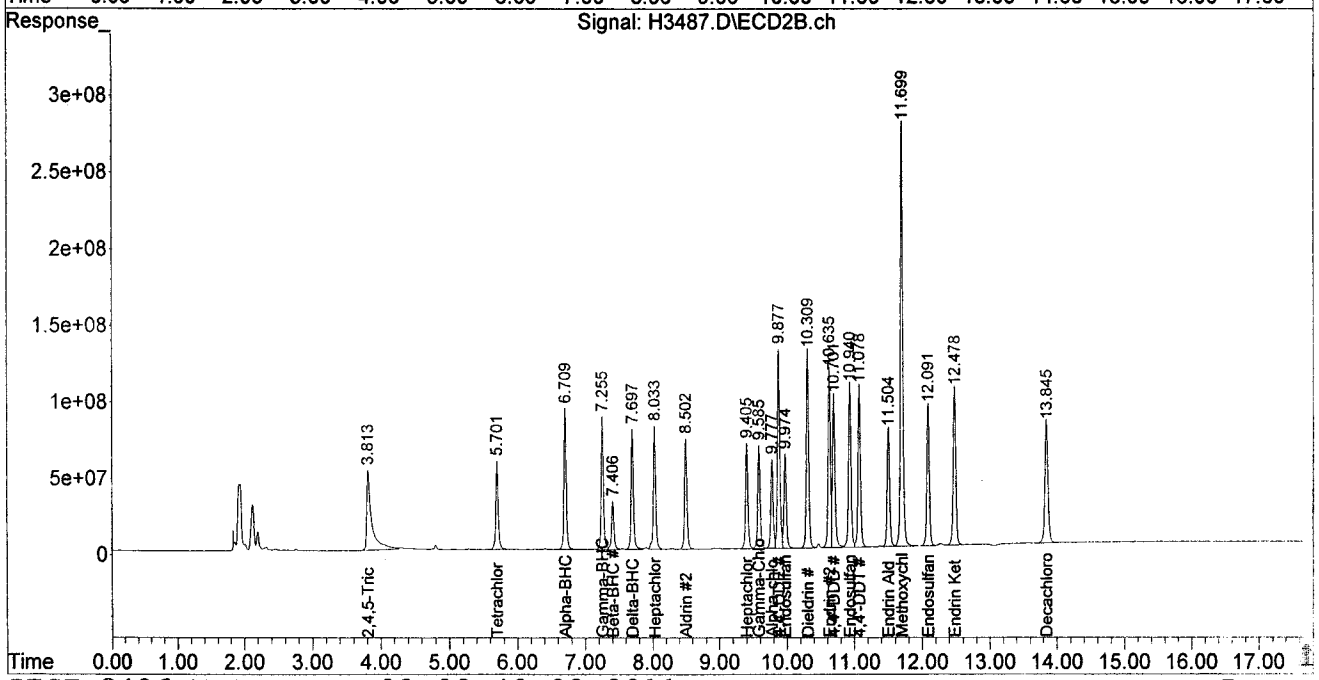
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3487.D(Signal #1) H3487.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 19:24 (#1); 07/31/11 19:48 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC4Y1 (Sig #1); INDC4Y2 (Sig #2)
Misc : INDC4Y1 (Sig #1); INDC4Y2 (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:48:49 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3488.D(Signal #1) H3488.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 19:48 (#1); 07/31/11 20:12 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC5Y1 (Sig #1); INDC5Y2 (Sig #2)
Misc : INDC5Y1 (Sig #1); INDC5Y2 (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:49:08 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.253	5.699	2666.2E6	2848.4E6	79.896	80.145
	Spiked Amount	60.000	Range 18 - 90		Recovery =	133.16%#	133.57%#
23)	S Decachlor...	15.358	13.842	4509.3E6	4961.2E6	156.133	148.444
	Spiked Amount	120.000	Range 36 - 180		Recovery =	130.11%	123.70%
	Target Compounds						
2)	2,4,5-Tri...	4.110	3.810	4739.6E6	6109.8E6	92.030	87.022
3)	Alpha-BHC	7.381	6.705	4101.9E6	4479.1E6	85.435	86.205
4)	Gamma-BHC...	7.994	7.250	3755.9E6	4233.0E6	85.662	84.547
5)	Beta-BHC	8.128	7.400	1412.6E6	1593.7E6	78.871	73.800
6)	Delta-BHC	8.609	7.691	3360.4E6	4037.0E6	88.232	86.312
7)	Heptachlor	8.609	8.026	3360.4E6	4015.6E6	88.232	82.069
8)	Aldrin	9.233	8.496	3181.9E6	3642.3E6	84.427	84.808
9)	Heptachlo...	10.072	9.401	3057.3E6	3412.2E6	82.603	82.473
10)	Gamma-Chl...	10.345	9.581	2995.0E6	3407.6E6	82.701	82.813
11)	Alpha-chl...	10.550	9.772	2563.3E6	2960.2E6	83.053	83.242
12)	Endosulfan I	10.644	9.969	2674.6E6	3090.6E6	84.111	80.186
13)	4,4'-DDE	10.748	9.872	5659.2E6	6663.7E6	175.271	174.087
14)	Dieldrin	11.027	10.304	6016.1E6	6673.1E6	174.693	169.908
15)	Endrin	11.455	10.631	4502.4E6	6256.5E6	176.107	172.732
16)	4,4'-DDD	11.539	10.697	4625.2E6	5212.2E6	175.352	167.229
17)	Endosulfa...	11.735	10.936	5120.3E6	5595.4E6	172.389	166.465
18)	4,4'-DDT	11.968	11.075	4516.5E6	5549.0E6	188.245	174.137
19)	Endrin Al...	12.183	11.502	3800.9E6	4094.4E6	167.072	160.772
20)	Endosulfa...	12.555	12.087	4617.1E6	4892.3E6	170.956	162.565
21)	Methoxychlor	12.844	11.696	12193.6E6	14256.3E6	908.439	853.245
22)	Endrin Ke...	13.338	12.475	5256.5E6	5666.1E6	170.448	160.910

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41538 SDG B7GN8
Episode 84259 init/date KVR 08/08/11

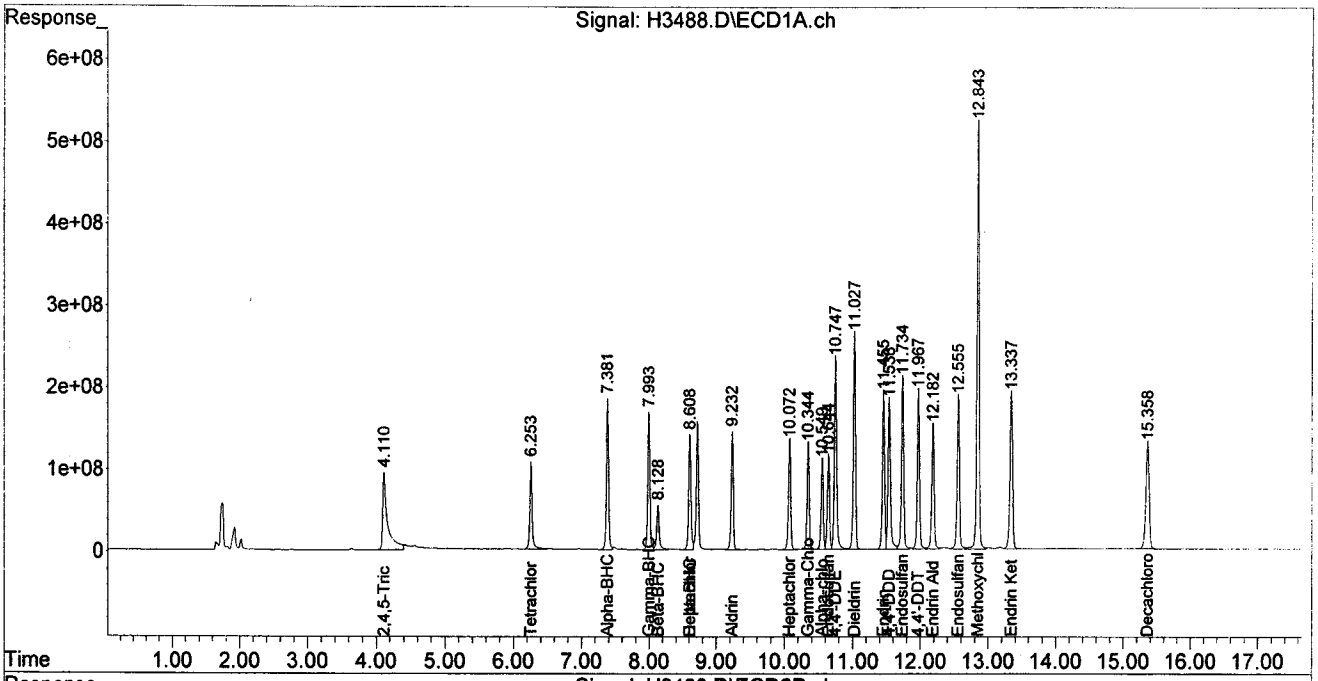
1115

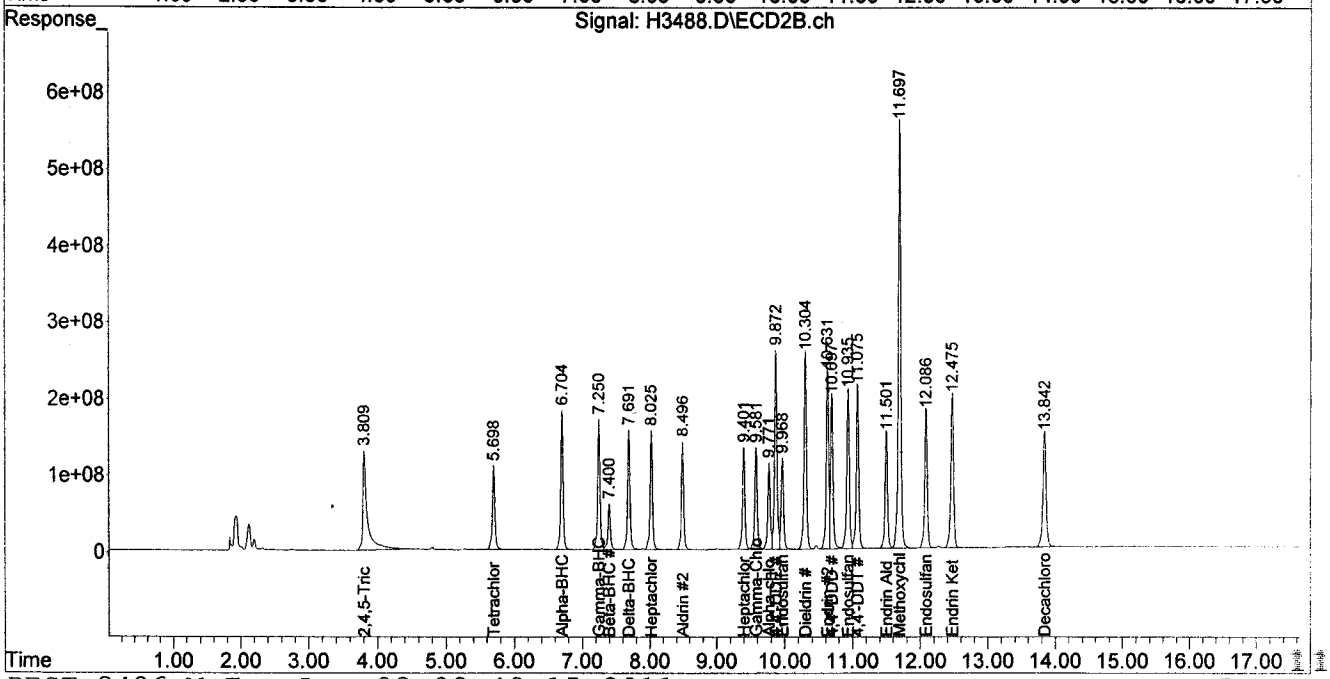
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3488.D(Signal #1) H3488.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 19:48 (#1); 07/31/11 20:12 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC5Y1 (Sig #1); INDC5Y2 (Sig #2)
Misc : INDC5Y1 (Sig #1); INDC5Y2 (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:49:08 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3489.D(Signal #1)            H3489.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
InstName  : H-7890A(Signal #1)             H-7890B(Signal # 2)
Acq On    : 07/31/11 20:12 (#1); 07/31/11 20:36 (#2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : PIBLKY1 (Sig #1); PIBLKY2 (Sig #2)
Misc      : PIBLKY1 (Sig #1); PIBLKY2 (Sig #2)
ALS Vial  : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:49:28 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title  : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1 uL
Signal #1 Phase : RTX-CLP-2          Signal #2 Phase: RTX-CLP
Signal #1 Info  : 30mLn,  0.53mm I. Signal #2 Info : 30mLn,  0.53mm I.D
```

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	6.254	5.702	620.6E6	662.3E6	18.597	18.636
Spiked Amount	60.000	Range 18 - 90	Recovery	=	31.00%	31.06%
23) S Decachlor...	15.357	13.847	957.0E6	1163.5E6	33.137	34.812
Spiked Amount	120.000	Range 36 - 180	Recovery	=	27.61%#	29.01%#

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

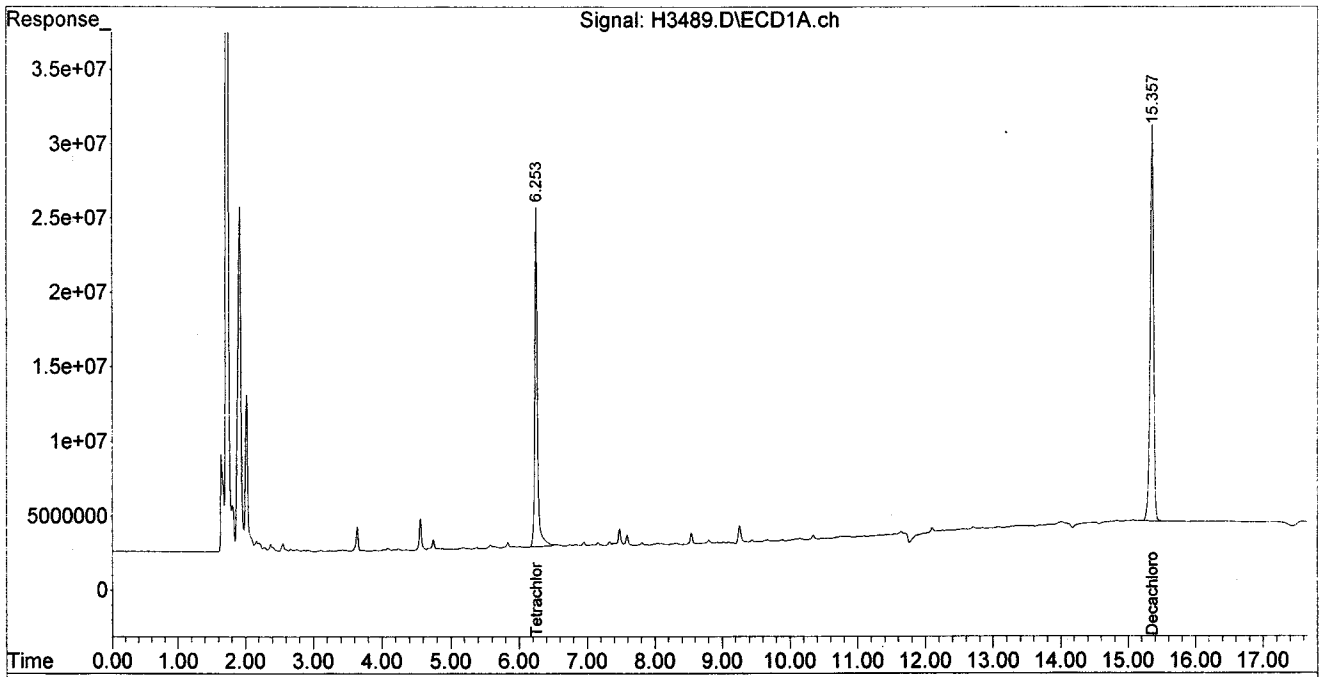
ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date [illegible]
08/08/11

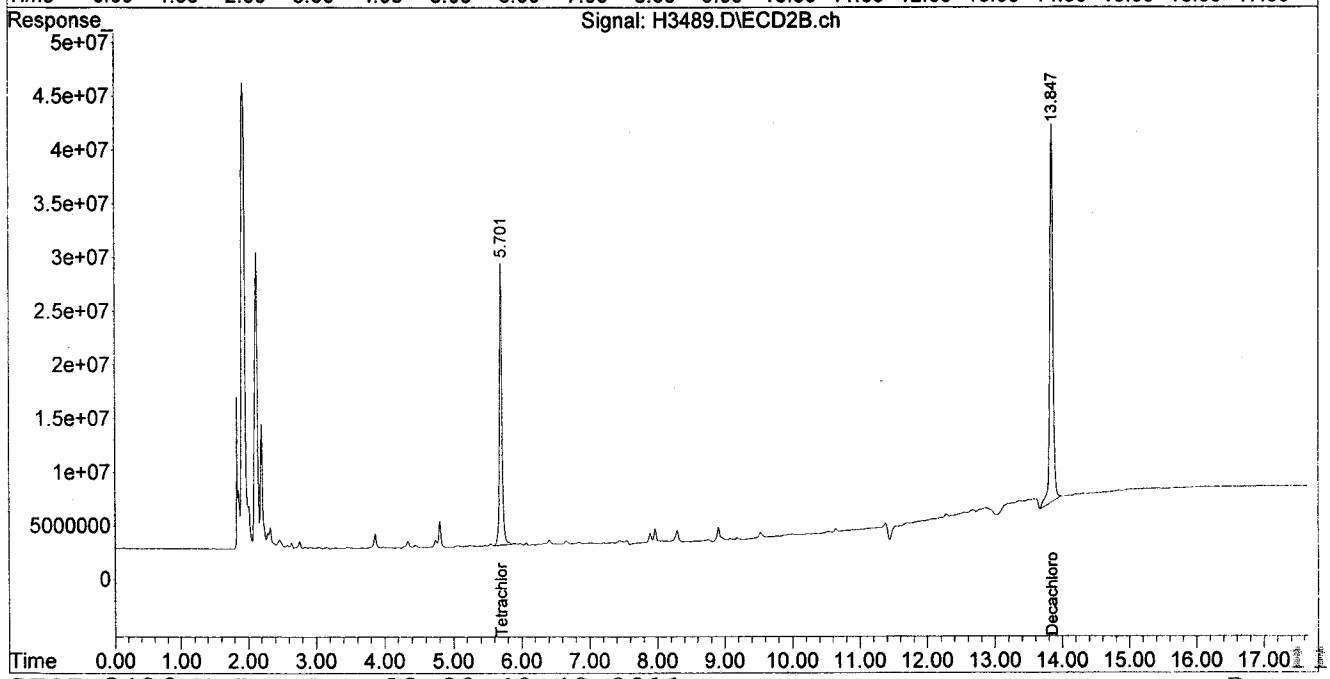
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3489.D(Signal #1) H3489.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 20:12 (#1); 07/31/11 20:36 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLKY1 (Sig #1); PIBLKY2 (Sig #2)
Misc : PIBLKY1 (Sig #1); PIBLKY2 (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:49:28 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3490.D(Signal #1) H3490.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 20:36 (#1); 07/31/11 21:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
Misc : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:51:03 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
1)	S Tetrachlo...	6.252	5.703	642.1E6	671.1E6	19.242	18.884	
	Spiked Amount	60.000	Range 18 - 90		Recovery =	32.07%	31.47%	
23)	S Decachlor...	15.358	13.846	535.3E6	627.9E6	18.536	18.788m	✓
	Spiked Amount	120.000	Range 36 - 180		Recovery =	15.45%#	15.66%#	
	Target Compounds							
3)	Alpha-BHC	7.379	6.707	444.8E6	478.8E6	9.264	9.215	
4)	Gamma-BHC...	7.992	7.252	411.9E6	456.2E6	9.395	9.111	
5)	Beta-BHC	8.128	7.403	181.0E6	191.9E6	10.106	8.888	
15)	Endrin	11.454	10.635	1242.3E6	1746.7E6	48.590	48.224	
16)	4,4'-DDD	11.547	10.707	121.1E6	57131284	4.591	1.833	#
18)	4,4'-DDT	11.967	11.080	2488.6E6	3217.8E6	103.726	100.979	
19)	Endrin Al...	12.182	11.513	39348727	15777436	1.730	0.620	#
21)	Methoxychlor	12.844	11.702	3221.3E6	4027.1E6	239.993	241.024	
22)	Endrin Ke...	13.330	12.479	100.7E6	70201056	3.266	1.994	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

08/08/11

ORIGINAL
Case 41539 SDG B7GN8
Episode S-4258 init/date 08/08/11

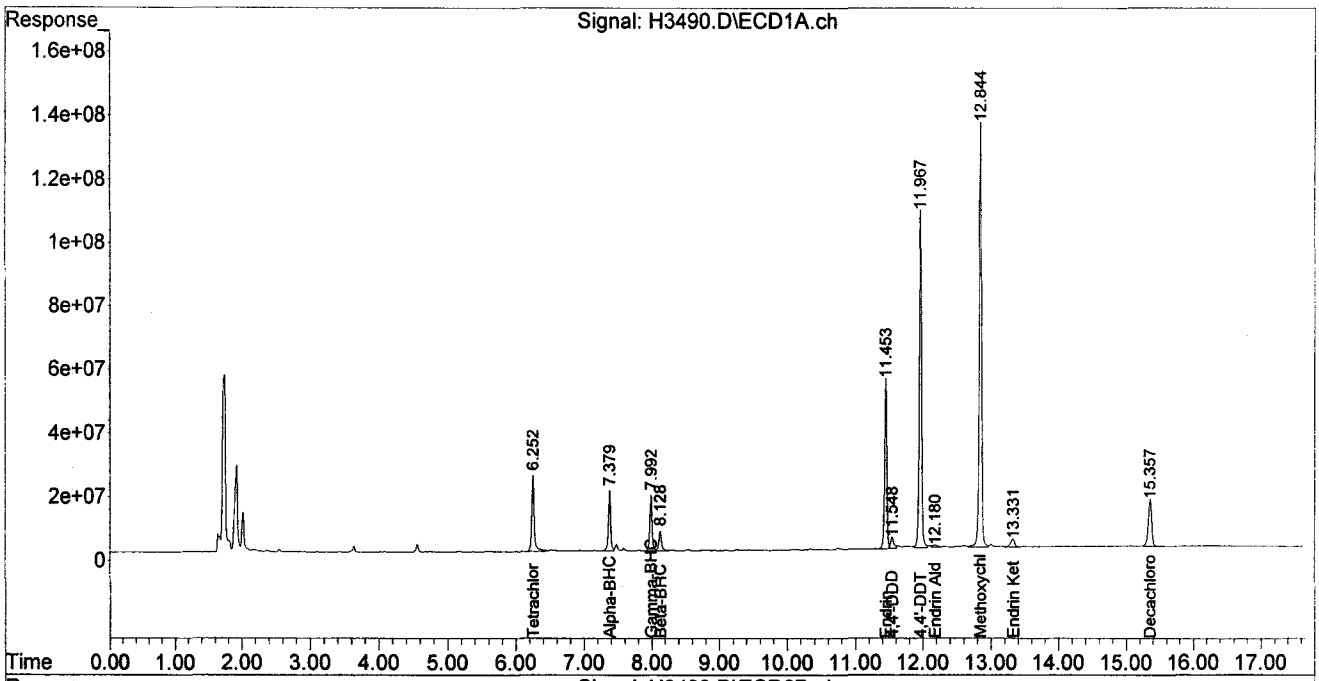
1113

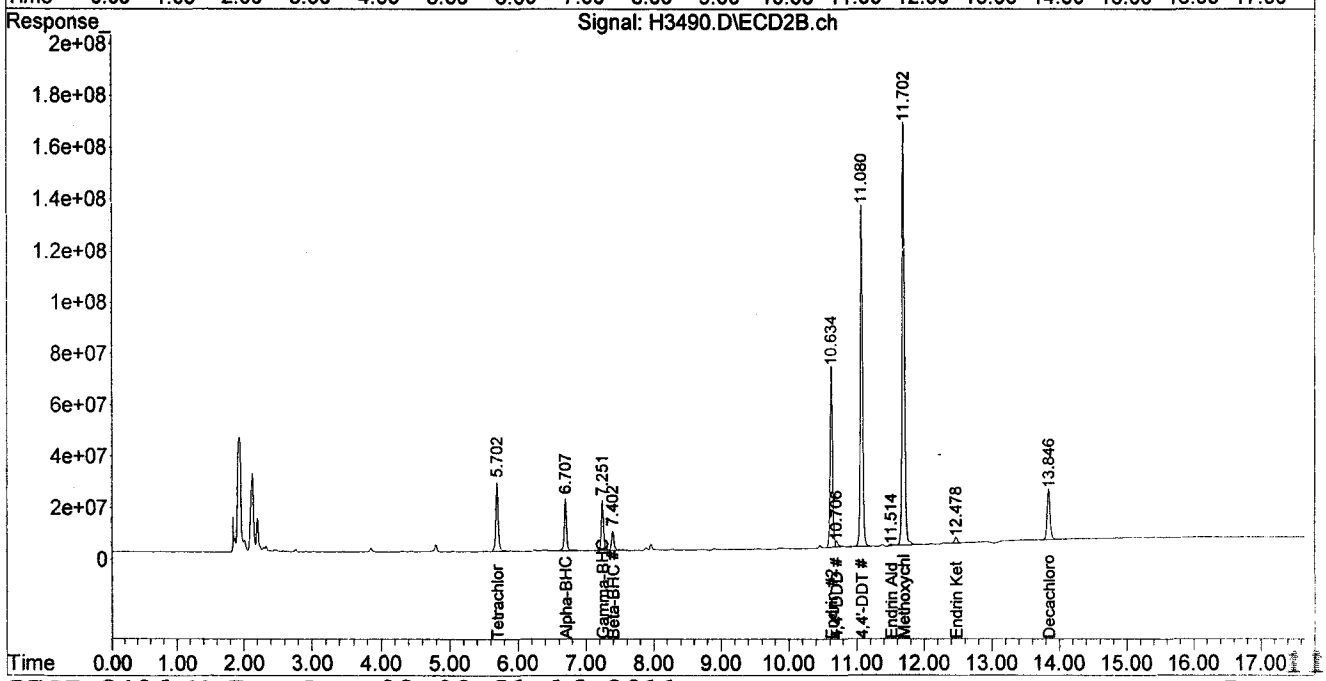
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3490.D(Signal #1) H3490.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 20:36 (#1); 07/31/11 21:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
Misc : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:51:03 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





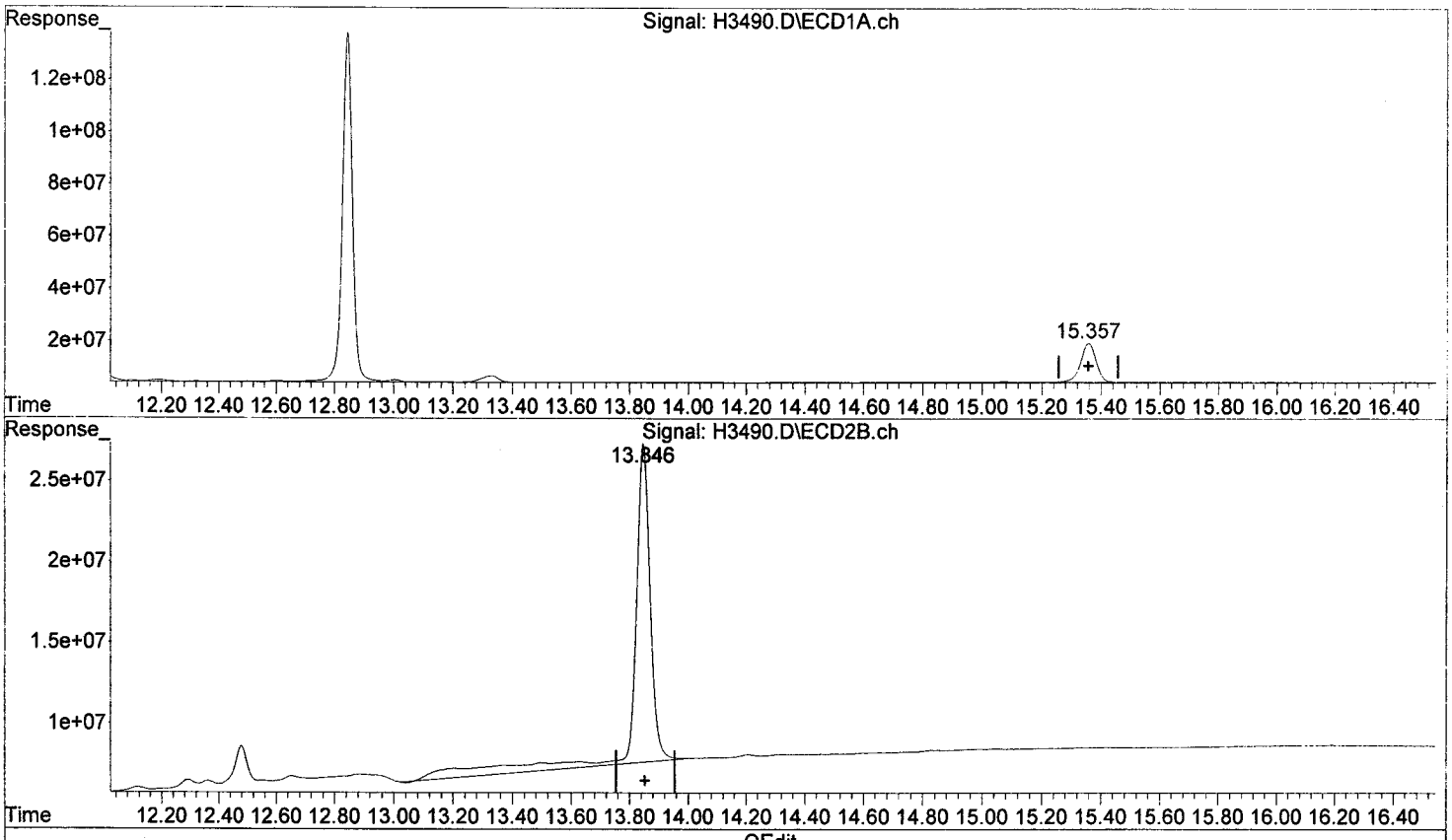
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3490.D(Signal #1) H3490.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 20:36 (#1); 07/31/11 21:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
Misc : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:50:11 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

08/08/11

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



QEdit

(23) Decachlorobiphenyl (S)
15.358min 18.536 ug/L
response 535336661

(23) Decachlorobiphenyl #2 (S)
13.847min 23.634 ug/L
response 789871231

(+) = Expected Retention Time

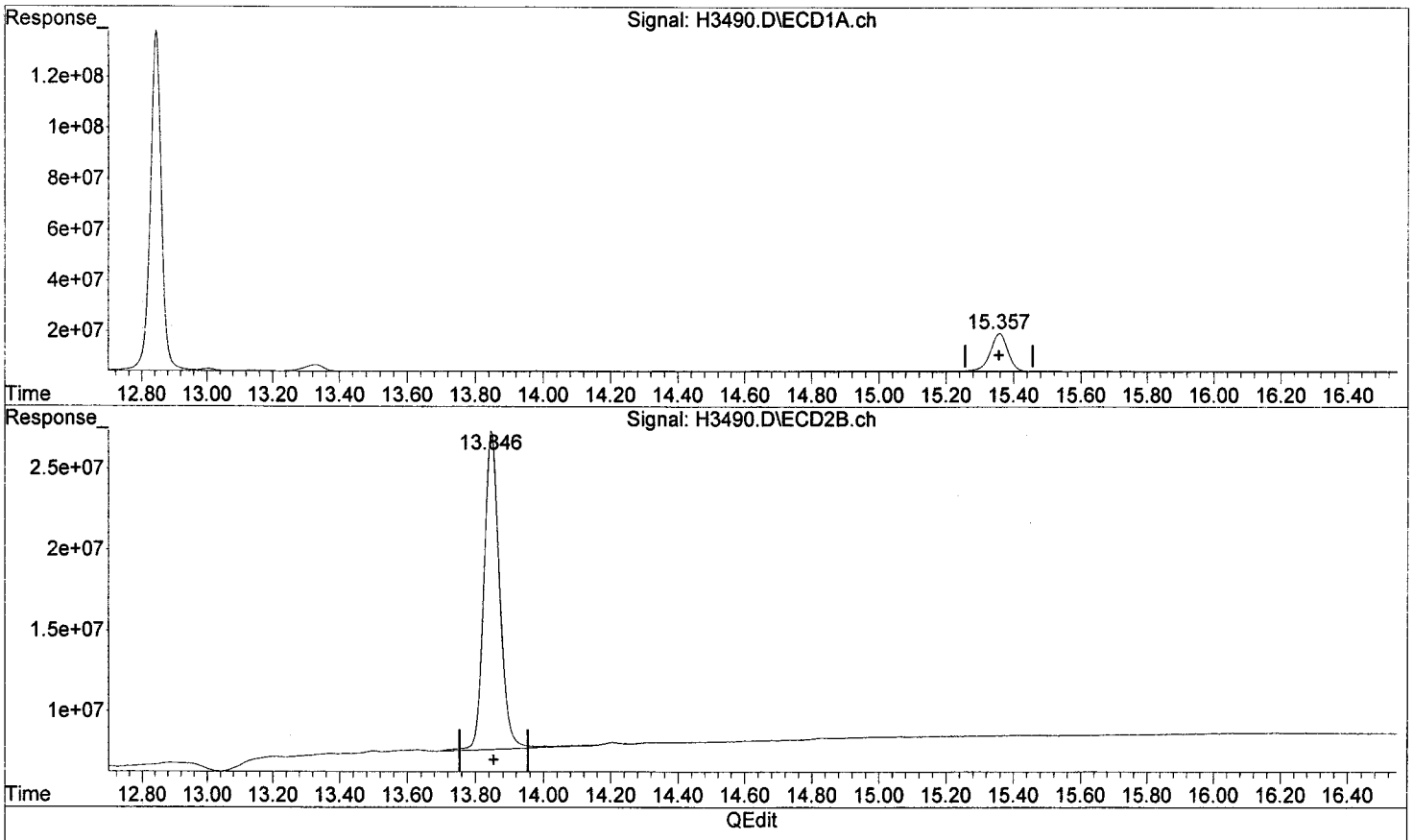
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3490.D(Signal #1) H3490.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 20:36 (#1); 07/31/11 21:00 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
Misc : PEMZ1 (Sig #1); PEMZ2 (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:50:11 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

08/08/11

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D



(23) Decachlorobiphenyl (S)
15.358min 18.536 ug/L
response 535336661

(23) Decachlorobiphenyl #2 (S)
13.846min 18.788 ug/L m
response 627933211

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3492.D(Signal #1) H3492.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 21:24 (#1); 07/31/11 21:49 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLKZ1 (Sig #1); PIBLKZ2 (Sig #2)
Misc : PIBLKZ1 (Sig #1); PIBLKZ2 (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:53:05 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	6.252	5.705	638.2E6	683.5E6	19.123	19.231
Spiked Amount	60.000	Range 18 - 90		Recovery =	31.87%	32.05%
23) S Decachlor...	15.355	13.847	999.6E6	1139.8E6	34.610	34.104
Spiked Amount	120.000	Range 36 - 180		Recovery =	28.84%#	28.42%#
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

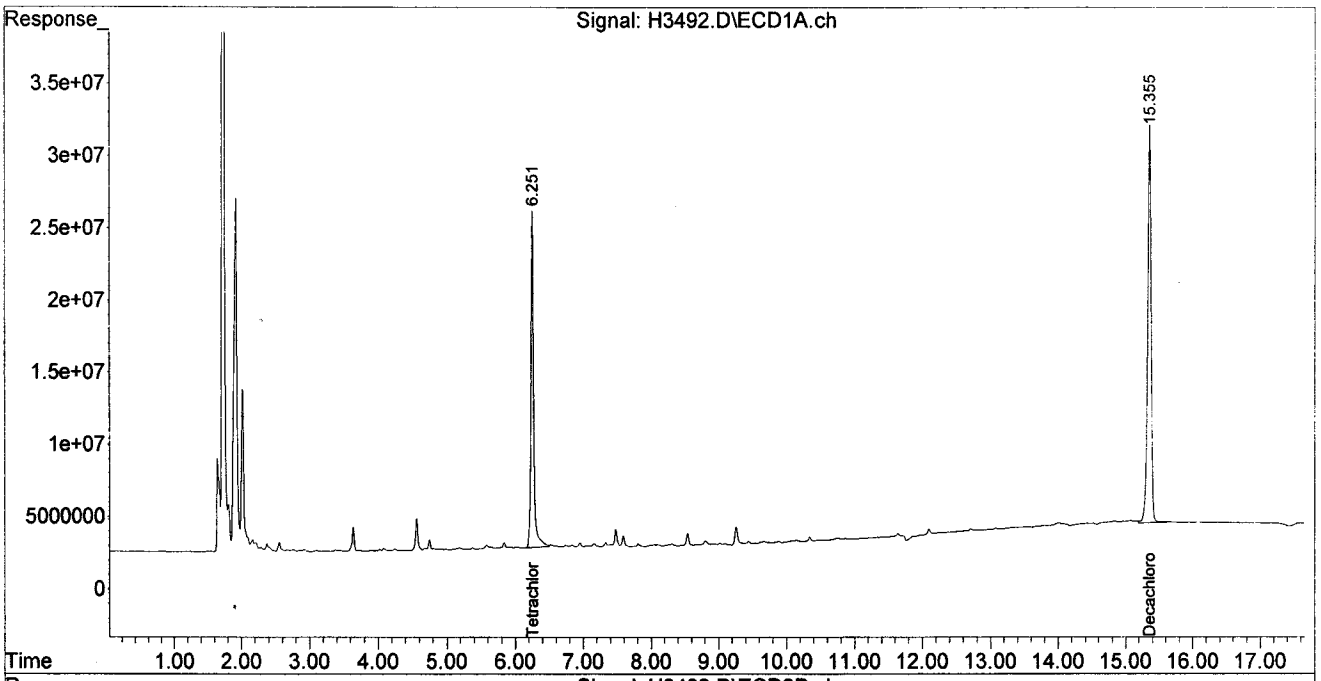
ORIGINAL
Case 41539 SDG B7GN8
Episode 8-4259 init/date Carla 08/08/11

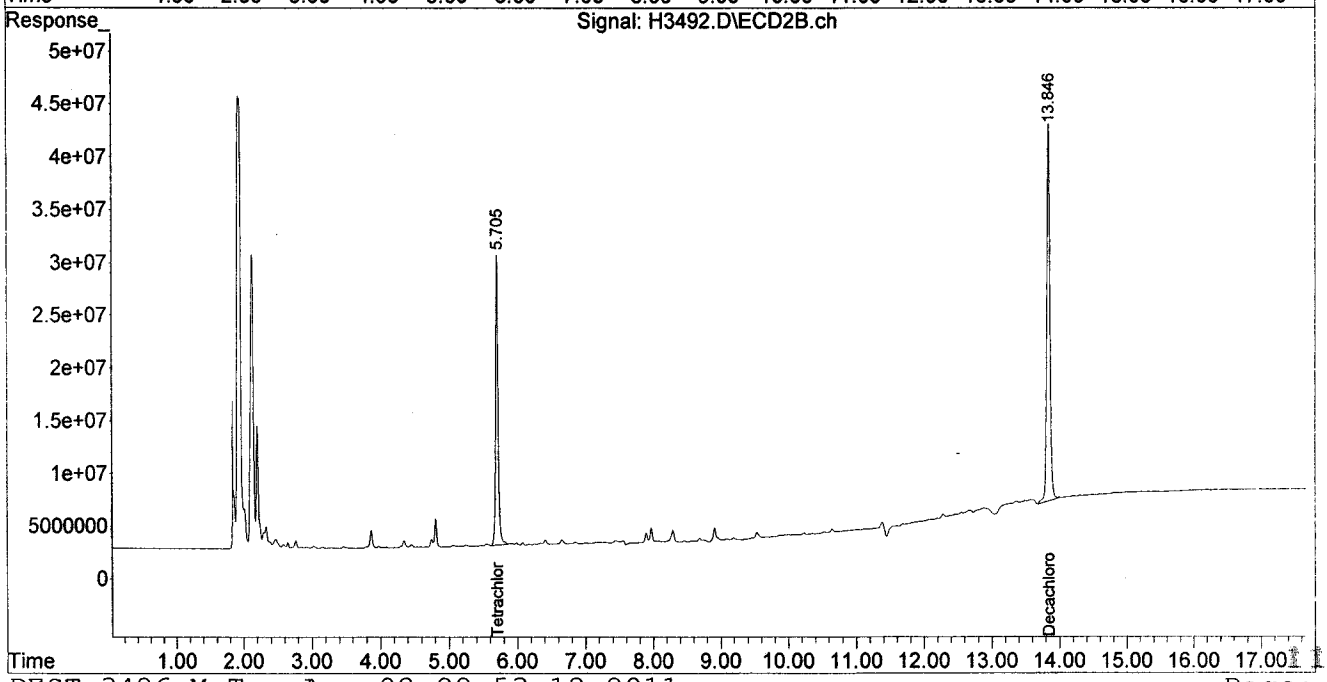
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3492.D(Signal #1) H3492.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 21:24 (#1); 07/31/11 21:49 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : PIBLKZ1 (Sig #1); PIBLKZ2 (Sig #2)
Misc : PIBLKZ1 (Sig #1); PIBLKZ2 (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:53:05 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Continuing Calibration Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : FLO-PEST-3486.M
Title : CLP PESTICIDES METHOD
Last Update : Tue Aug 02 08:53:32 2011
Response Via : Initial Calibration

CC Data File: H3493.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	33.371	33.043	E6	1.0	97
2		2,4,5-Trichlorophenol	51.500	47.778	E6	7.2	102
3		Alpha-BHC	48.012	47.063	E6	2.0	98
4		Gamma-BHC (Lindane)	43.845	43.207	E6	1.5	99
5		Beta-BHC	17.911	16.992	E6	5.1	99
6		Delta-BHC	38.085	37.652	E6	1.1	101
7		Heptachlor	38.085	37.652	E6	1.1	101
8		Aldrin	37.688	36.920	E6	2.0	99
9		Heptachlor Epoxide	37.011	36.474	E6	1.5	100
10		Gamma-Chlordane	36.215	35.469	E6	2.1	100
11		Alpha-chlordane	30.864	30.338	E6	1.7	99
12		Endosulfan I	31.799	31.106	E6	2.2	98
13		4,4'-DDE	32.288	31.862	E6	1.3	100
14		Dieldrin	34.438	34.208	E6	0.7	100
15		Endrin	25.566	25.410	E6	0.6	100
16		4,4'-DDD	26.377	26.700	E6	-1.2	101
17		Endosulfan II	29.702	26.593	E6	10.5	89
18		4,4'-DDT	23.992	23.363	E6	2.6	98
19		Endrin Aldehyde	22.750	22.811	E6	-0.3	100
20		Endosulfan sulfate	27.007	27.093	E6	-0.3	101
21		Methoxychlor	13.423	13.112	E6	2.3	100
22		Endrin Ketone	30.839	30.859	E6	-0.1	101
23	S	Decachlorobiphenyl	28.881	28.481	E6	1.4	100

Signal #2
CC Data File: H3493.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	35.541	36.224	E6	-1.9	102
2		2,4,5-Trichlorophenol	70.210	68.254	E6	2.8	108
3		Alpha-BHC	51.959	52.337	E6	-0.7	101
4		Gamma-BHC (Lindane)	50.067	49.992	E6	0.2	101
5		Beta-BHC	21.595	20.952	E6	3.0	100
6		Delta-BHC	46.772	47.034	E6	-0.6	101
7		Heptachlor	48.930	50.940	E6	-4.1	100
8		Aldrin	42.948	43.047	E6	-0.2	99
9		Heptachlor Epoxide	41.374	41.312	E6	0.1	99
10		Gamma-Chlordane	41.148	40.877	E6	0.7	99
11		Alpha-chlordane	35.561	35.461	E6	0.3	100
12		Endosulfan I	38.543	38.933	E6	-1.0	100
13		4,4'-DDE	38.278	38.512	E6	-0.6	101
14		Dieldrin	39.275	39.433	E6	-0.4	101
15		Endrin	36.221	36.102	E6	0.3	101
16		4,4'-DDD	31.168	31.956	E6	-2.5	101
17		Endosulfan II	33.613	33.882	E6	-0.8	100
18		4,4'-DDT	31.866	31.743	E6	0.4	101
19		Endrin Aldehyde	25.467	25.657	E6	-0.7	104
20		Endosulfan sulfate	30.094	33.782	E6	-12.3	113
21		Methoxychlor	16.708	17.423	E6	-4.3	107
22		Endrin Ketone	35.213	37.767	E6	-7.3	106
23	S	Decachlorobiphenyl	33.421	34.491	E6	-3.2	104

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3493.D(Signal #1) H3493.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 21:49 (#1); 07/31/11 22:13 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC3Z1 (Sig #1); INDC3Z2 (Sig #2)
Misc : INDC3Z1 (Sig #1); INDC3Z2 (Sig #2)
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:53:18 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	6.253	5.704	660.9E6	724.5E6	19.803	20.385
	Spiked Amount	60.000 Range	18 - 90	Recovery	=	33.01%	33.98%
23) S	Decachlor...	15.357	13.848	1139.3E6	1379.6E6	39.447	41.280
	Spiked Amount	120.000 Range	36 - 180	Recovery	=	32.87%#	34.40%#
	Target Compounds						
2)	2,4,5-Tri...	4.117	3.823	955.6E6	1365.1E6	18.554	19.443
3)	Alpha-BHC	7.380	6.710	941.3E6	1046.7E6	19.605	20.146
4)	Gamma-BHC...	7.993	7.256	864.1E6	999.8E6	19.709	19.970
5)	Beta-BHC	8.129	7.407	339.8E6	419.0E6	18.974	19.404
6)	Delta-BHC	8.608	7.699	753.0E6	940.7E6	19.773	20.112
7)	Heptachlor	8.608	8.034	753.0E6	1018.8E6	19.773	20.821
8)	Aldrin	9.232	8.505	738.4E6	860.9E6	19.592	20.046
9)	Heptachlo...	10.071	9.411	729.5E6	826.2E6	19.709	19.970
10)	Gamma-Chl...	10.344	9.591	709.4E6	817.5E6	19.588	19.868
11)	Alpha-chl...	10.550	9.781	606.8E6	709.2E6	19.659	19.944
12)	Endosulfan I	10.644	9.978	622.1E6	778.7E6	19.564	20.202
13)	4,4'-DDE	10.748	9.882	1274.5E6	1540.5E6	39.471	40.245
14)	Dieldrin	11.026	10.313	1368.3E6	1577.3E6	39.732	40.161
15)	Endrin	11.454	10.639	1016.4E6	1444.1E6	39.755	39.868
16)	4,4'-DDD	11.539	10.706	1068.0E6	1278.3E6	40.490	41.012
17)	Endosulfa...	11.733	10.944	1063.7E6	1355.3E6	35.813	40.320
18)	4,4'-DDT	11.968	11.084	934.5E6	1269.7E6	38.950	39.846
19)	Endrin Al...	12.182	11.509	912.4E6	1026.3E6	40.106	40.298
20)	Endosulfa...	12.555	12.093	1083.7E6	1351.3E6	40.127	44.902
21)	Methoxychlor	12.844	11.703	2622.4E6	3484.7E6	195.373	208.560
22)	Endrin Ke...	13.337	12.481	1234.4E6	1510.7E6	40.026	42.901

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 41539 SDG B7G N8
Episode S-4259 init/date KVRao
08/08/11

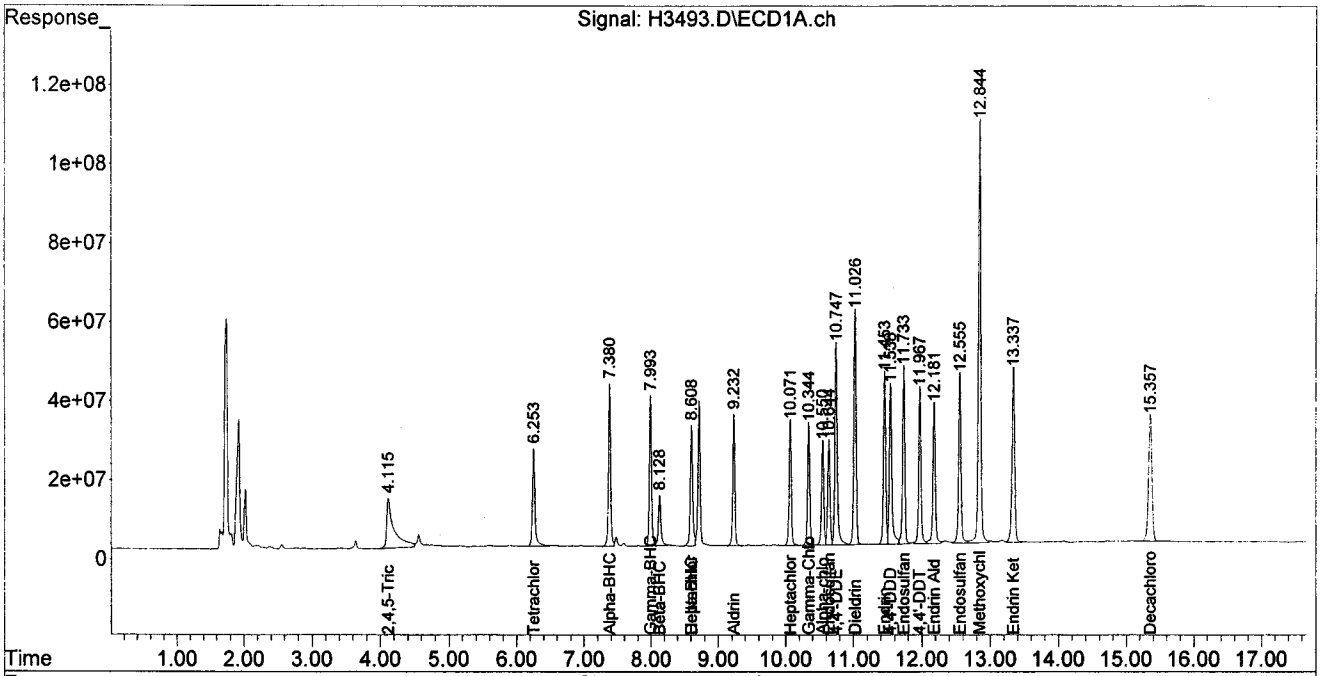
1126

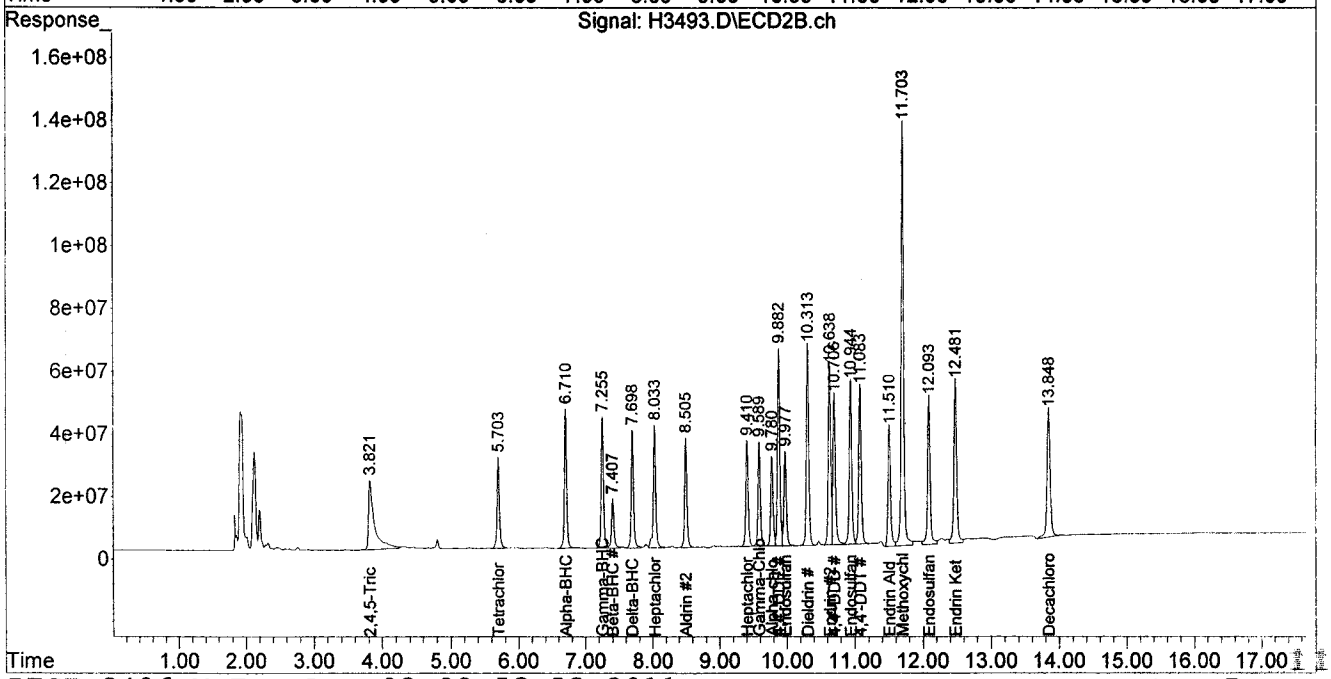
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3493.D(Signal #1) H3493.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 21:49 (#1); 07/31/11 22:13 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC3Z1 (Sig #1); INDC3Z2 (Sig #2)
Misc : INDC3Z1 (Sig #1); INDC3Z2 (Sig #2)
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:53:18 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Sun Jul 31 21:34:18 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





Continuing Calibration Report H-7890

Method Path : C:\msdchem\1\METHODS\
Method File : FLO-PEST-3486.M
Title : CLP PESTICIDES METHOD
Last Update : Tue Aug 02 08:54:15 2011
Response Via : Initial Calibration

CC Data File: H3494.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	33.371	32.207	E6	3.5	95
2		2,4,5-Trichlorophenol	51.500	47.401	E6	8.0	102
3		Alpha-BHC	48.012	48.364	E6	-0.7	101
4		Gamma-BHC (Lindane)	43.845	44.377	E6	-1.2	102
5		Beta-BHC	17.911	18.532	E6	-3.5	108
6		Delta-BHC	38.085	38.571	E6	-1.3	104
7		Heptachlor	38.085	38.571	E6	-1.3	104
8		Aldrin	37.688	37.647	E6	0.1	101
9		Heptachlor Epoxide	37.011	37.268	E6	-0.7	102
10		Gamma-Chlordane	36.215	36.278	E6	-0.2	102
11		Alpha-chlordane	30.864	31.095	E6	-0.7	102
12		Endosulfan I	31.799	32.081	E6	-0.9	101
13		4,4'-DDE	32.288	32.710	E6	-1.3	102
14		Dieldrin	34.438	35.020	E6	-1.7	102
15		Endrin	25.566	26.047	E6	-1.9	103
16		4,4'-DDD	26.377	27.314	E6	-3.6	103
17		Endosulfan II	29.702	29.851	E6	-0.5	100
18		4,4'-DDT	23.992	24.516	E6	-2.2	103
19		Endrin Aldehyde	22.750	23.467	E6	-3.2	103
20		Endosulfan sulfate	27.007	27.746	E6	-2.7	103
21		Methoxychlor	13.423	13.619	E6	-1.5	104
22		Endrin Ketone	30.839	31.614	E6	-2.5	103
23	S	Decachlorobiphenyl	28.881	29.059	E6	-0.6	102

Signal #2
CC Data File: H3494.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	35.541	36.488	E6	-2.7	102
2		2,4,5-Trichlorophenol	70.210	65.107	E6	7.3	103
3		Alpha-BHC	51.959	53.572	E6	-3.1	103
4		Gamma-BHC (Lindane)	50.067	50.607	E6	-1.1	102
5		Beta-BHC	21.595	21.496	E6	0.5	103
6		Delta-BHC	46.772	47.502	E6	-1.6	102
7		Heptachlor	48.930	48.000	E6	1.9	95
8		Aldrin	42.948	43.126	E6	-0.4	100
9		Heptachlor Epoxide	41.374	41.527	E6	-0.4	100
10		Gamma-Chlordane	41.148	41.261	E6	-0.3	100
11		Alpha-chlordane	35.561	35.742	E6	-0.5	101
12		Endosulfan I	38.543	39.202	E6	-1.7	101
13		4,4'-DDE	38.278	38.602	E6	-0.8	101
14		Dieldrin	39.275	39.556	E6	-0.7	101
15		Endrin	36.221	35.792	E6	1.2	100
16		4,4'-DDD	31.168	32.061	E6	-2.9	102
17		Endosulfan II	33.613	34.042	E6	-1.3	101
18		4,4'-DDT	31.866	31.667	E6	0.6	100
19		Endrin Aldehyde	25.467	25.631	E6	-0.6	104
20		Endosulfan sulfate	30.094	30.962	E6	-2.9	103
21		Methoxychlor	16.708	16.897	E6	-1.1	104
22		Endrin Ketone	35.213	34.957	E6	0.7	98
23	S	Decachlorobiphenyl	33.421	33.439	E6	-0.1	101

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3494.D(Signal #1) H3494.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 22:13 (#1); 07/31/11 22:37 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC3X1 (Sig #1); INDC3X2 (Sig #2)
Misc : INDC3X1 (Sig #1); INDC3X2 (Sig #2)
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:54:01 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Tue Aug 02 08:53:32 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	6.252	5.709	644.1E6	729.8E6	19.302	20.533
	Spiked Amount	60.000	Range 18 - 90		Recovery =	32.17%	34.22%
23)	S Decachlor...	15.357	13.856	1162.4E6	1337.6E6	40.247	40.021
	Spiked Amount	120.000	Range 36 - 180		Recovery =	33.54%#	33.35%#
	Target Compounds						
2)	2,4,5-Tri...	4.115	3.828	948.0E6	1302.1E6	18.408	18.546
3)	Alpha-BHC	7.380	6.716	967.3E6	1071.4E6	20.146	20.621
4)	Gamma-BHC...	7.993	7.263	887.5E6	1012.1E6	20.242	20.216
5)	Beta-BHC	8.128	7.414	370.6E6	429.9E6	20.694	19.908
6)	Delta-BHC	8.608	7.706	771.4E6	950.0E6	20.255	20.312
7)	Heptachlor	8.608	8.040	771.4E6	960.0E6	20.255	19.620
8)	Aldrin	9.231	8.511	752.9E6	862.5E6	19.978	20.083
9)	Heptachlo...	10.071	9.416	745.4E6	830.5E6	20.139	20.074
10)	Gamma-Chl...	10.343	9.596	725.6E6	825.2E6	20.035	20.055
11)	Alpha-chl...	10.549	9.786	621.9E6	714.8E6	20.150	20.102
12)	Endosulfan I	10.643	9.984	641.6E6	784.0E6	20.177	20.342
13)	4,4'-DDE	10.748	9.888	1308.4E6	1544.1E6	40.522	40.338
14)	Dieldrin	11.025	10.319	1400.8E6	1582.3E6	40.676	40.287
15)	Endrin	11.454	10.645	1041.9E6	1431.7E6	40.752	39.526
16)	4,4'-DDD	11.539	10.713	1092.6E6	1282.4E6	41.421	41.146
17)	Endosulfa...	11.734	10.952	1194.0E6	1361.7E6	40.200	40.510
18)	4,4'-DDT	11.968	11.091	980.6E6	1266.7E6	40.873	39.751
19)	Endrin Al...	12.182	11.519	938.7E6	1025.3E6	41.260	40.258
20)	Endosulfa...	12.555	12.103	1109.8E6	1238.5E6	41.093	41.154
21)	Methoxychlor	12.843	11.713	2723.8E6	3379.4E6	202.929	202.258
22)	Endrin Ke...	13.337	12.491	1264.6E6	1398.3E6	41.005	39.710

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

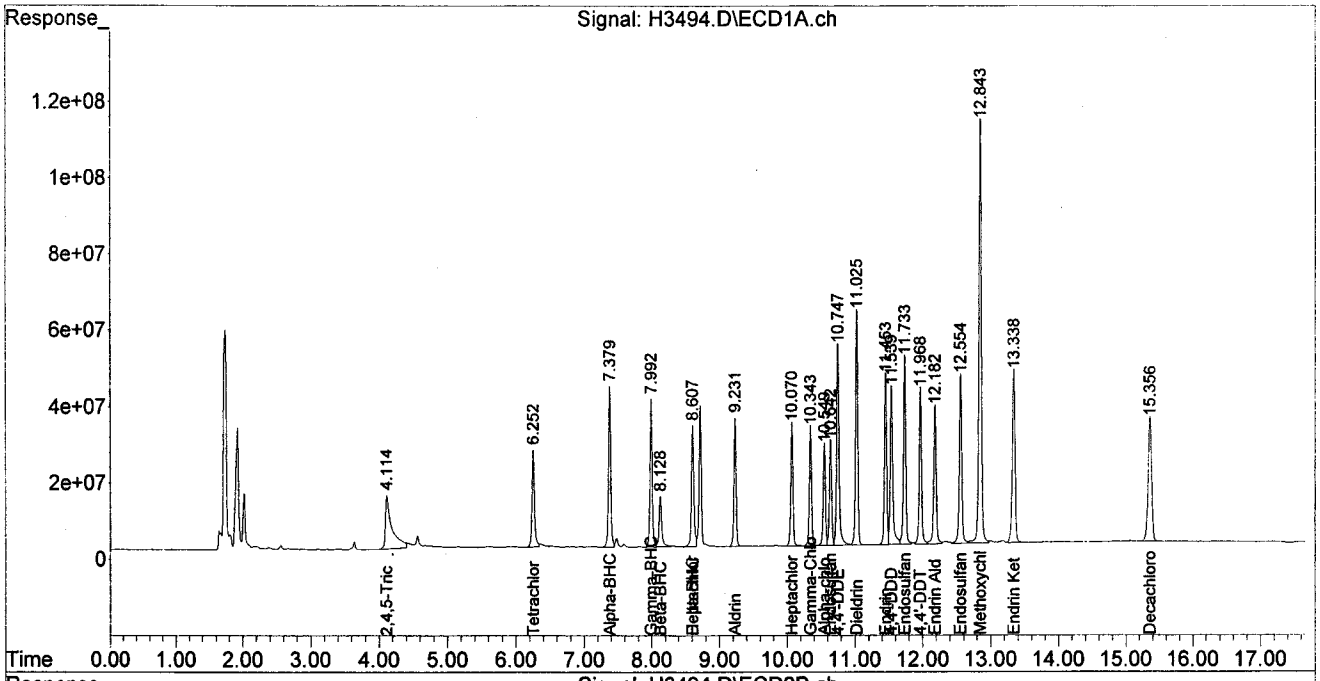
ORIGINAL
Case 41539 SDG B7GN8
Episode S-4259 init/date DWK 08/08/11

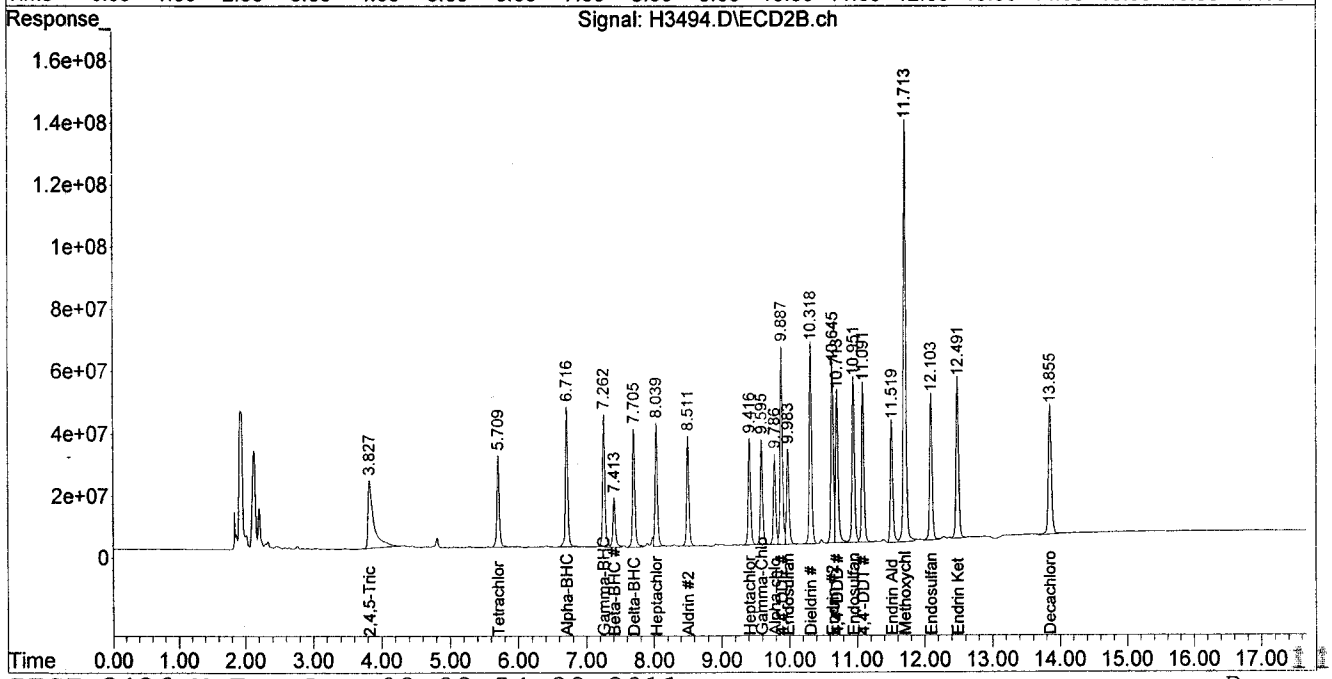
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\(Signal #1) C:\msdchem\1\data\(Signal #2)
Data File : H3494.D(Signal #1) H3494.D(Signal #2)
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
InstName : H-7890A(Signal #1) H-7890B(Signal # 2)
Acq On : 07/31/11 22:13 (#1); 07/31/11 22:37 (#2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : INDC3X1 (Sig #1); INDC3X2 (Sig #2)
Misc : INDC3X1 (Sig #1); INDC3X2 (Sig #2)
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 02 08:54:01 2011
Quant Method : C:\msdchem\1\METHODS\FLO-PEST-3486.M
Quant Title : CLP PESTICIDES METHOD
QLast Update : Tue Aug 02 08:53:32 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLP-2 Signal #2 Phase: RTX-CLP
Signal #1 Info : 30mLn, 0.53mm I. Signal #2 Info : 30mLn, 0.53mm I.D





2R - Form II ARO-2

SOIL AROCLOR SURROGATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	ABLK56	93		93		88		102				0
02	ALCS56	78		78		80		121				0
03	F4XP0	70		79		60		66				0
04	F4XP1	64		74		60		70				0
05	F4XP2	68		80		63		68				0
06	F4XP3	70		72		67		65				0
07	F4XP4	74		81		59		69				0
08	F4XP5	72		85		62		70				0
09	F4XP6	75		83		61		69				0
10	F4XQ5	68		79		70		75				0
11	F4XP7	79		95		75		82				0
12	F4XP8	94		101		78		83				0
13	F4XP9	79		94		70		82				0
14	F4XQ6	75		88		69		74				0
15	F4XQ0	104		112		85		100				0
16	F4XQ1	90		108		90		97				0
17	F4XQ2	77		92		74		81				0
18	F4XQ3	78		86		76		81				0
19	F4XQ4	74		85		69		69				0
20	F4XQ7	81		96		75		81				0
21	F4XQ8	94		99		81		78				0
22	F4XQ9	81		98		79		84				0
23	F4XP2MS	94		105		84		86				0
24	F4XP2MSD	87		101		82		83				0
25												
26												
27												
28												
29												
30												

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3K - FORM III ARO-2
SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix Spike - EPA Sample No.: F4XP2

Instrument ID: P-6890A GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Aroclor-1254	130	16.2	74.3	45 *	60-140

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	130	77.9	47 *	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS: _____

_____

3K - FORM III ARO-2
SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix Spike - EPA Sample No.: F4XP2

Instrument ID: P-6890B GC Column: RTX-CLP ID: 0.53 (mm)

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Aroclor-1254	130	22.5	85.6	49 *	60-140

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	130	83.8	47 *	4	30	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

COMMENTS: _____

_____

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
ALCS56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: ALCS56 LCS Lot No.: A031346

Date Extracted 12/14/2011 Date Analyzed (1): 12/27/2011

Instrument ID (1): P-6890A GC Column (1): RTX-CLP2 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% REC #	QC LIMITS
Aroclor-1242	13.3	9.45	71	60-140

Instrument ID (2): P-6890B GC Column (2): RTX-CLP ID: 0.53 (mm)

Date Analyzed (2): 12/27/2011

COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% REC #	QC LIMITS
Aroclor-1242	13.3	12.5	94	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 2 outside limits

COMMENTS: _____

_____

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.
ABLK56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: ABLK56 Lab File ID: P39962

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 12/14/2011

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 12/27/2011 Date Analyzed (2): 12/27/2011

Time Analyzed (1): 1645 Time Analyzed (2): 1714

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2): RTX-CLP ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCS56	ALCS56	12/27/2011	12/27/2011
02	F4XP0	S-4460.01	12/27/2011	12/27/2011
03	F4XP1	S-4460.02	12/27/2011	12/27/2011
04	F4XP2	S-4460.03	12/27/2011	12/27/2011
05	F4XP3	S-4460.04	12/27/2011	12/27/2011
06	F4XP4	S-4460.05	12/27/2011	12/27/2011
07	F4XP5	S-4460.06	12/27/2011	12/27/2011
08	F4XP6	S-4460.07	12/27/2011	12/27/2011
09	F4XQ5	S-4460.08	12/28/2011	12/28/2011
10	F4XP7	S-4465.01	12/28/2011	12/28/2011
11	F4XP8	S-4465.02	12/28/2011	12/28/2011
12	F4XP9	S-4465.03	12/28/2011	12/28/2011
13	F4XQ6	S-4465.04	12/28/2011	12/28/2011
14	F4XQ0	S-4476.01	12/28/2011	12/28/2011
15	F4XQ1	S-4476.02	12/28/2011	12/28/2011
16	F4XQ2	S-4476.03	12/28/2011	12/28/2011
17	F4XQ3	S-4476.04	12/28/2011	12/28/2011
18	F4XQ4	S-4476.05	12/28/2011	12/28/2011
19	F4XQ7	S-4476.06	12/28/2011	12/28/2011
20	F4XQ8	S-4476.07	12/28/2011	12/28/2011
21	F4XQ9	S-4476.08	12/28/2011	12/28/2011
22	F4XP2MS	S-4460.03MS	12/28/2011	12/28/2011
23	F4XP2MSD	S-4460.03MSD	12/28/2011	12/28/2011
24				
25				
26				

COMMENTS: _____

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.01

Sample wt/vol: 46.10 (g/mL) G Lab File ID: P39968

% Moisture: 34 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.5	U
11096-82-5	Aroclor-1260	17	J
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39968.D(Signal #1) P39968.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 19:46 (Signal #1); 12/27/11 20:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP0 (Sig #1); F4XP0 (Sig #2)
Misc : S-4460.01 46.1G/10.0ML (Sig #1); S-4460.01 46.1G/10.0ML (Sig #2)
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:14:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

12/29/11

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.94	1037.2E6	1003.7E6	41.818	47.619	
	Spiked Amount 60.000	Range 18 - 90		Recovery =		69.70%	79.36%	
8)	s Decachlorobiphen	18.81	17.85	1269.5E6	1487.4E6	72.572	78.703	
	Spiked Amount 120.000			Recovery =		60.48%	65.59%	
	Target Compounds							
5)	AR1260-1	12.98	12.51	66079121	73318016	54.261	69.490	#
6)	AR1260-2	13.40	13.30	80811443	36148628	57.646	49.237	
7)	AR1260-3	14.94	14.34	45836542	62287949	42.799	73.266	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

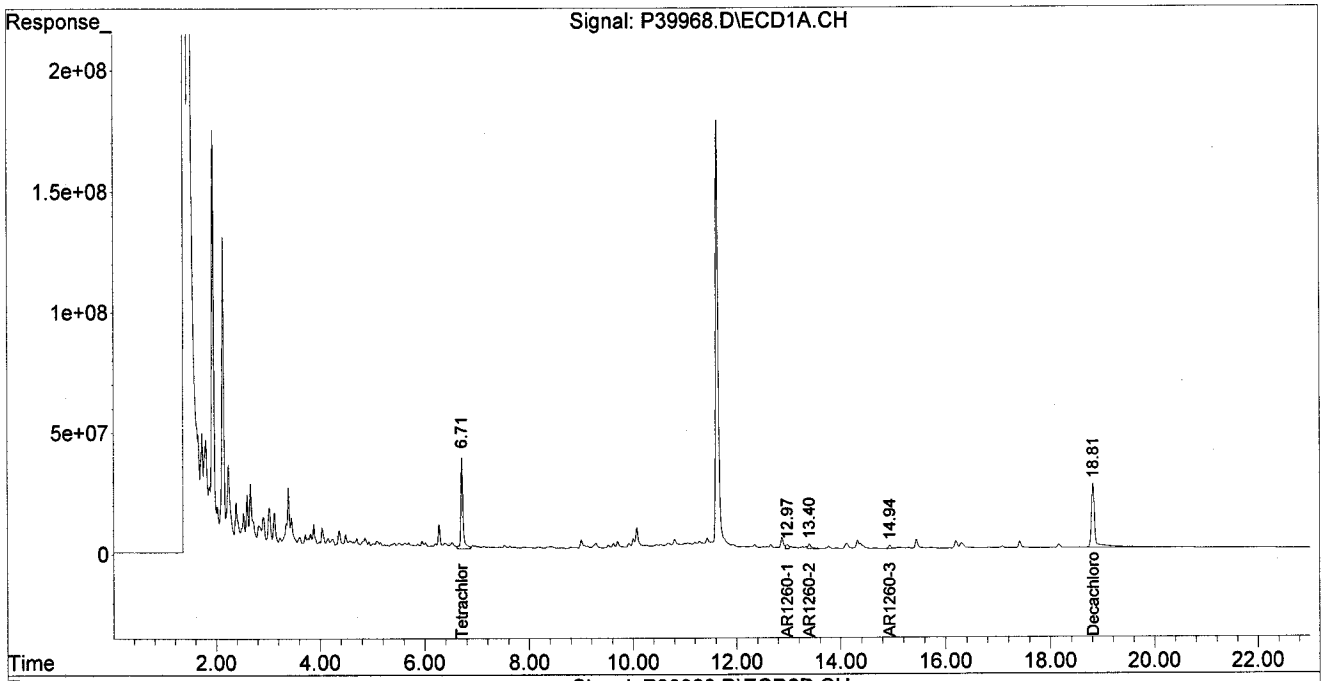
1137

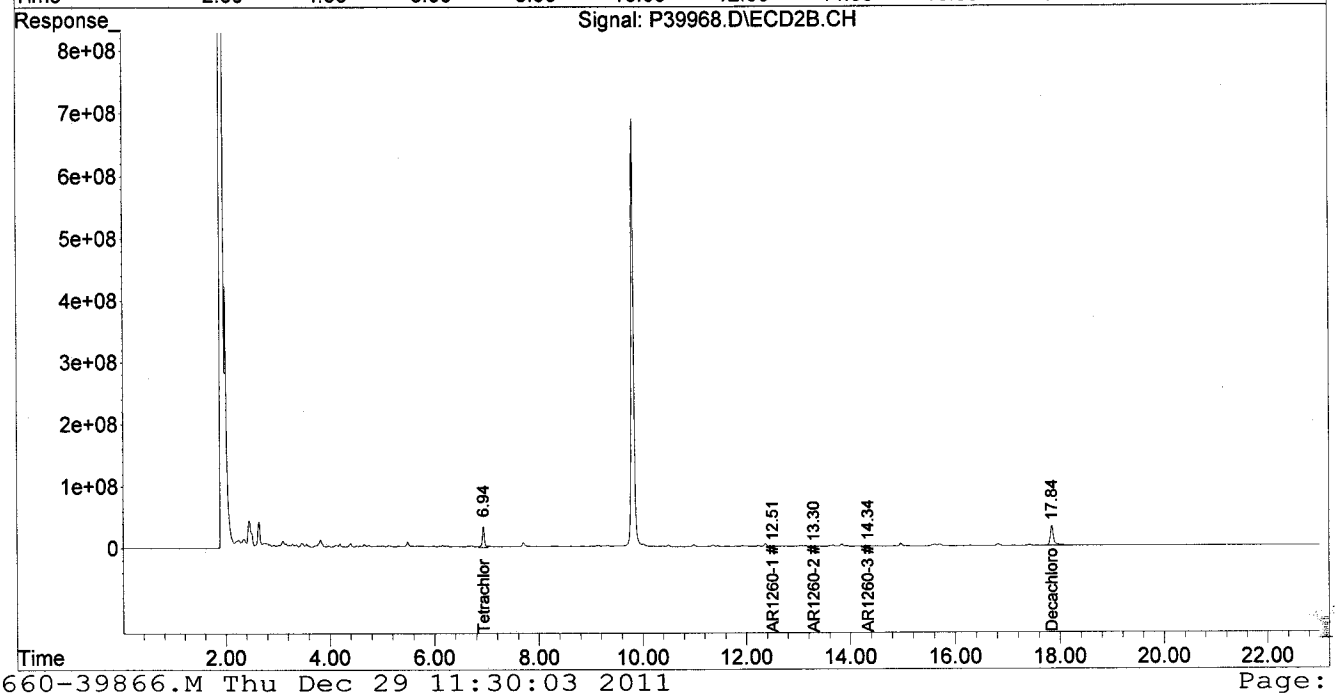
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39968.D(Signal #1) P39968.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 19:46 (Signal #1); 12/27/11 20:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP0 (Sig #1); F4XP0 (Sig #2)
Misc : S-4460.01 46.1G/10.0ML (Sig #1); S-4460.01 46.1G/10.0ML (Sig #2)
ALS Vial : 79 Sample Multiplier: 1

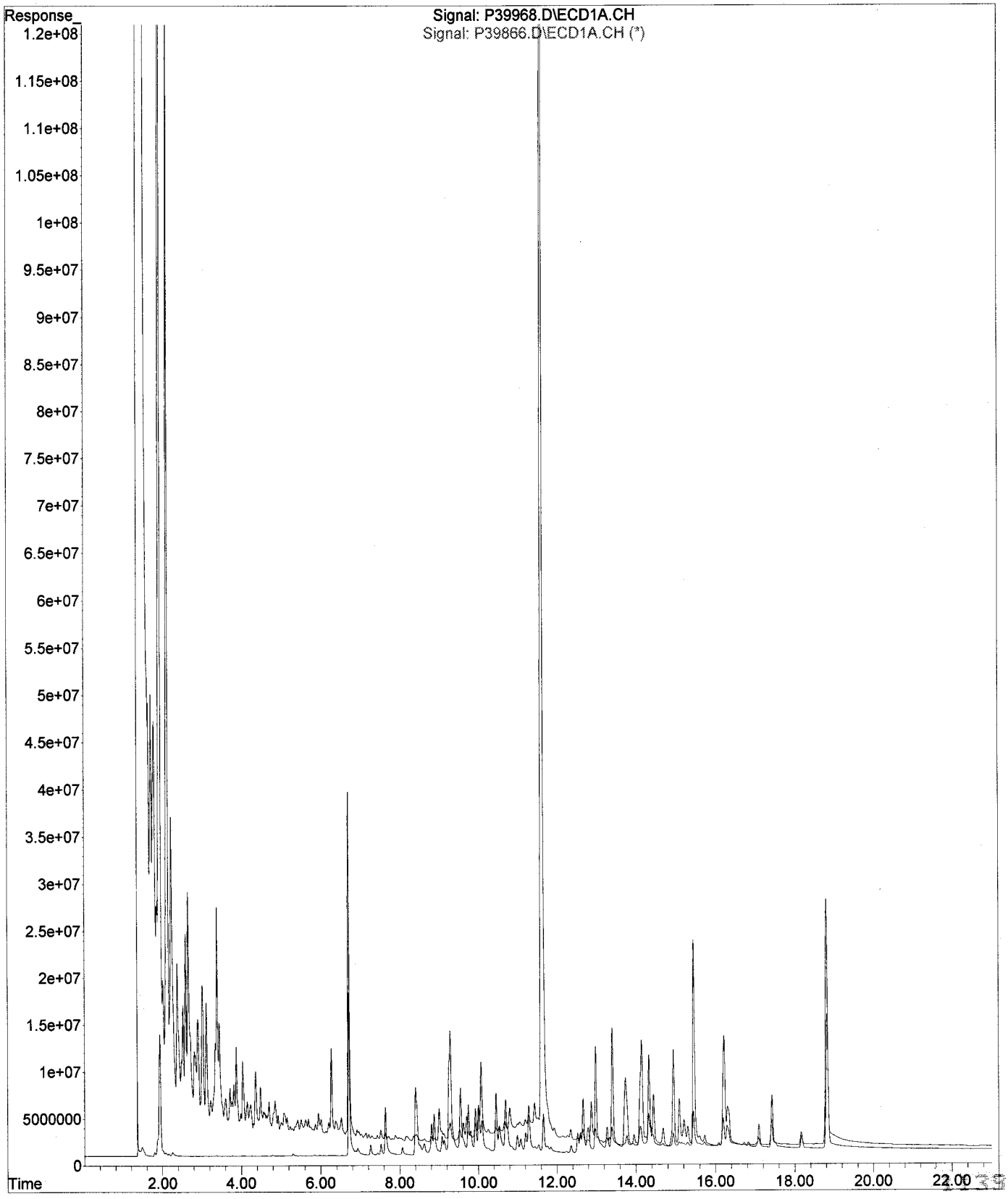
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:14:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

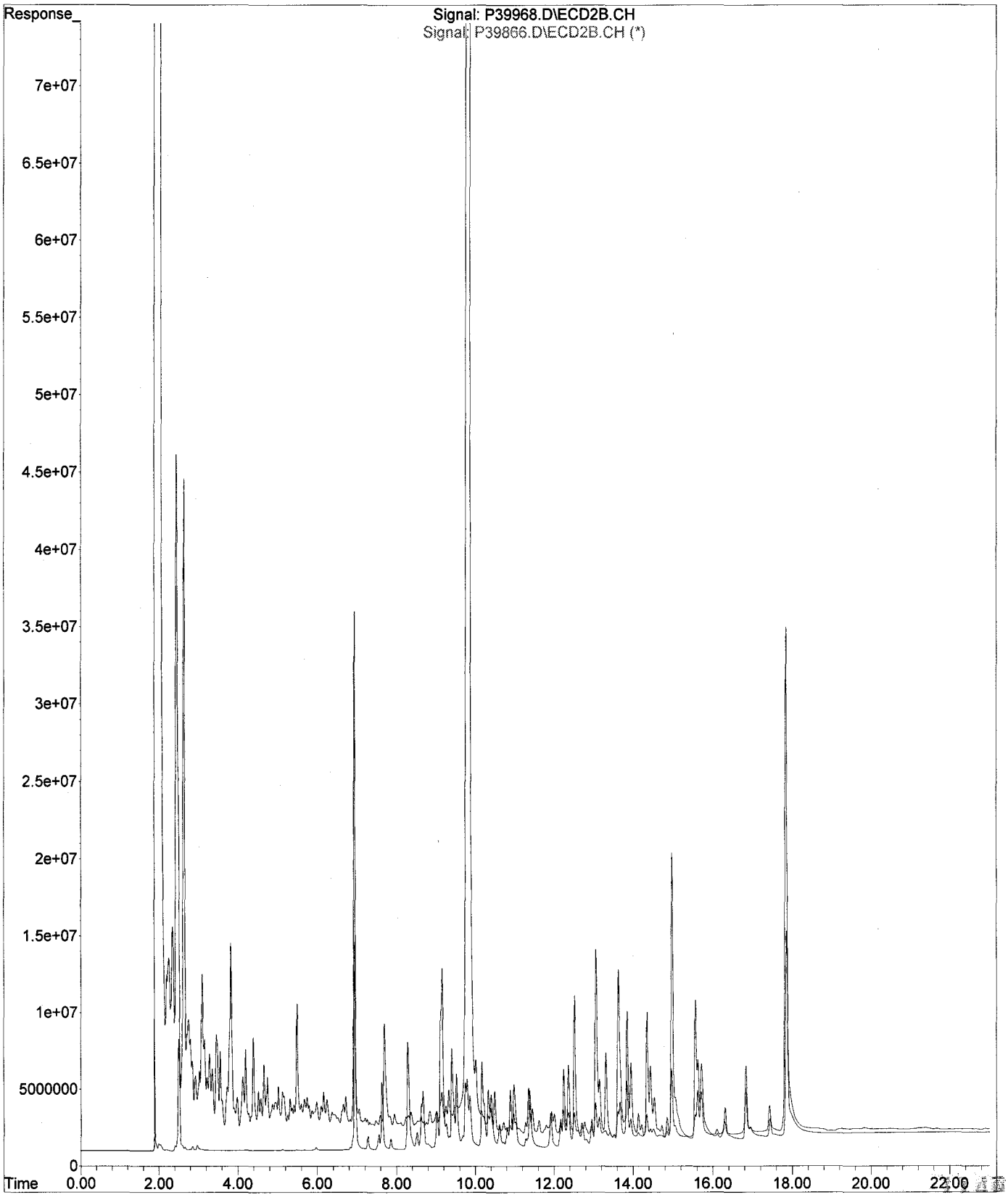




File :C:\MSDChem\1\data\P39968.D
Operator : KVR
Acquired : 27 Dec 2011 7:46 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP0
Misc Info : S-4460.01 46.1G/10.0ML
Vial Number: 79



File :C:\MSDChem\1\data\P39968.D
Operator : KVR
Acquired : 27 Dec 2011 7:46 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP0
Misc Info : S-4460.01 46.1G/10.0ML
Vial Number: 79



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.02

Sample wt/vol: 49.90 (g/mL) G Lab File ID: P39969

% Moisture: 38 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.5 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.4	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.4	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	6.4	U
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39969.D(Signal #1) P39969.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 20:17 (Signal #1); 12/27/11 20:47 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP1 (Sig #1); F4XP1 (Sig #2)
Misc : S-4460.02 49.9G/10.0ML (Sig #1); S-4460.02 49.9G/10.0ML (Sig #2)
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:14:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	955.0E6	940.7E6	38.504	44.629
	Spiked Amount 60.000	Range 18 - 90		Recovery =		64.17%	74.38%
8)	s Decachlorobiphen	18.81	17.84	1255.6E6	1590.4E6	71.778	84.151
	Spiked Amount 120.000			Recovery =		59.82%	70.13%
	Target Compounds						

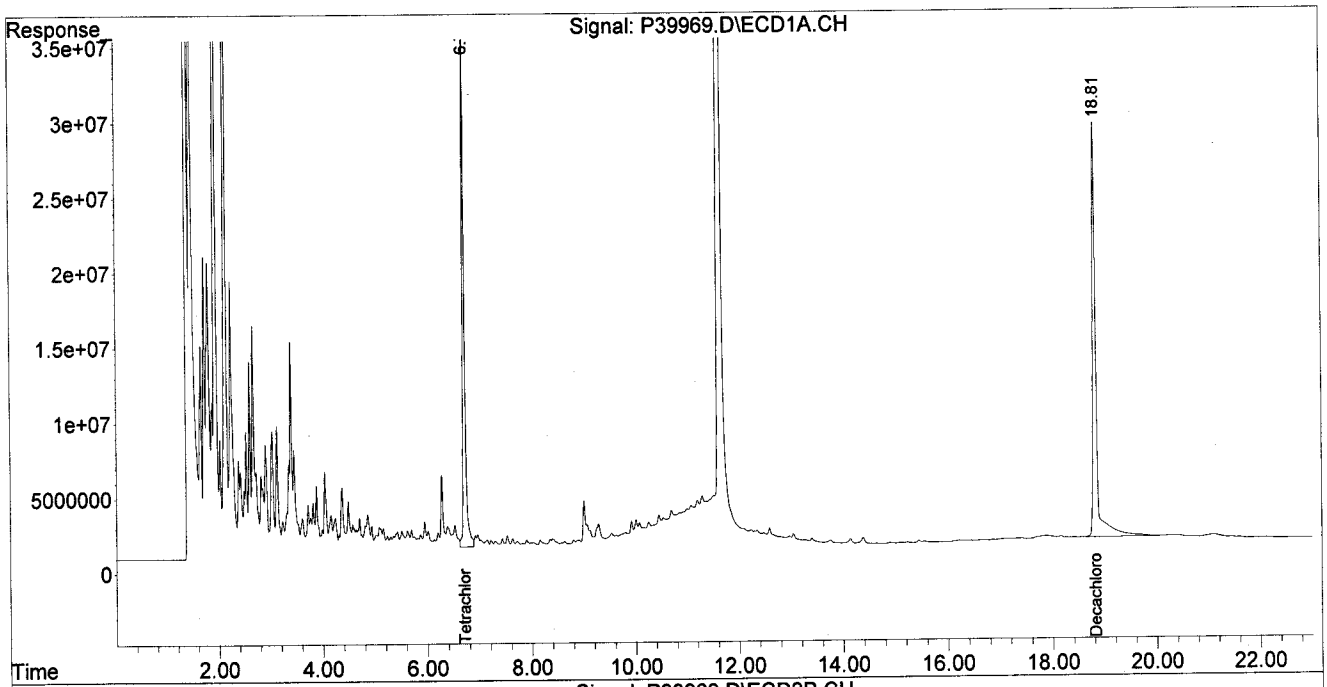
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

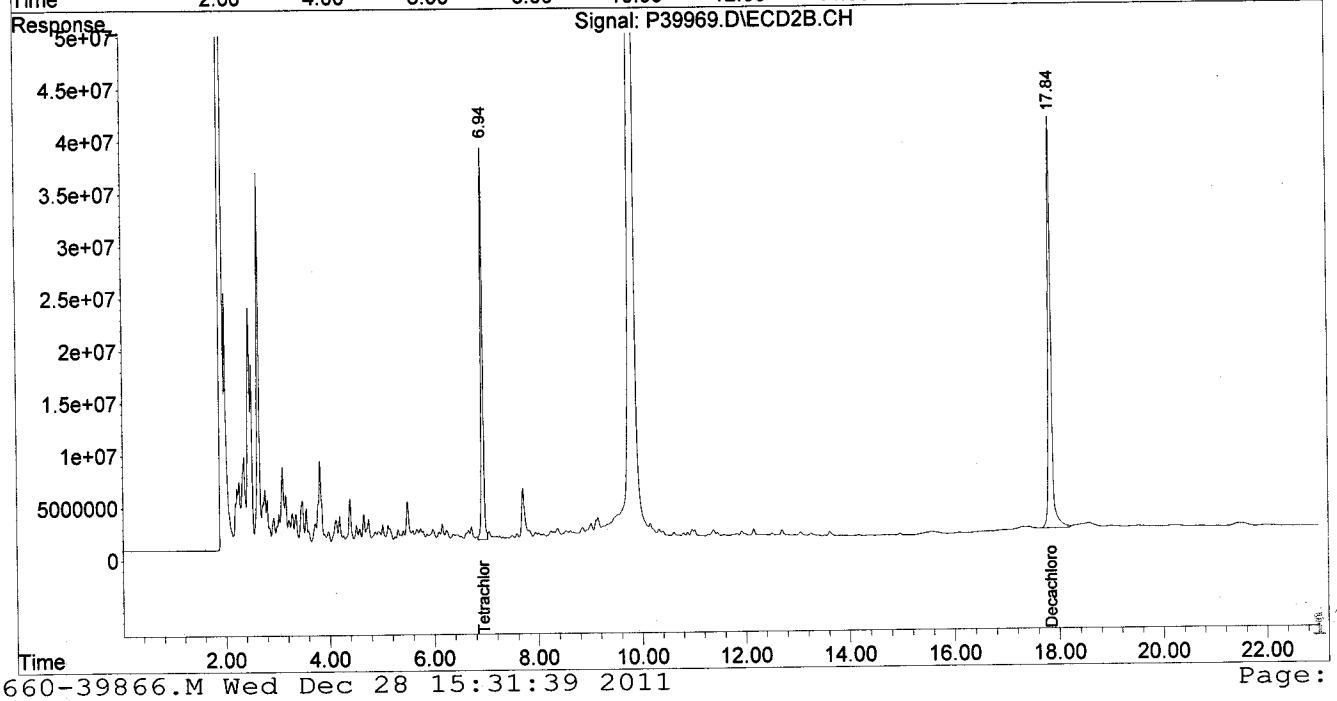
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39969.D(Signal #1) P39969.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 20:17 (Signal #1); 12/27/11 20:47 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP1 (Sig #1); F4XP1 (Sig #2)
Misc : S-4460.02 49.9G/10.0ML (Sig #1); S-4460.02 49.9G/10.0ML (Sig #2)
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:14:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03

Sample wt/vol: 50.30 (g/mL) G Lab File ID: P39970

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	16	P
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39970.D(Signal #1) P39970.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 20:47 (Signal #1); 12/27/11 21:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2 (Sig #1); F4XP2 (Sig #2)
Misc : S-4460.03 50.3G/10.0ML (Sig #1); S-4460.03 50.3G/10.0ML (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:15:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1004.8E6	1009.0E6	40.514	47.868
	Spiked Amount 60.000	Range 18 - 90		Recovery =		67.52%	79.78%
8)	s Decachlorobiphen	18.81	17.84	1316.4E6	1540.9E6	75.253	81.529
	Spiked Amount 120.000			Recovery =		62.71%	67.94%
	Target Compounds						

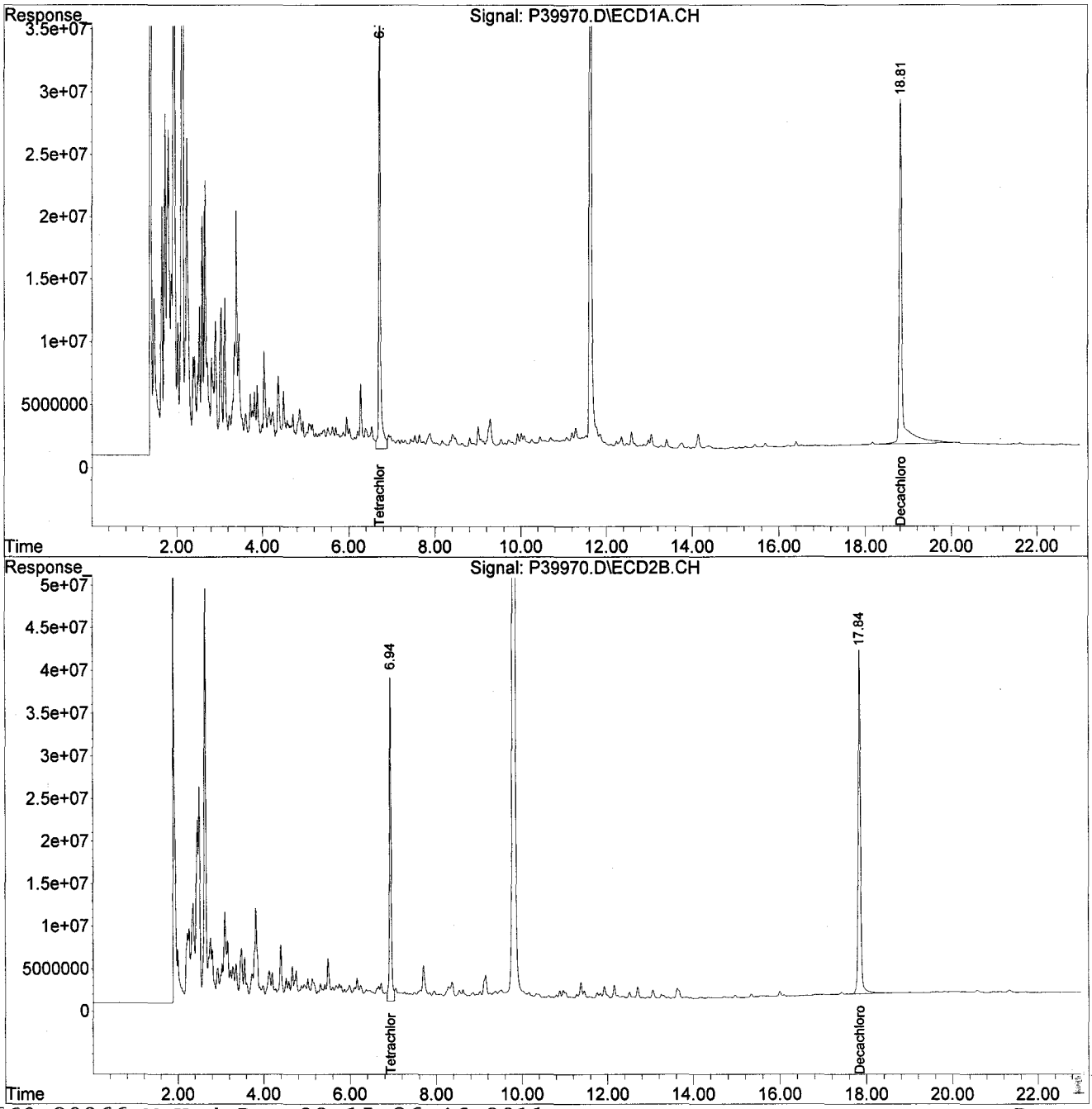
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39970.D(Signal #1) P39970.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 20:47 (Signal #1); 12/27/11 21:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2 (Sig #1); F4XP2 (Sig #2)
Misc : S-4460.03 50.3G/10.0ML (Sig #1); S-4460.03 50.3G/10.0ML (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:15:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39970.D(Signal #1) P39970.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 20:47 (Signal #1); 12/27/11 21:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2 (Sig #1); F4XP2 (Sig #2)
Misc : S-4460.03 50.3G/10.0ML (Sig #1); S-4460.03 50.3G/10.0ML (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:32:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.94	1004.8E6	1008.8E6	39.580	48.954	
	Spiked Amount 60.000	Range 18 - 90		Recovery =		65.97%	81.59%	
5)	s Decachlorobiphen	18.81	17.84	1316.4E6	1544.6E6	70.662	80.408	
	Spiked Amount 120.000			Recovery =		58.89%	67.01%	
	Target Compounds							
2)	AR1254-1	11.28	11.92	69028521	80012191	72.025	110.865	#
3)	AR1254-2	12.35	12.70	32375697	53007122	44.574	47.872	
4)	AR1254-3	13.40	13.06	24953648	45262581	32.922	48.171	#

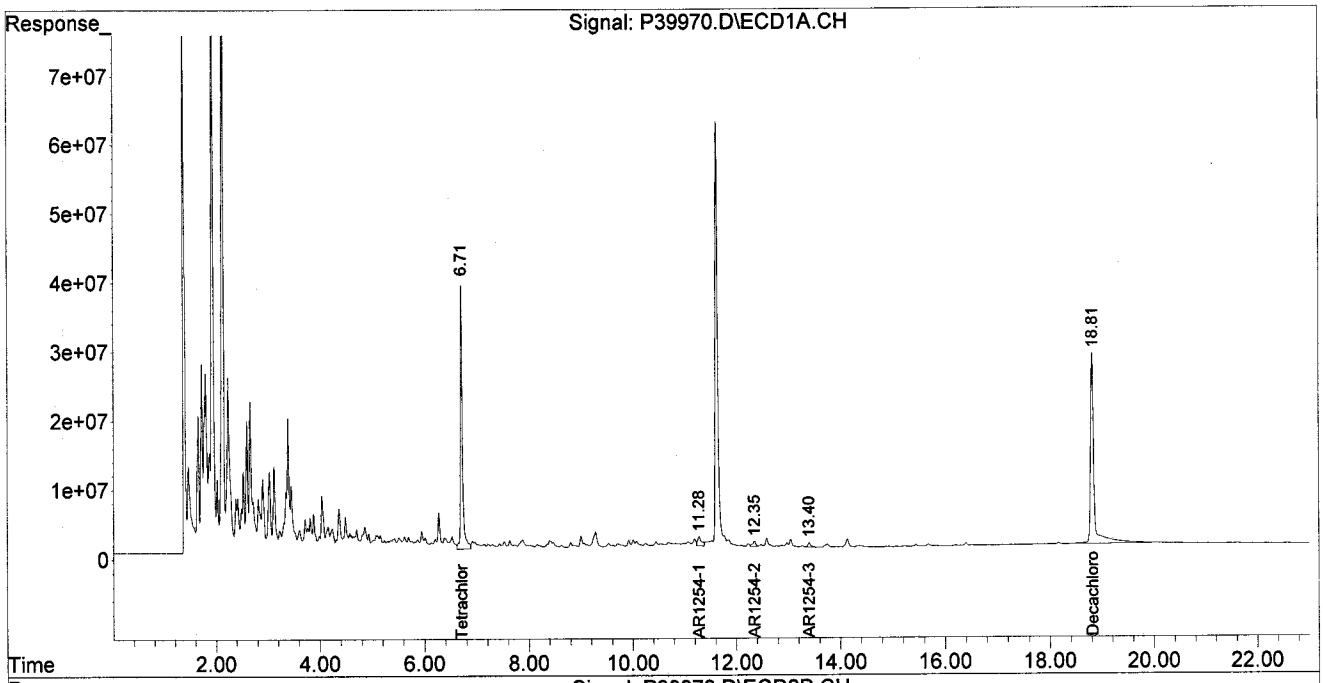
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

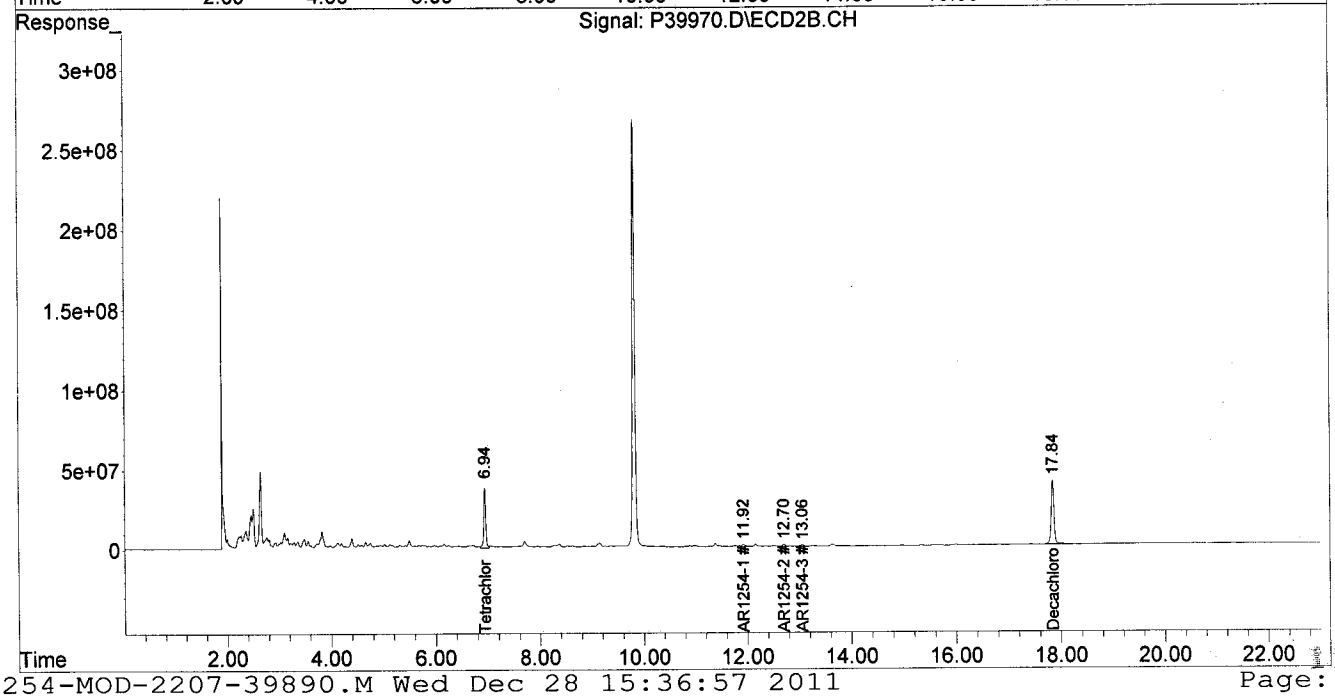
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39970.D(Signal #1) P39970.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 20:47 (Signal #1); 12/27/11 21:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2 (Sig #1); F4XP2 (Sig #2)
Misc : S-4460.03 50.3G/10.0ML (Sig #1); S-4460.03 50.3G/10.0ML (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

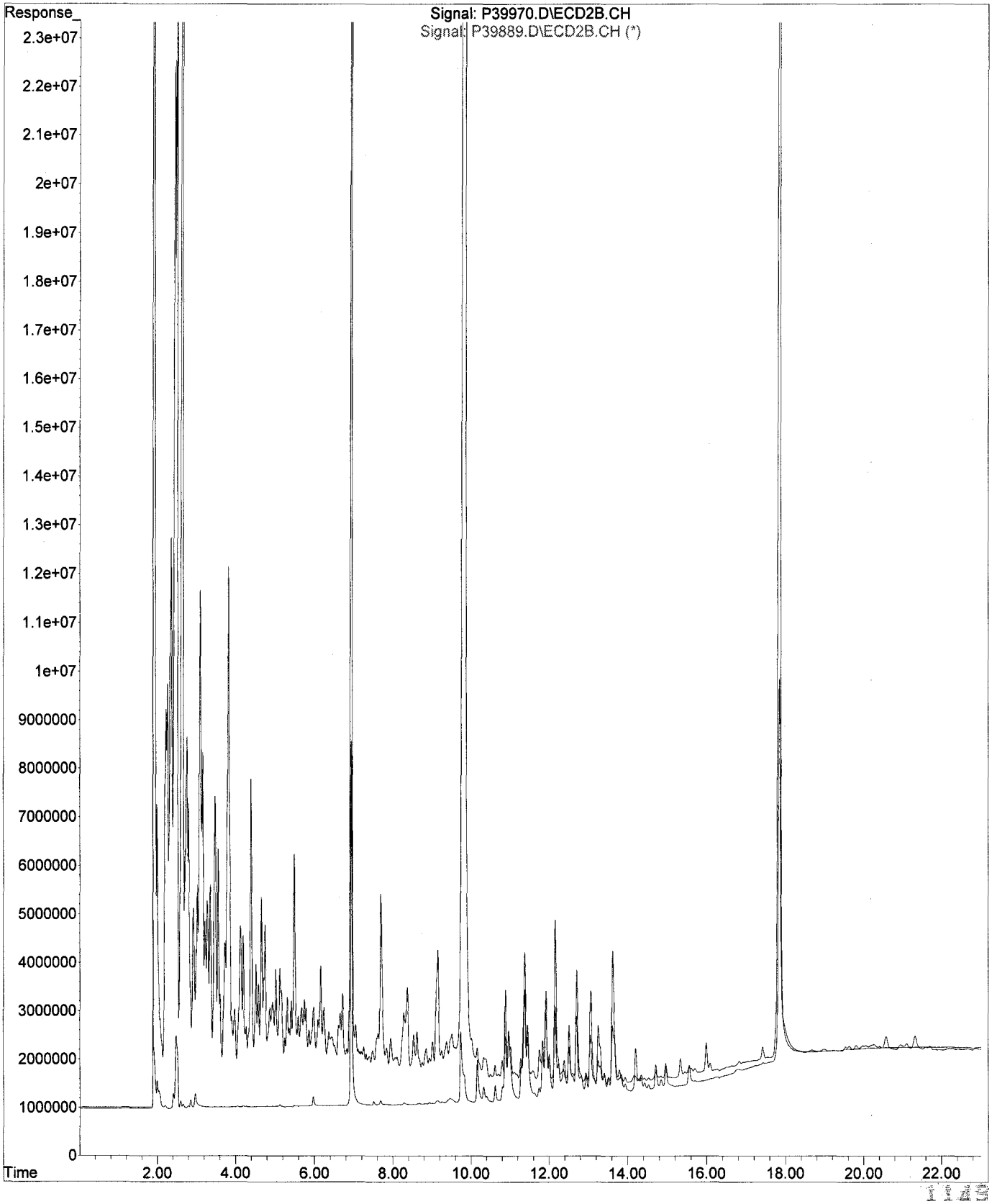
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:32:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

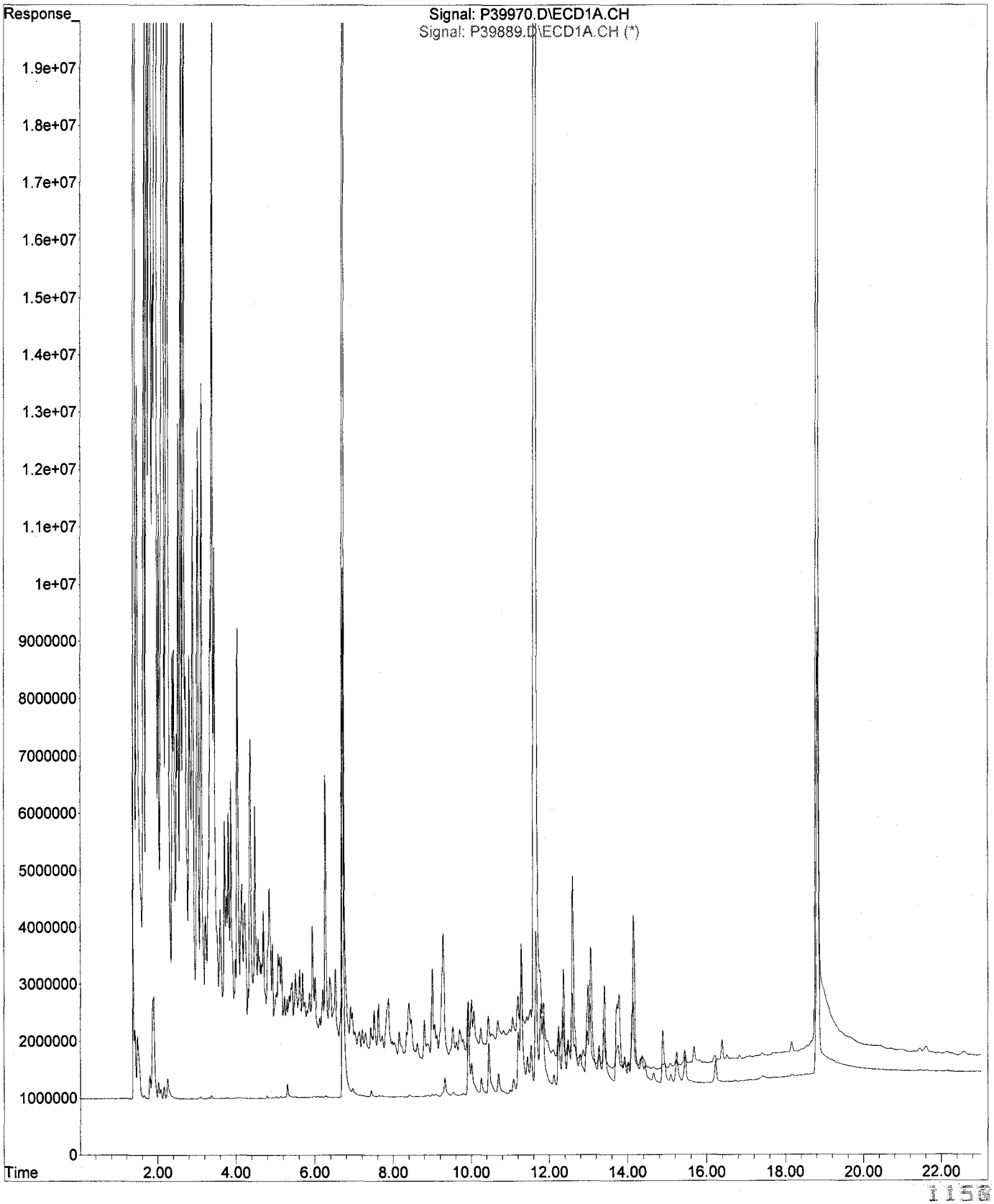




File :C:\MSDChem\1\data\P39970.D
Operator : KVR
Acquired : 27 Dec 2011 8:47 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP2
Misc Info : S-4460.03 50.3G/10.0ML
Vial Number: 81



File :C:\MSDChem\1\data\P39970.D
Operator : KVR
Acquired : 27 Dec 2011 8:47 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP2
Misc Info : S-4460.03 50.3G/10.0ML
Vial Number: 81



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.04

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P39971

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.6	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	6.6	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.6	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39971.D(Signal #1) P39971.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 21:17 (Signal #1); 12/27/11 21:48 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP3 (Sig #1); F4XP3 (Sig #2)
Misc : S-4460.04 50.1G/10.0ML (Sig #1); S-4460.04 50.1G/10.0ML (Sig #2)
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:17:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1043.1E6	914.6E6	42.059	43.389
Spiked Amount 60.000	Range 18 - 90		Recovery =		70.10%	72.32%
8) s Decachlorobiphen	18.81	17.84	1409.9E6	1476.5E6	80.600	78.126
Spiked Amount 120.000			Recovery =		67.17%	65.11%
Target Compounds						

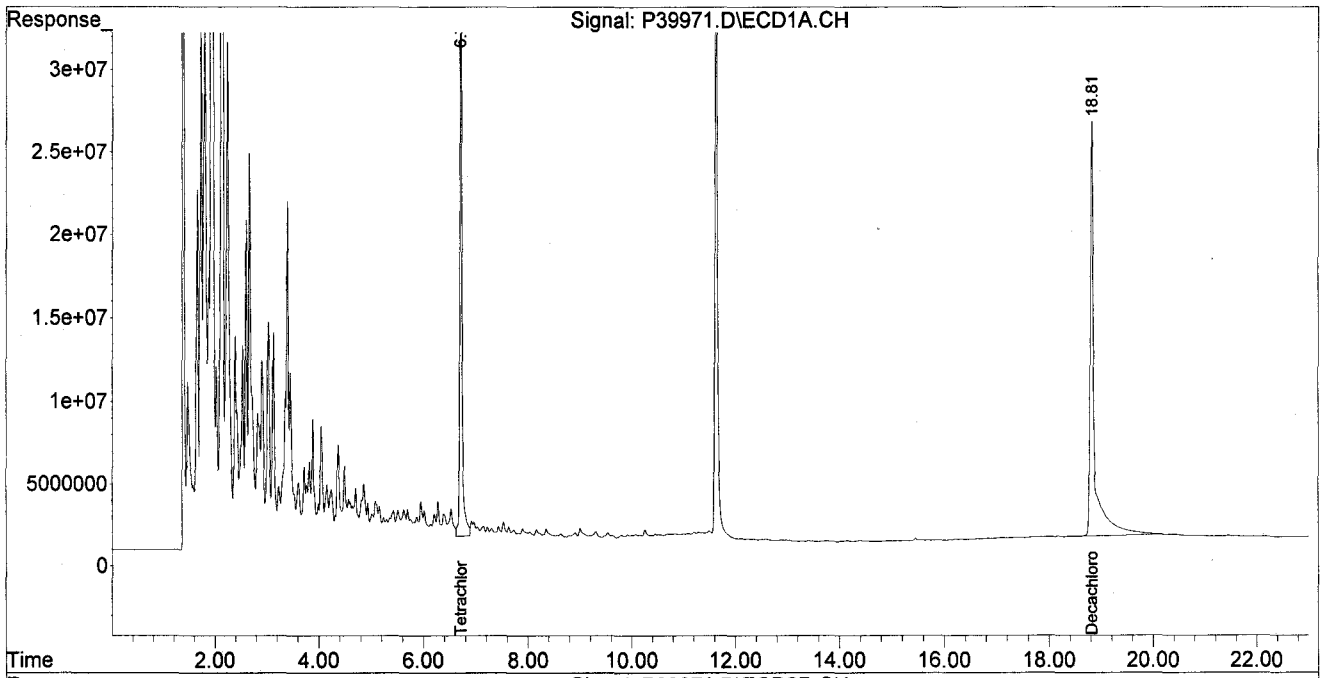
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

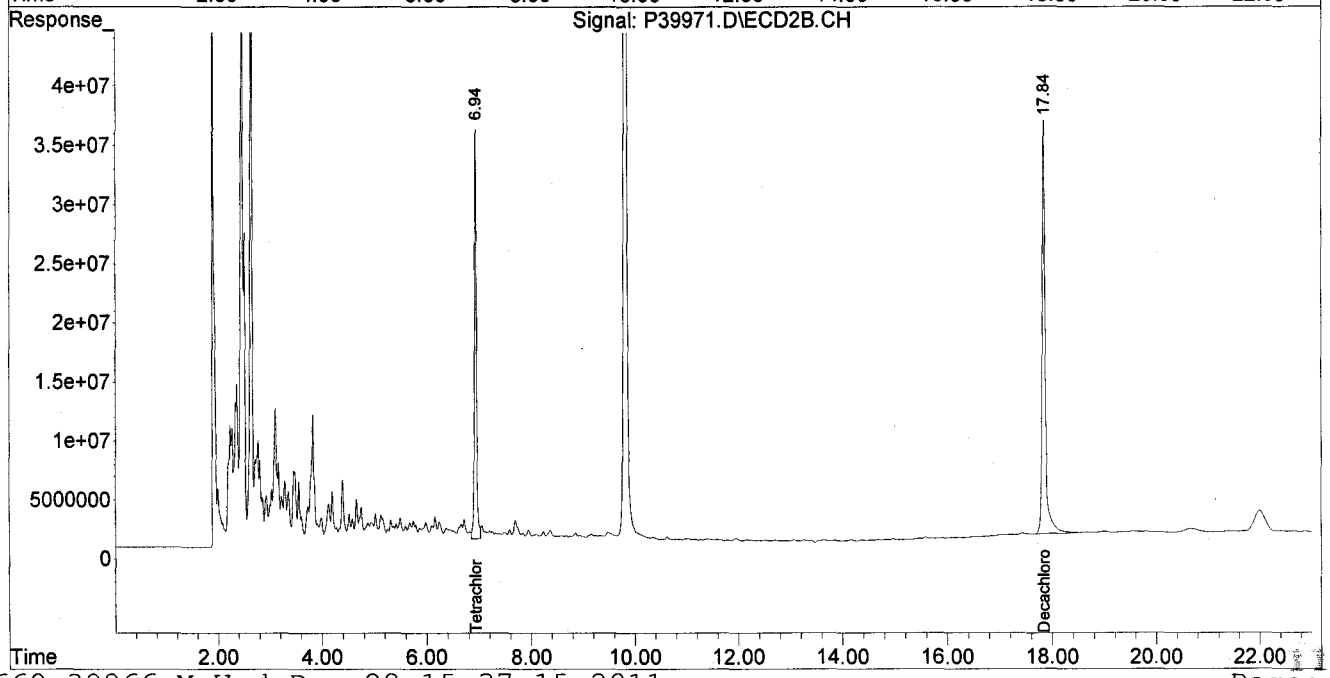
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39971.D(Signal #1) P39971.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 21:17 (Signal #1); 12/27/11 21:48 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP3 (Sig #1); F4XP3 (Sig #2)
Misc : S-4460.04 50.1G/10.0ML (Sig #1); S-4460.04 50.1G/10.0ML (Sig #2)
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:17:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.05

Sample wt/vol: 48.10 (g/mL) G Lab File ID: P39972

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.5	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39972.D(Signal #1) P39972.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 21:48 (Signal #1); 12/27/11 22:18 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP4 (Sig #1); F4XP4 (Sig #2)
Misc : S-4460.05 48.1G/10.0ML (Sig #1); S-4460.05 48.1G/10.0ML (Sig #2)
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:18:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1103.6E6	1020.7E6	44.497	48.424
Spiked Amount 60.000	Range 18 - 90		Recovery =		74.16%	80.71%
8) s Decachlorobiphen	18.81	17.84	1237.3E6	1561.8E6	70.730	82.637
Spiked Amount 120.000			Recovery =		58.94%	68.86%
Target Compounds						

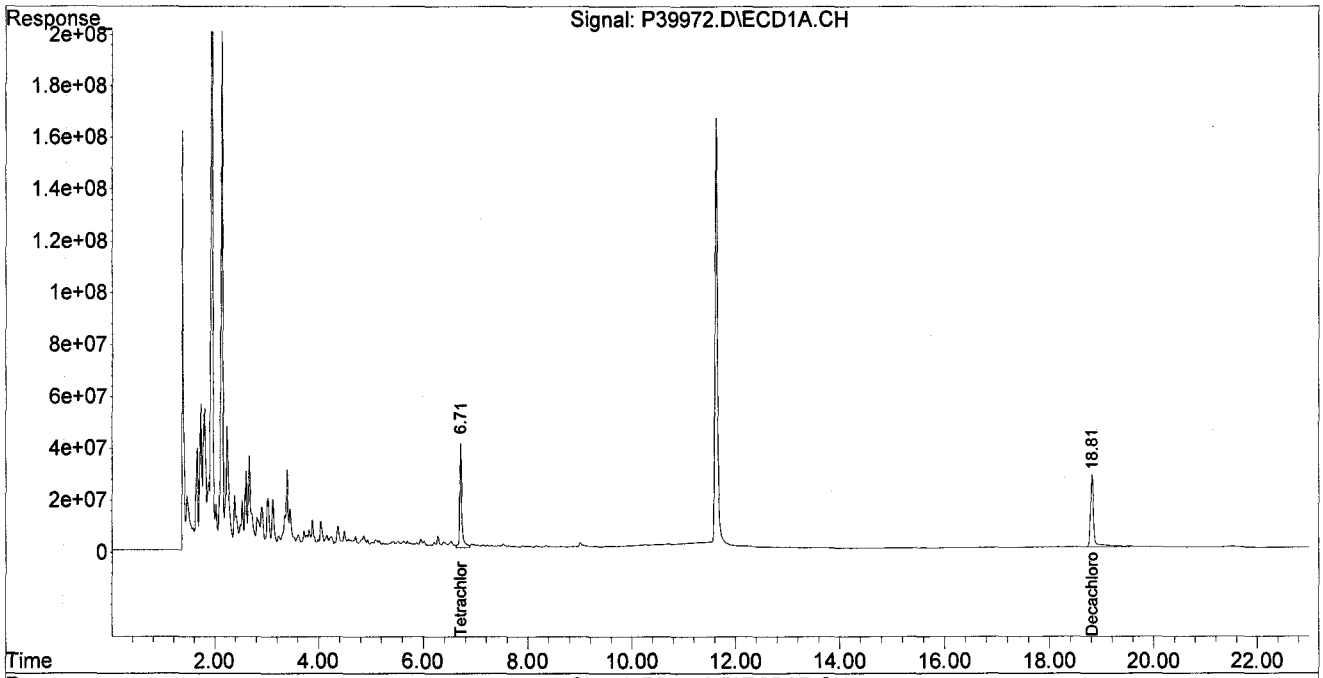
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

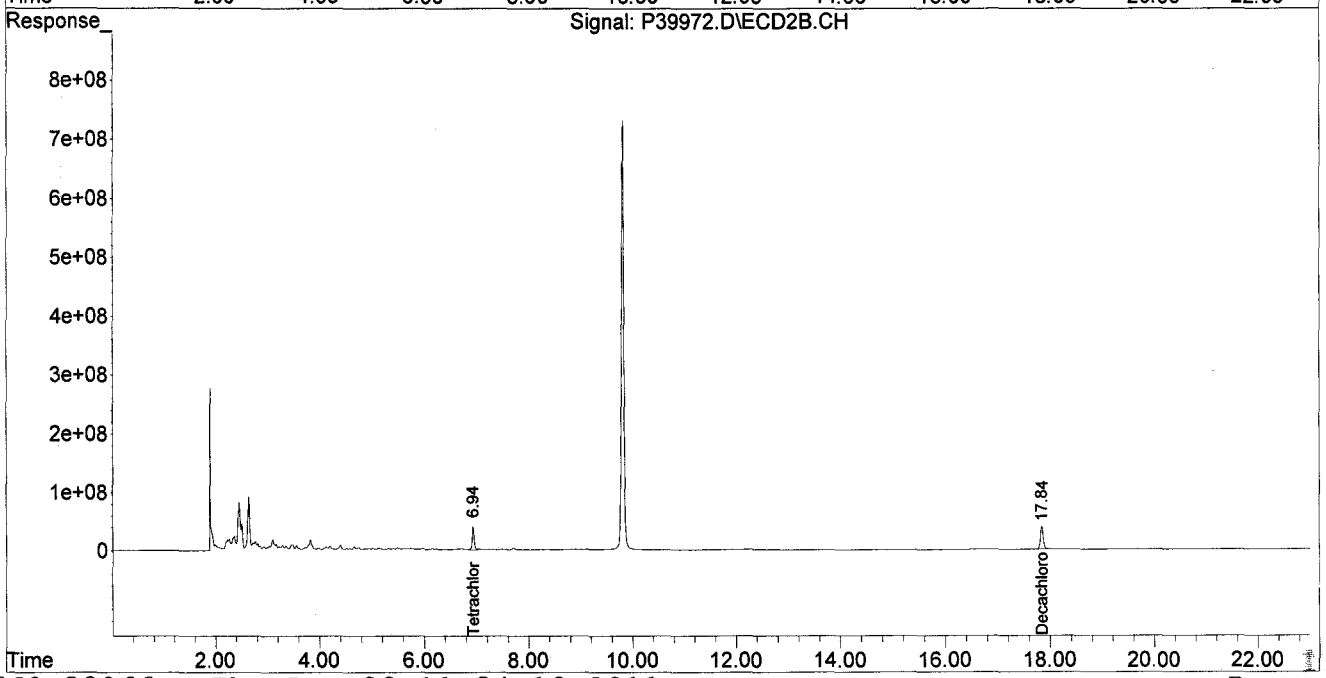
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39972.D(Signal #1) P39972.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 21:48 (Signal #1); 12/27/11 22:18 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP4 (Sig #1); F4XP4 (Sig #2)
Misc : S-4460.05 48.1G/10.0ML (Sig #1); S-4460.05 48.1G/10.0ML (Sig #2)
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:18:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.06

Sample wt/vol: 45.20 (g/mL) G Lab File ID: P39973

% Moisture: 33 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.5	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39973.D(Signal #1) P39973.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 22:18 (Signal #1); 12/27/11 22:49 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP5 (Sig #1); F4XP5 (Sig #2)
Misc : S-4460.06 45.2G/10.0ML (Sig #1); S-4460.06 45.2G/10.0ML (Sig #2)
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:33:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1070.9E6	1074.6E6	43.178	50.981
Spiked Amount 60.000	Range 18 - 90		Recovery =		71.96%	84.97%
8) s Decachlorobiphen	18.81	17.85	1300.7E6	1592.0E6	74.357	84.236
Spiked Amount 120.000			Recovery =		61.96%	70.20%
Target Compounds						

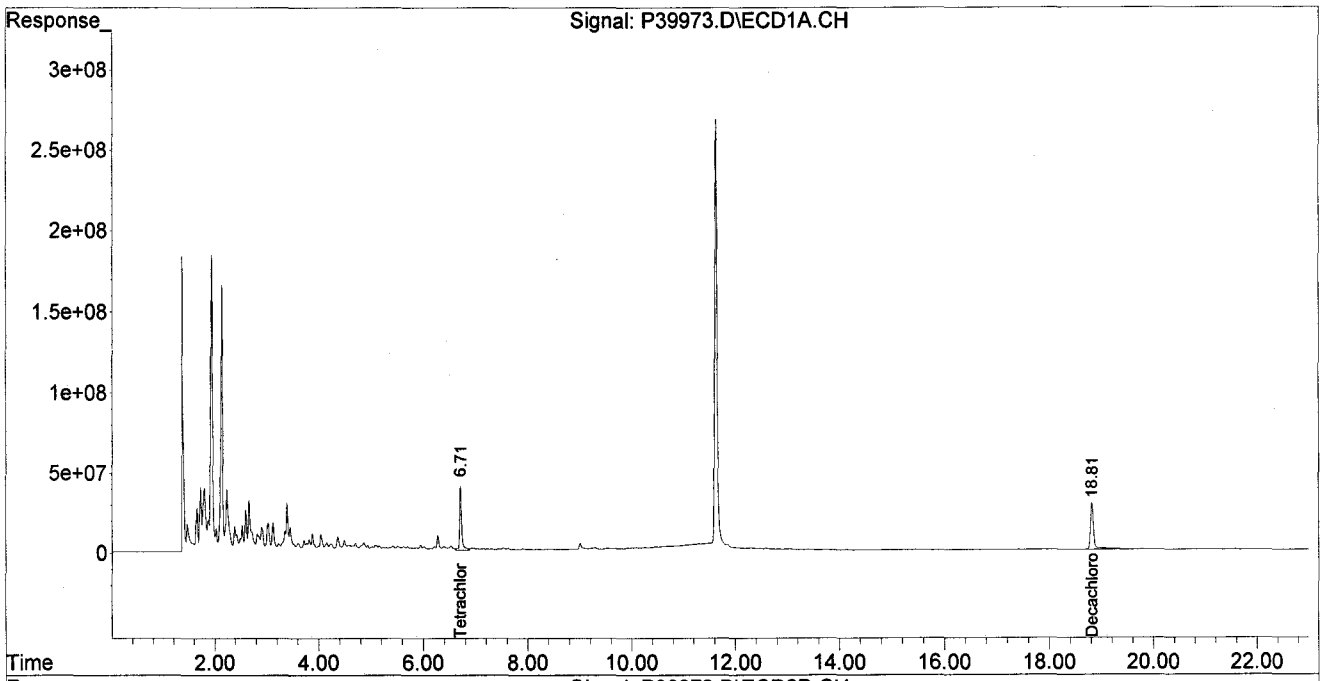
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

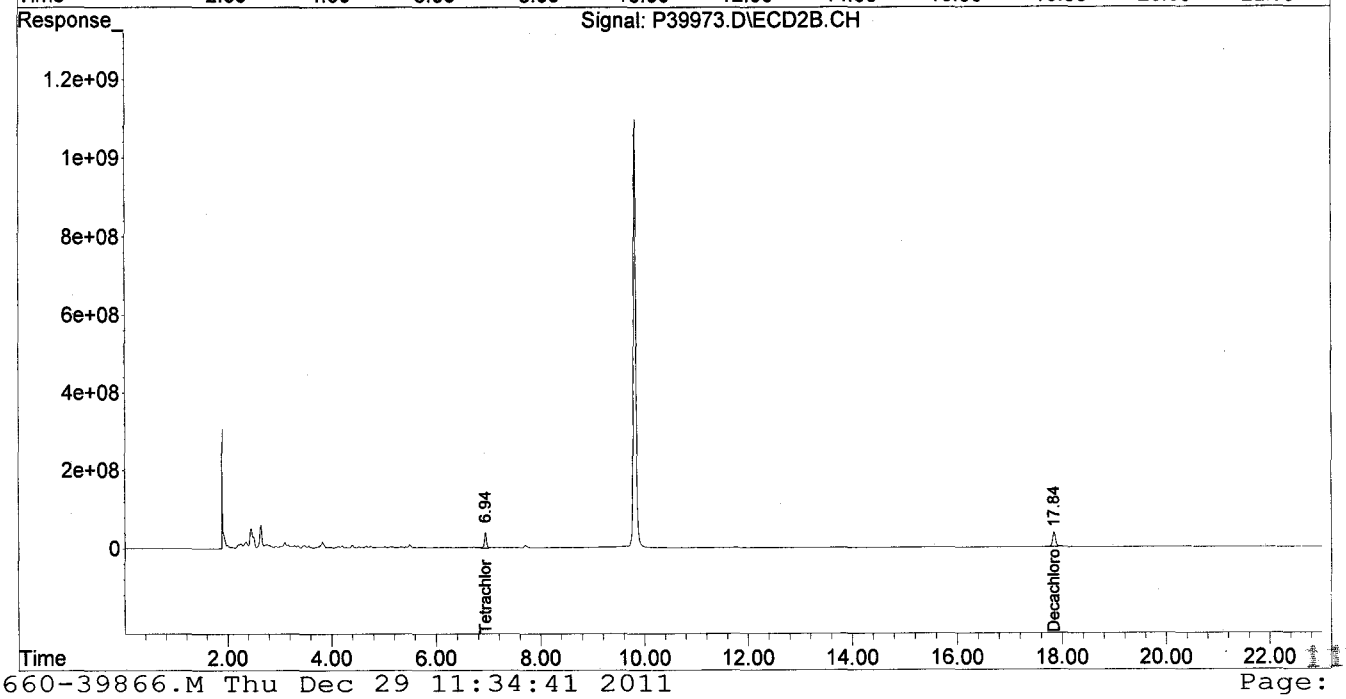
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39973.D(Signal #1) P39973.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 22:18 (Signal #1); 12/27/11 22:49 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP5 (Sig #1); F4XP5 (Sig #2)
Misc : S-4460.06 45.2G/10.0ML (Sig #1); S-4460.06 45.2G/10.0ML (Sig #2)
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:33:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.07

Sample wt/vol: 50.30 (g/mL) G Lab File ID: P39974

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	7.7	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	7.7	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	75	
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39974.D(Signal #1) P39974.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 22:49 (Signal #1); 12/27/11 23:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP6 (Sig #1); F4XP6 (Sig #2)
Misc : S-4460.07 50.3G/10.0ML (Sig #1); S-4460.07 50.3G/10.0ML (Sig #2)
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:20:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1117.7E6	1046.7E6	45.065	49.657
	Spiked Amount 60.000	Range 18 - 90		Recovery =		75.11%	82.76%
8)	s Decachlorobiphen	18.81	17.85	1285.5E6	1553.5E6	73.484	82.197
	Spiked Amount 120.000			Recovery =		61.24%	68.50%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

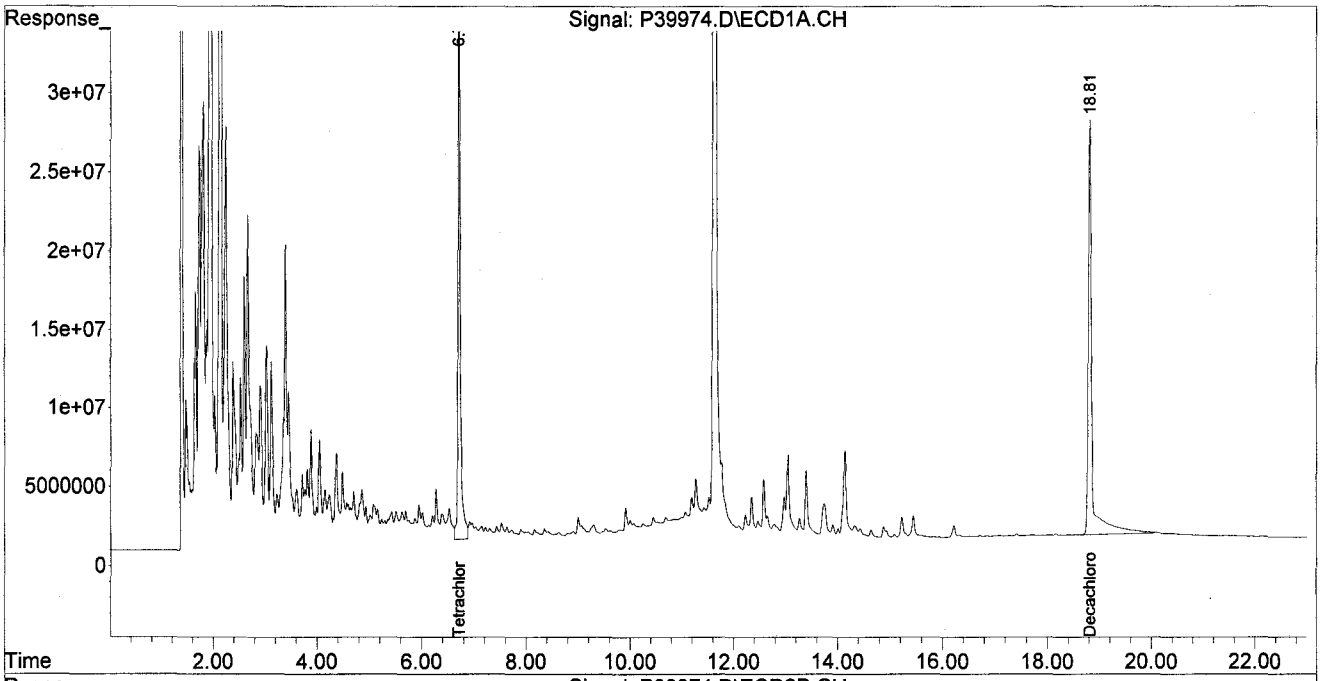
1161

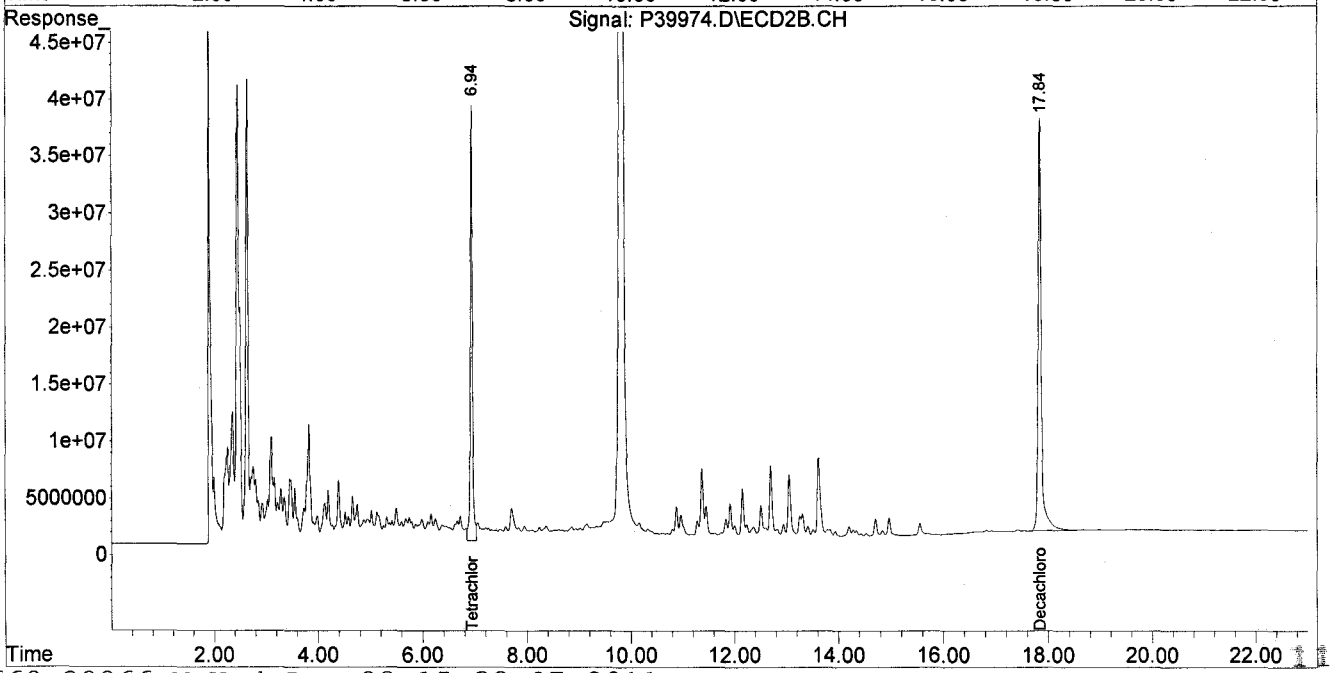
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39974.D(Signal #1) P39974.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 22:49 (Signal #1); 12/27/11 23:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP6 (Sig #1); F4XP6 (Sig #2)
Misc : S-4460.07 50.3G/10.0ML (Sig #1); S-4460.07 50.3G/10.0ML (Sig #2)
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:20:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39974.D(Signal #1) P39974.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 22:49 (Signal #1); 12/27/11 23:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP6 (Sig #1); F4XP6 (Sig #2)
Misc : S-4460.07 50.3G/10.0ML (Sig #1); S-4460.07 50.3G/10.0ML (Sig #2)
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:34:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.94	1117.7E6	1046.5E6	44.026	50.783	
	Spiked Amount 60.000	Range 18 - 90			Recovery =	73.38%	84.64%	
5)	s Decachlorobiphen	18.81	17.85	1285.5E6	1552.3E6	69.001	80.809	
	Spiked Amount 120.000				Recovery =	57.50%	67.34%	
	Target Compounds							
2)	AR1254-1	11.28	11.92	205.7E6	109.3E6	214.605	151.467	#
3)	AR1254-2	12.35	12.70	98973678	233.2E6	136.264	210.631	#
4)	AR1254-3	13.40	13.06	170.2E6	222.9E6	224.517	237.239	

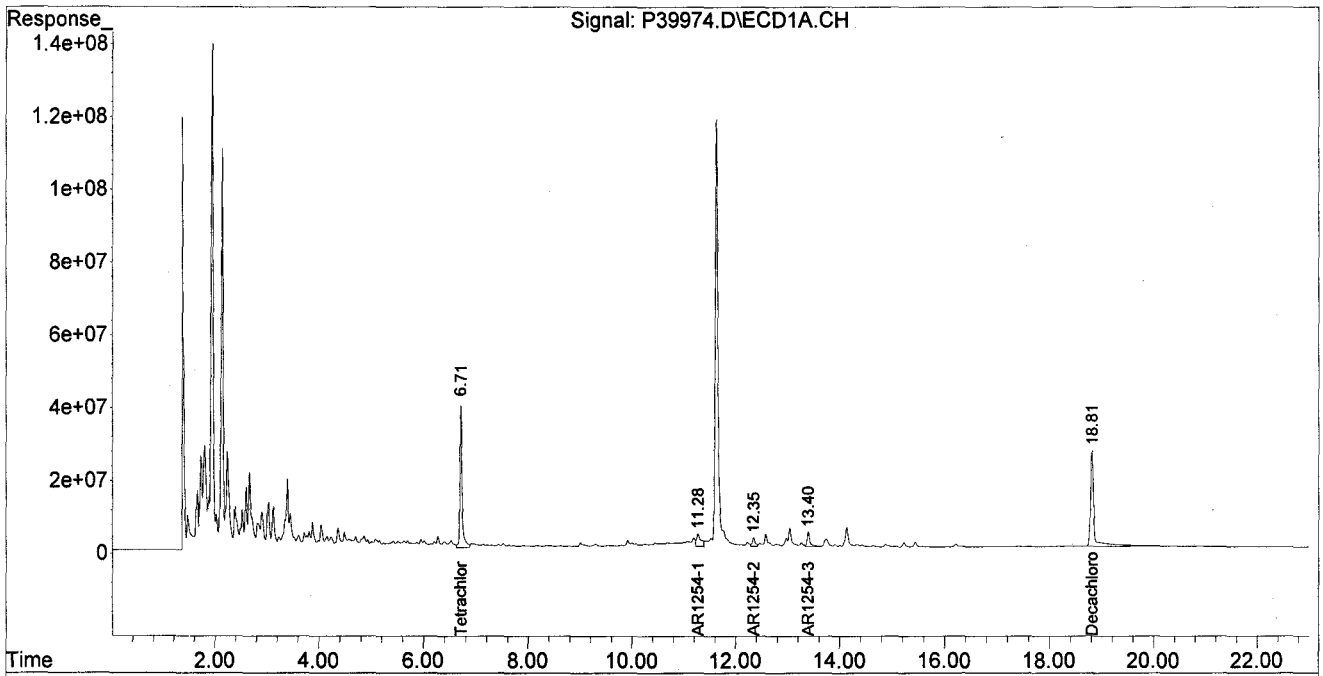
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

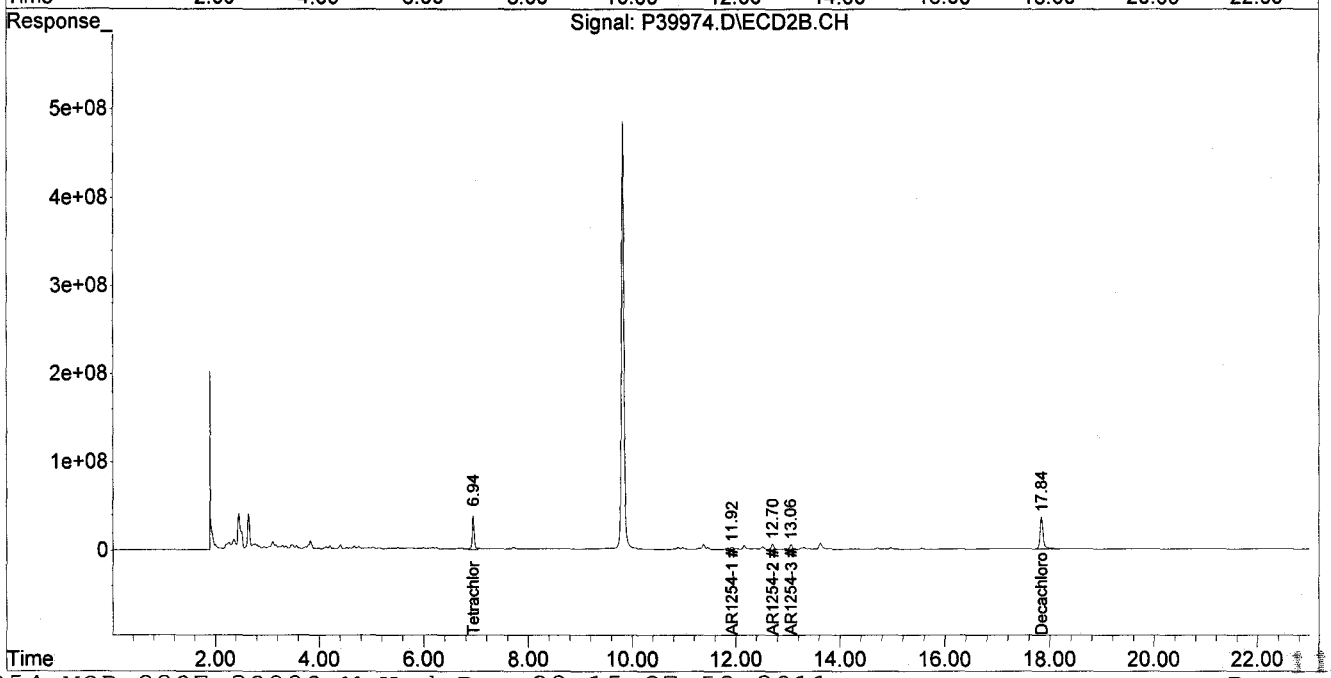
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39974.D(Signal #1) P39974.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 22:49 (Signal #1); 12/27/11 23:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP6 (Sig #1); F4XP6 (Sig #2)
Misc : S-4460.07 50.3G/10.0ML (Sig #1); S-4460.07 50.3G/10.0ML (Sig #2)
ALS Vial : 85 Sample Multiplier: 1

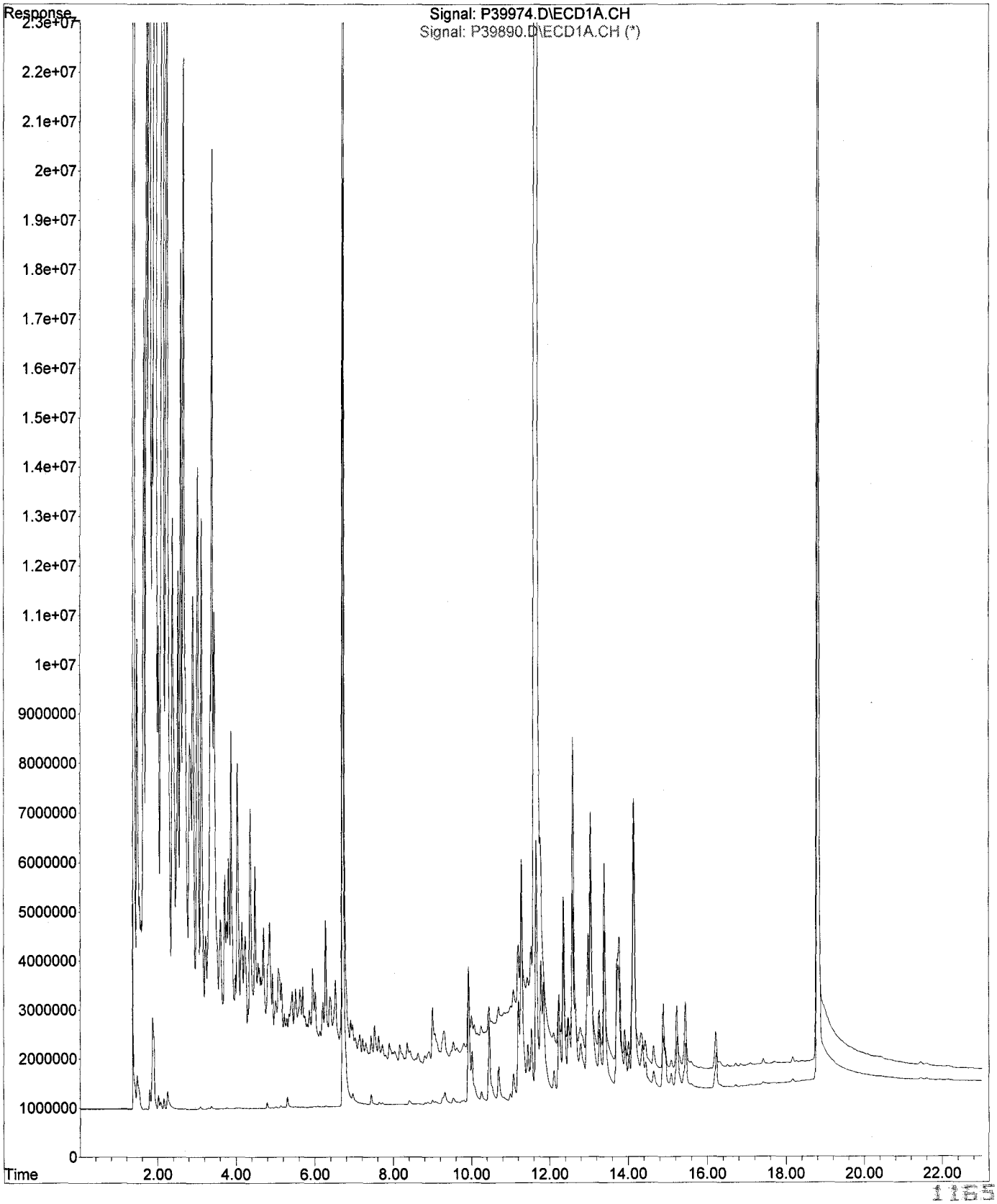
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:34:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

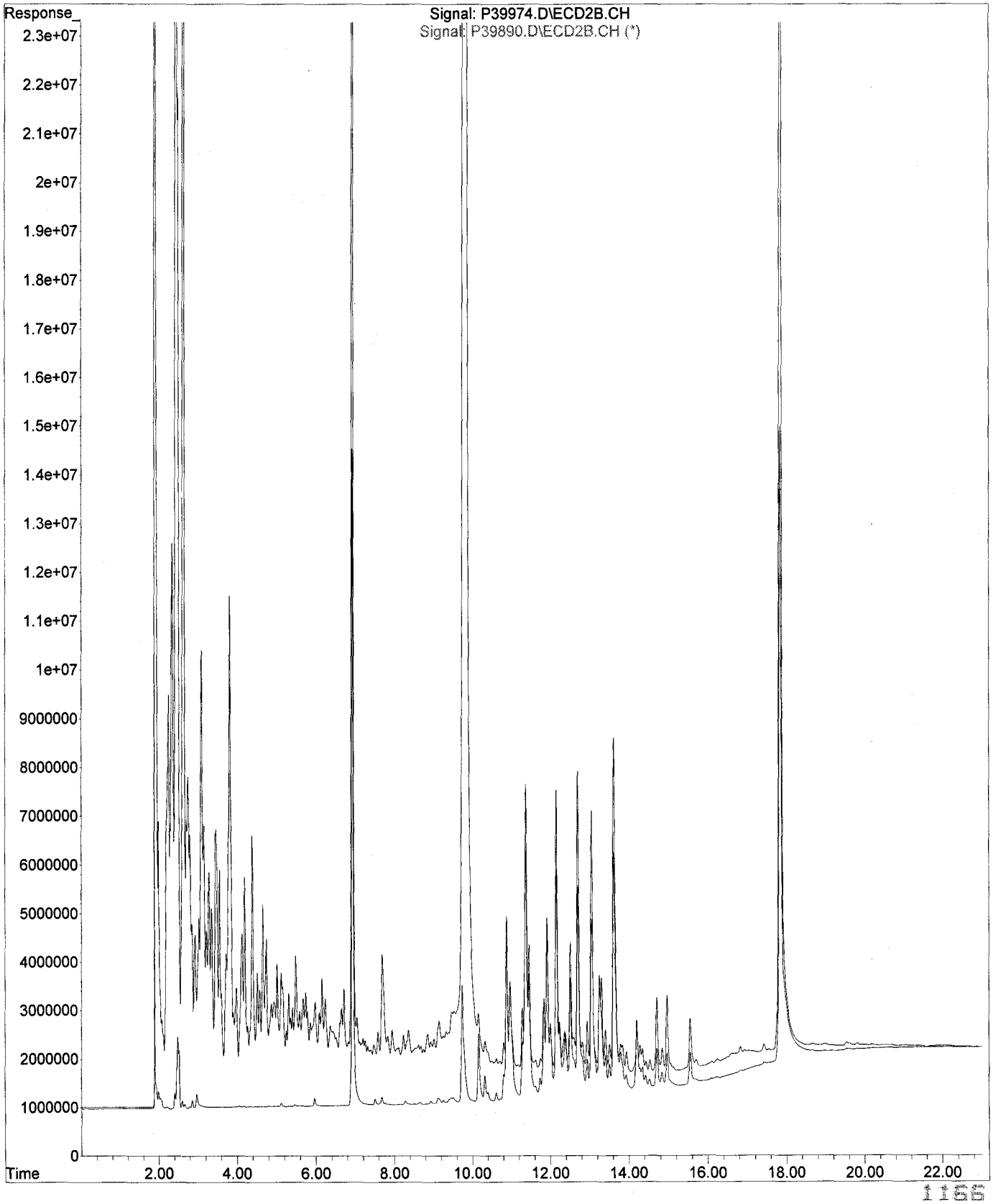




File : C:\MSDChem\1\data\P39974.D
Operator : KVR
Acquired : 27 Dec 2011 10:49 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP6
Misc Info : S-4460.07 50.3G/10.0ML
Vial Number: 85



File :C:\MSDChem\1\data\P39974.D
Operator : KVR
Acquired : 27 Dec 2011 10:49 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP6
Misc Info : S-4460.07 50.3G/10.0ML
Vial Number: 85



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.01

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P40001

% Moisture: 46 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.1 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	7.3	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	7.3	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	19	
11096-82-5	Aroclor-1260	37	U
37324-23-5	Aroclor-1262	37	U
11100-14-4	Aroclor-1268	37	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40001.D(Signal #1) P40001.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 15:10 (Signal #1); 12/28/11 15:41 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP7 (Sig #1); F4XP7 (Sig #2)
Misc : S-4465.01 50.1G/10.0ML (Sig #1); S-4465.01 50.1G/10.0ML (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:56:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1180.3E6	1196.5E6	47.591	56.766
Spiked Amount 60.000	Range 18 - 90		Recovery =		79.32%	94.61%#
8) s Decachlorobiphen	18.81	17.84	1564.3E6	1863.1E6	89.424	98.579
Spiked Amount 120.000			Recovery =		74.52%	82.15%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

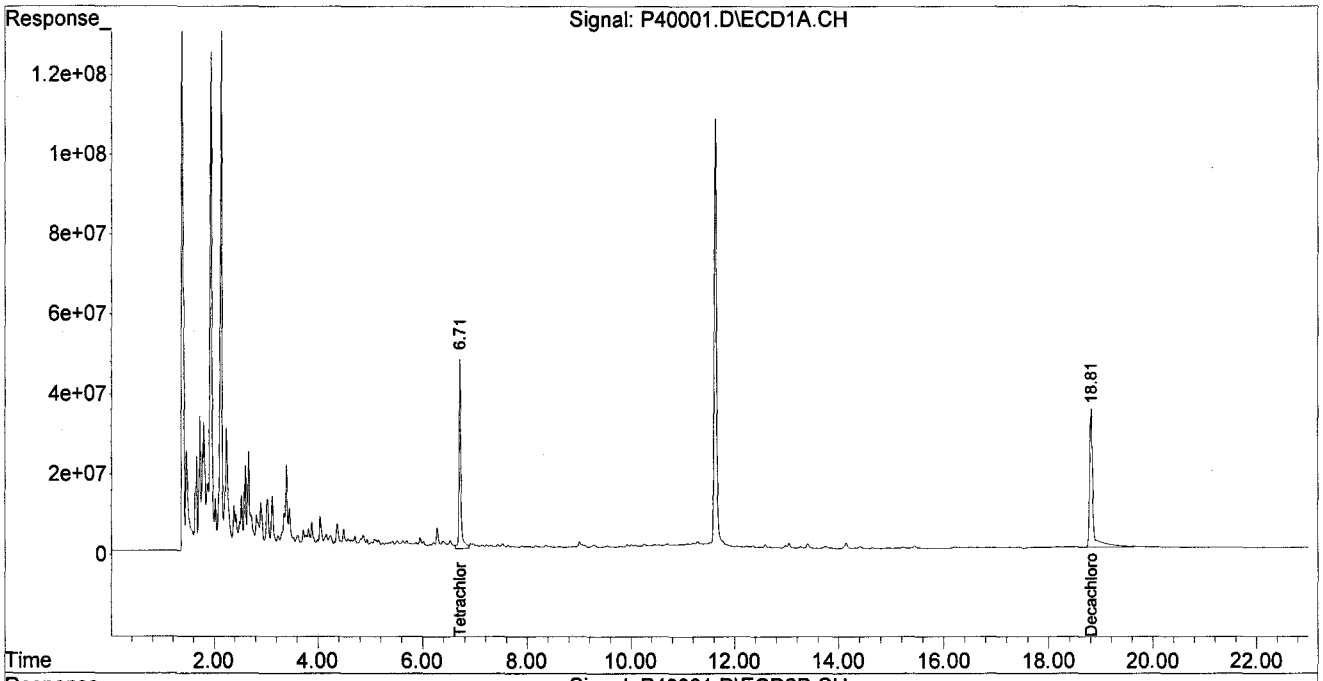
1168

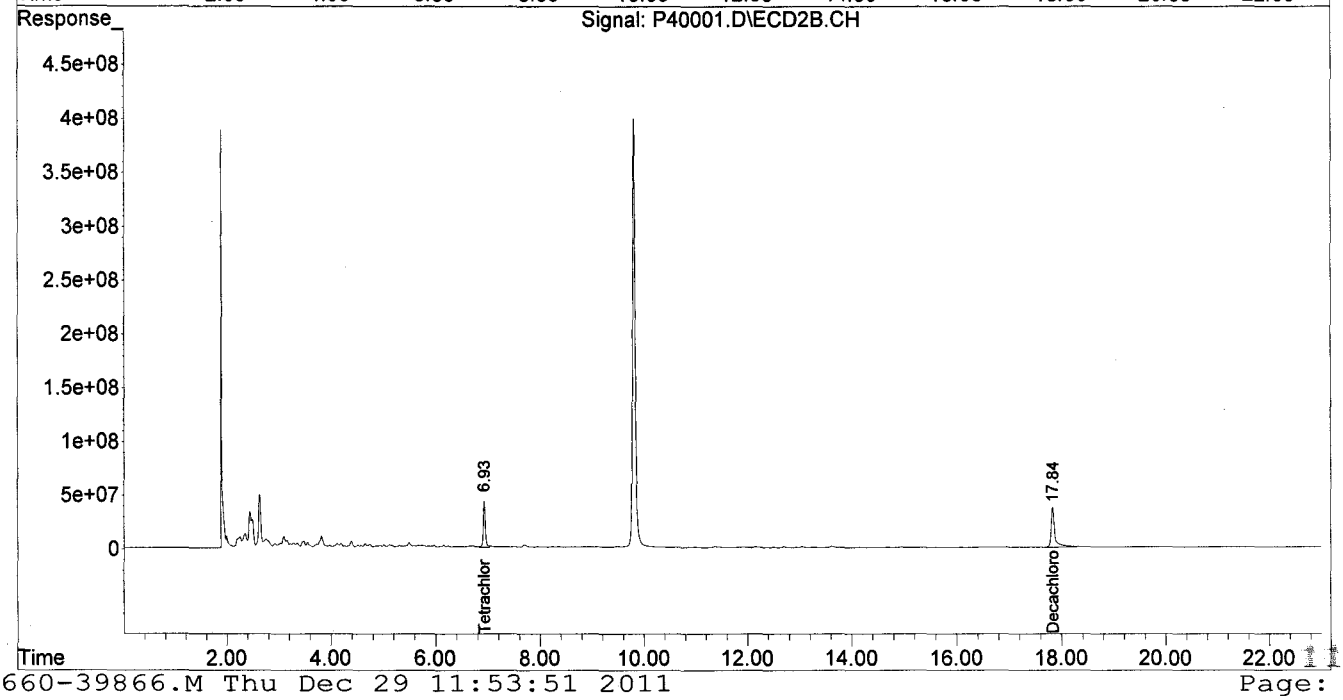
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40001.D(Signal #1) P40001.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 15:10 (Signal #1); 12/28/11 15:41 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP7 (Sig #1); F4XP7 (Sig #2)
Misc : S-4465.01 50.1G/10.0ML (Sig #1); S-4465.01 50.1G/10.0ML (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:56:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40001.D(Signal #1) P40001.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 15:10 (Signal #1); 12/28/11 15:41 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP7 (Sig #1); F4XP7 (Sig #2)
Misc : S-4465.01 50.1G/10.0ML (Sig #1); S-4465.01 50.1G/10.0ML (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:55:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1180.3E6	1196.5E6	46.493	58.064
	Spiked Amount 60.000	Range 18 - 90		Recovery =		77.49%	96.77%#
5)	s Decachlorobiphen	18.81	17.84	1564.3E6	1865.2E6	83.969	97.097
	Spiked Amount 120.000			Recovery =		69.97%	80.91%
	Target Compounds						
2)	AR1254-1	11.28	11.92	70532748	47206117	73.595	65.409
3)	AR1254-2	12.35	12.70	17834211	54215761	24.554	48.964 #
4)	AR1254-3	13.40	13.05	39796649	65662312	52.505	69.882 #

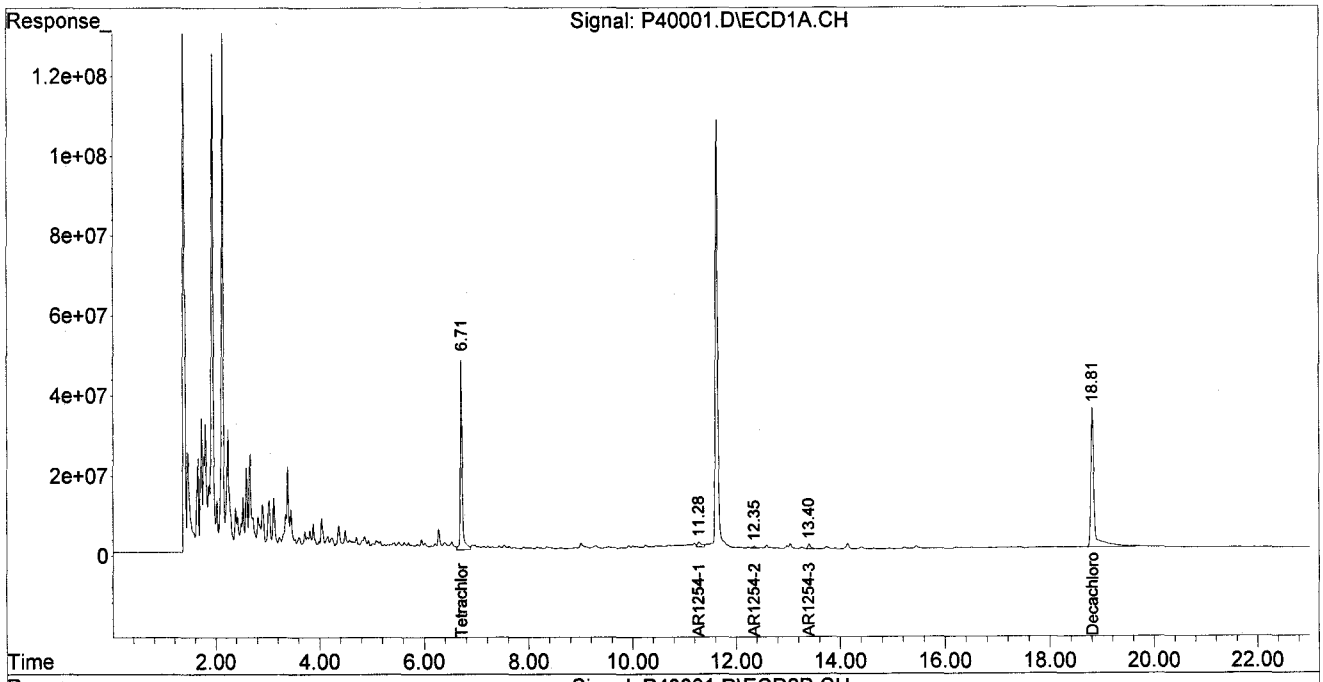
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

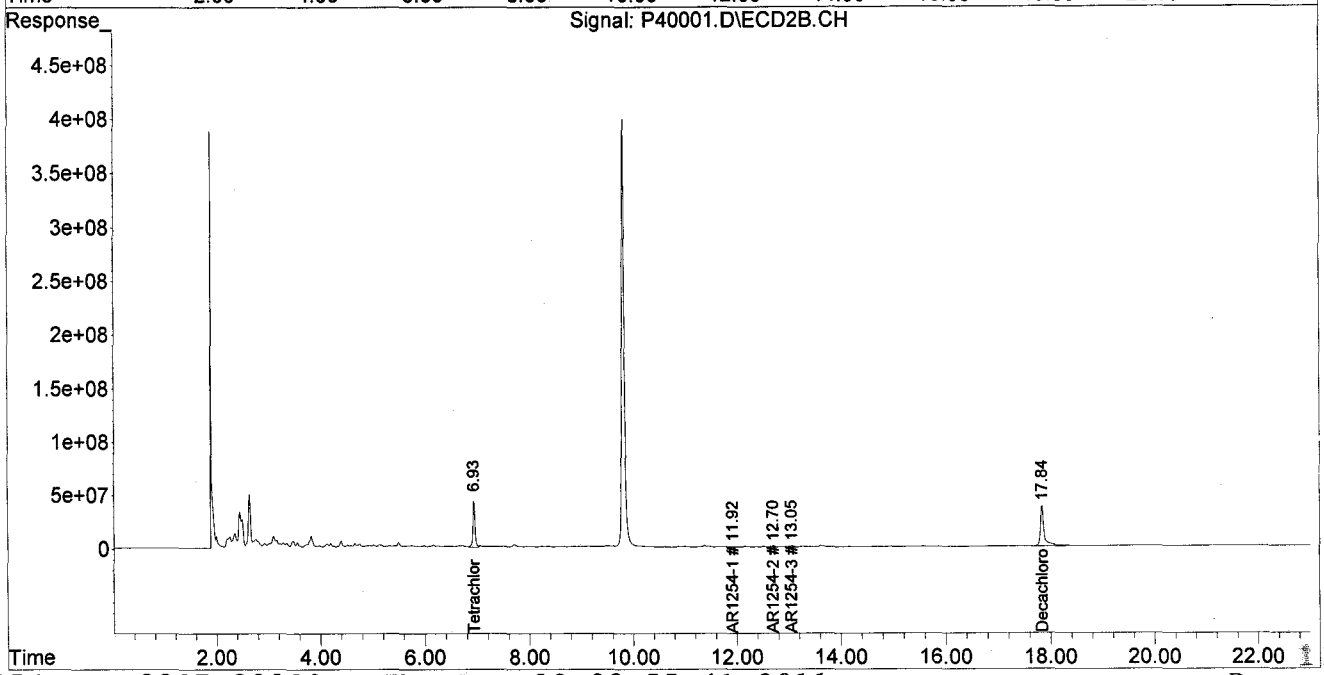
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40001.D(Signal #1) P40001.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 15:10 (Signal #1); 12/28/11 15:41 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP7 (Sig #1); F4XP7 (Sig #2)
Misc : S-4465.01 50.1G/10.0ML (Sig #1); S-4465.01 50.1G/10.0ML (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

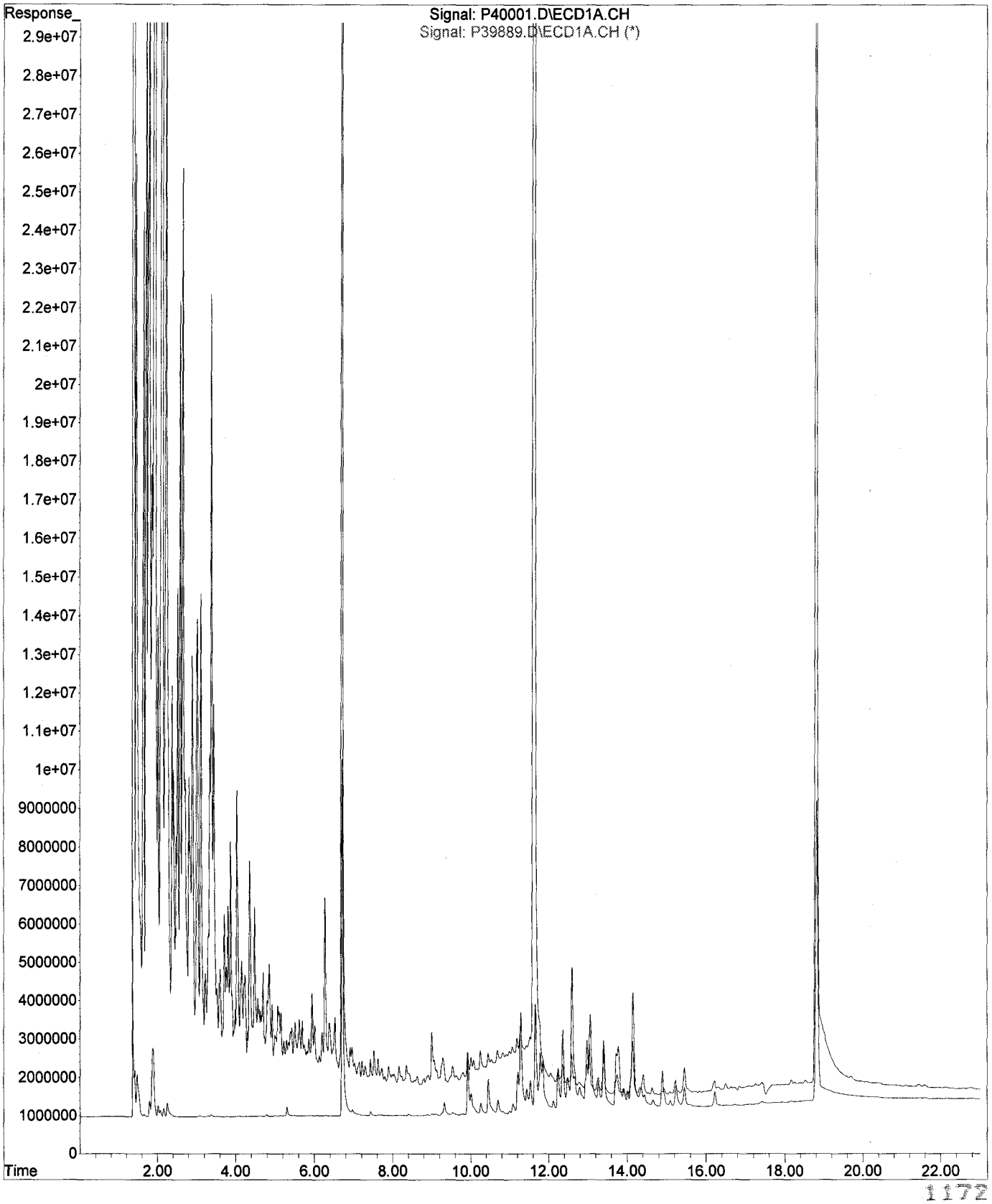
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:55:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

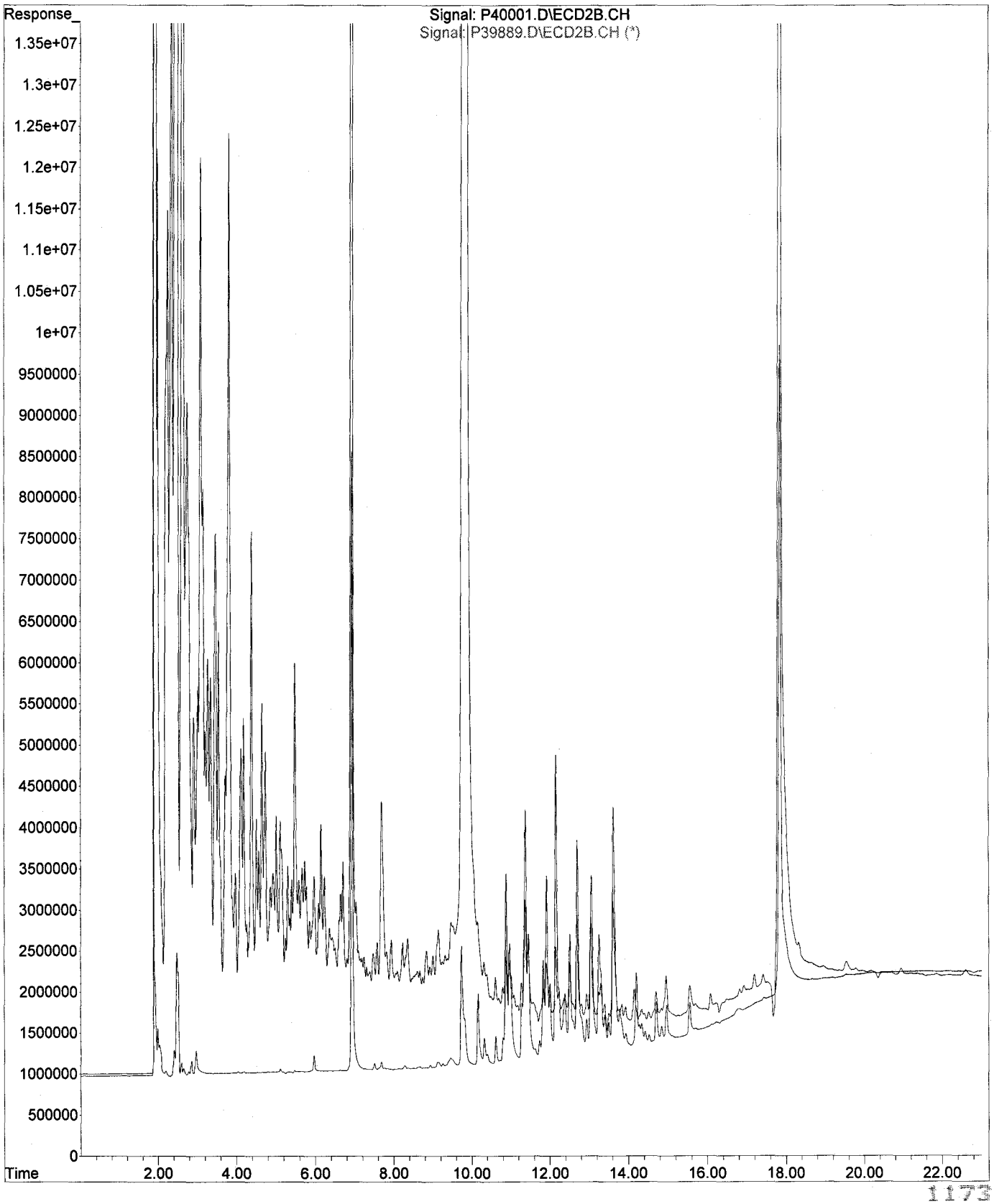




File :C:\MSDChem\1\data\P40001.D
Operator : KVR
Acquired : 28 Dec 2011 3:10 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP7
Misc Info : S-4465.01 50.1G/10.0ML
Vial Number: 7



File : C:\MSDChem\1\data\P40001.D
Operator : KVR
Acquired : 28 Dec 2011 3:10 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP7
Misc Info : S-4465.01 50.1G/10.0ML
Vial Number: 7



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.02

Sample wt/vol: 50.20 (g/mL) G Lab File ID: P40002

% Moisture: 44 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	7.0	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	7.0	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	7.0	U
11096-82-5	Aroclor-1260	35	U
37324-23-5	Aroclor-1262	35	U
11100-14-4	Aroclor-1268	35	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40002.D(Signal #1) P40002.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 15:41 (Signal #1); 12/28/11 16:11 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP8 (Sig #1); F4XP8 (Sig #2)
Misc : S-4465.02 50.2G/10.0ML (Sig #1); S-4465.02 50.2G/10.0ML (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:56:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1400.5E6	1278.5E6	56.468	60.655
	Spiked Amount 60.000	Range 18 - 90			Recovery =	94.11%#	101.09%#
8)	s Decachlorobiphen	18.82	17.84	1647.7E6	1890.5E6	94.194	100.031
	Spiked Amount 120.000				Recovery =	78.50%	83.36%
	Target Compounds						

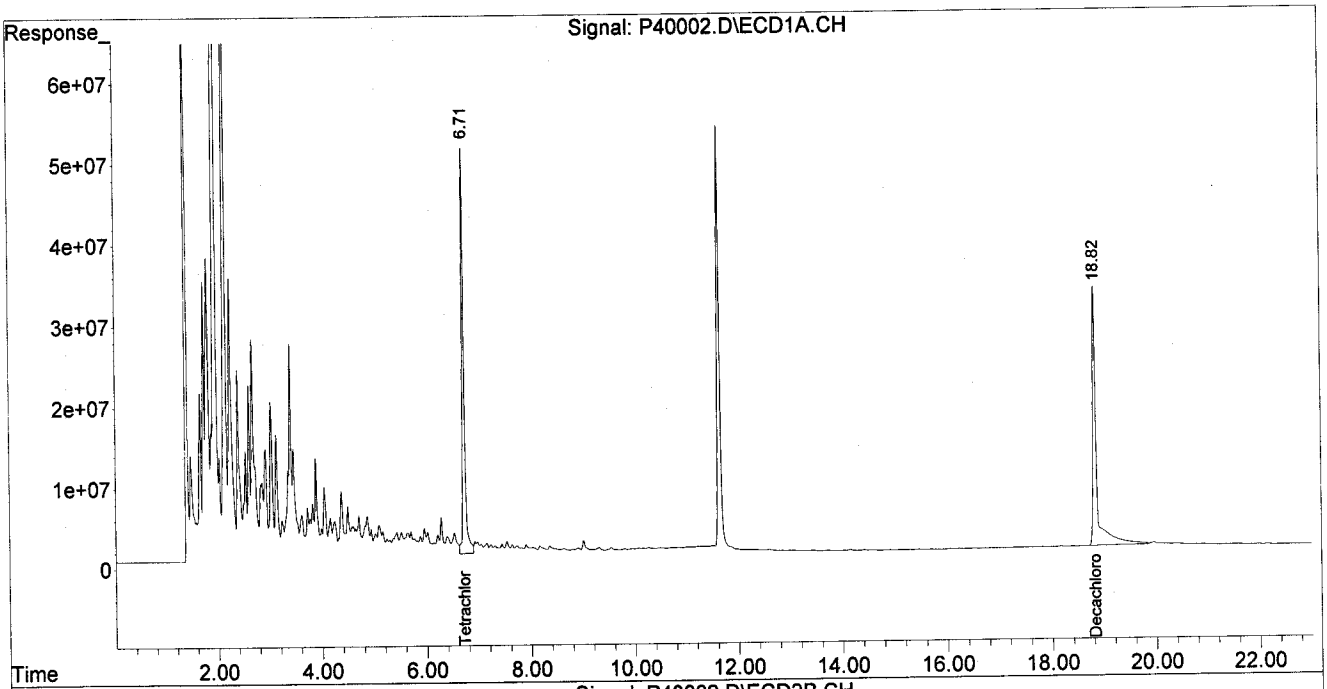
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

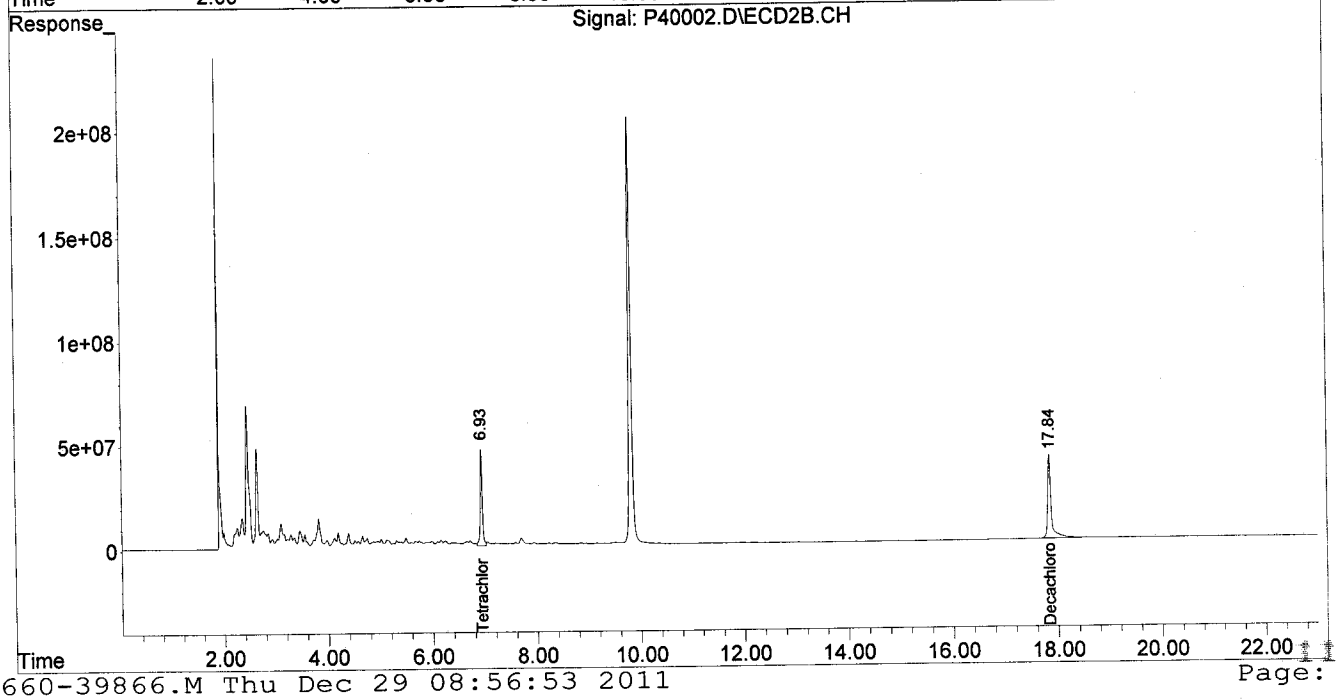
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40002.D(Signal #1) P40002.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 15:41 (Signal #1); 12/28/11 16:11 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP8 (Sig #1); F4XP8 (Sig #2)
Misc : S-4465.02 50.2G/10.0ML (Sig #1); S-4465.02 50.2G/10.0ML (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:56:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.03

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P40003

% Moisture: 40 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.3 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.6	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	6.6	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	5.9	JP
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40003.D(Signal #1) P40003.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:11 (Signal #1); 12/28/11 16:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 50.1G/10.0ML (Sig #1); S-4465.03 50.1G/10.0ML (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:57:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1173.3E6	1185.6E6	47.310	56.250
Spiked Amount 60.000	Range 18 - 90		Recovery =		78.85%	93.75%#
8) s Decachlorobiphen	18.82	17.83	1475.6E6	1862.2E6	84.353	98.530
Spiked Amount 120.000			Recovery =		70.29%	82.11%
Target Compounds						

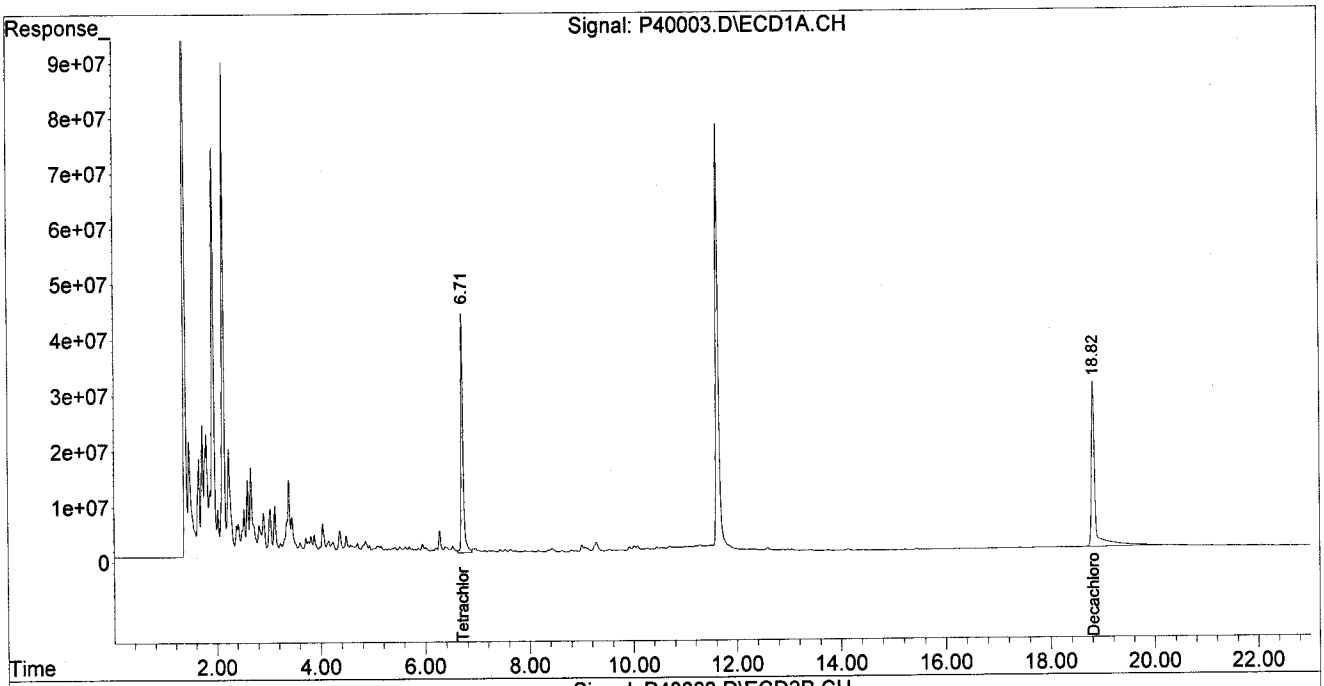
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

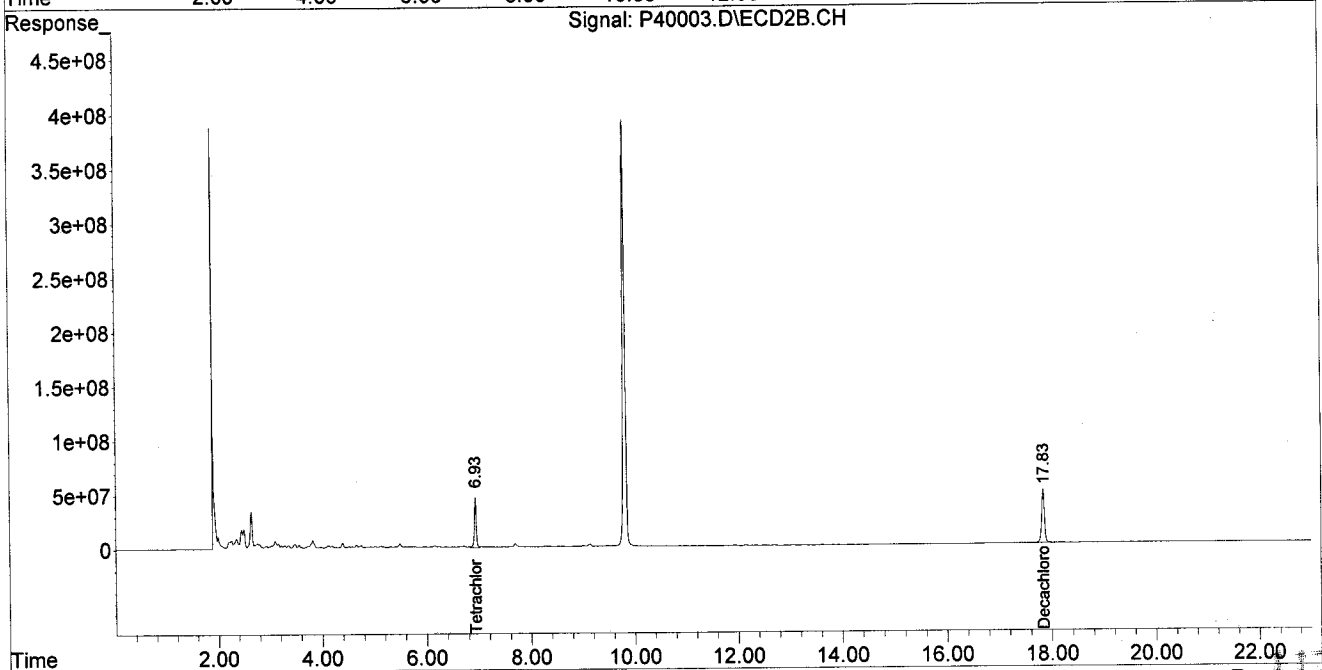
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40003.D(Signal #1) P40003.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:11 (Signal #1); 12/28/11 16:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 50.1G/10.0ML (Sig #1); S-4465.03 50.1G/10.0ML (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:57:26 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40003.D(Signal #1) P40003.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:11 (Signal #1); 12/28/11 16:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 50.1G/10.0ML (Sig #1); S-4465.03 50.1G/10.0ML (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:57:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1173.3E6	1192.8E6	46.218	57.886 #
	Spiked Amount 60.000	Range 18 - 90		Recovery =		77.03%	96.48%#
5)	s Decachlorobiphen	18.82	17.83	1475.6E6	1884.5E6	79.207	98.101
	Spiked Amount 120.000			Recovery =		66.01%	81.75%
	Target Compounds						
2)	AR1254-1	11.29	11.93	37666961	39307668	39.302	54.465 #
3)	AR1254-2	12.36	12.69	2382891	16678500	3.281m	15.063 #
4)	AR1254-3	13.40	13.05	8019968	20112555	10.581	21.405 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

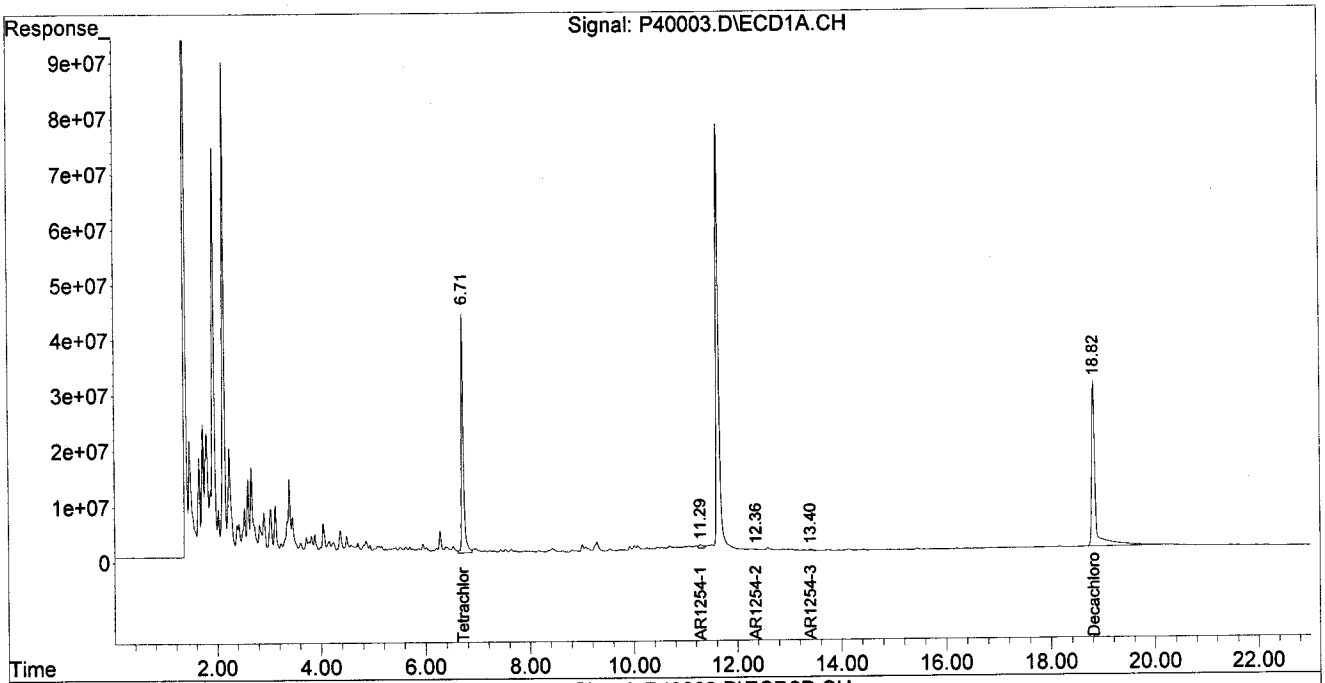
1188

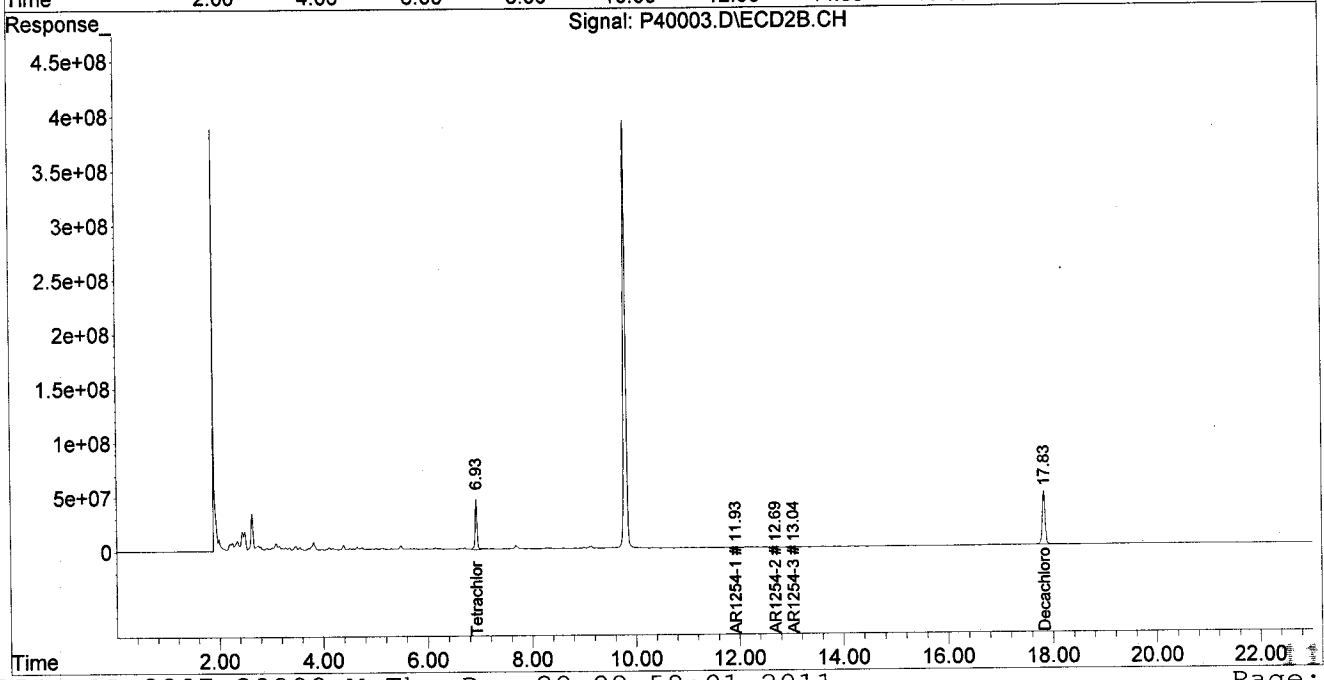
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40003.D(Signal #1) P40003.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:11 (Signal #1); 12/28/11 16:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 50.1G/10.0ML (Sig #1); S-4465.03 50.1G/10.0ML (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:57:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



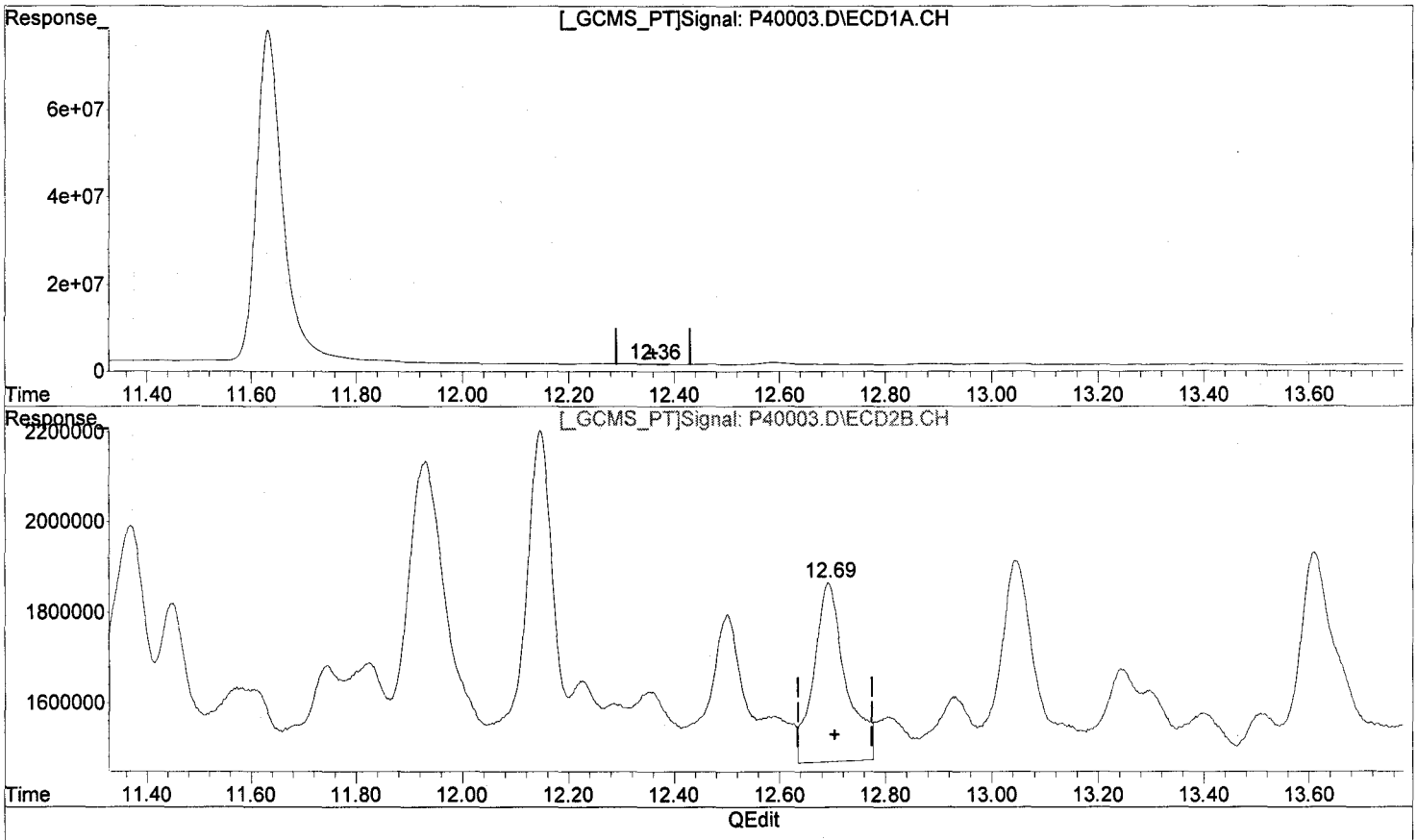


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40003.D(Signal #1) P40003.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:11 (Signal #1); 12/28/11 16:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP9 (Sig #1); F4XP9 (Sig #2)
Misc : S-4465.03 50.1G/10.0ML (Sig #1); S-4465.03 50.1G/10.0ML (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:57:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

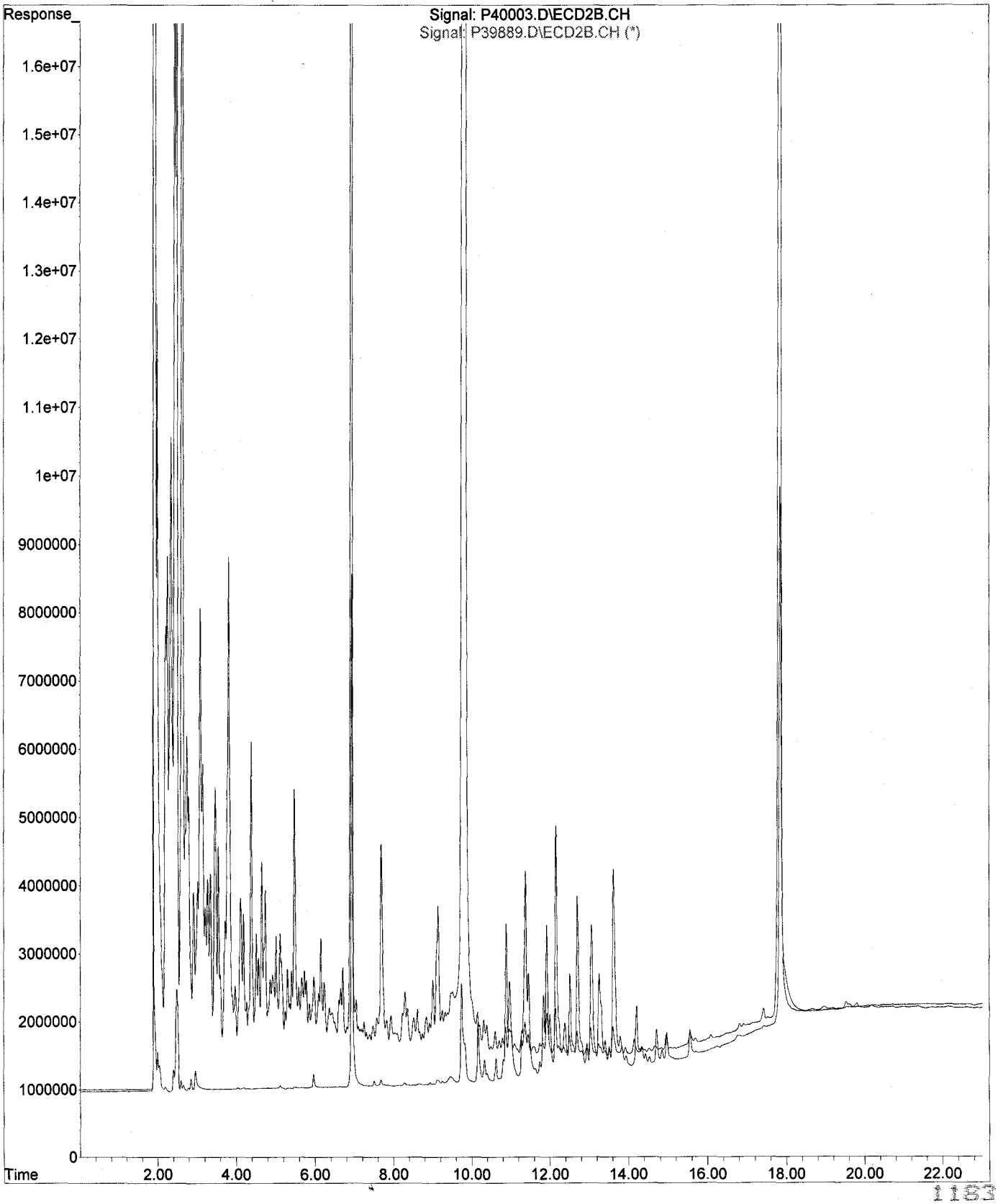


(3) AR1254-2
12.36min 3.281ng/mL m
response 2382891

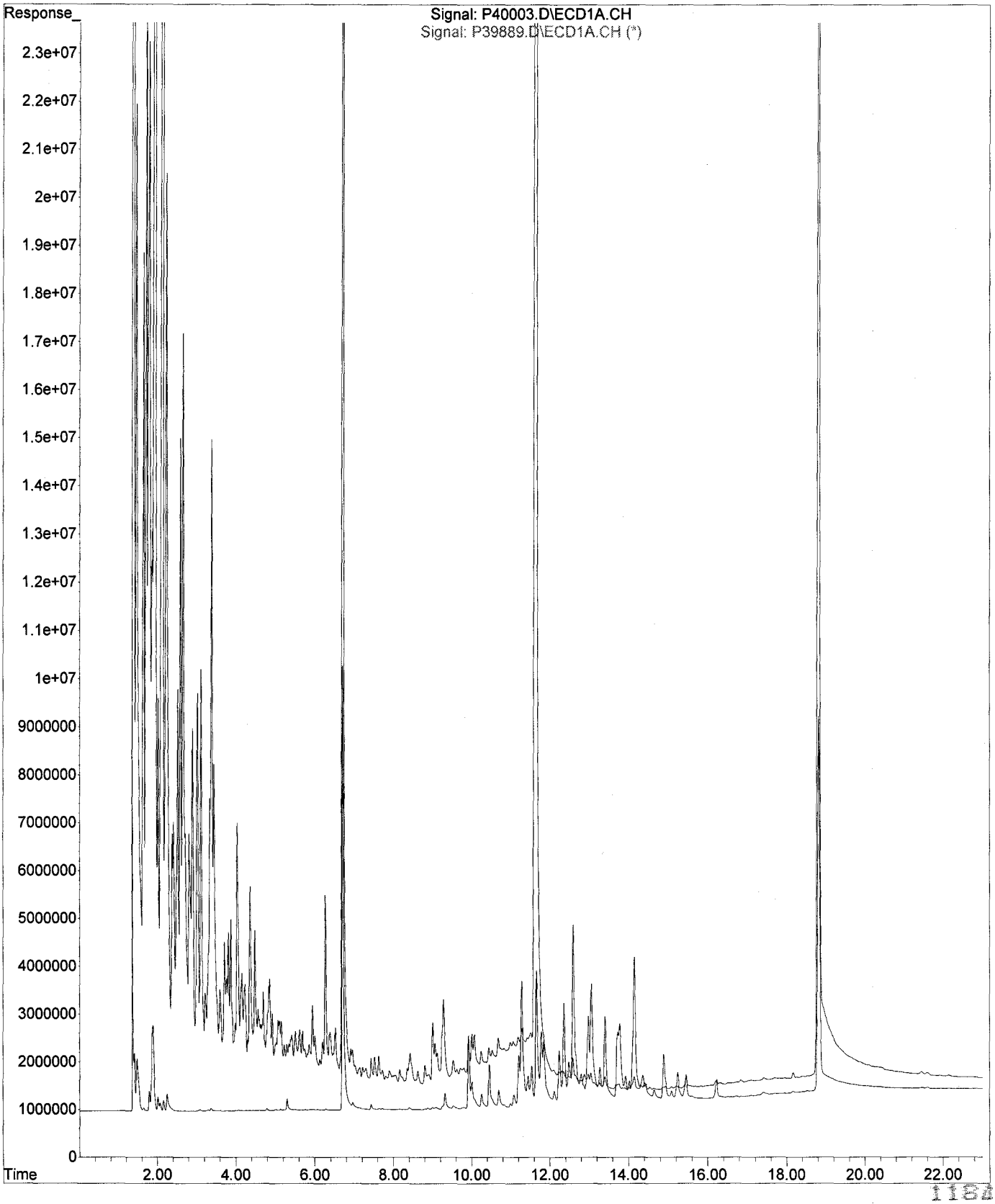
(3) AR1254-2 #2
12.69min 15.063ng/mL
response 16678500

(+) = Expected Retention Time

File :C:\MSDChem\1\data\P40003.D
Operator : KVR
Acquired : 28 Dec 2011 4:11 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP9
Misc Info : S-4465.03 50.1G/10.0ML
Vial Number: 9



File : C:\MSDChem\1\data\P40003.D
Operator : KVR
Acquired : 28 Dec 2011 4:11 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XP9
Misc Info : S-4465.03 50.1G/10.0ML
Vial Number: 9



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.01

Sample wt/vol: 51.10 (g/mL) G Lab File ID: P40005

% Moisture: 55 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.1 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	8.6	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	8.6	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	20	
11096-82-5	Aroclor-1260	43	U
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40005.D(Signal #1) P40005.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:12 (Signal #1); 12/28/11 17:43 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ0 (Sig #1); F4XQ0 (Sig #2)
Misc : S-4476.01 50.1G/10.0ML (Sig #1); S-4476.01 50.1G/10.0ML (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:00:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1542.5E6	1417.5E6	62.193	67.249
Spiked Amount 60.000	Range 18 - 90		Recovery =		103.65%#	112.08%#
8) s Decachlorobiphen	18.82	17.84	1787.2E6	2258.8E6	102.165	119.517
Spiked Amount 120.000			Recovery =		85.14%	99.60%
Target Compounds						

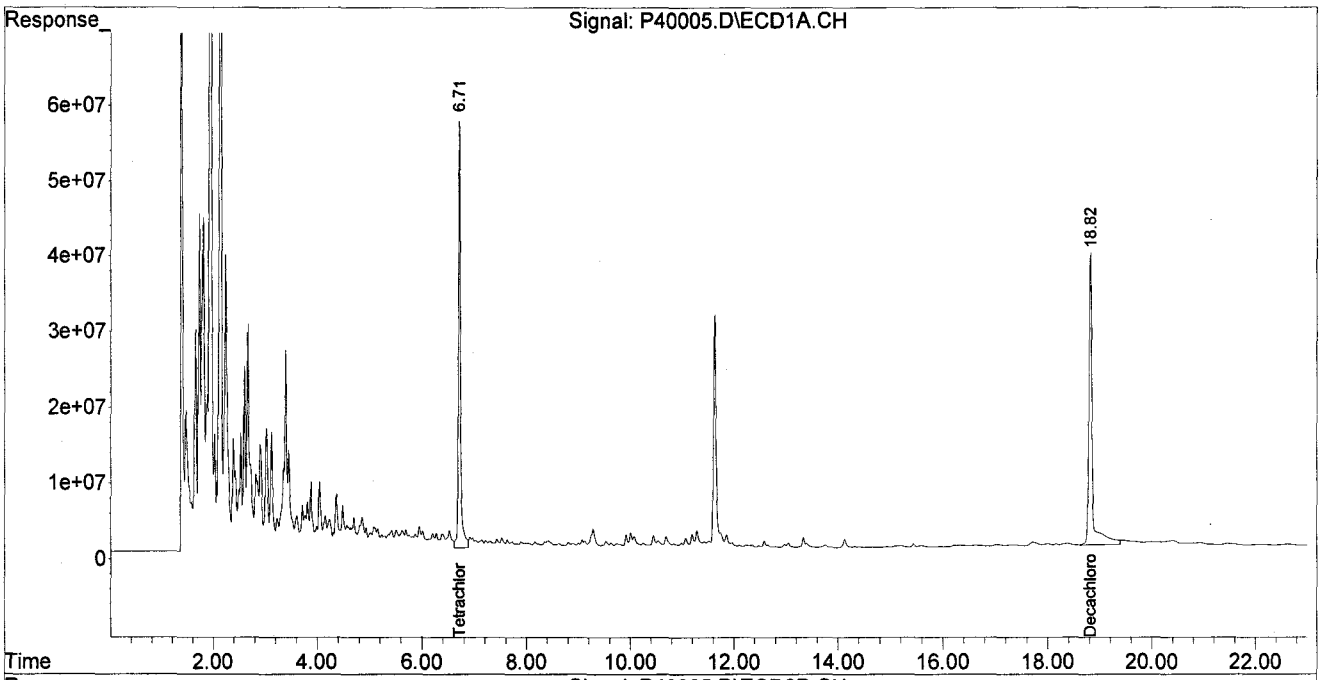
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

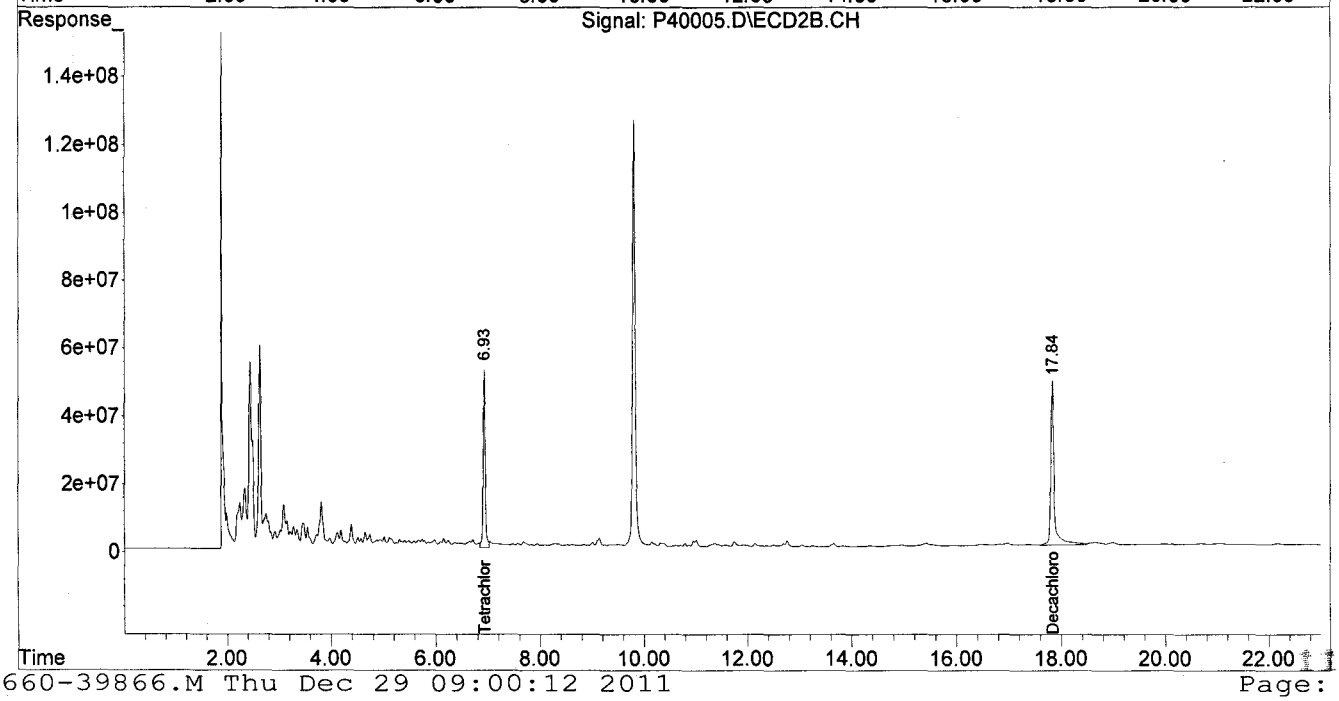
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40005.D(Signal #1) P40005.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:12 (Signal #1); 12/28/11 17:43 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ0 (Sig #1); F4XQ0 (Sig #2)
Misc : S-4476.01 50.1G/10.0ML (Sig #1); S-4476.01 50.1G/10.0ML (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:00:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40005.D(Signal #1) P40005.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:12 (Signal #1); 12/28/11 17:43 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ0 (Sig #1); F4XQ0 (Sig #2)
Misc : S-4476.01 50.1G/10.0ML (Sig #1); S-4476.01 50.1G/10.0ML (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:59:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1542.5E6	1428.5E6	60.759	69.323
	Spiked Amount 60.000	Range 18 - 90		Recovery =		101.27%#	115.54%#
5)	s Decachlorobiphen	18.82	17.84	1787.2E6	2368.6E6	95.932	123.301 #
	Spiked Amount 120.000			Recovery =		79.94%	102.75%
	Target Compounds						
2)	AR1254-1	11.29	11.92	89894585	59105527	93.797	81.897
3)	AR1254-2	12.35	12.70	11524248	43286746	15.866	39.093 #
4)	AR1254-3	13.40	13.05	22498740	33679641	29.684	35.844

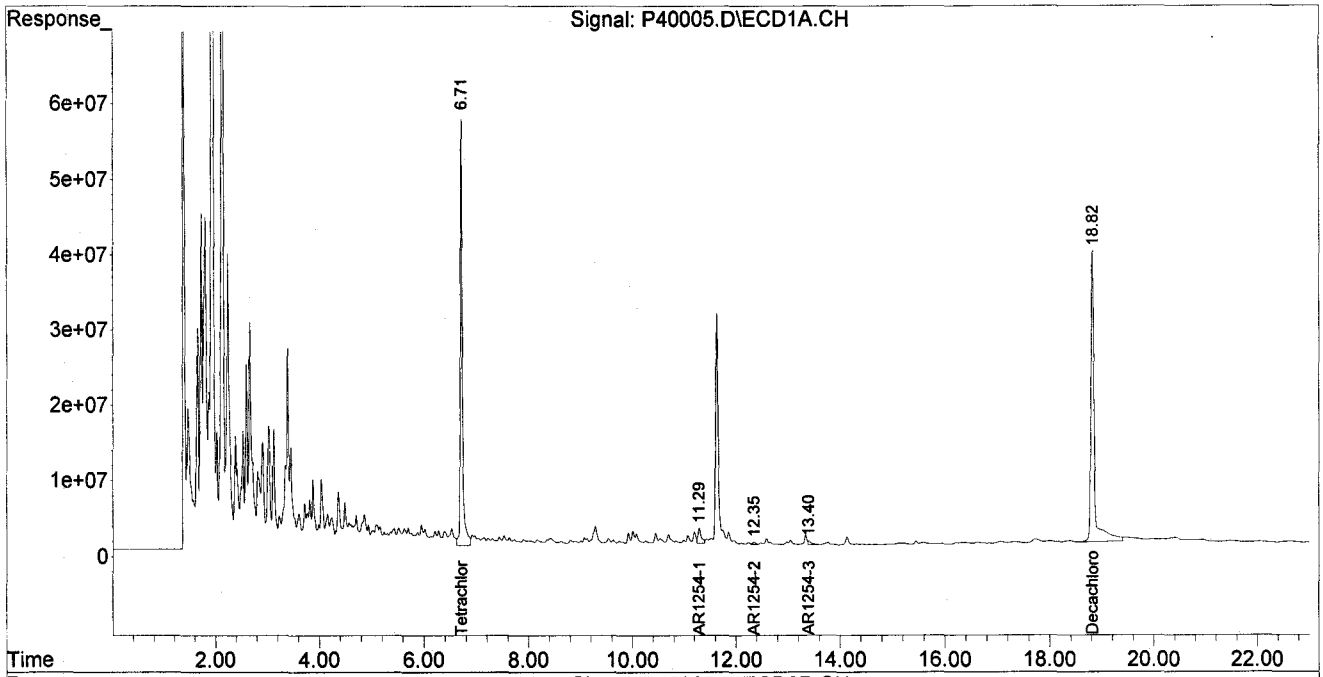
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

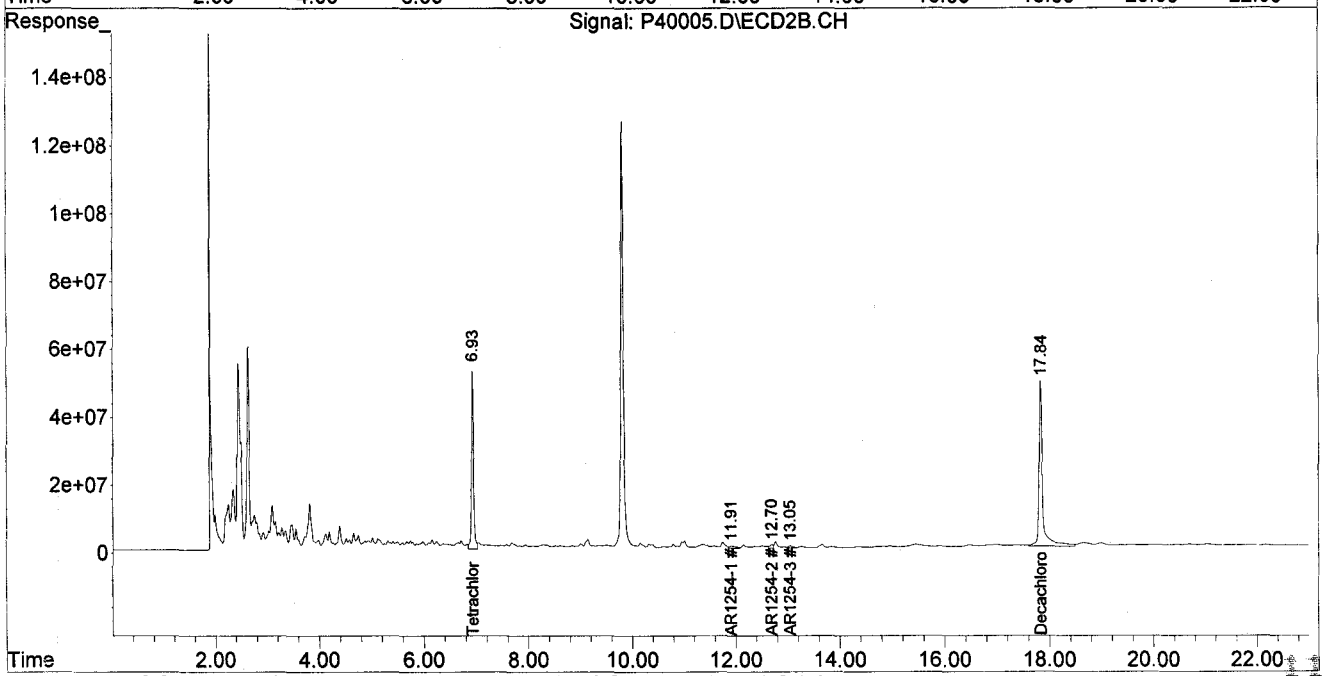
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40005.D(Signal #1) P40005.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:12 (Signal #1); 12/28/11 17:43 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ0 (Sig #1); F4XQ0 (Sig #2)
Misc : S-4476.01 50.1G/10.0ML (Sig #1); S-4476.01 50.1G/10.0ML (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

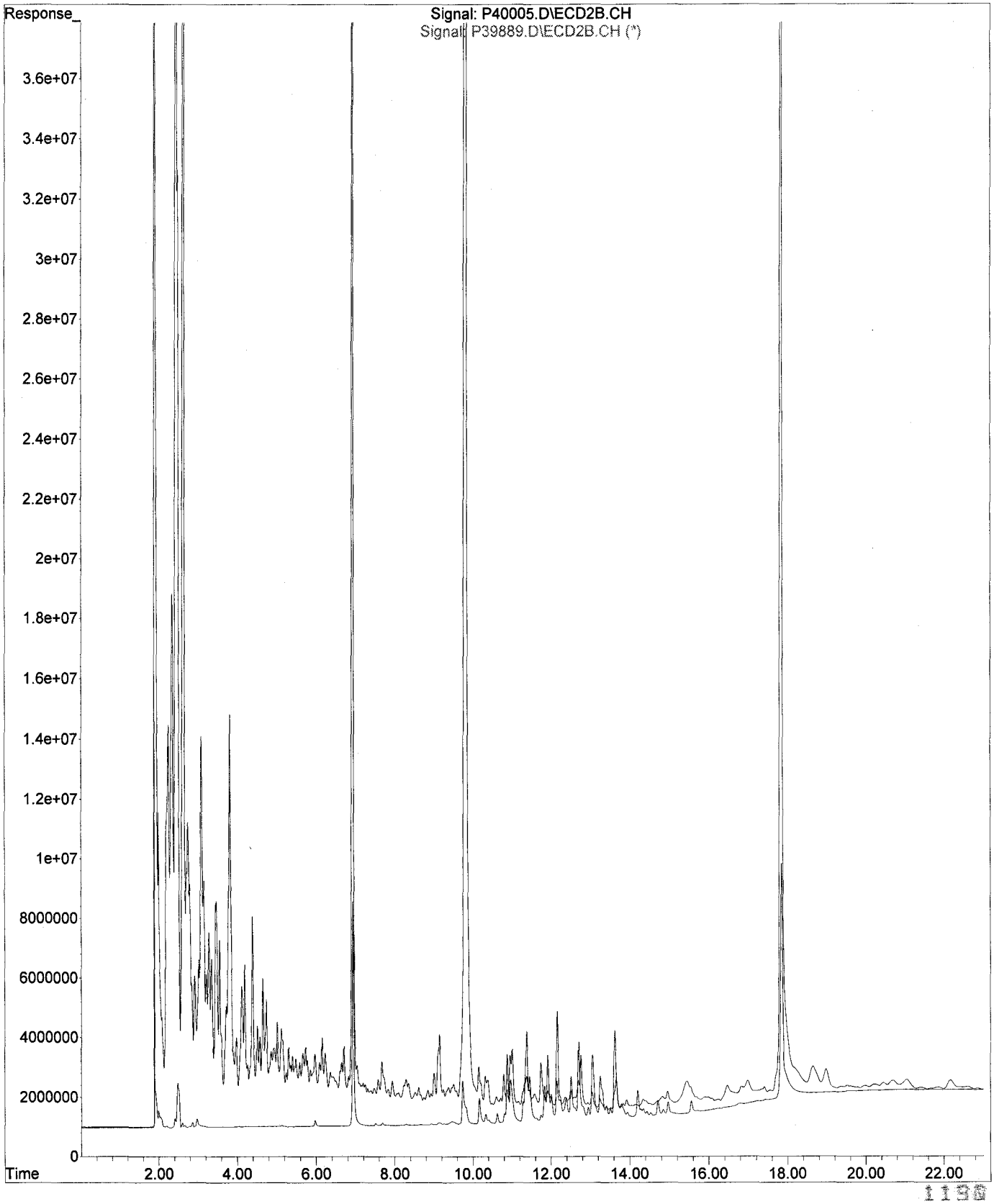
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:59:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

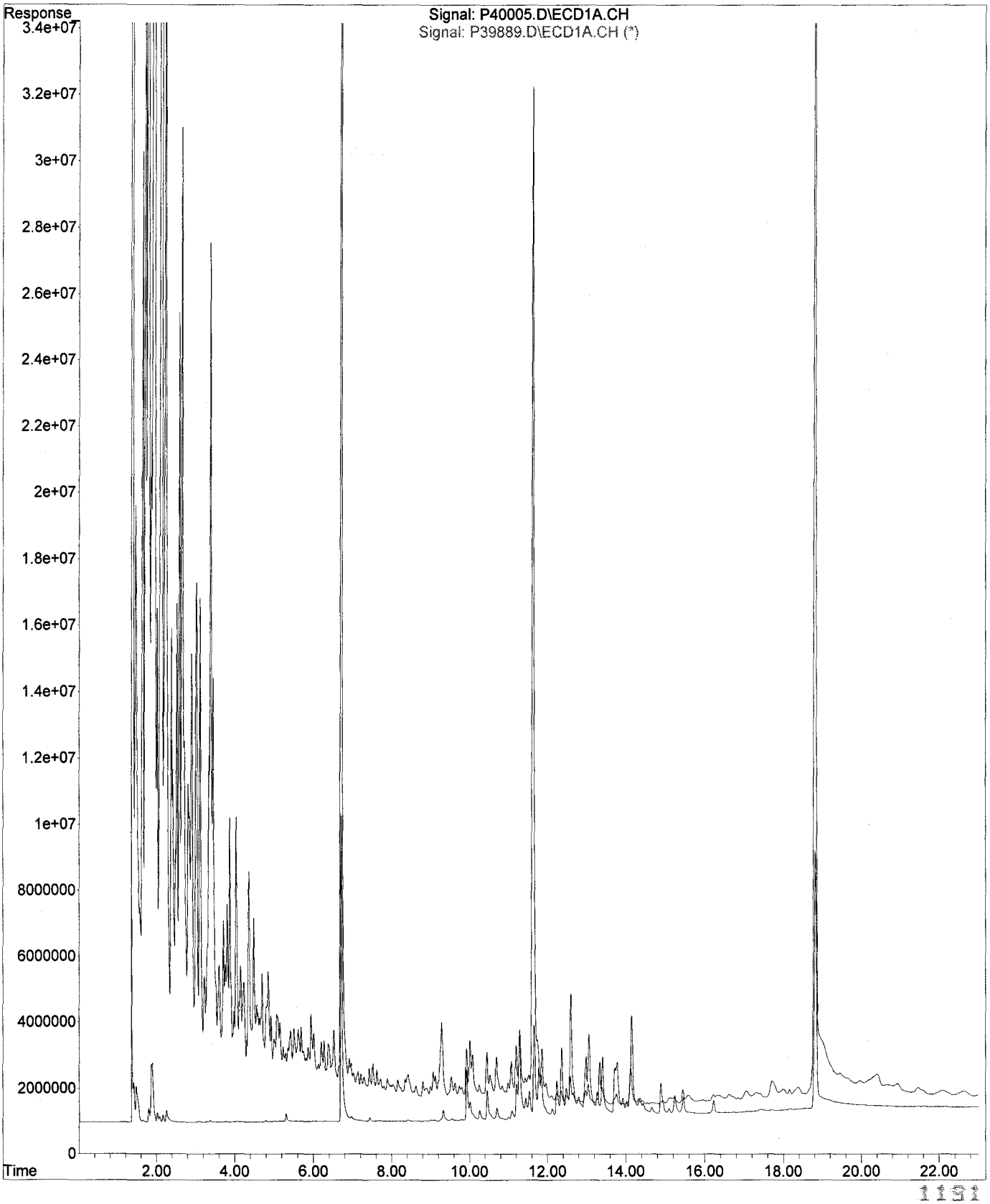




File :C:\MSDChem\1\data\P40005.D
Operator : KVR
Acquired : 28 Dec 2011 5:12 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ0
Misc Info : S-4476.01 50.1G/10.0ML
Vial Number: 11



File :C:\MSDChem\1\data\P40005.D
Operator : KVR
Acquired : 28 Dec 2011 5:12 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ0
Misc Info : S-4476.01 50.1G/10.0ML
Vial Number: 11



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.02

Sample wt/vol: 51.30 (g/mL) G Lab File ID: P40006

% Moisture: 59 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	9.4	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	9.4	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	26	P
11096-82-5	Aroclor-1260	47	U
37324-23-5	Aroclor-1262	47	U
11100-14-4	Aroclor-1268	47	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40006.D(Signal #1) P40006.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:43 (Signal #1); 12/28/11 18:13 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 50.3G/10.0ML (Sig #1); S-4476.02 50.3G/10.0ML (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:01:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1345.7E6	1368.0E6	54.260	64.901
Spiked Amount 60.000	Range 18 - 90			Recovery =	90.43%#	108.17%#
8) s Decachlorobiphen	18.82	17.84	1883.2E6	2207.1E6	107.655	116.778
Spiked Amount 120.000				Recovery =	89.71%	97.32%
Target Compounds						

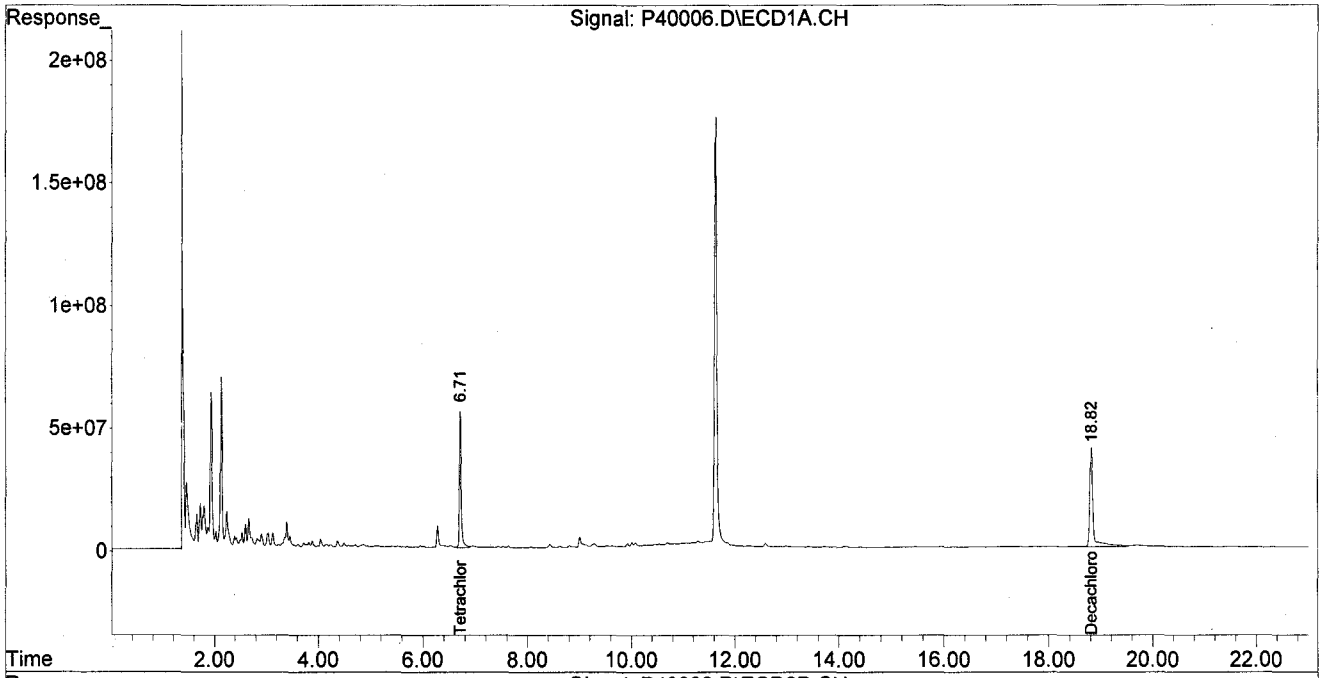
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

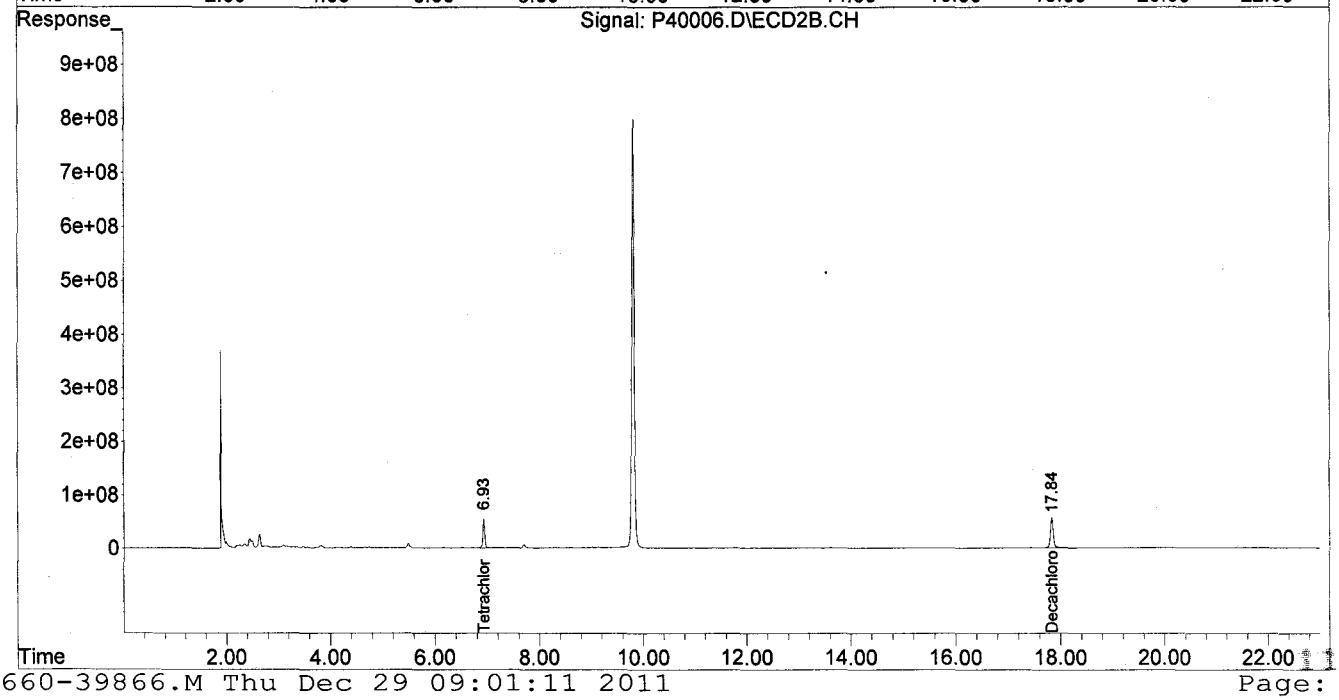
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40006.D(Signal #1) P40006.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:43 (Signal #1); 12/28/11 18:13 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 50.3G/10.0ML (Sig #1); S-4476.02 50.3G/10.0ML (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:01:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40006.D(Signal #1) P40006.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:43 (Signal #1); 12/28/11 18:13 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 50.3G/10.0ML (Sig #1); S-4476.02 50.3G/10.0ML (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:01:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1345.7E6	1409.1E6	53.008	68.379 #
	Spiked Amount 60.000	Range 18 - 90		Recovery =		88.35%	113.97%#
5)	s Decachlorobiphen	18.82	17.84	1883.2E6	2204.3E6	101.087	114.752
	Spiked Amount 120.000			Recovery =		84.24%	95.63%
	Target Compounds						
2)	AR1254-1	11.29	11.92	180.3E6	62949254	188.096	87.223 #
3)	AR1254-2	12.35	12.70	8042956	30747654	11.073m	27.769 #
4)	AR1254-3	13.40	13.06	8575810	47332322	11.314	50.374 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

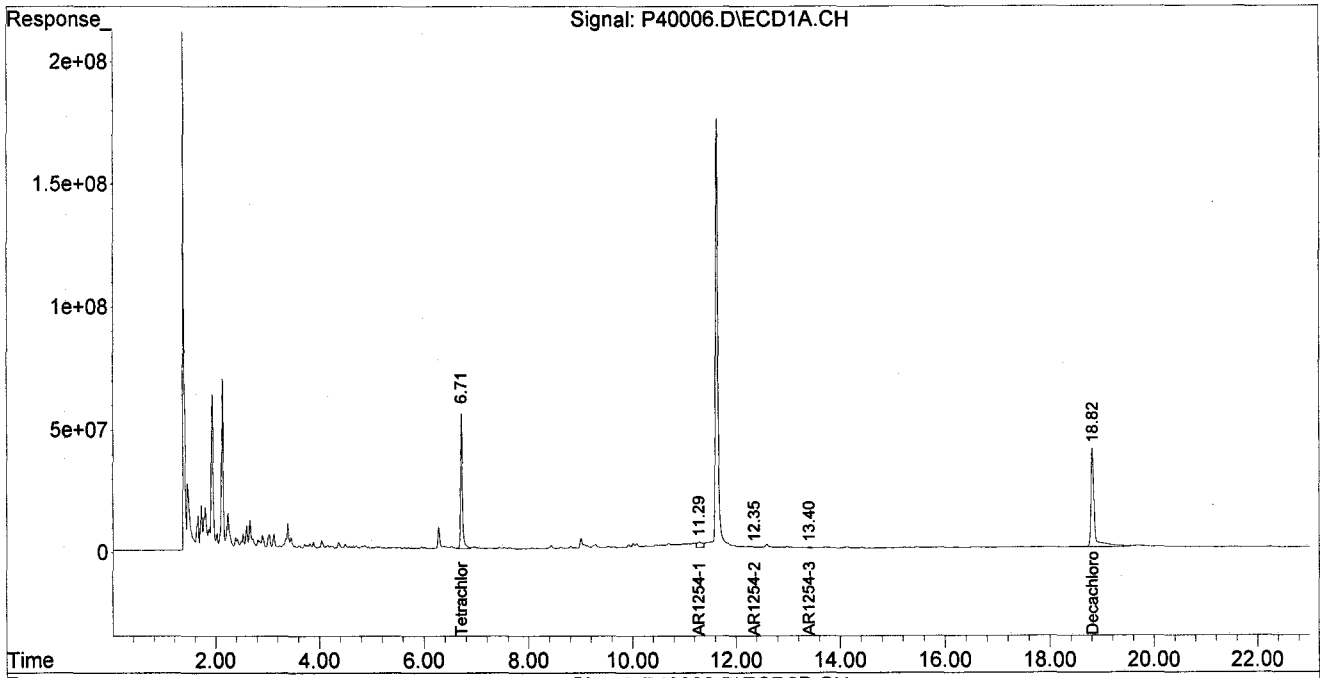
1195

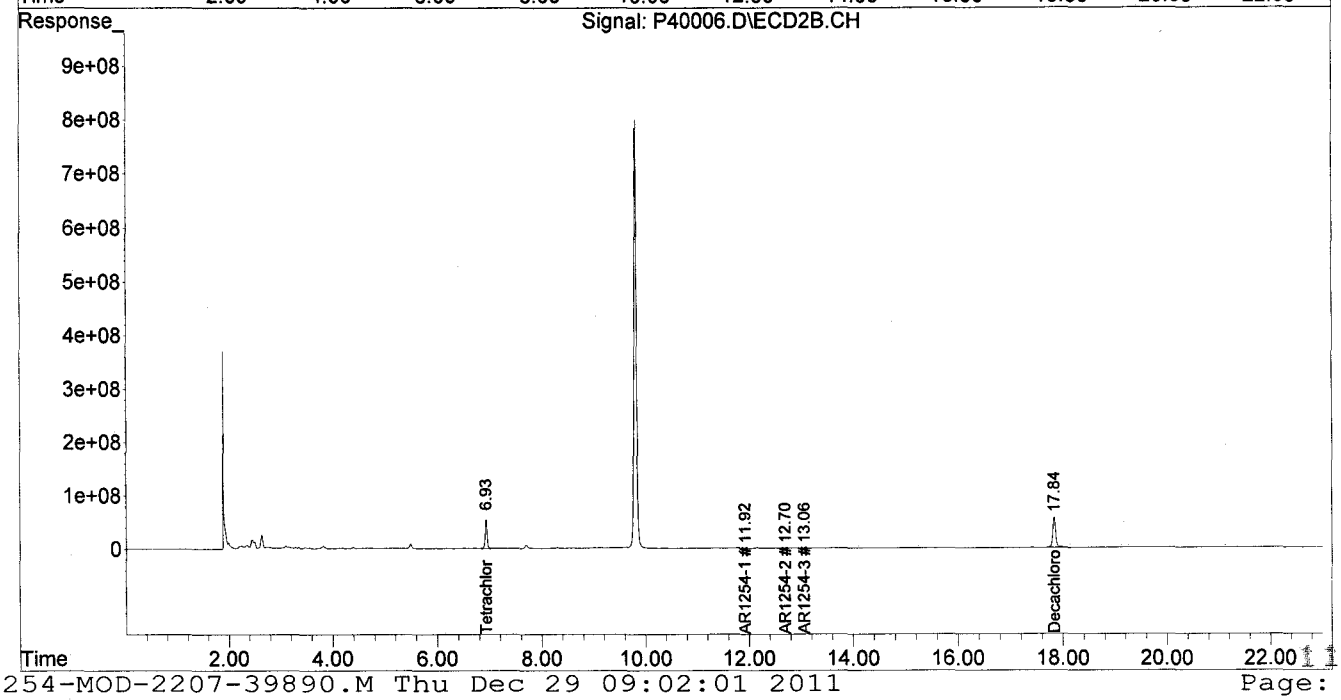
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40006.D(Signal #1) P40006.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:43 (Signal #1); 12/28/11 18:13 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 50.3G/10.0ML (Sig #1); S-4476.02 50.3G/10.0ML (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:01:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



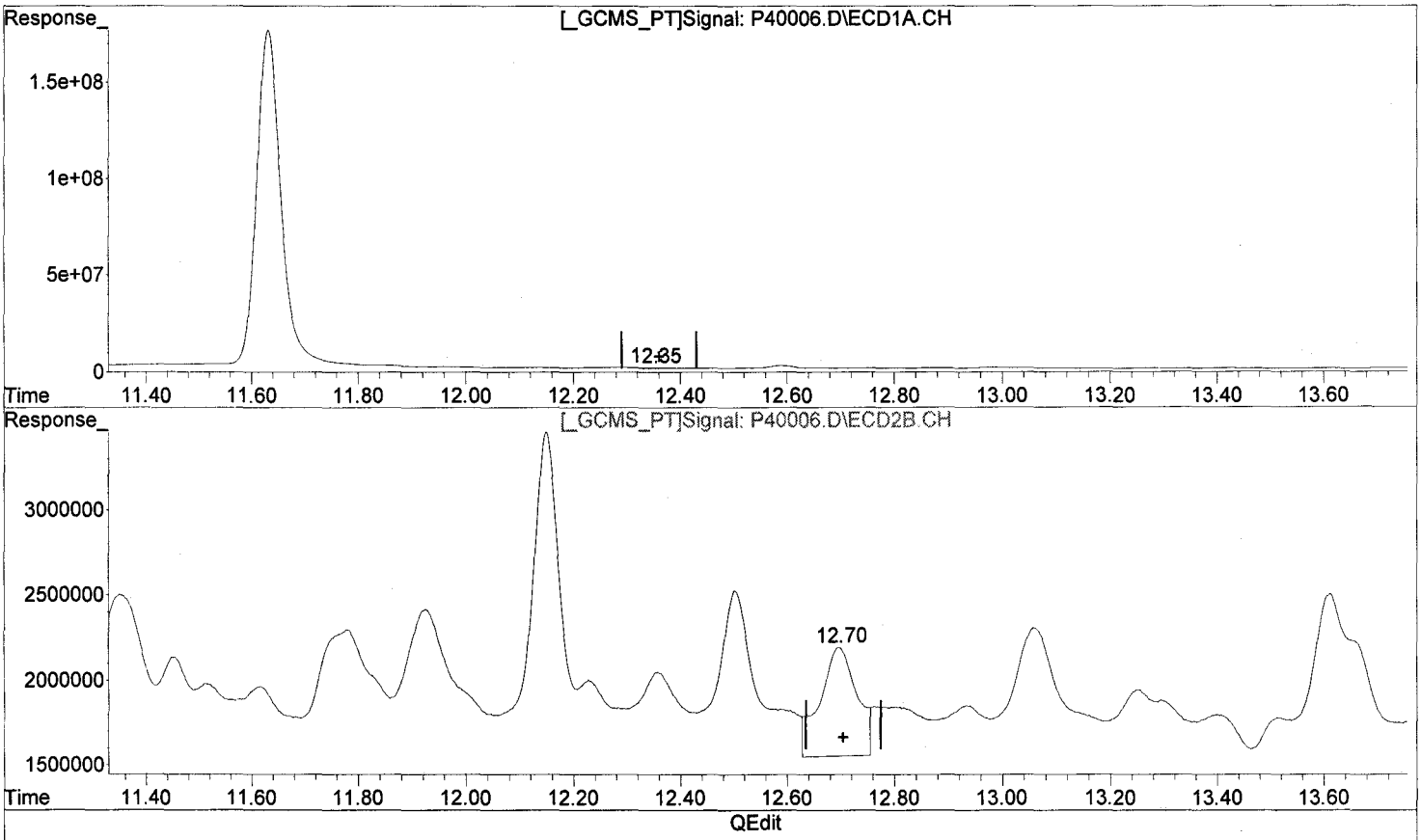


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40006.D(Signal #1) P40006.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 17:43 (Signal #1); 12/28/11 18:13 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ1 (Sig #1); F4XQ1 (Sig #2)
Misc : S-4476.02 50.3G/10.0ML (Sig #1); S-4476.02 50.3G/10.0ML (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:01:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

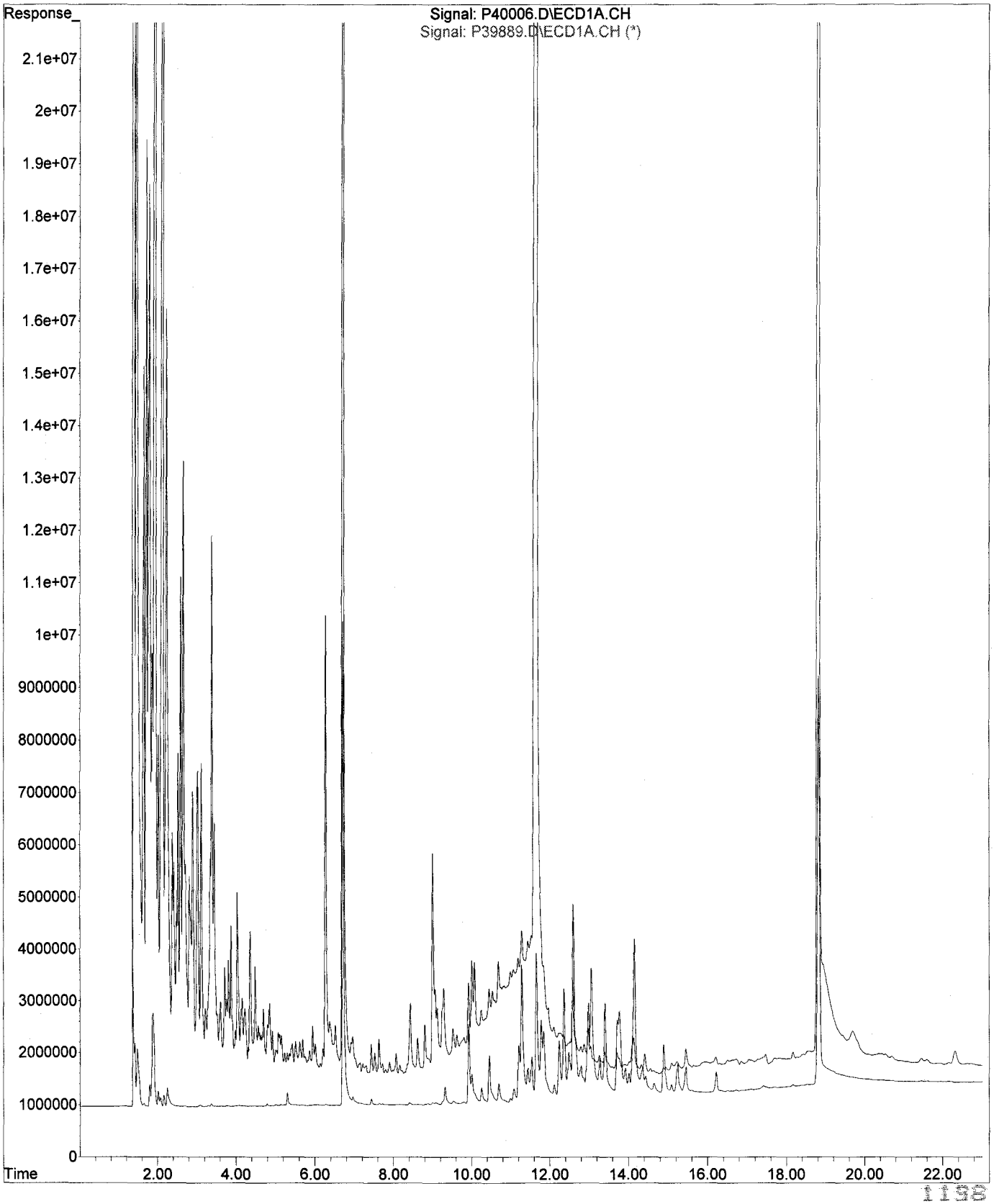


(3) AR1254-2
12.35min 11.073ng/mL m
response 8042956

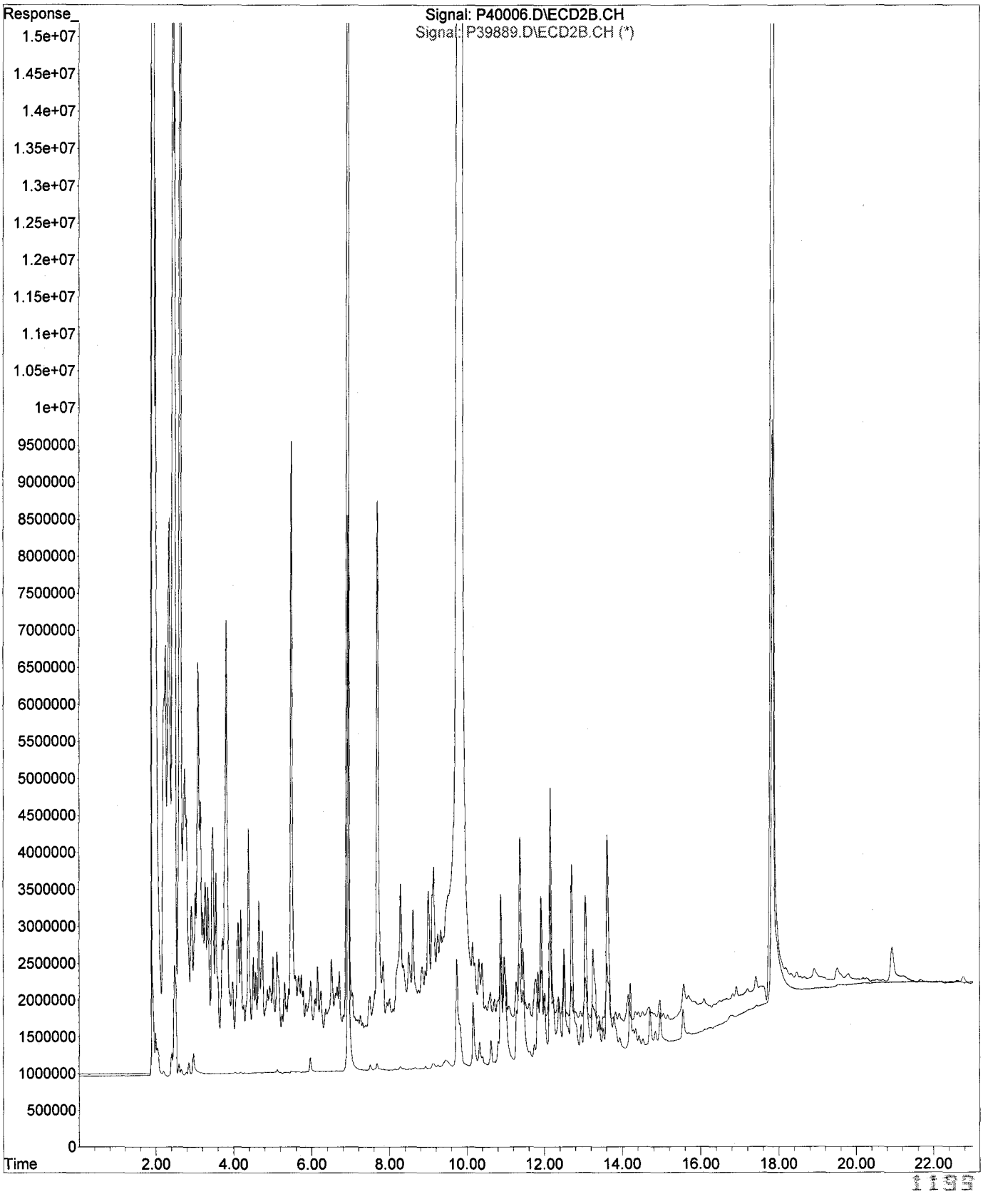
(3) AR1254-2 #2
12.70min 27.769ng/mL
response 30747654

(+) = Expected Retention Time

File :C:\MSDChem\1\data\P40006.D
Operator : KVR
Acquired : 28 Dec 2011 5:43 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ1
Misc Info : S-4476.02 50.3G/10.0ML
Vial Number: 12



File :C:\MSDChem\1\data\P40006.D
Operator : KVR
Acquired : 28 Dec 2011 5:43 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ1
Misc Info : S-4476.02 50.3G/10.0ML
Vial Number: 12



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.03

Sample wt/vol: 50.00 (g/mL) G Lab File ID: P40007

% Moisture: 42 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.6 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	6.8	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	29	P
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	26	
11096-82-5	Aroclor-1260	34	U
37324-23-5	Aroclor-1262	34	U
11100-14-4	Aroclor-1268	34	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40007.D(Signal #1) P40007.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:13 (Signal #1); 12/28/11 18:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 50.1G/10.0ML (Sig #1); S-4476.03 50.1G/10.0ML (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:02:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1149.6E6	1157.3E6	46.351	54.907
	Spiked Amount 60.000	Range 18 - 90		Recovery =		77.25%	91.51%#
8)	s Decachlorobiphen	18.82	17.84	1549.2E6	1843.5E6	88.561	97.539
	Spiked Amount 120.000			Recovery =		73.80%	81.28%
	Target Compounds						

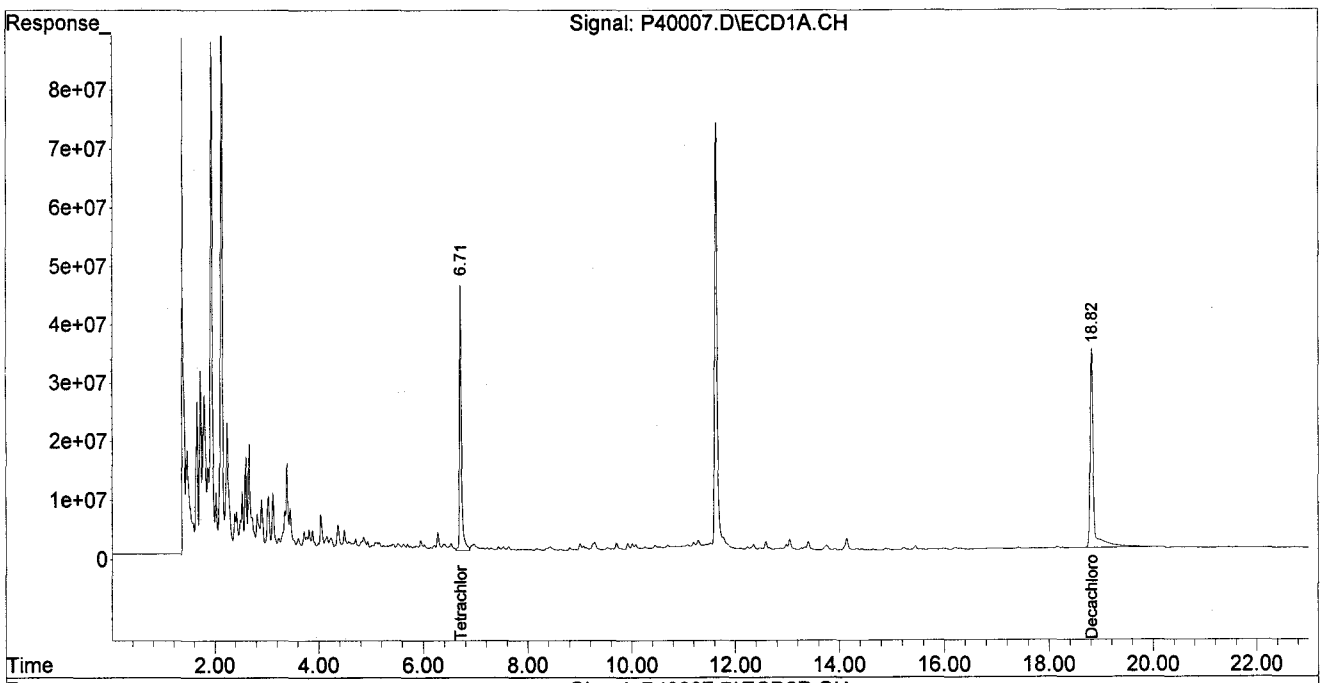
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

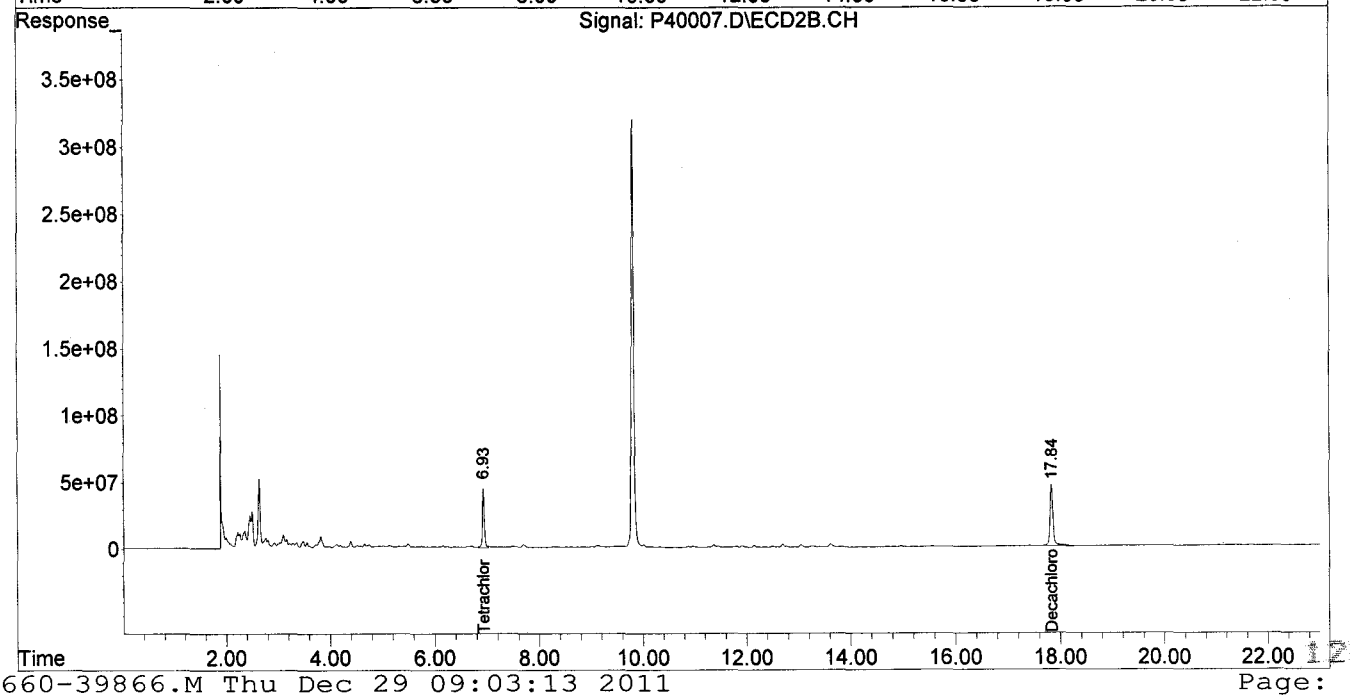
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40007.D(Signal #1) P40007.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:13 (Signal #1); 12/28/11 18:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 50.1G/10.0ML (Sig #1); S-4476.03 50.1G/10.0ML (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:02:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40007.D(Signal #1) P40007.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:13 (Signal #1); 12/28/11 18:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 50.1G/10.0ML (Sig #1); S-4476.03 50.1G/10.0ML (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:03:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.93	1149.6E6	1189.8E6	44.701	53.583	
	Spiked Amount 60.000	Range 18 - 90			Recovery =	74.50%	89.31%	
5)	s Decachlorobiphen	18.82	17.84	1549.2E6	1829.7E6	94.348	146.256	#
	Spiked Amount 120.000				Recovery =	78.62%	121.88%	
	Target Compounds							
2)	AR1242-1	9.92	10.32	43522639	28984025	144.013	106.398	#
3)	AR1242-2	10.45	10.39	53419507	25417105	130.776	60.798	#
4)	AR1242-3	11.08	10.79	52291000	19353660	199.207	86.507	#

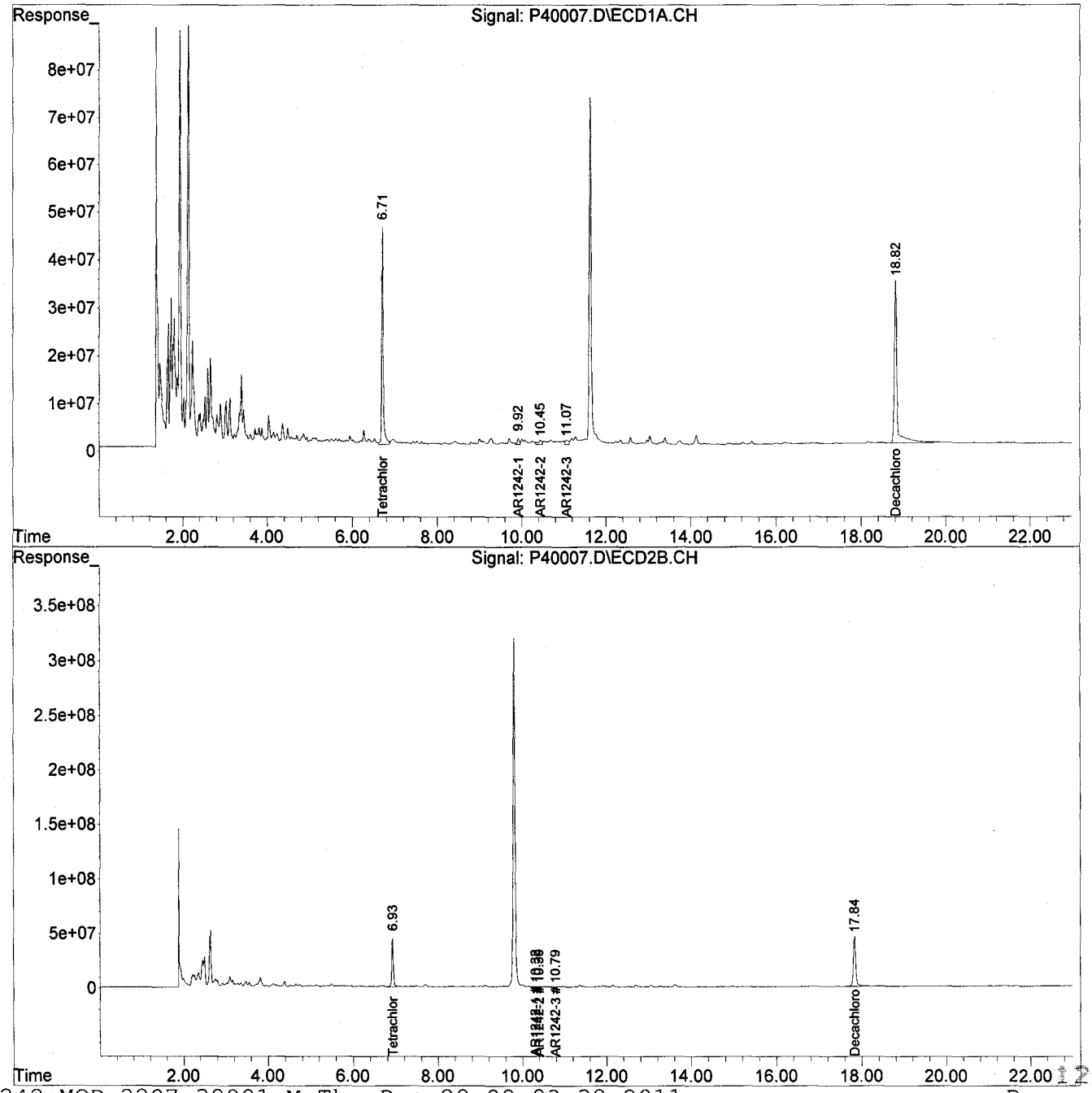
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

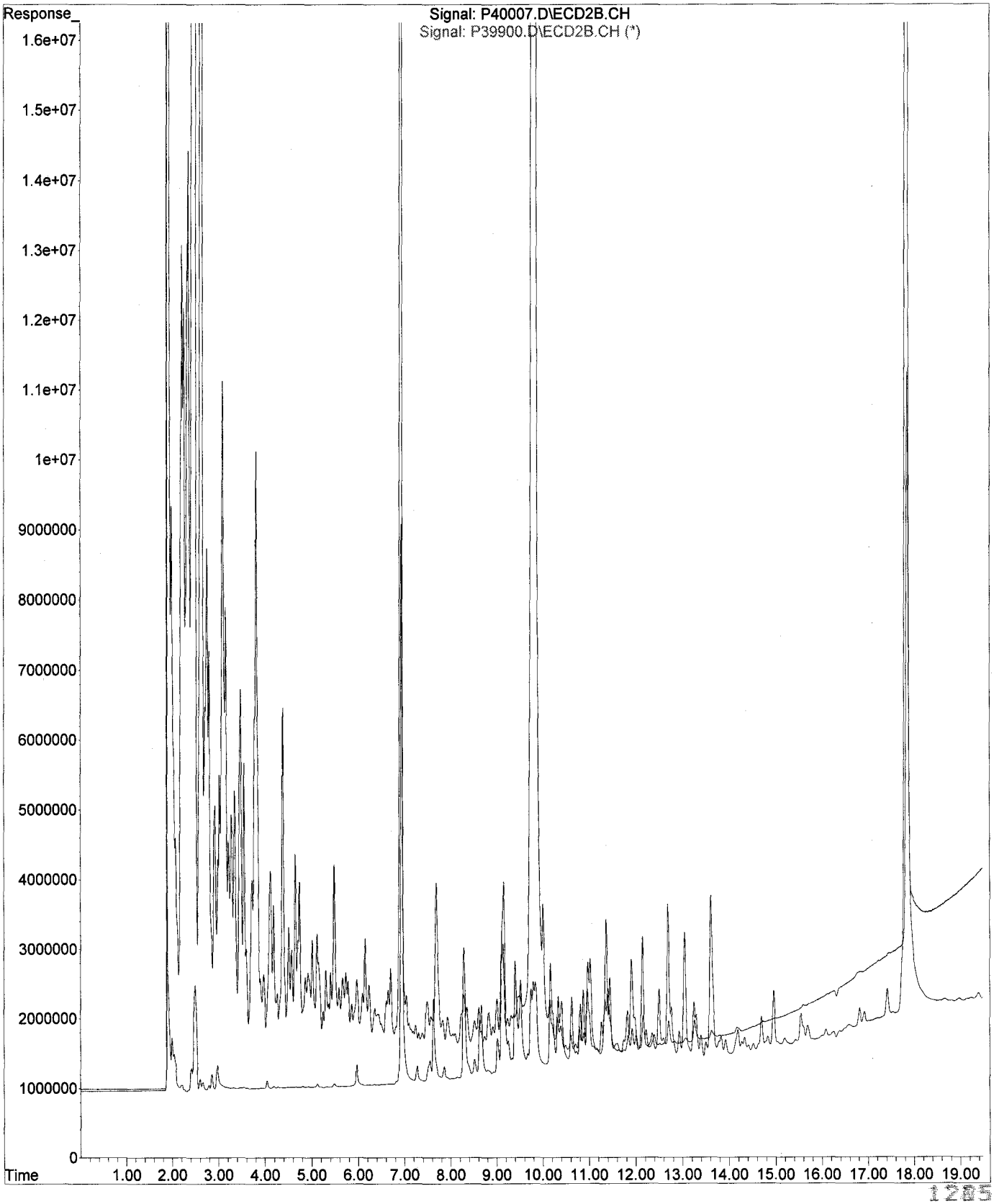
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40007.D(Signal #1) P40007.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:13 (Signal #1); 12/28/11 18:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 50.1G/10.0ML (Sig #1); S-4476.03 50.1G/10.0ML (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:03:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

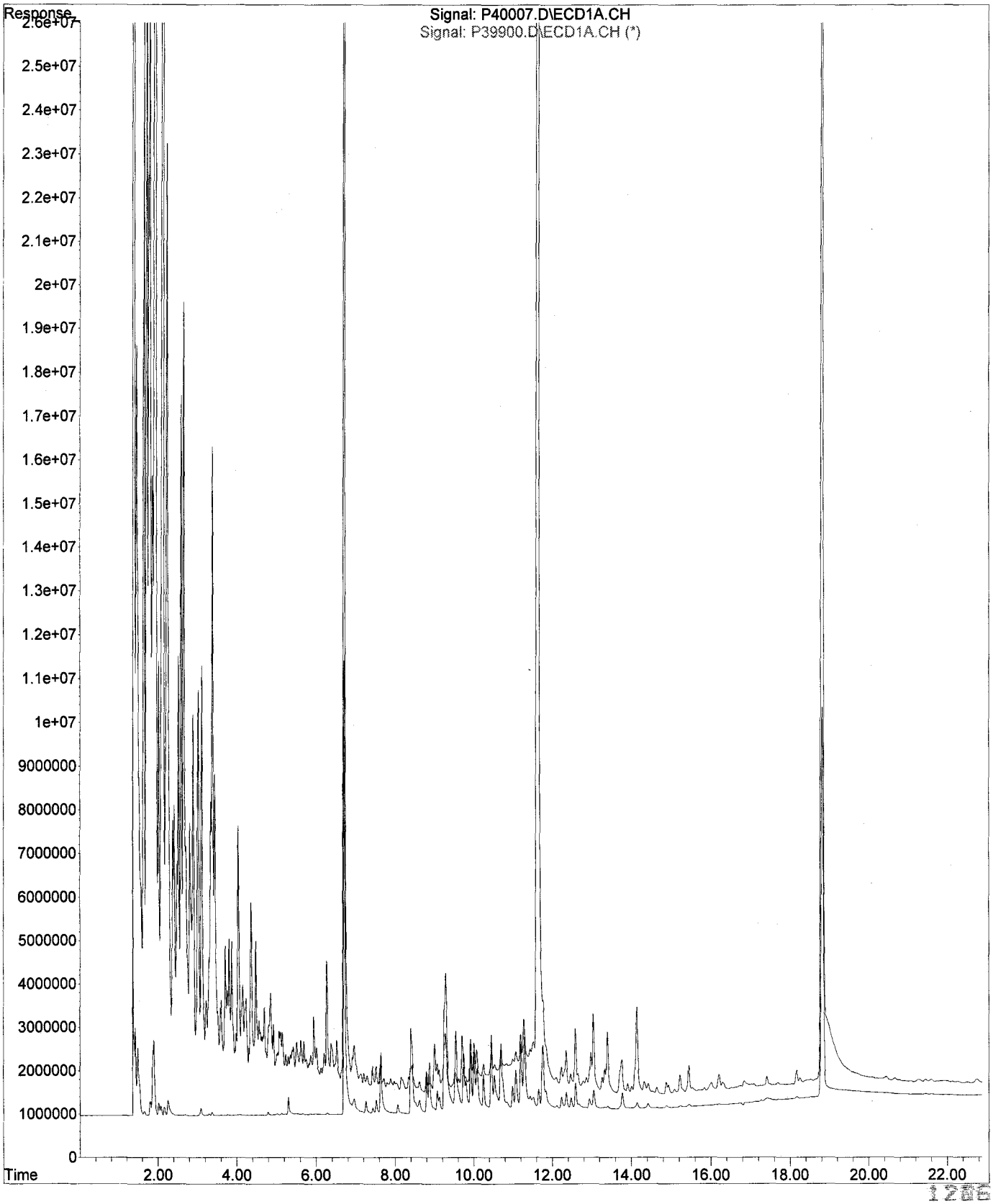
Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



File :C:\MSDChem\1\data\P40007.D
Operator : KVR
Acquired : 28 Dec 2011 6:13 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ2
Misc Info : S-4476.03 50.1G/10.0ML
Vial Number: 13



File :C:\MSDChem\1\data\P40007.D
Operator : KVR
Acquired : 28 Dec 2011 6:13 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ2
Misc Info : S-4476.03 50.1G/10.0ML
Vial Number: 13



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40007.D(Signal #1) P40007.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:13 (Signal #1); 12/28/11 18:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 50.1G/10.0ML (Sig #1); S-4476.03 50.1G/10.0ML (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:03:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1149.6E6	1189.8E6	45.282	57.739 #
	Spiked Amount 60.000	Range 18 - 90		Recovery =		75.47%	96.23%#
5)	s Decachlorobiphen	18.82	17.84	1549.2E6	1829.7E6	83.158	95.250
	Spiked Amount 120.000			Recovery =		69.30%	79.38%
	Target Compounds						
2)	AR1254-1	11.29	11.92	97245545	59973945	101.467	83.100
3)	AR1254-2	12.35	12.69	47430637	76708674	65.301	69.278
4)	AR1254-3	13.40	13.05	53178089	73284237	70.160	77.994

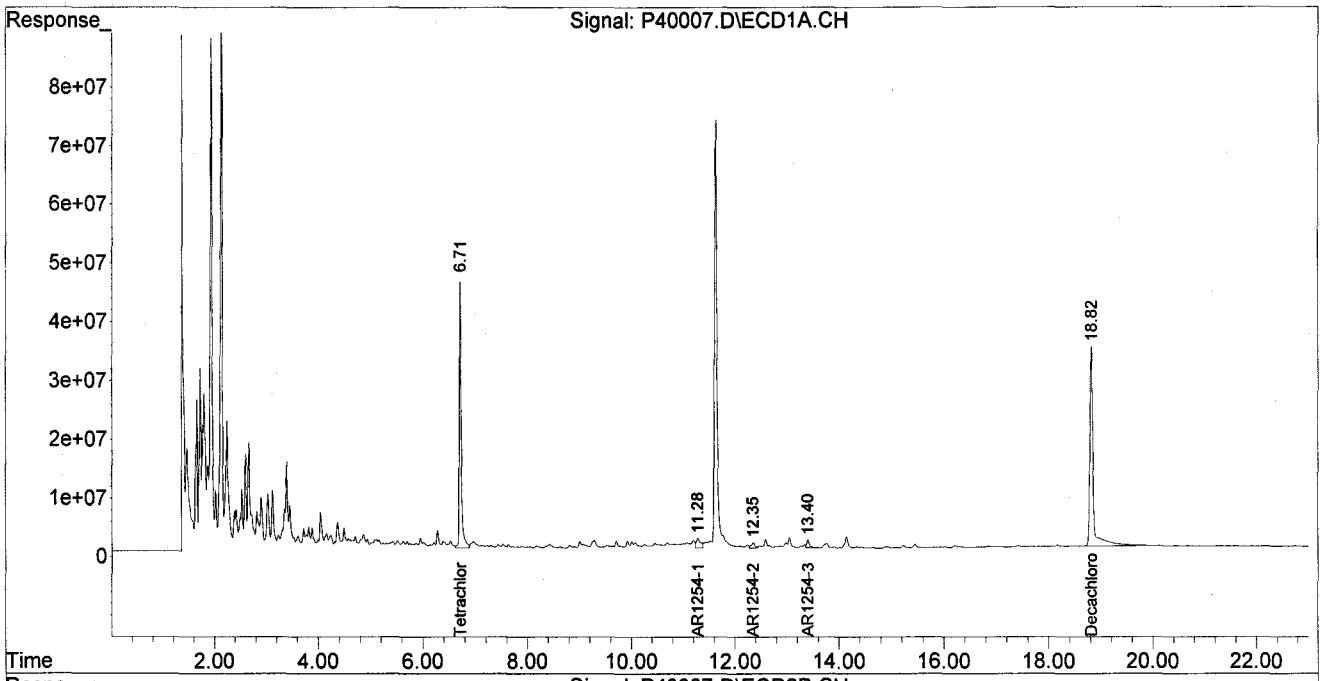
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

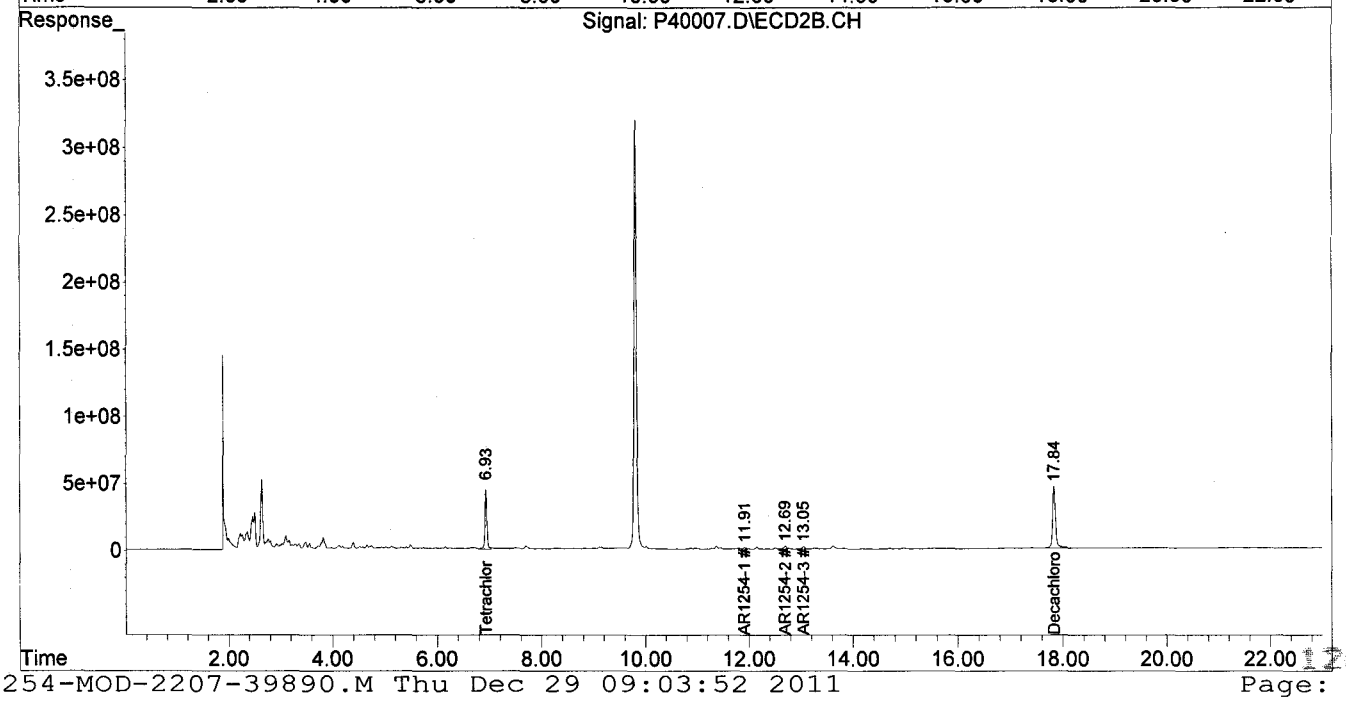
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40007.D(Signal #1) P40007.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:13 (Signal #1); 12/28/11 18:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ2 (Sig #1); F4XQ2 (Sig #2)
Misc : S-4476.03 50.1G/10.0ML (Sig #1); S-4476.03 50.1G/10.0ML (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

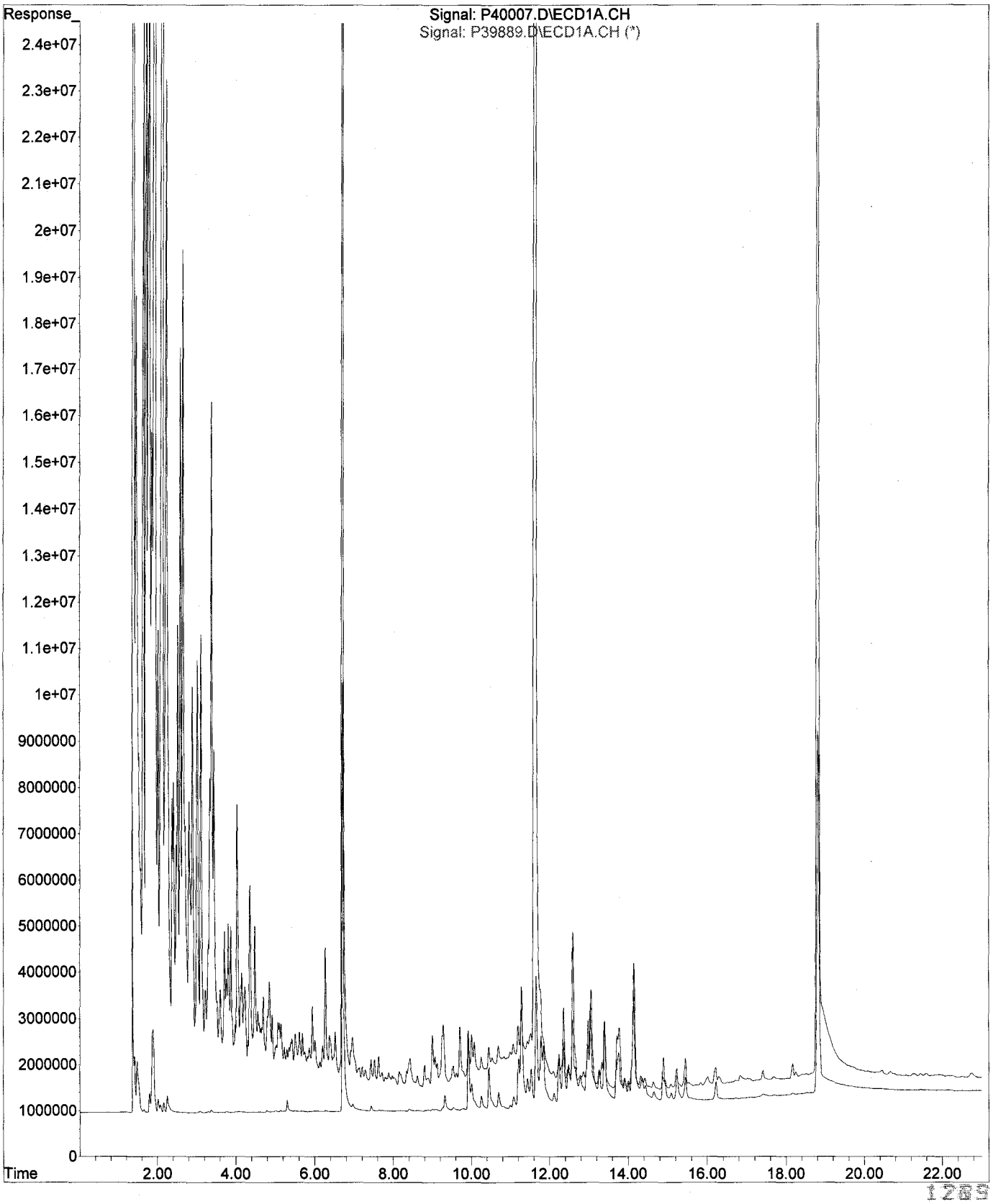
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:03:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

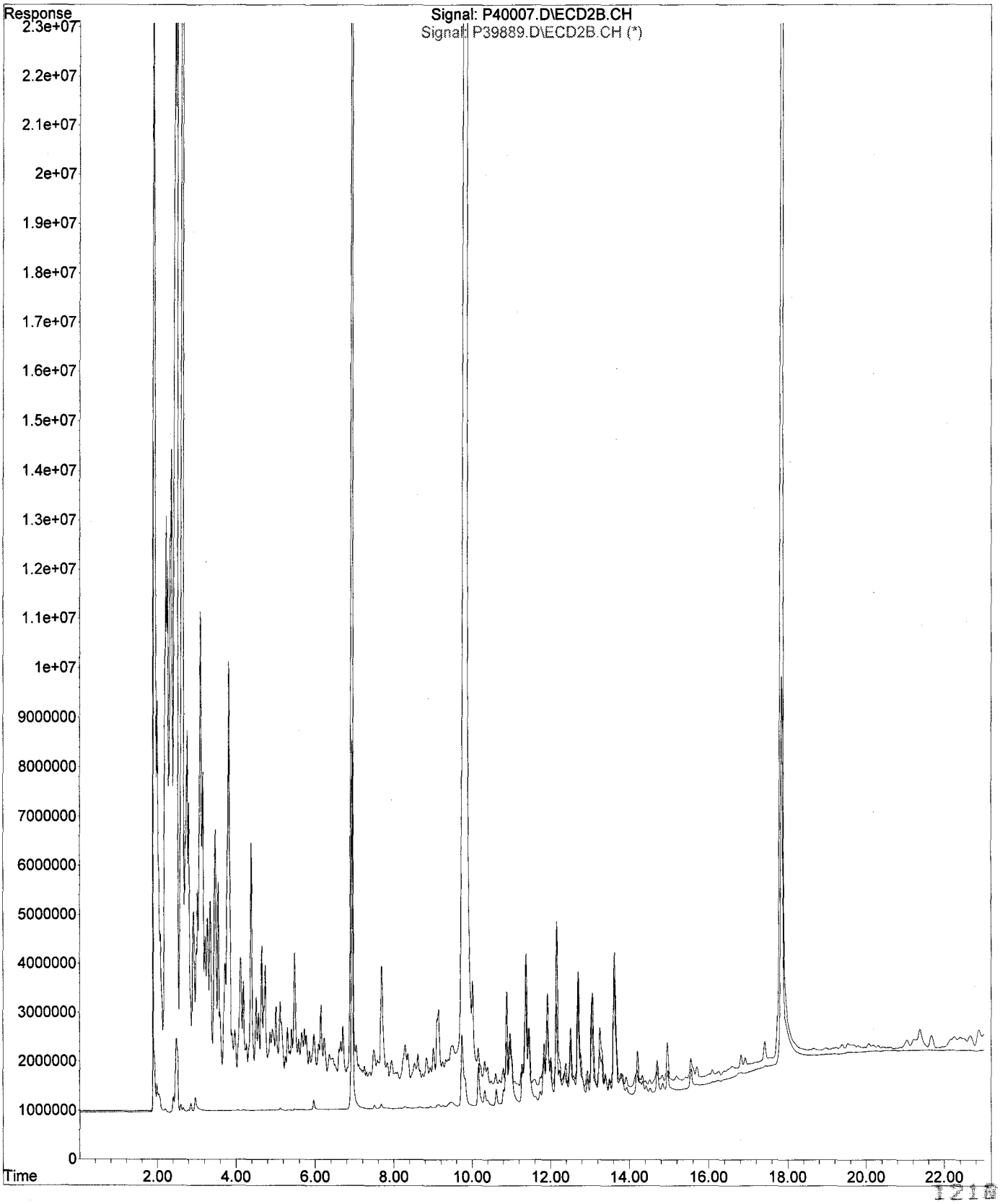




File :C:\MSDChem\1\data\P40007.D
Operator : KVR
Acquired : 28 Dec 2011 6:13 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ2
Misc Info : S-4476.03 50.1G/10.0ML
Vial Number: 13



File :C:\MSDChem\1\data\P40007.D
Operator : KVR
Acquired : 28 Dec 2011 6:13 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ2
Misc Info : S-4476.03 50.1G/10.0ML
Vial Number: 13



1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.04

Sample wt/vol: 50.30 (g/mL) G Lab File ID: P40008

% Moisture: 47 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.4 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	7.4	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	32	P
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	12	P
11096-82-5	Aroclor-1260	37	U
37324-23-5	Aroclor-1262	37	U
11100-14-4	Aroclor-1268	37	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40008.D(Signal #1) P40008.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:44 (Signal #1); 12/28/11 19:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 50.3G/10.0ML (Sig #1); S-4476.04 50.3G/10.0ML (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:05:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1159.6E6	1082.9E6	46.756	51.375
Spiked Amount 60.000	Range 18 - 90		Recovery =		77.93%	85.63%
8) s Decachlorobiphen	18.82	17.84	1587.4E6	1842.7E6	90.743	97.501
Spiked Amount 120.000			Recovery =		75.62%	81.25%
Target Compounds						

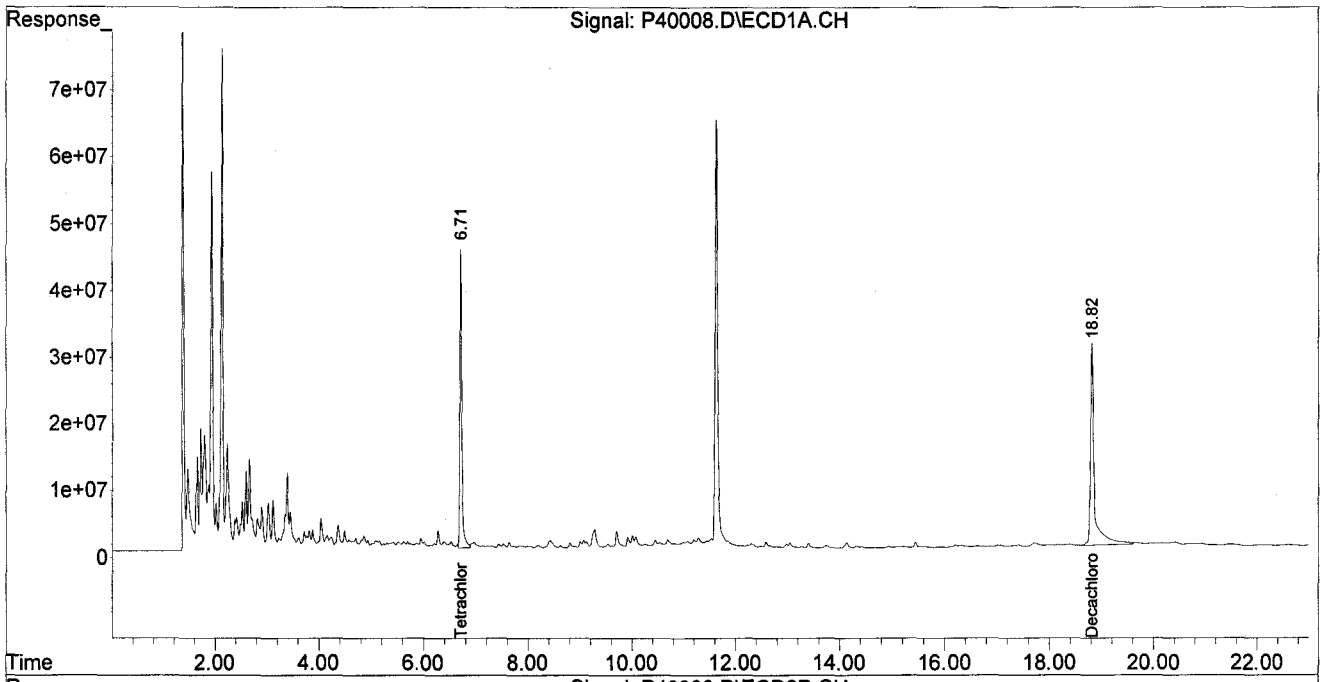
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

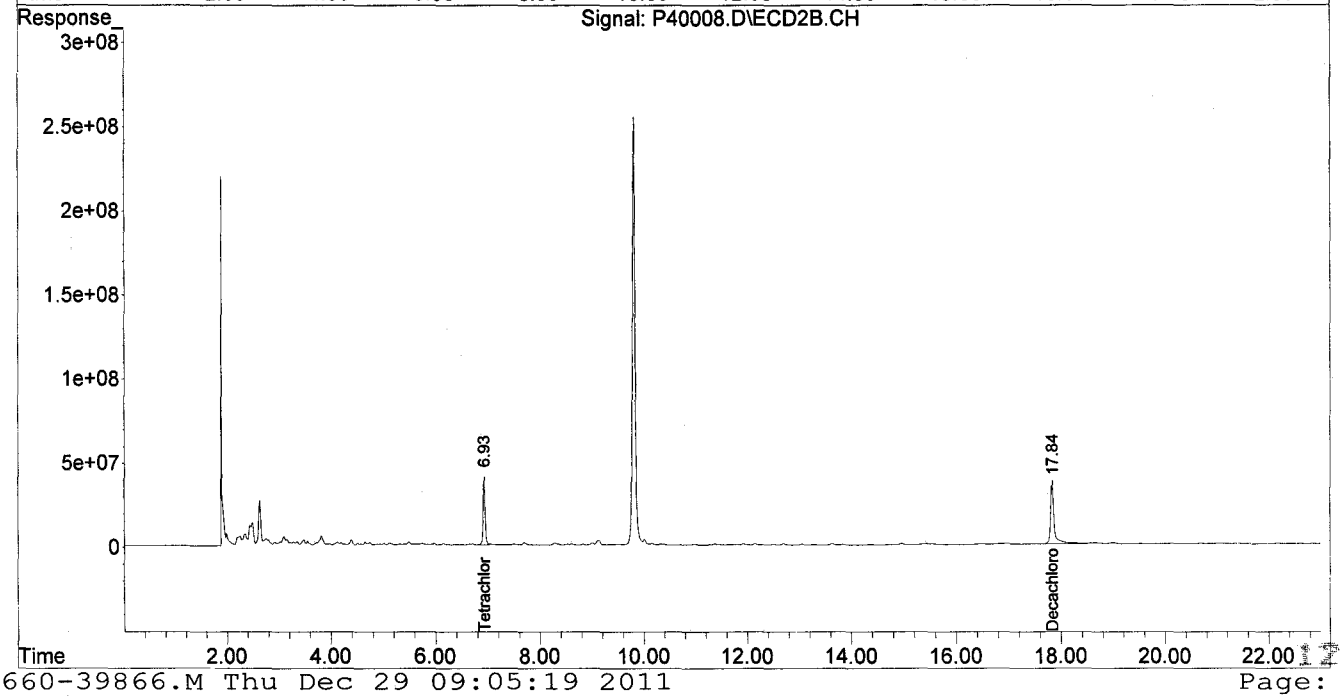
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40008.D(Signal #1) P40008.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:44 (Signal #1); 12/28/11 19:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 50.3G/10.0ML (Sig #1); S-4476.04 50.3G/10.0ML (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:05:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40008.D(Signal #1) P40008.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:44 (Signal #1); 12/28/11 19:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 50.3G/10.0ML (Sig #1); S-4476.04 50.3G/10.0ML (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:04:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.93	1159.6E6	1132.8E6	45.092	51.014	
	Spiked Amount 60.000	Range 18 - 90			Recovery =	75.15%	85.02%	
5)	s Decachlorobiphen	18.82	17.84	1587.4E6	1841.9E6	96.673	147.227	#
	Spiked Amount 120.000				Recovery =	80.56%	122.69%	
	Target Compounds							
2)	AR1242-1	9.92	10.32	40213009	42441979	133.062	155.800	
3)	AR1242-2	10.45	10.39	21289815	29819574	52.120	71.329	#
4)	AR1242-3	11.08	10.80	19382842	22015642	73.840	98.405	#

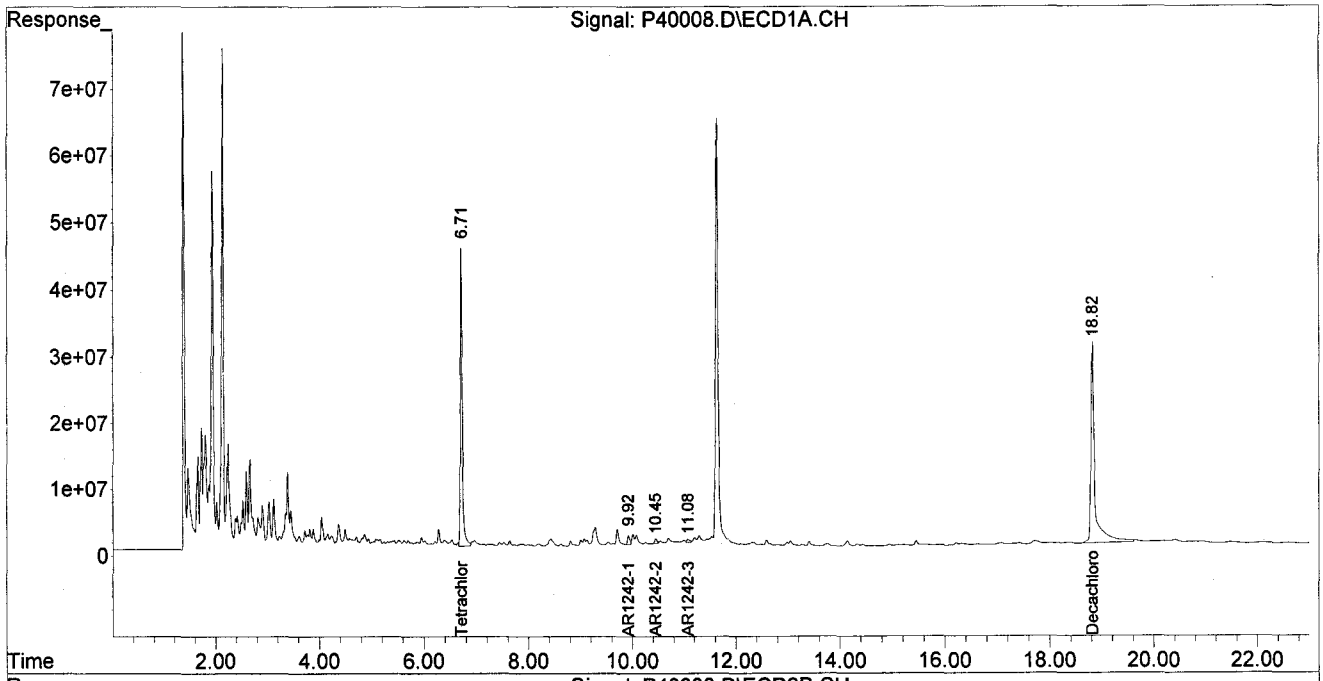
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

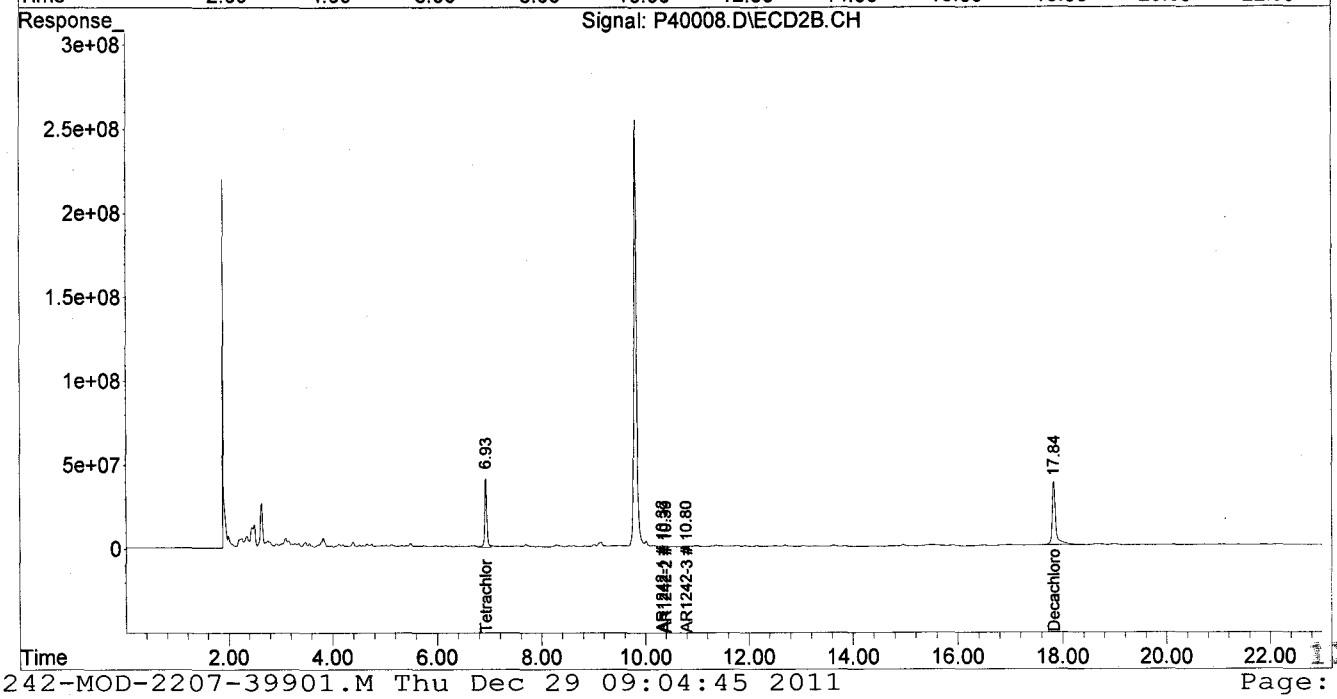
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40008.D(Signal #1) P40008.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:44 (Signal #1); 12/28/11 19:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 50.3G/10.0ML (Sig #1); S-4476.04 50.3G/10.0ML (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

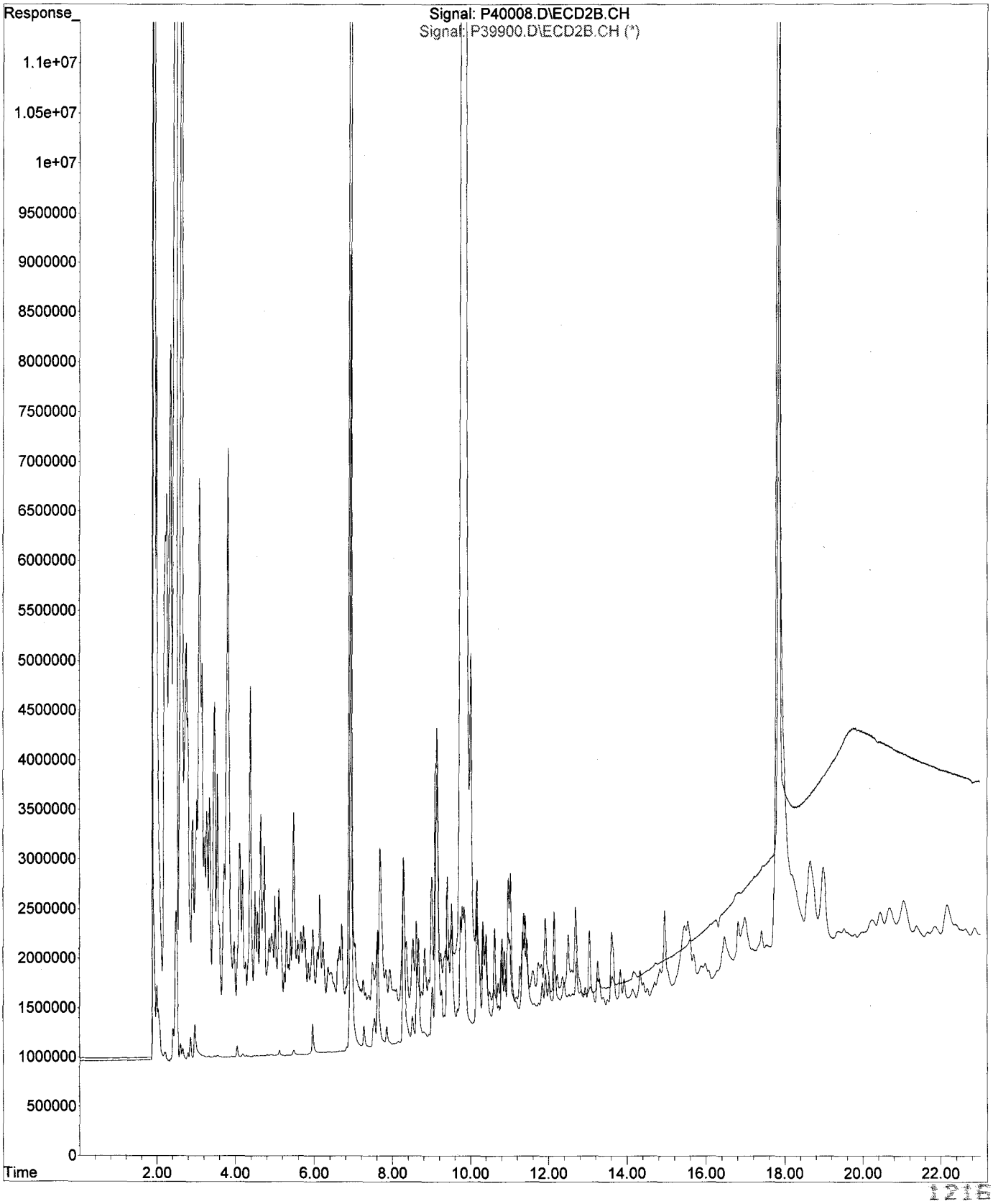
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:04:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

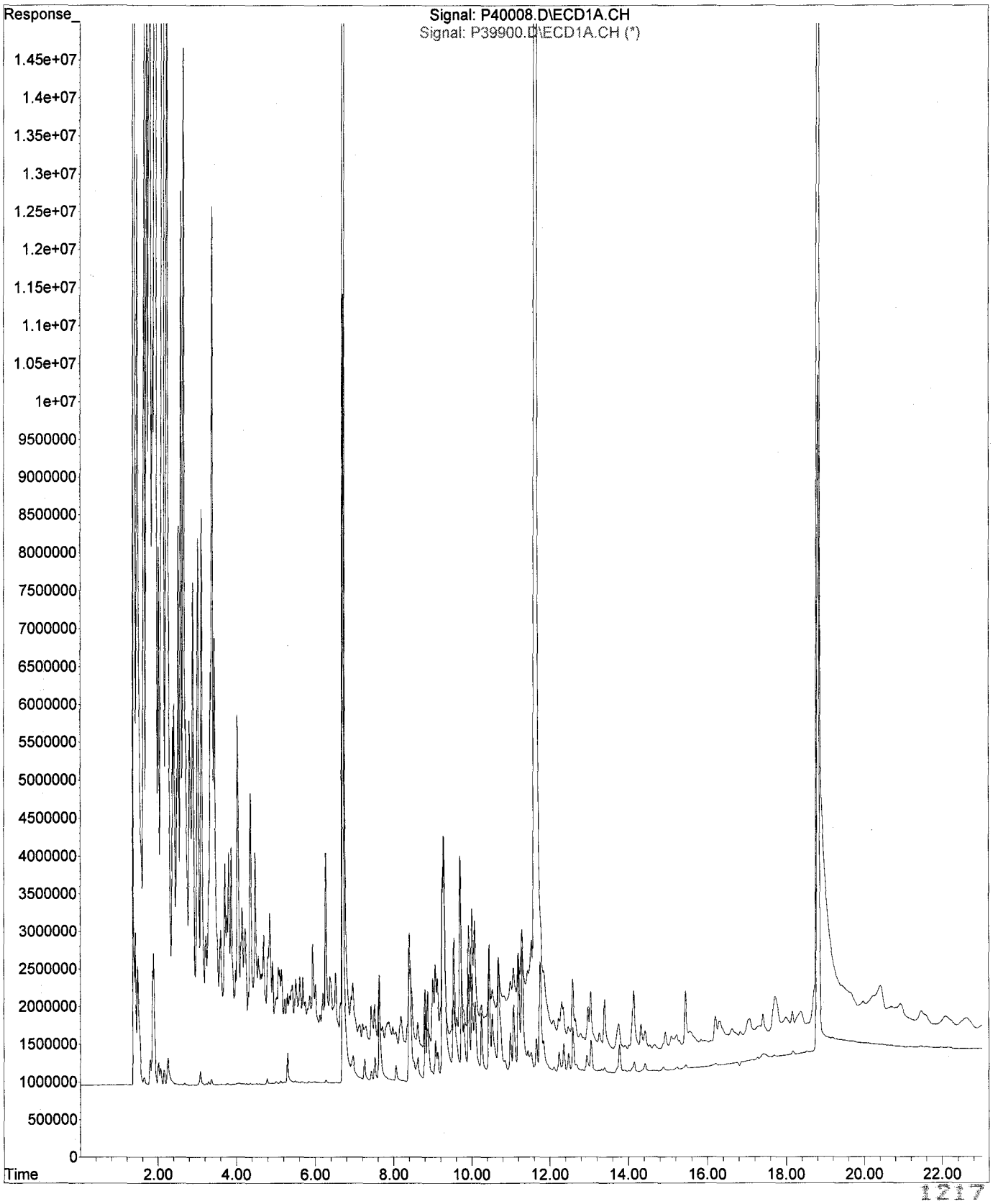




File :C:\MSDChem\1\data\P40008.D
Operator : KVR
Acquired : 28 Dec 2011 6:44 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ3
Misc Info : S-4476.04 50.3G/10.0ML
Vial Number: 14



File :C:\MSDChem\1\data\P40008.D
Operator : KVR
Acquired : 28 Dec 2011 6:44 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ3
Misc Info : S-4476.04 50.3G/10.0ML
Vial Number: 14



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40008.D(Signal #1) P40008.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:44 (Signal #1); 12/28/11 19:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 50.3G/10.0ML (Sig #1); S-4476.04 50.3G/10.0ML (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:04:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1159.6E6	1132.8E6	45.678	54.970
	Spiked Amount 60.000	Range 18 - 90		Recovery =		76.13%	91.62%#
5)	s Decachlorobiphen	18.82	17.84	1587.4E6	1841.9E6	85.207	95.883
	Spiked Amount 120.000			Recovery =		71.01%	79.90%
	Target Compounds						
2)	AR1254-1	11.29	11.92	52993778	59935605	55.295	83.047 #
3)	AR1254-2	12.35	12.70	9134650	64122981	12.576	57.911 #
4)	AR1254-3	13.40	13.05	23208887	35924158	30.620	38.233

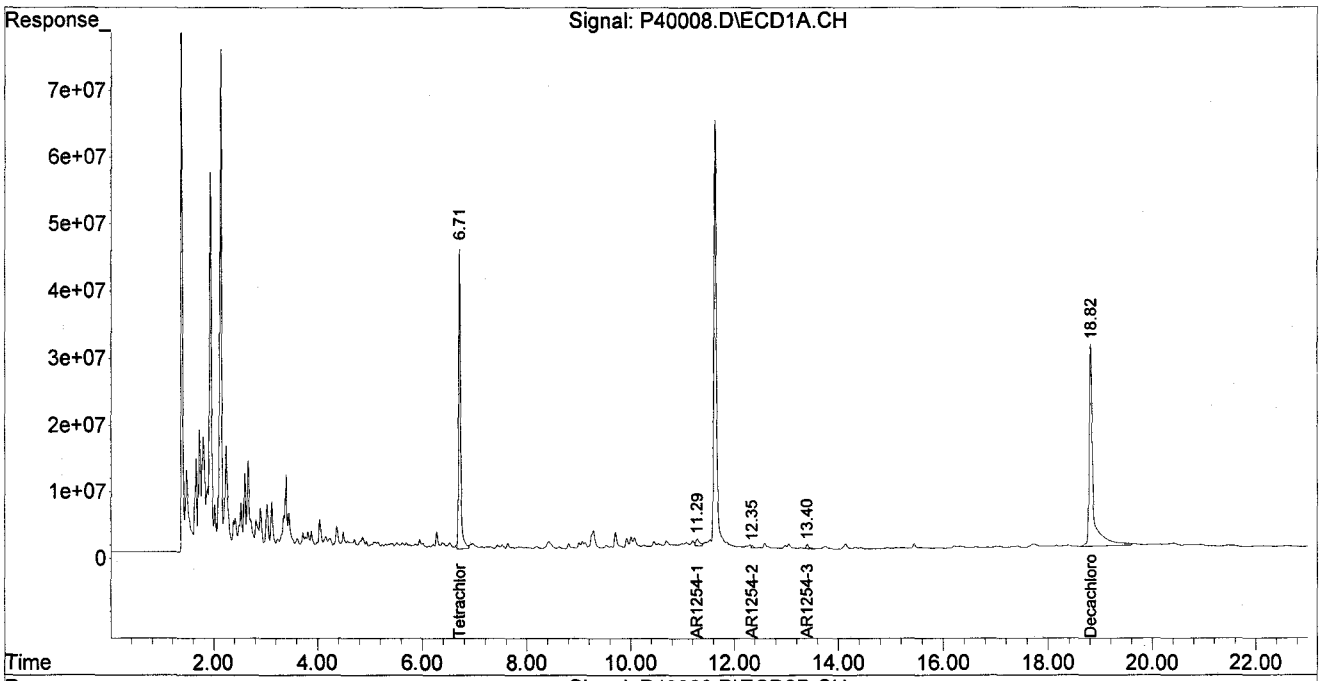
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

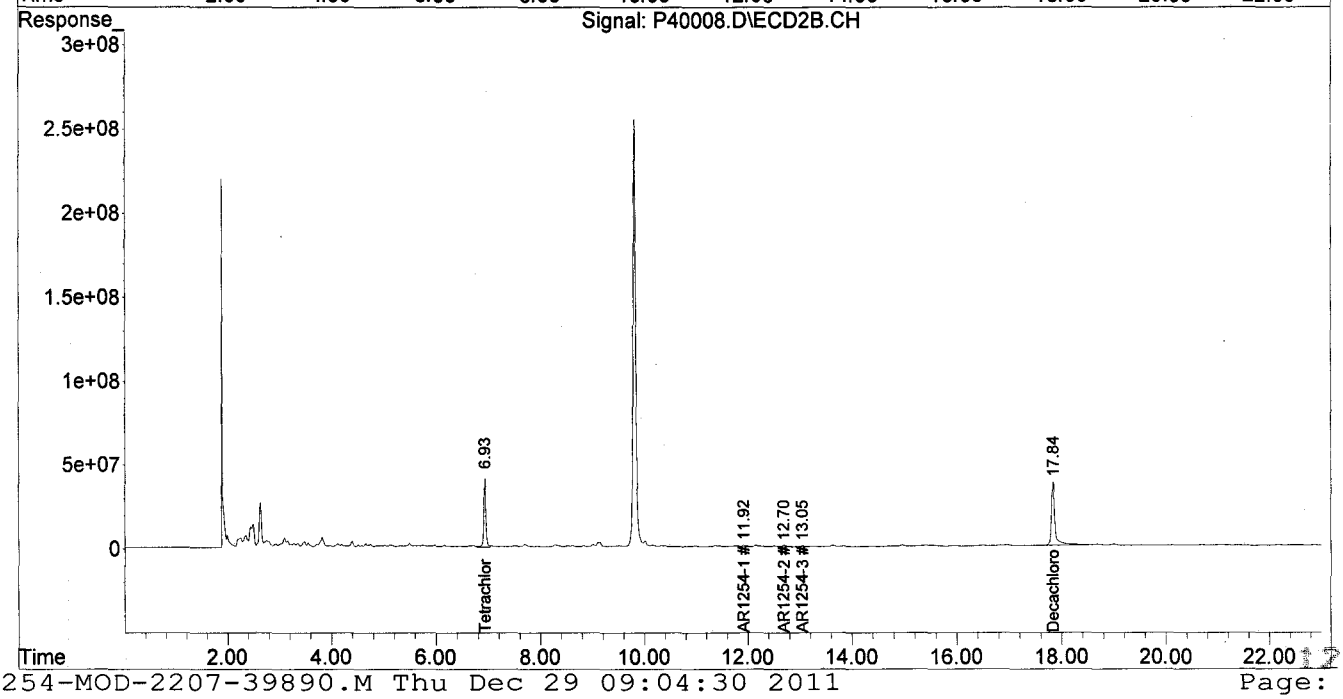
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40008.D(Signal #1) P40008.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 18:44 (Signal #1); 12/28/11 19:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ3 (Sig #1); F4XQ3 (Sig #2)
Misc : S-4476.04 50.3G/10.0ML (Sig #1); S-4476.04 50.3G/10.0ML (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

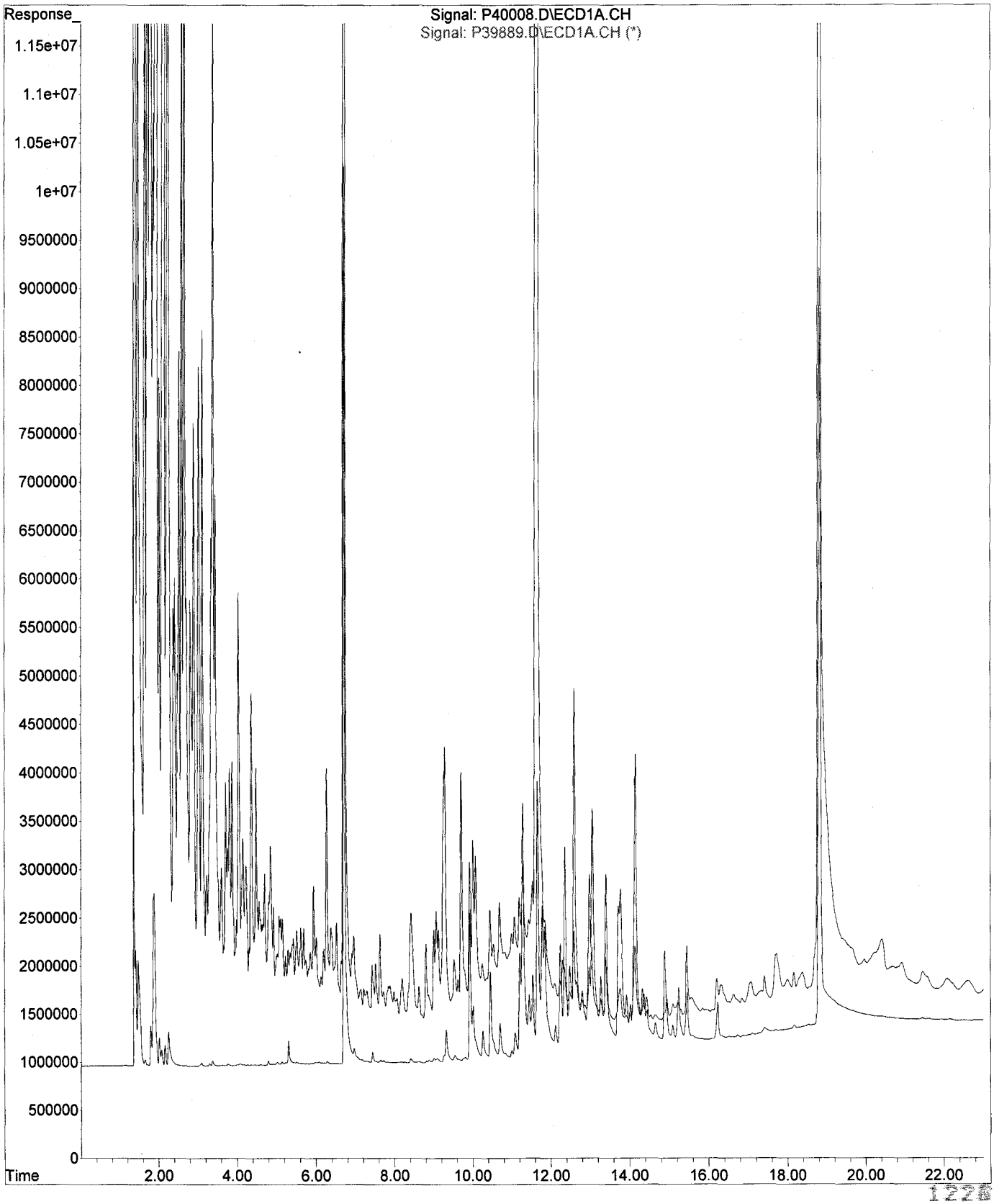
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:04:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

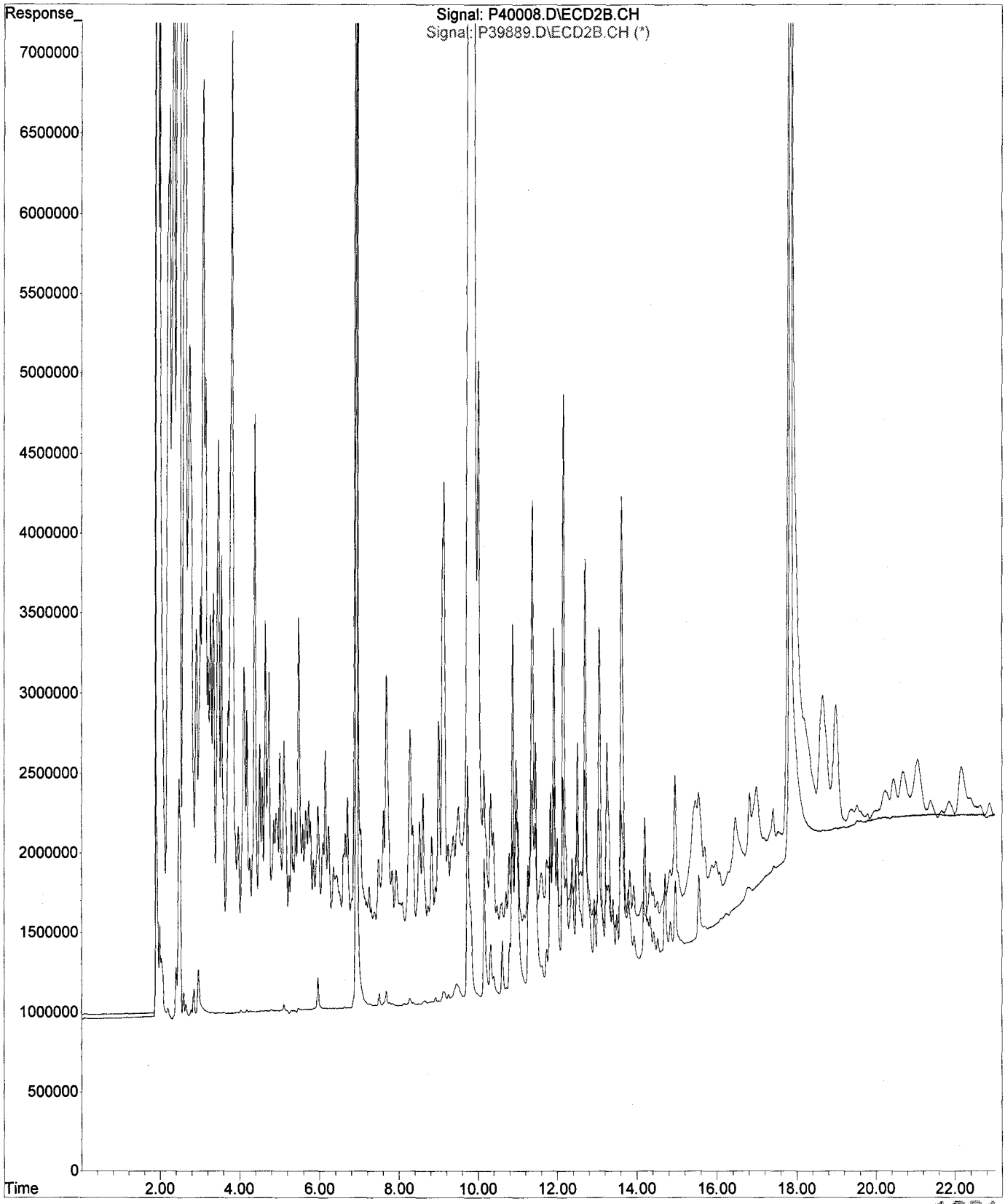




File :C:\MSDChem\1\data\P40008.D
Operator : KVR
Acquired : 28 Dec 2011 6:44 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ3
Misc Info : S-4476.04 50.3G/10.0ML
Vial Number: 14



File :C:\MSDChem\1\data\P40008.D
Operator : KVR
Acquired : 28 Dec 2011 6:44 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ3
Misc Info : S-4476.04 50.3G/10.0ML
Vial Number: 14



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.05

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P40009

% Moisture: 49 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.4 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	7.7	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	42	
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	15	
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40009.D(Signal #1) P40009.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:14 (Signal #1); 12/28/11 19:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 50.1G/10.0ML (Sig #1); S-4476.05 50.1G/10.0ML (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:05:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1102.1E6	1070.9E6	44.438	50.806
	Spiked Amount 60.000	Range 18 - 90		Recovery =		74.06%	84.68%
8)	s Decachlorobiphen	18.82	17.84	1437.9E6	1561.2E6	82.202	82.607
	Spiked Amount 120.000			Recovery =		68.50%	68.84%
	Target Compounds						

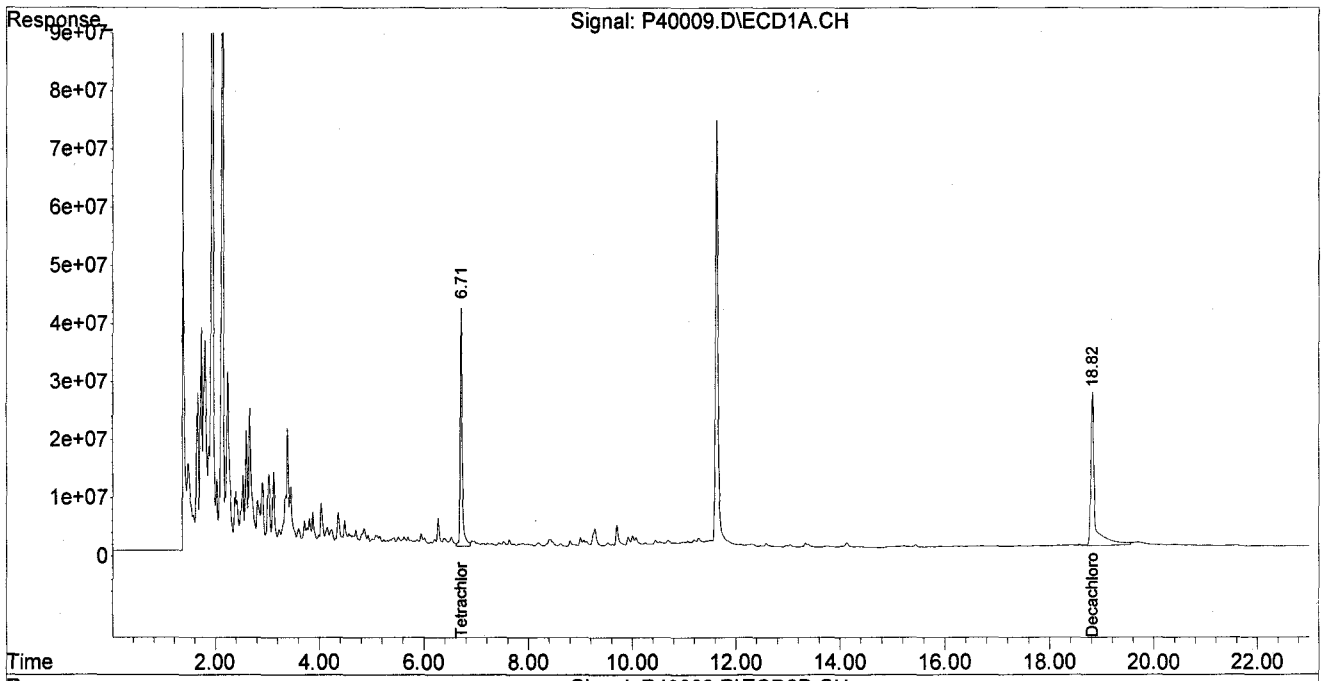
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

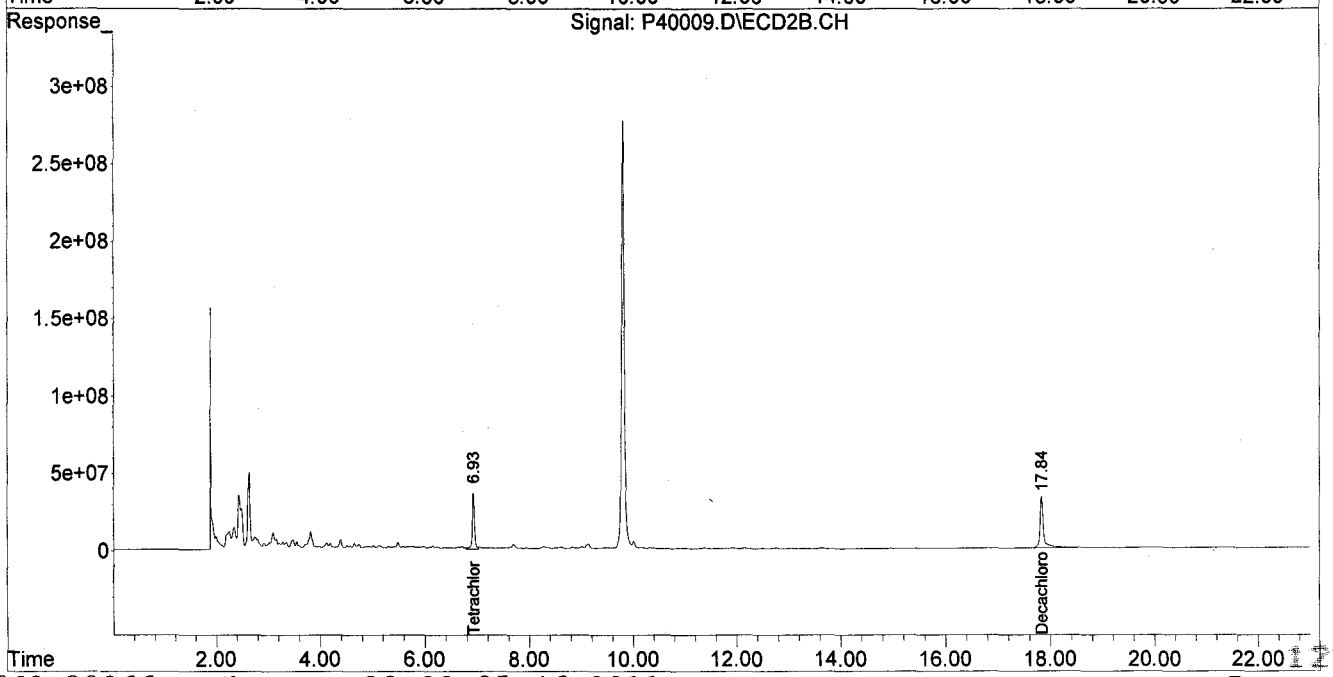
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40009.D(Signal #1) P40009.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:14 (Signal #1); 12/28/11 19:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 50.1G/10.0ML (Sig #1); S-4476.05 50.1G/10.0ML (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:05:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40009.D(Signal #1) P40009.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:14 (Signal #1); 12/28/11 19:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 50.1G/10.0ML (Sig #1); S-4476.05 50.1G/10.0ML (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:06:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1102.1E6	1072.5E6	42.856	48.300
	Spiked Amount 60.000	Range 18 - 90		Recovery =		71.43%	80.50%
5)	s Decachlorobiphen	18.82	17.84	1437.9E6	1597.9E6	87.574	127.726 #
	Spiked Amount 120.000			Recovery =		72.98%	106.44%
	Target Compounds						
2)	AR1242-1	9.93	10.33	43046473	52307982	142.438	192.018 #
3)	AR1242-2	10.45	10.40	21704932	38843560	53.136	92.915 #
4)	AR1242-3	11.08	10.80	33477672	23693638	127.536	105.905

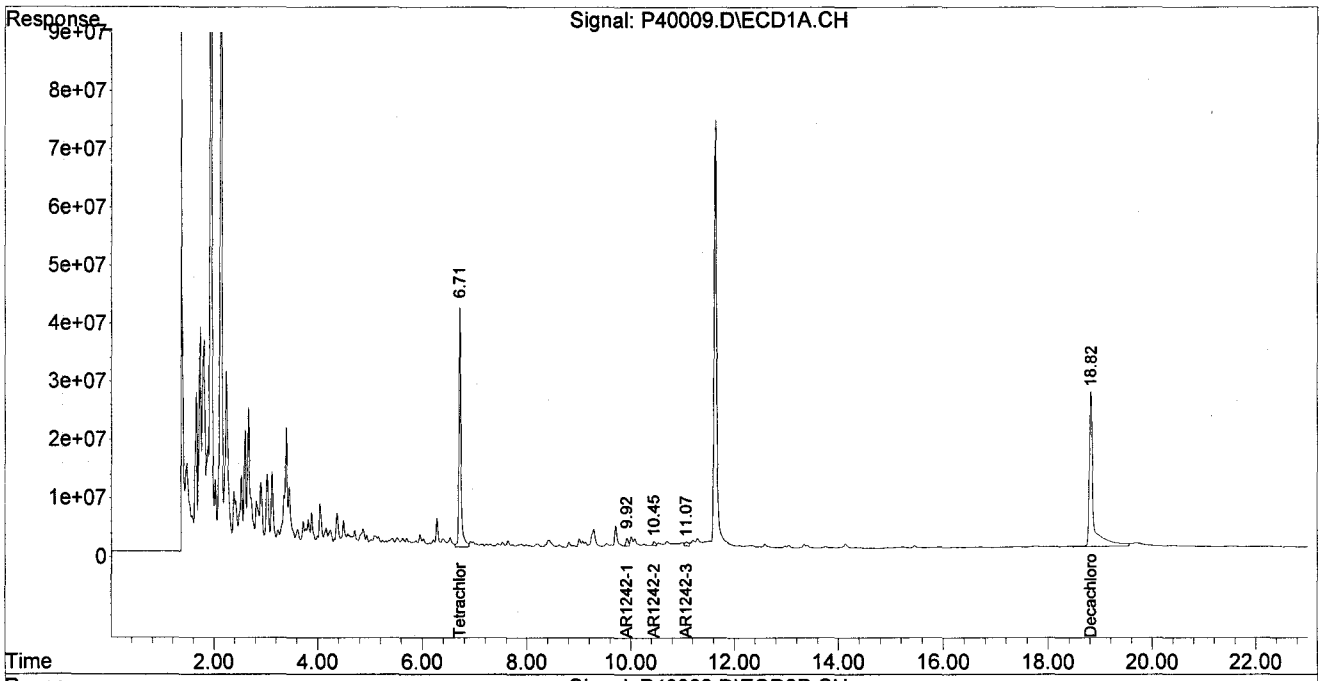
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

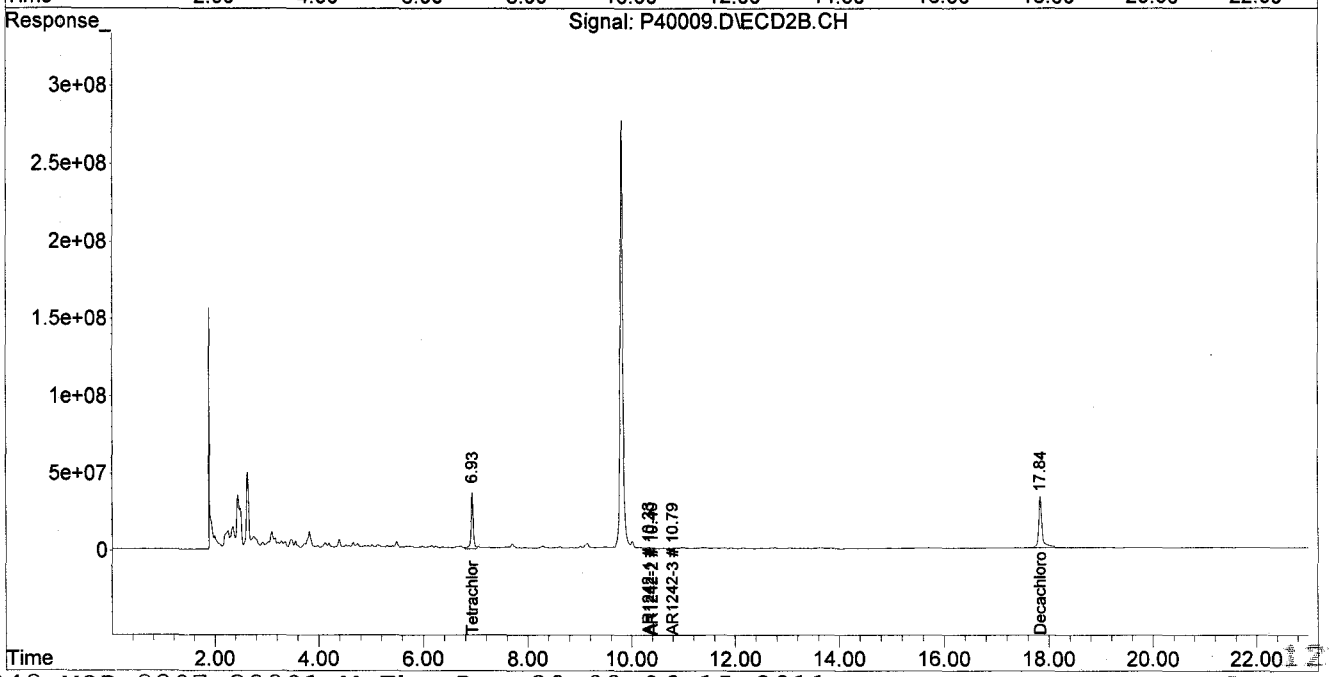
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40009.D(Signal #1) P40009.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:14 (Signal #1); 12/28/11 19:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 50.1G/10.0ML (Sig #1); S-4476.05 50.1G/10.0ML (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

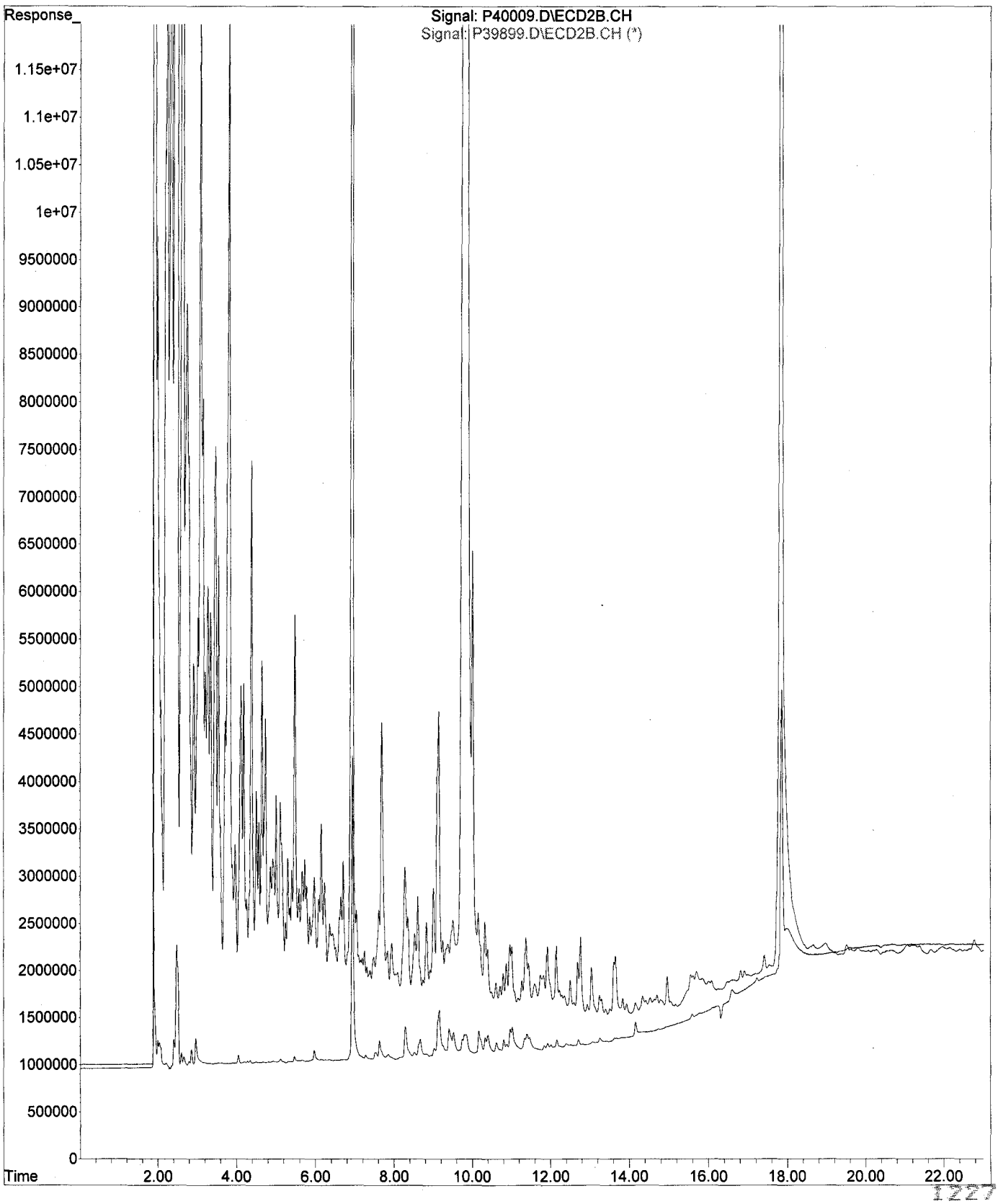
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:06:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

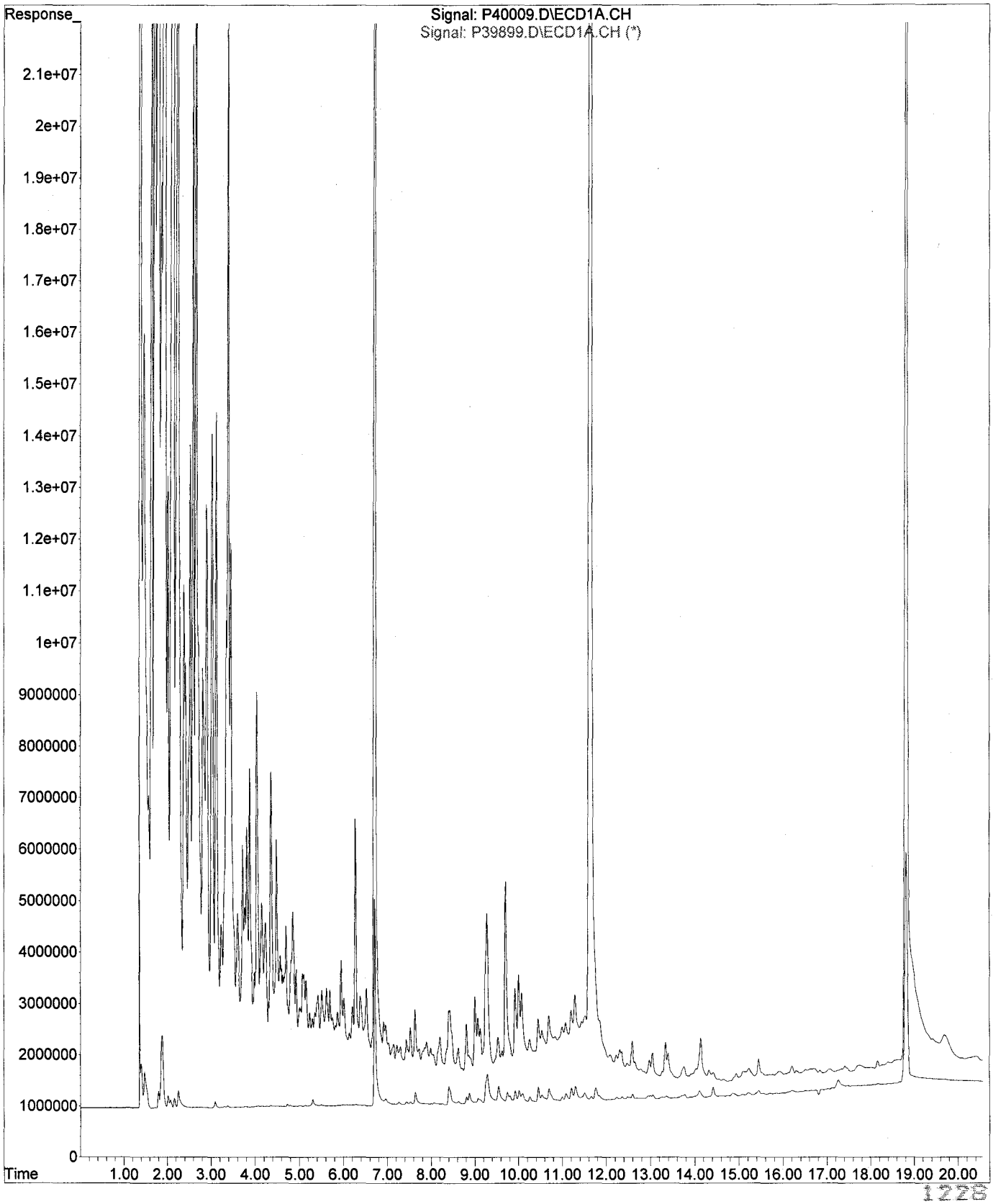




File :C:\MSDChem\1\data\P40009.D
Operator : KVR
Acquired : 28 Dec 2011 7:14 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ4
Misc Info : S-4476.05 50.1G/10.0ML
Vial Number: 15



File :C:\MSDChem\1\data\P40009.D
Operator : KVR
Acquired : 28 Dec 2011 7:14 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ4
Misc Info : S-4476.05 50.1G/10.0ML
Vial Number: 15



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40009.D(Signal #1) P40009.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:14 (Signal #1); 12/28/11 19:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 50.1G/10.0ML (Sig #1); S-4476.05 50.1G/10.0ML (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:06:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1102.1E6	1072.5E6	43.413	52.045
	Spiked Amount 60.000	Range 18 - 90		Recovery =		72.35%	86.74%
5)	s Decachlorobiphen	18.82	17.84	1437.9E6	1597.9E6	77.187	83.182
	Spiked Amount 120.000			Recovery =		64.32%	69.32%
	Target Compounds						
2)	AR1254-1	11.29	11.92	72470974	53215467	75.617	73.736
3)	AR1254-2	12.35	12.70	10846881	21951337	14.934	19.825 #
4)	AR1254-3	13.40	13.05	18985205	26499075	25.048	28.202

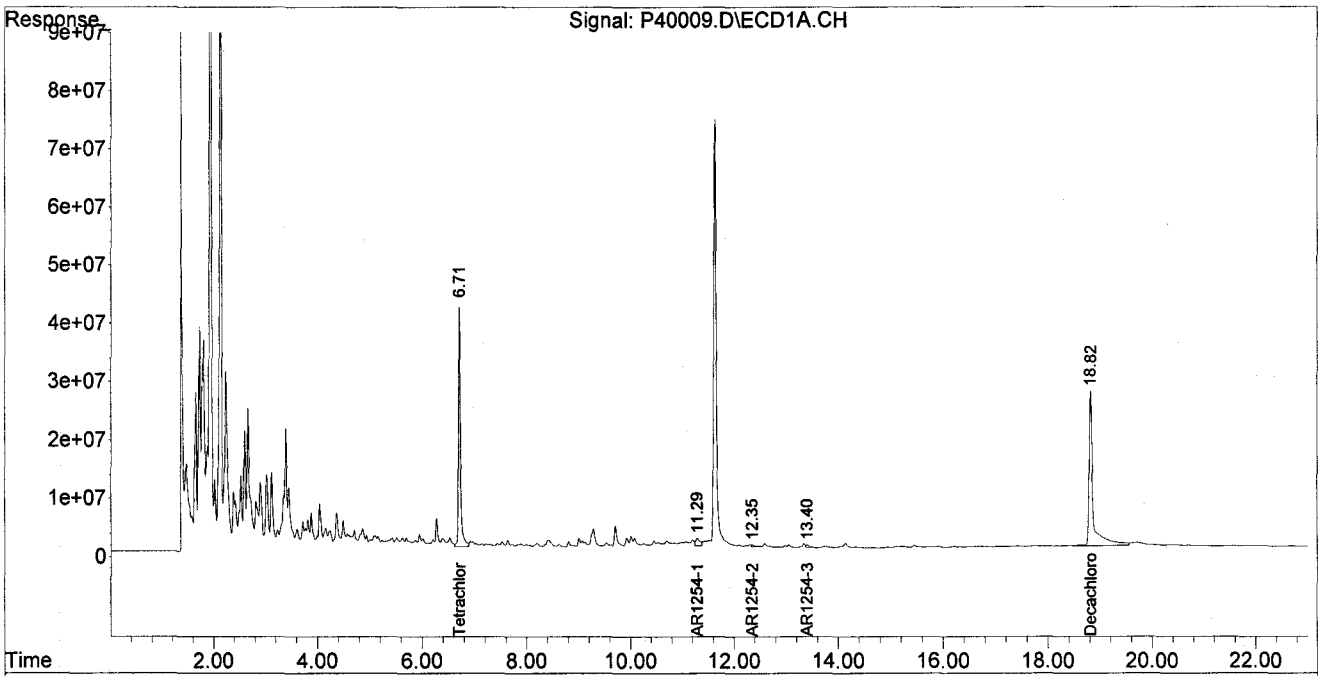
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

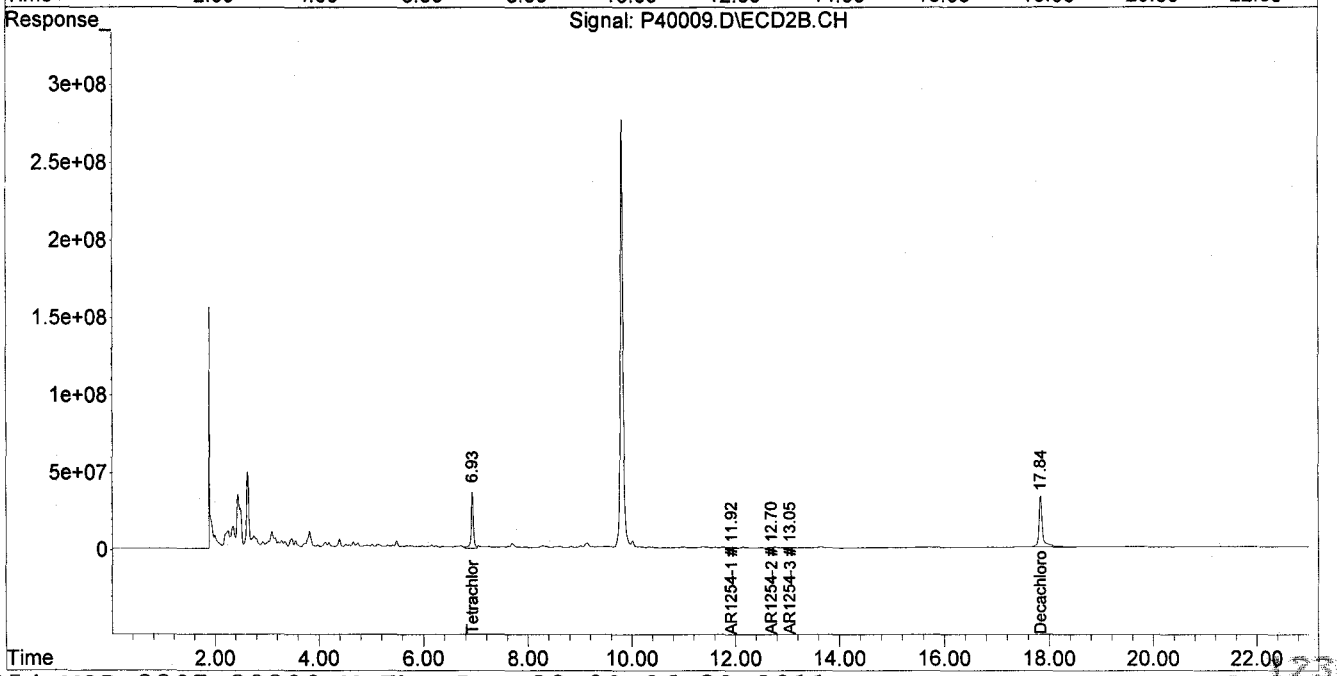
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40009.D(Signal #1) P40009.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:14 (Signal #1); 12/28/11 19:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ4 (Sig #1); F4XQ4 (Sig #2)
Misc : S-4476.05 50.1G/10.0ML (Sig #1); S-4476.05 50.1G/10.0ML (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

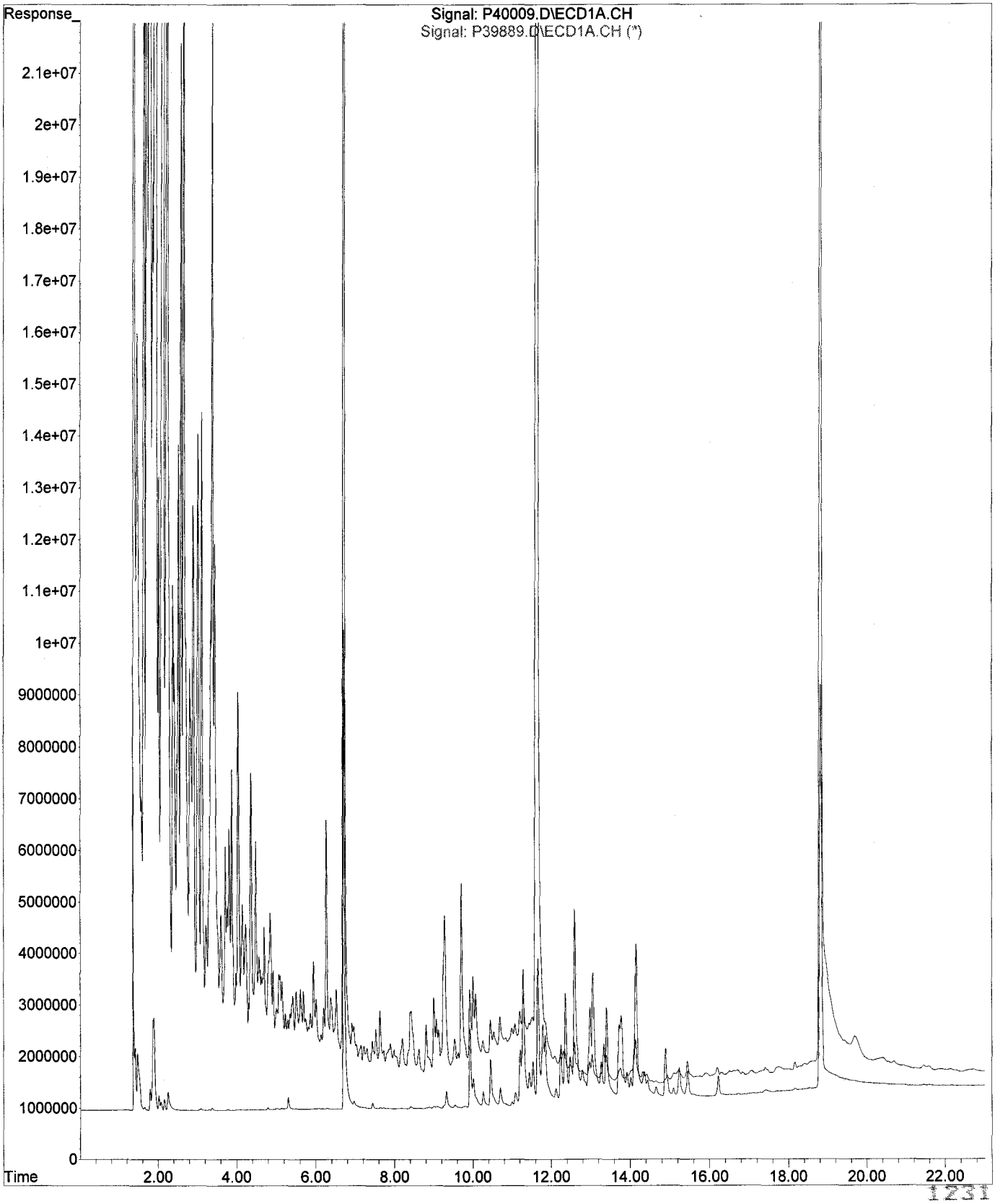
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:06:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

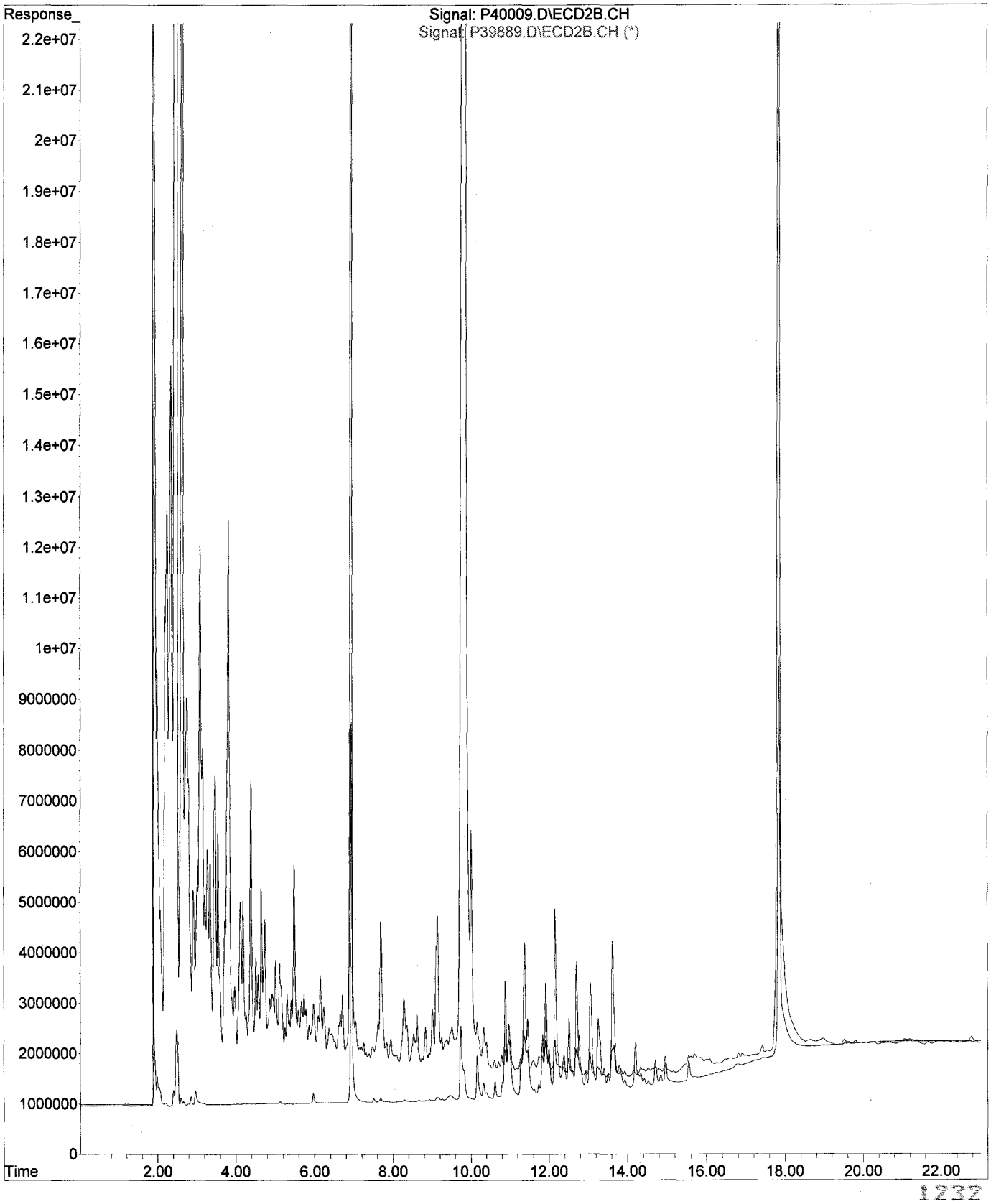




File :C:\MSDChem\1\data\P40009.D
Operator : KVR
Acquired : 28 Dec 2011 7:14 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ4
Misc Info : S-4476.05 50.1G/10.0ML
Vial Number: 15



File :C:\MSDChem\1\data\P40009.D
Operator : KVR
Acquired : 28 Dec 2011 7:14 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ4
Misc Info : S-4476.05 50.1G/10.0ML
Vial Number: 15



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.08

Sample wt/vol: 48.10 (g/mL) G Lab File ID: P40000

% Moisture: 36 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.3 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.4	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.4	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	7.5	P
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40000.D(Signal #1) P40000.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 14:40 (Signal #1); 12/28/11 15:10 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ5 (Sig #1); F4XQ5 (Sig #2)
Misc : S-4460.08 48.1G/10.0ML (Sig #1); S-4460.08 48.1G/10.0ML (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:54:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1007.5E6	1000.8E6	40.623	47.482
Spiked Amount 60.000	Range 18 - 90		Recovery =		67.70%	79.14%
8) s Decachlorobiphen	18.82	17.84	1462.8E6	1704.0E6	83.624	90.162
Spiked Amount 120.000			Recovery =		69.69%	75.14%
Target Compounds						

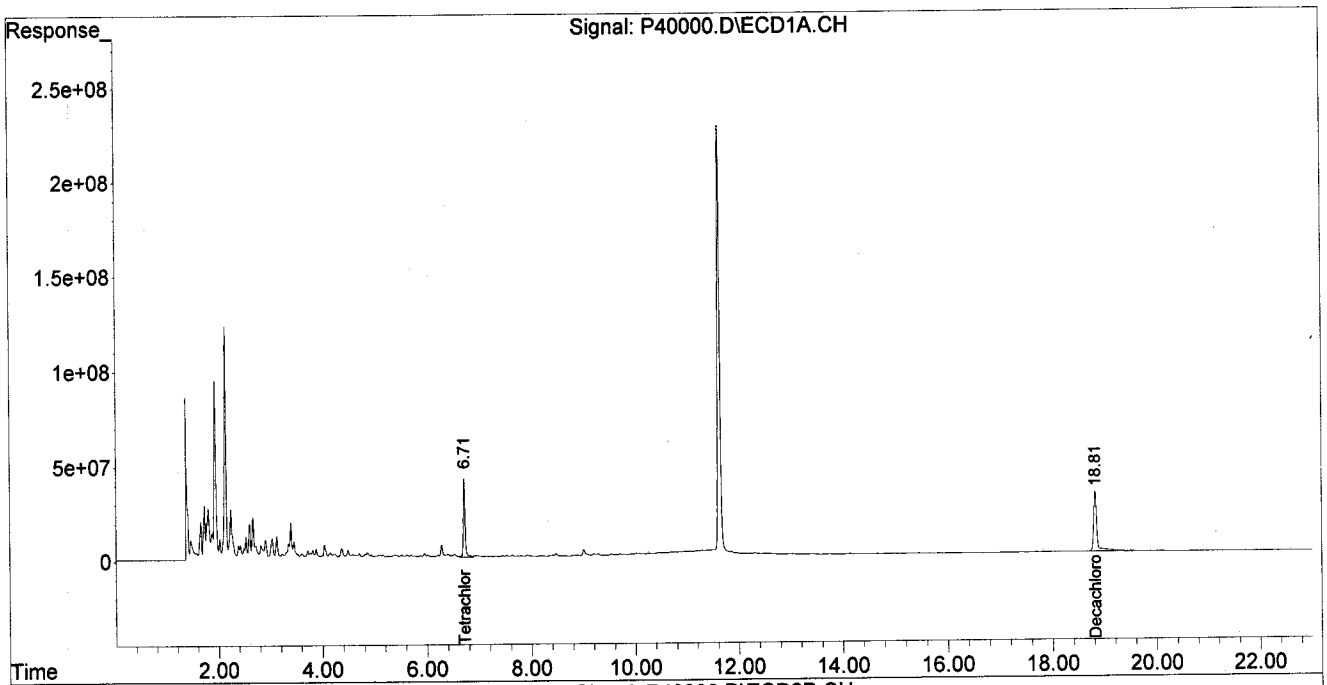
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

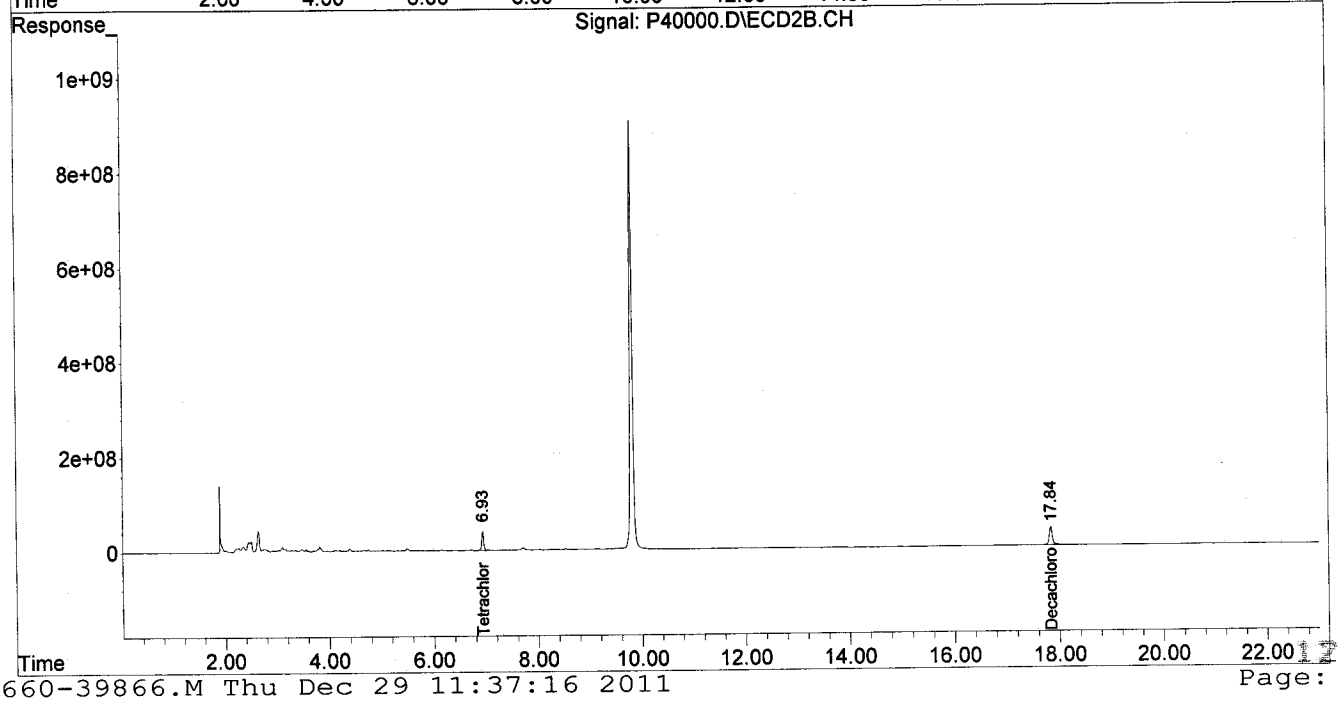
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40000.D(Signal #1) P40000.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 14:40 (Signal #1); 12/28/11 15:10 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ5 (Sig #1); F4XQ5 (Sig #2)
Misc : S-4460.08 48.1G/10.0ML (Sig #1); S-4460.08 48.1G/10.0ML (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:54:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40000.D(Signal #1) P40000.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 14:40 (Signal #1); 12/28/11 15:10 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ5 (Sig #1); F4XQ5 (Sig #2)
Misc : S-4460.08 48.1G/10.0ML (Sig #1); S-4460.08 48.1G/10.0ML (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:55:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.93	1007.5E6	1086.2E6	39.686	52.713	#
	Spiked Amount 60.000	Range 18 - 90		Recovery =		66.14%	87.86%	
5)	s Decachlorobiphen	18.82	17.84	1462.8E6	1704.7E6	78.522	88.742	
	Spiked Amount 120.000			Recovery =		65.44%	73.95%	
	Target Compounds							
2)	AR1254-1	11.29	11.92	33773448	55420727	35.240	76.791	#
3)	AR1254-2	12.30f	12.70	14170663	22087278	19.510	19.948	
4)	AR1254-3	13.40	13.05	11301251	31901770	14.910	33.952	#

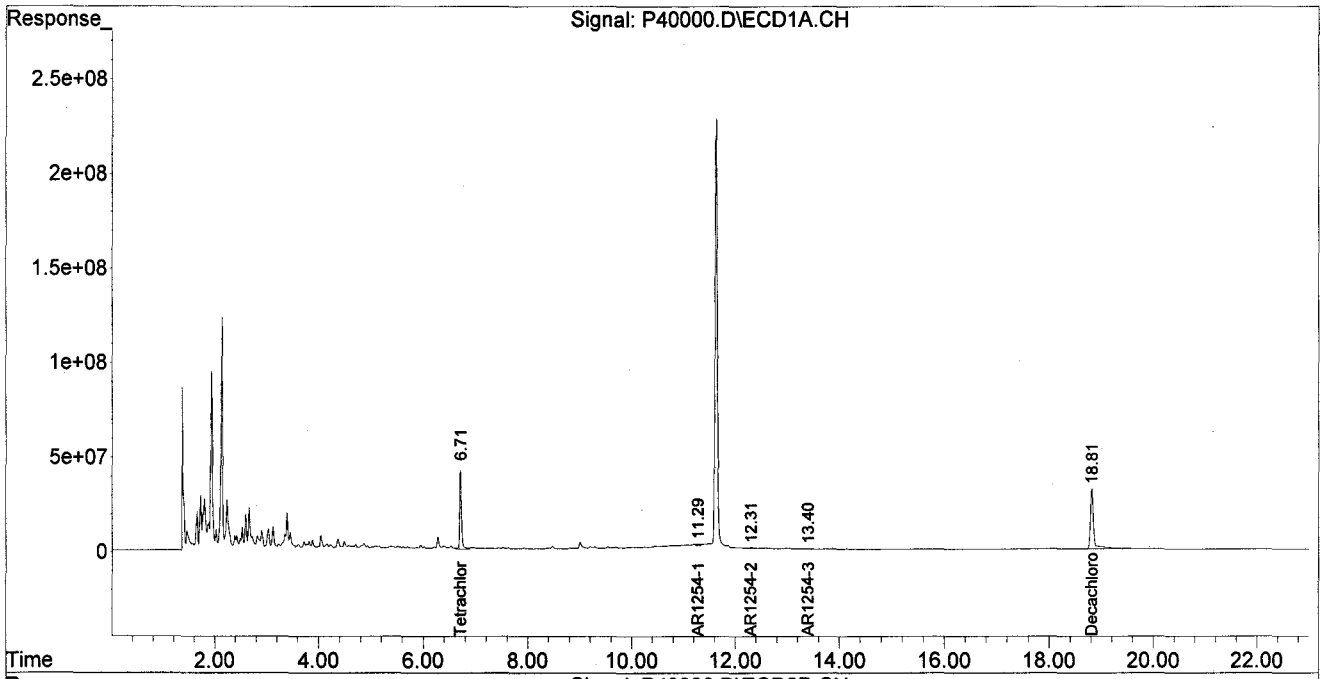
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

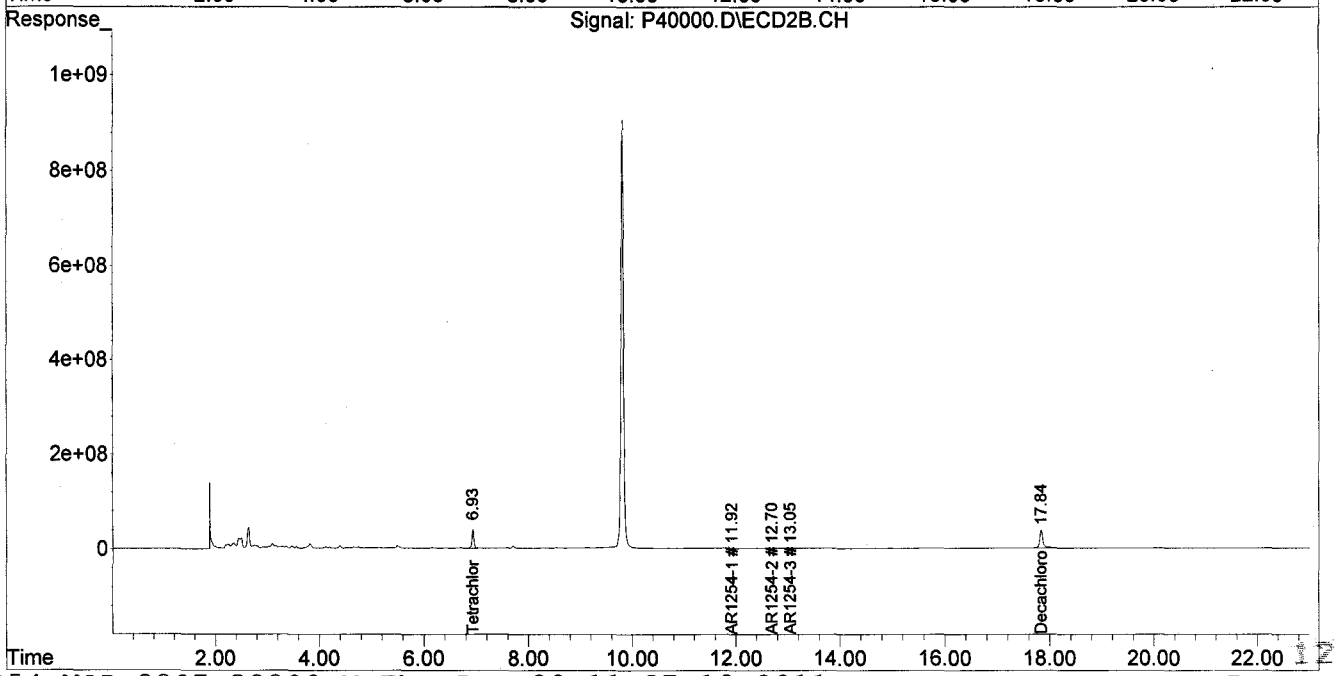
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40000.D(Signal #1) P40000.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 14:40 (Signal #1); 12/28/11 15:10 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ5 (Sig #1); F4XQ5 (Sig #2)
Misc : S-4460.08 48.1G/10.0ML (Sig #1); S-4460.08 48.1G/10.0ML (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

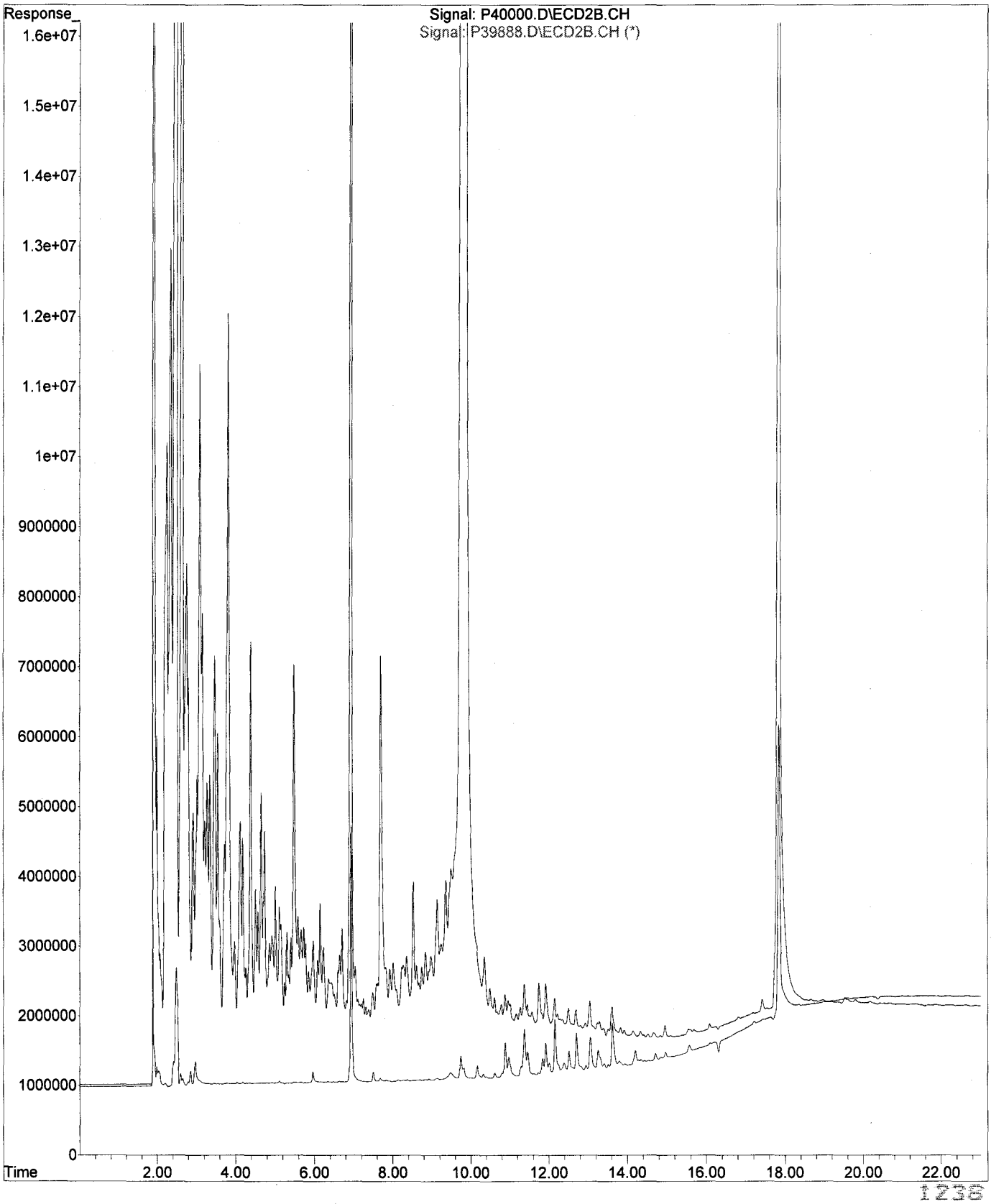
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:55:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

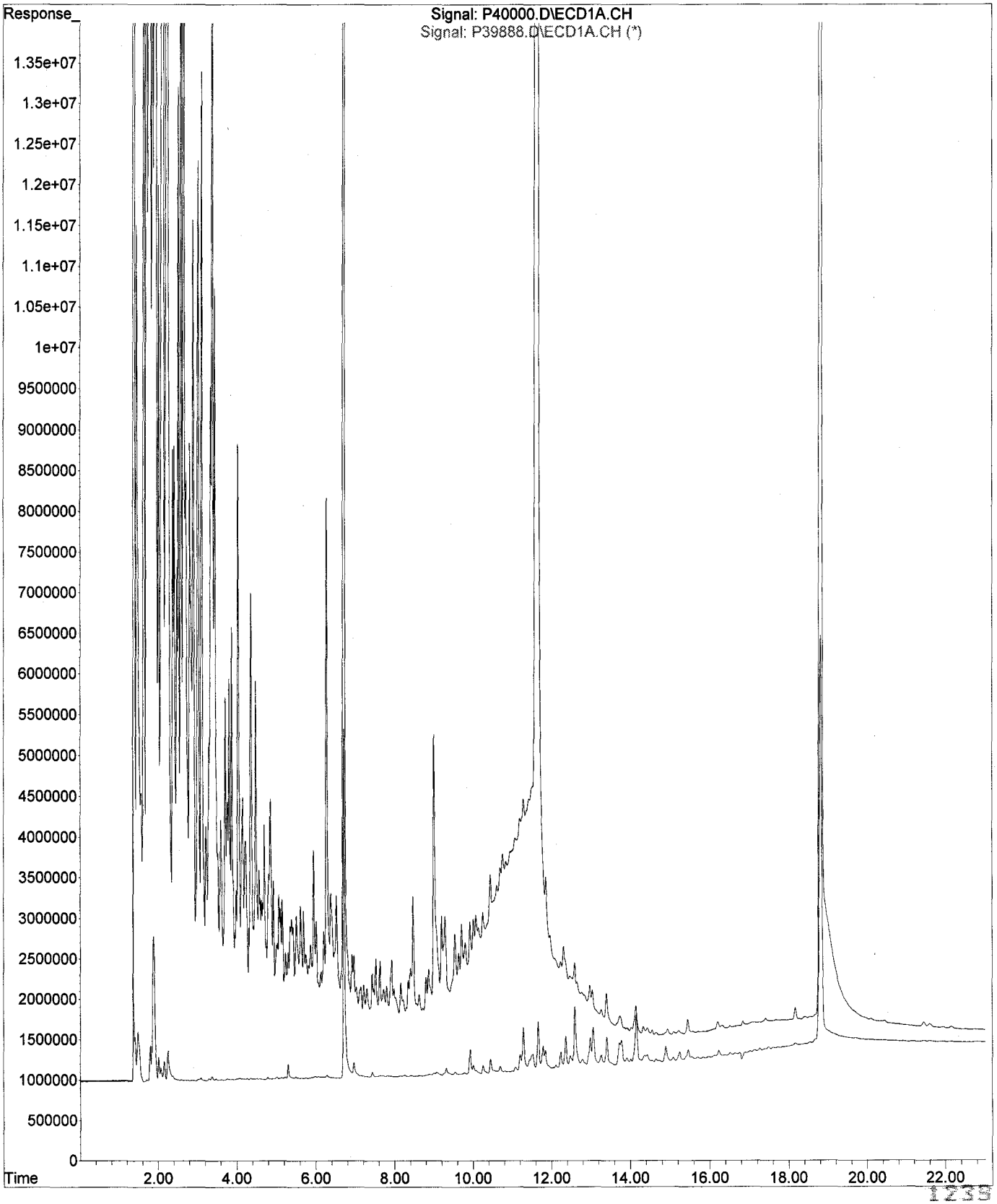




File :C:\MSDChem\1\data\P40000.D
Operator : KVR
Acquired : 28 Dec 2011 2:40 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ5
Misc Info : S-4460.08 48.1G/10.0ML
Vial Number: 6



File :C:\MSDChem\1\data\P40000.D
Operator : KVR
Acquired : 28 Dec 2011 2:40 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ5
Misc Info : S-4460.08 48.1G/10.0ML
Vial Number: 6



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4465.04

Sample wt/vol: 48.40 (g/mL) G Lab File ID: P40004

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/08/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 7.7 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	4.1	JP
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40004.D(Signal #1) P40004.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:42 (Signal #1); 12/28/11 17:12 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ6 (Sig #1); F4XQ6 (Sig #2)
Misc : S-4465.04 48.4G/10.0ML (Sig #1); S-4465.04 48.4G/10.0ML (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:59:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.93	1116.6E6	1117.3E6	45.020	53.007
Spiked Amount 60.000	Range 18 - 90			Recovery =	75.03%	88.34%
8) s Decachlorobiphen	18.82	17.84	1444.7E6	1686.5E6	82.586	89.235
Spiked Amount 120.000				Recovery =	68.82%	74.36%
Target Compounds						

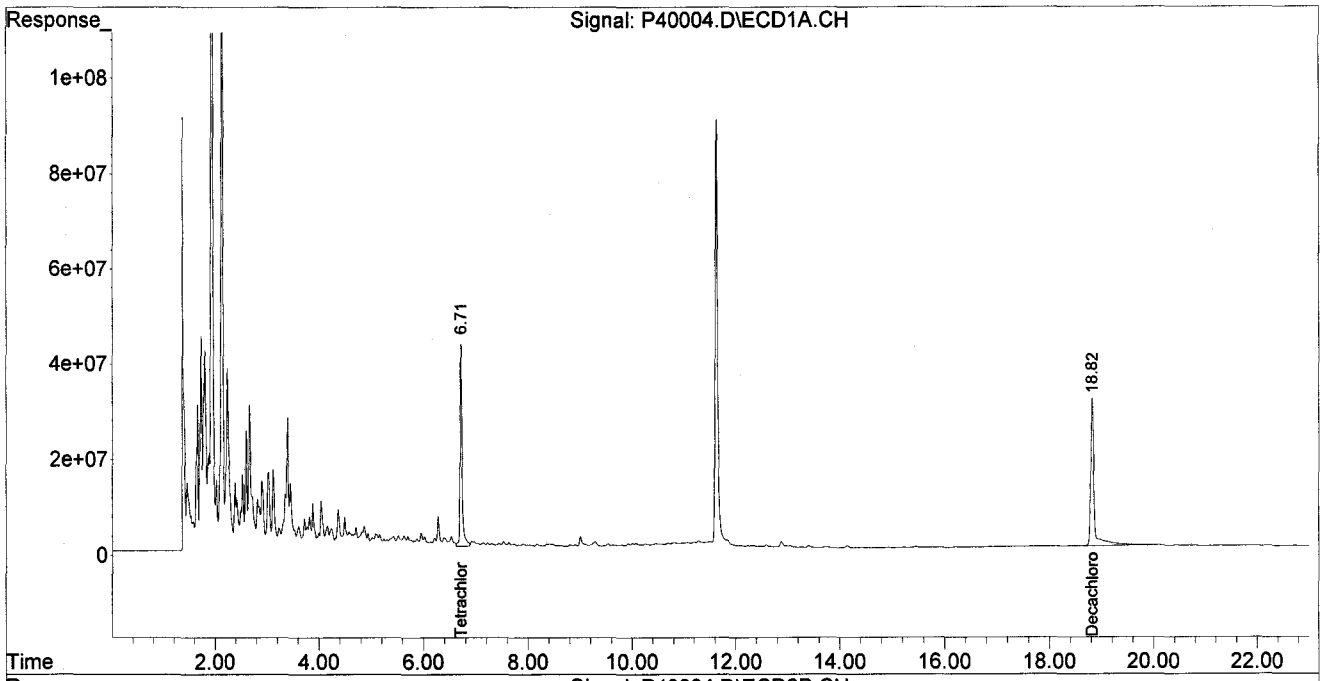
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

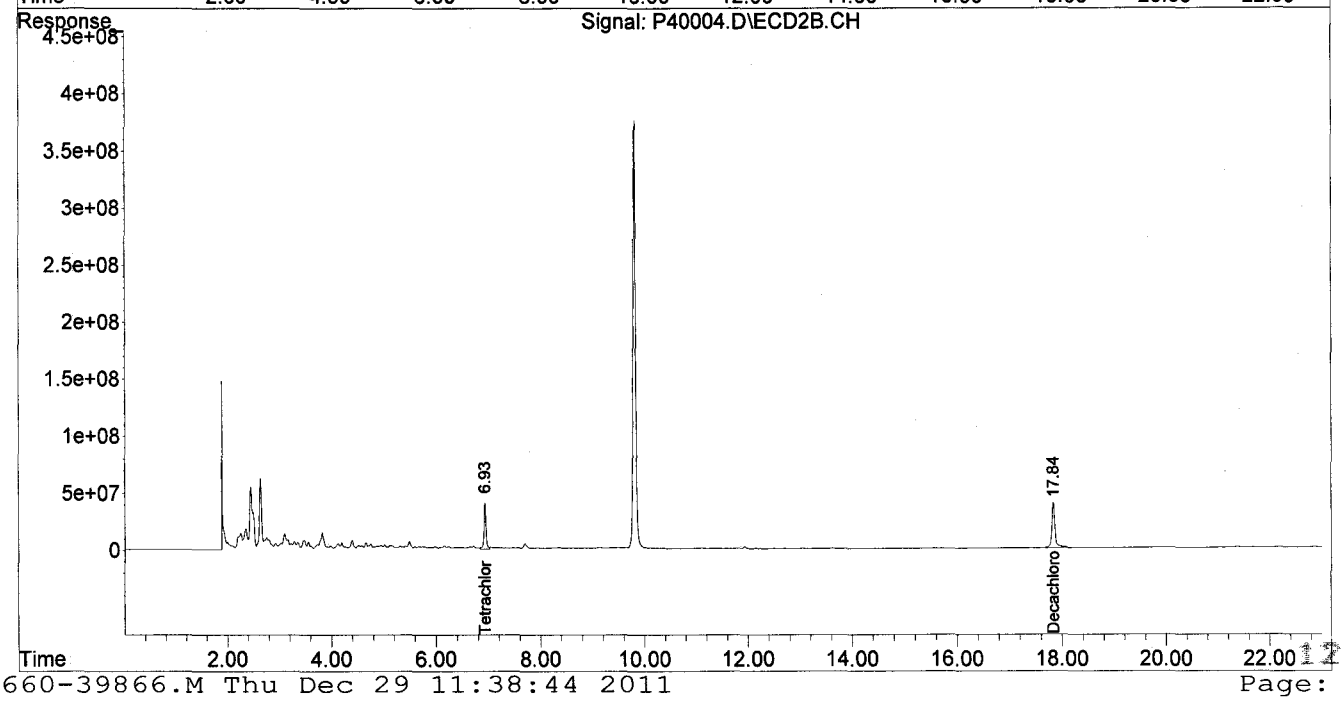
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40004.D(Signal #1) P40004.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:42 (Signal #1); 12/28/11 17:12 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ6 (Sig #1); F4XQ6 (Sig #2)
Misc : S-4465.04 48.4G/10.0ML (Sig #1); S-4465.04 48.4G/10.0ML (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:59:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40004.D(Signal #1) P40004.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:42 (Signal #1); 12/28/11 17:12 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ6 (Sig #1); F4XQ6 (Sig #2)
Misc : S-4465.04 48.4G/10.0ML (Sig #1); S-4465.04 48.4G/10.0ML (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:59:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

12/29/11

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	1116.6E6	1117.8E6	43.982	54.243
	Spiked Amount 60.000	Range 18 - 90		Recovery =		73.30%	90.41%#
5)	s Decachlorobiphen	18.82	17.84	1444.7E6	1700.4E6	77.548	88.516
	Spiked Amount 120.000			Recovery =		64.62%	73.76%
	Target Compounds						
2)	AR1254-1	11.29	11.93	11649391	97619682	12.155	135.262 #
3)	AR1254-2	12.35	12.69	5125313	26111284	7.056	23.582 #
4)	AR1254-3	13.40	13.05	13804266	28331692	18.213	30.152 #

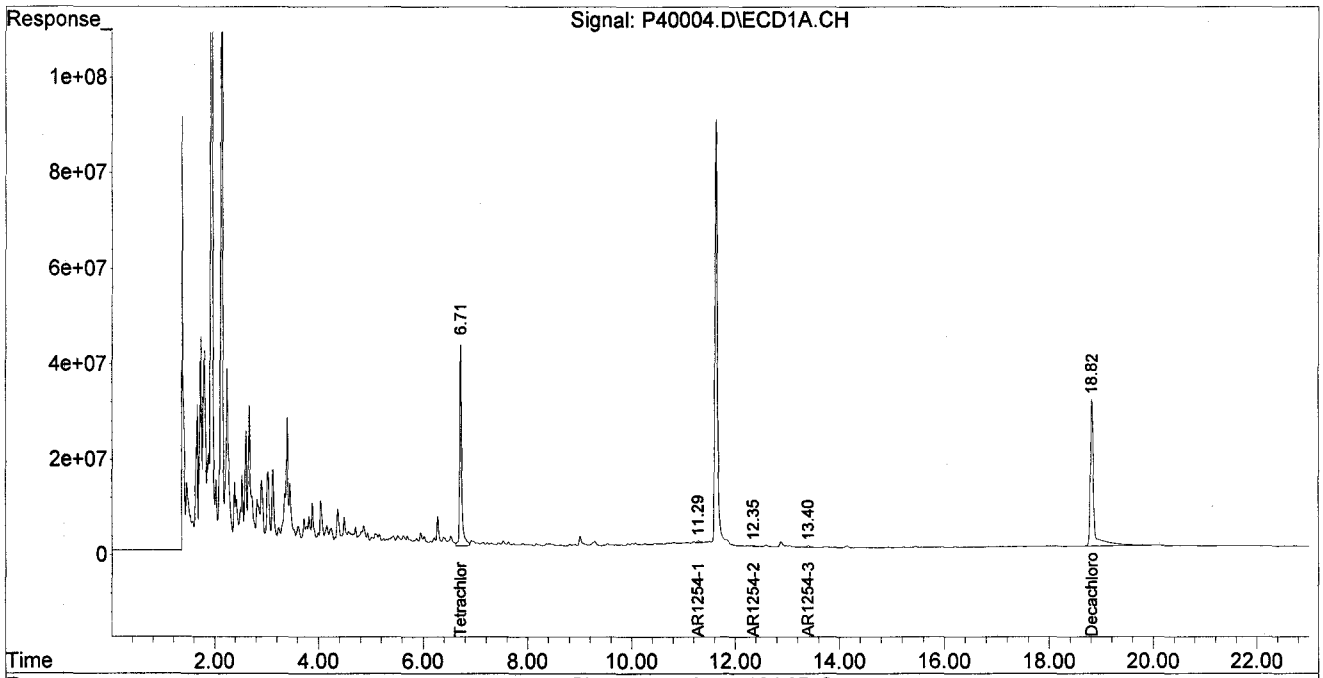
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

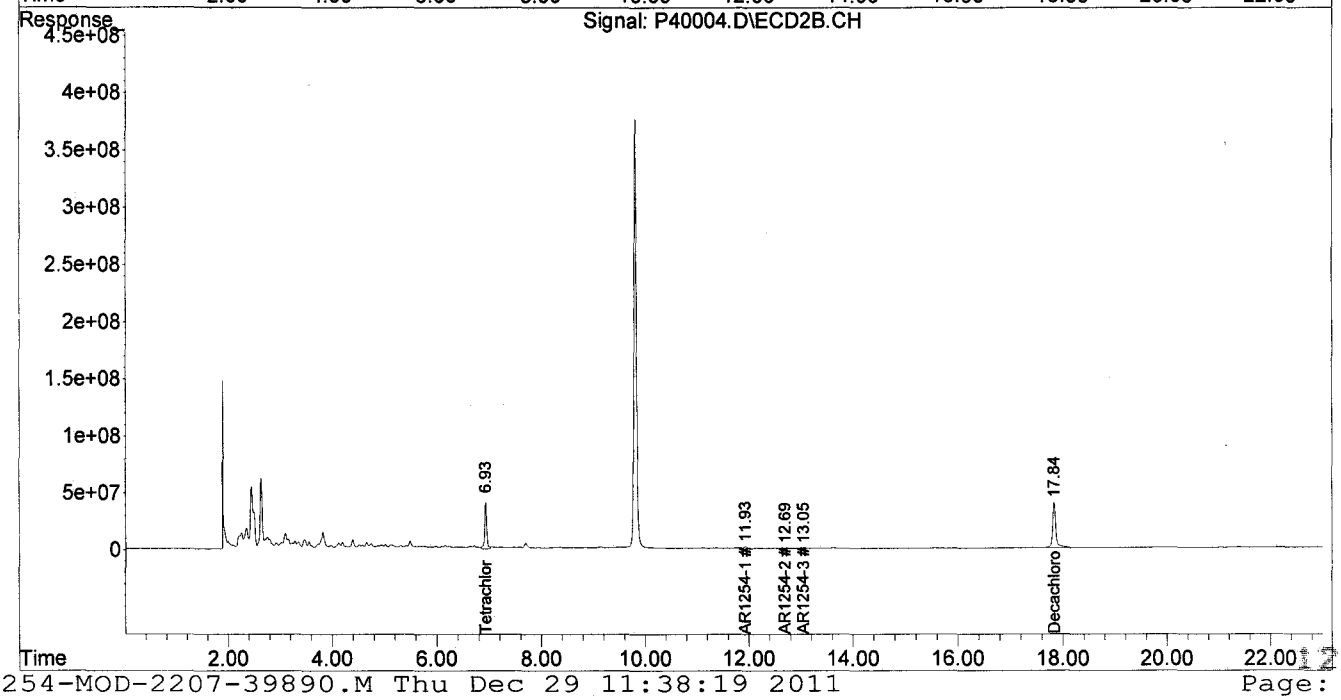
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40004.D(Signal #1) P40004.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 16:42 (Signal #1); 12/28/11 17:12 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ6 (Sig #1); F4XQ6 (Sig #2)
Misc : S-4465.04 48.4G/10.0ML (Sig #1); S-4465.04 48.4G/10.0ML (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

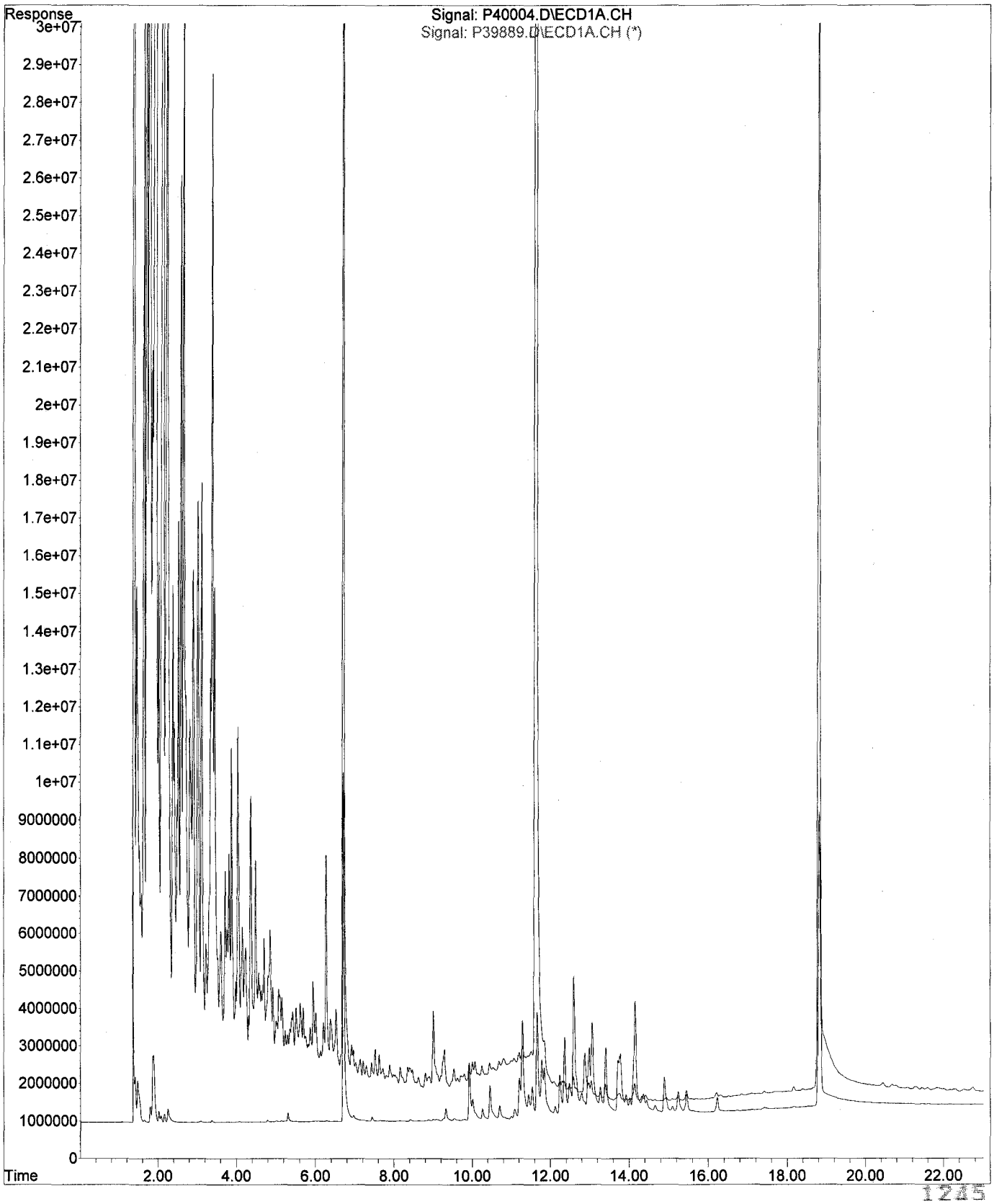
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:59:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

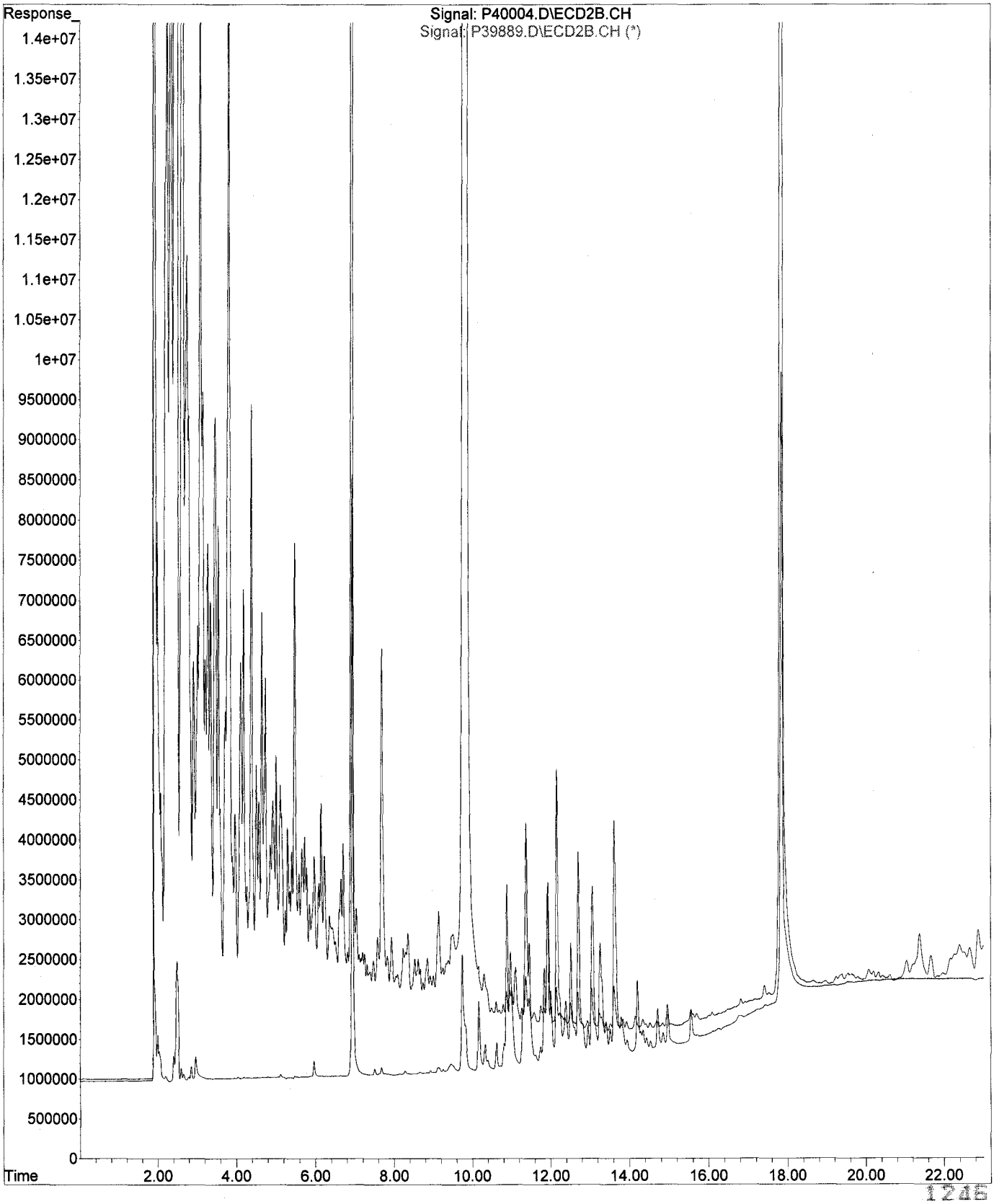




File :C:\MSDChem\1\data\P40004.D
Operator : KVR
Acquired : 28 Dec 2011 4:42 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ6
Misc Info : S-4465.04 48.4G/10.0ML
Vial Number: 10



File :C:\MSDChem\1\data\P40004.D
Operator : KVR
Acquired : 28 Dec 2011 4:42 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ6
Misc Info : S-4465.04 48.4G/10.0ML
Vial Number: 10



1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.06

Sample wt/vol: 48.10 (g/mL) G Lab File ID: P40010

% Moisture: 37 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.4 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	46	P
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	51	
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40010.D(Signal #1) P40010.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:45 (Signal #1); 12/28/11 20:15 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 48.1G/10.0ML (Sig #1); S-4476.06 48.1G/10.0ML (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:07:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

12/29/11

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1209.4E6	1208.6E6	48.764	57.337
	Spiked Amount 60.000	Range 18 - 90		Recovery =		81.27%	95.56%#
8)	s Decachlorobiphen	18.82	17.84	1568.4E6	1846.2E6	89.661	97.684
	Spiked Amount 120.000			Recovery =		74.72%	81.40%
	Target Compounds						

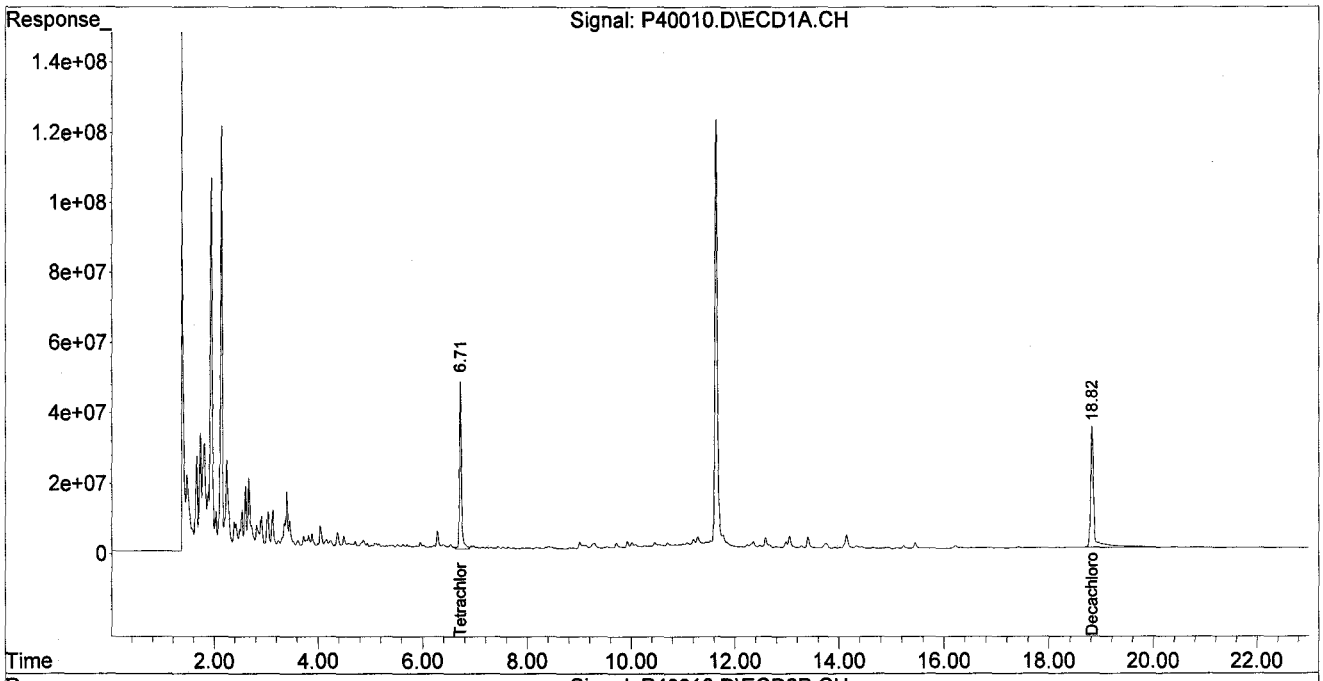
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

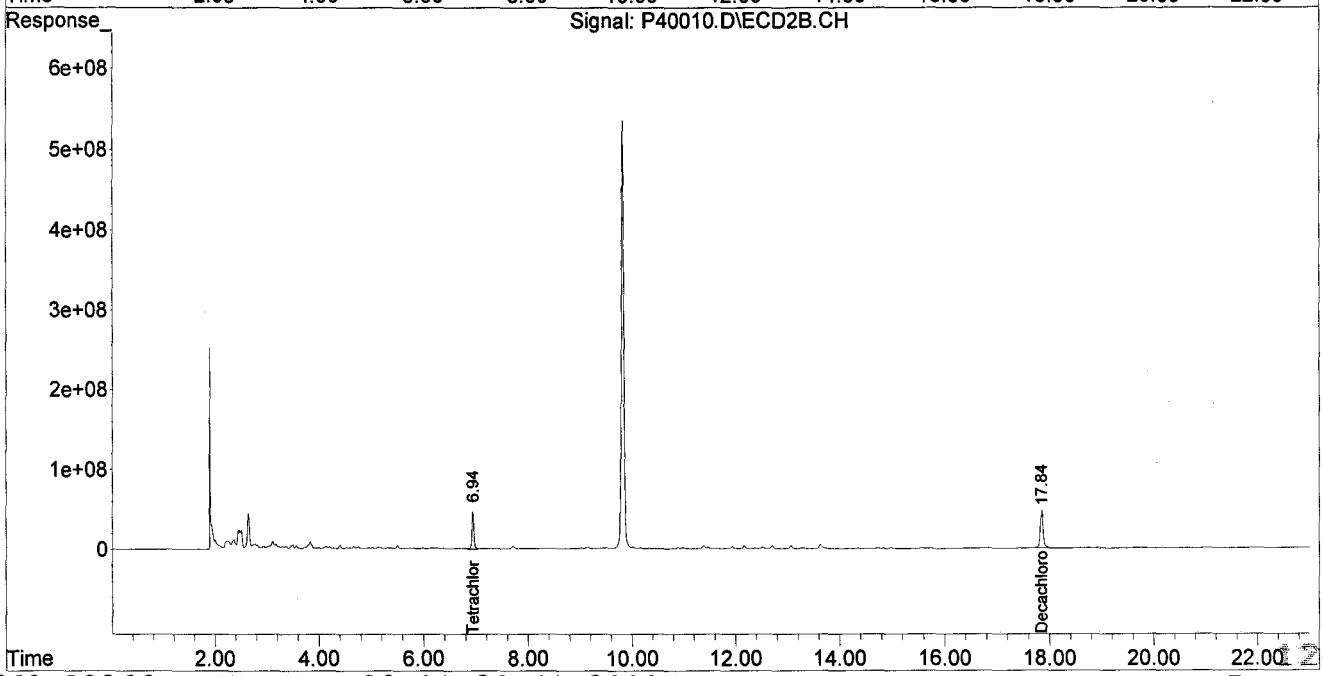
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40010.D(Signal #1) P40010.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:45 (Signal #1); 12/28/11 20:15 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 48.1G/10.0ML (Sig #1); S-4476.06 48.1G/10.0ML (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:07:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40010.D(Signal #1) P40010.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:45 (Signal #1); 12/28/11 20:15 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 48.1G/10.0ML (Sig #1); S-4476.06 48.1G/10.0ML (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:07:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1209.4E6	1208.7E6	47.028	54.435
	Spiked Amount 60.000	Range 18 - 90		Recovery =		78.38%	90.72%#
5)	s Decachlorobiphen	18.82	17.84	1568.4E6	1858.5E6	95.521	148.553 #
	Spiked Amount 120.000			Recovery =		79.60%	123.79%
	Target Compounds						
2)	AR1242-1	9.92	10.32	74001846	49285062	244.867	180.921 #
3)	AR1242-2	10.45	10.40	102.7E6	34628362	251.432	82.832 #
4)	AR1242-3	11.08	10.80	100.4E6	33830794	382.521	151.216 #

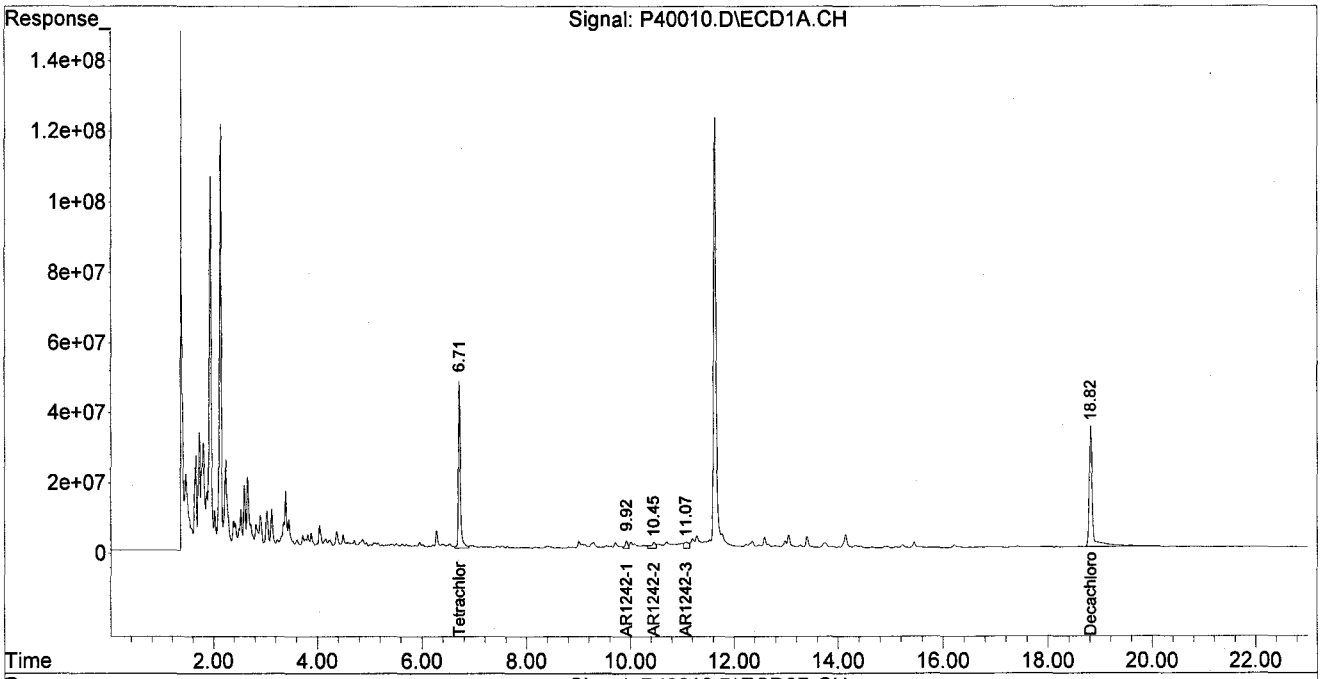
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

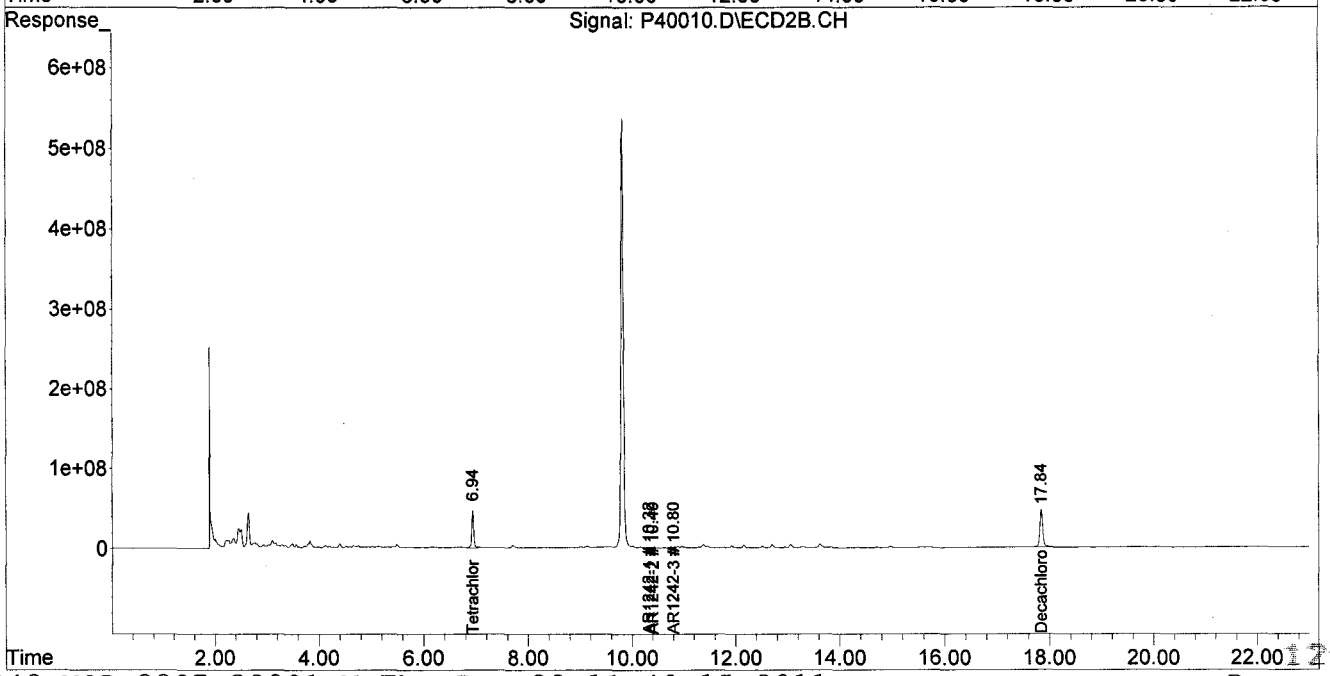
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40010.D(Signal #1) P40010.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:45 (Signal #1); 12/28/11 20:15 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 48.1G/10.0ML (Sig #1); S-4476.06 48.1G/10.0ML (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

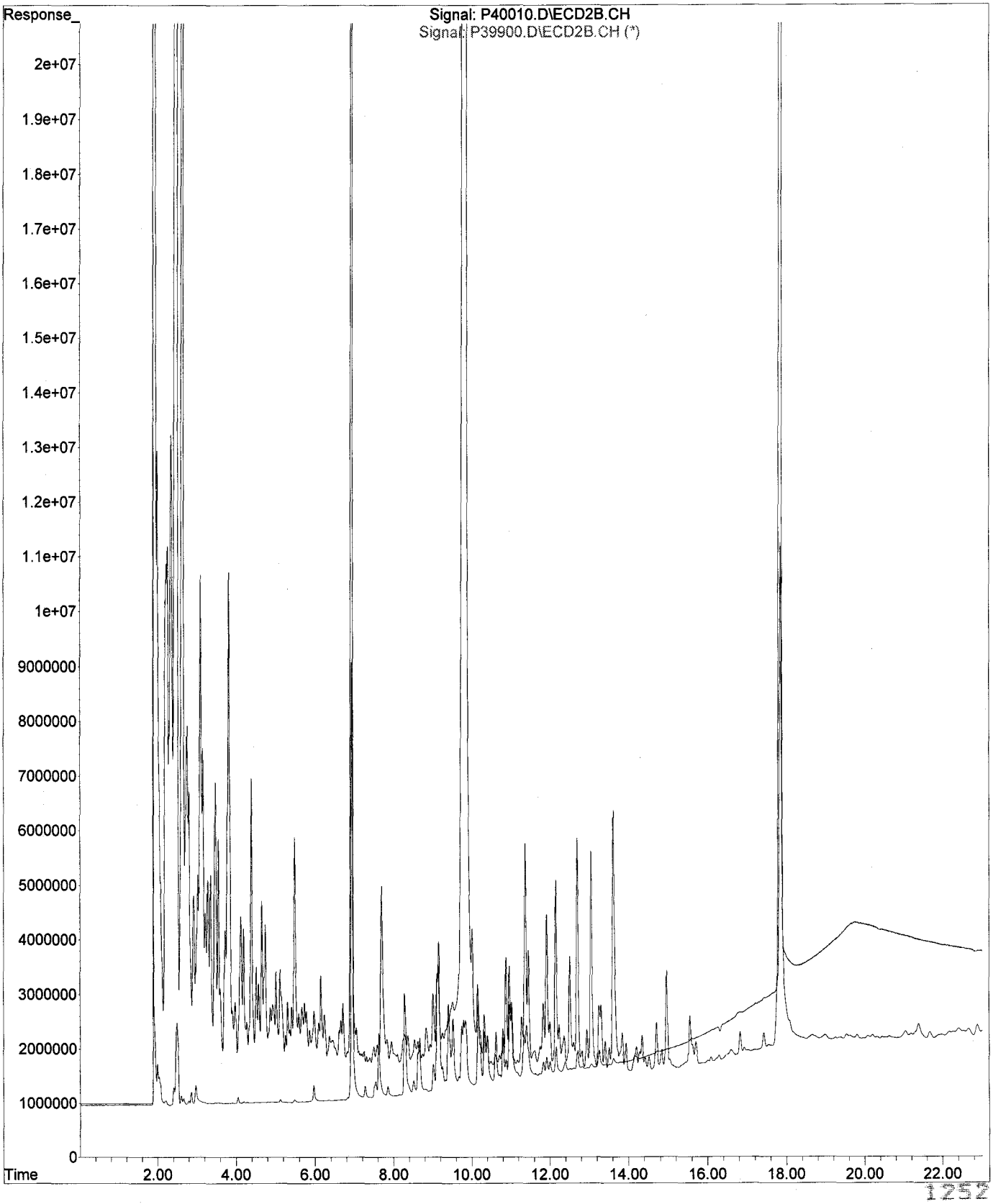
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:07:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

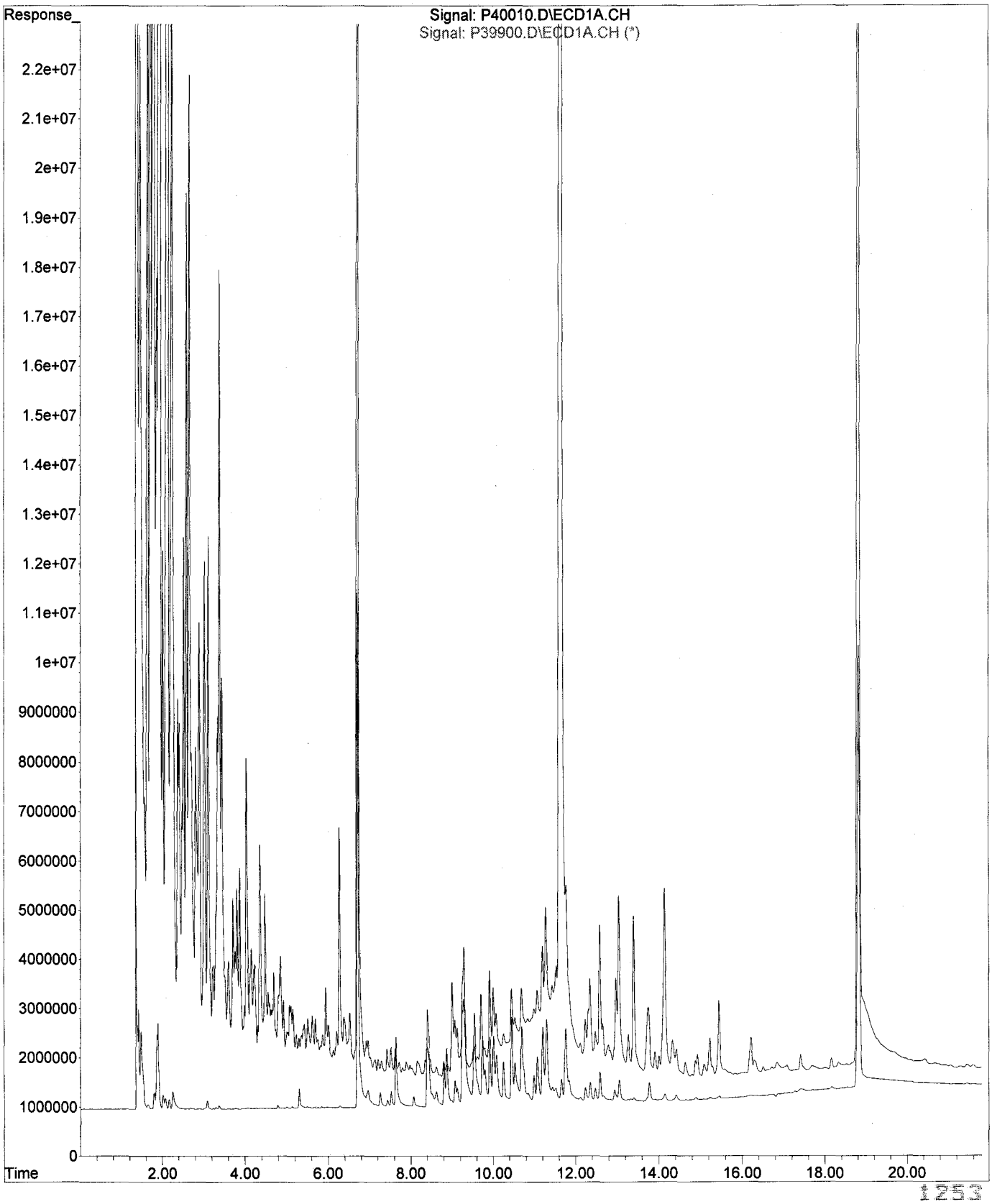




File :C:\MSDChem\1\data\P40010.D
Operator : KVR
Acquired : 28 Dec 2011 7:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ7
Misc Info : S-4476.06 48.1G/10.0ML
Vial Number: 16



File :C:\MSDChem\1\data\P40010.D
Operator : KVR
Acquired : 28 Dec 2011 7:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ7
Misc Info : S-4476.06 48.1G/10.0ML
Vial Number: 16



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40010.D(Signal #1) P40010.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:45 (Signal #1); 12/28/11 20:15 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 48.1G/10.0ML (Sig #1); S-4476.06 48.1G/10.0ML (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 11:39:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 10:49:32 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

12/29/11

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	6.71	6.94	1209.4E6	1208.7E6	47.639	58.656	
	Spiked Amount 60.000	Range 18 - 90			Recovery =	79.40%	97.76%#	
5)	s Decachlorobiphen	18.82	17.84	1568.4E6	1858.5E6	84.192	96.746	
	Spiked Amount 120.000				Recovery =	70.16%	80.62%	
	Target Compounds							
2)	AR1254-1	11.28	11.93	204.6E6	109.3E6	213.479	151.498	#
3)	AR1254-2	12.35	12.70	80290637	153.3E6	110.541	138.425	#
4)	AR1254-3	13.40	13.06	130.5E6	160.3E6	172.208	170.604	

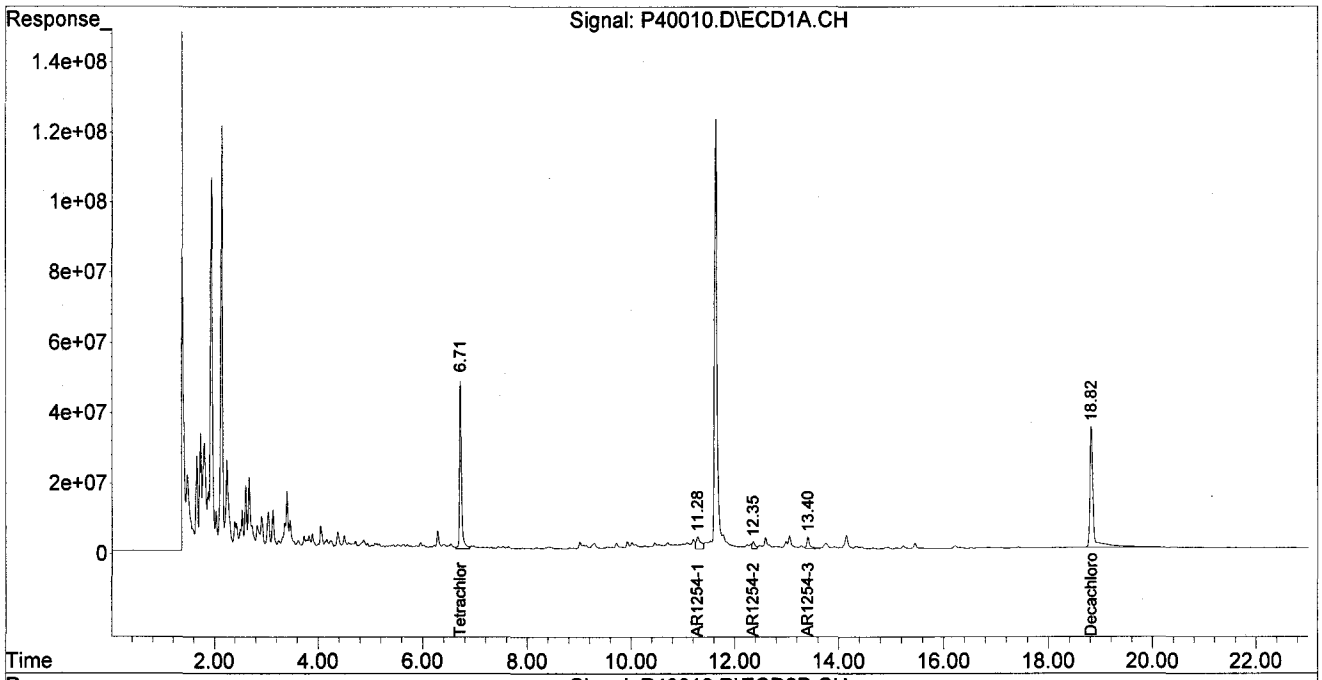
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

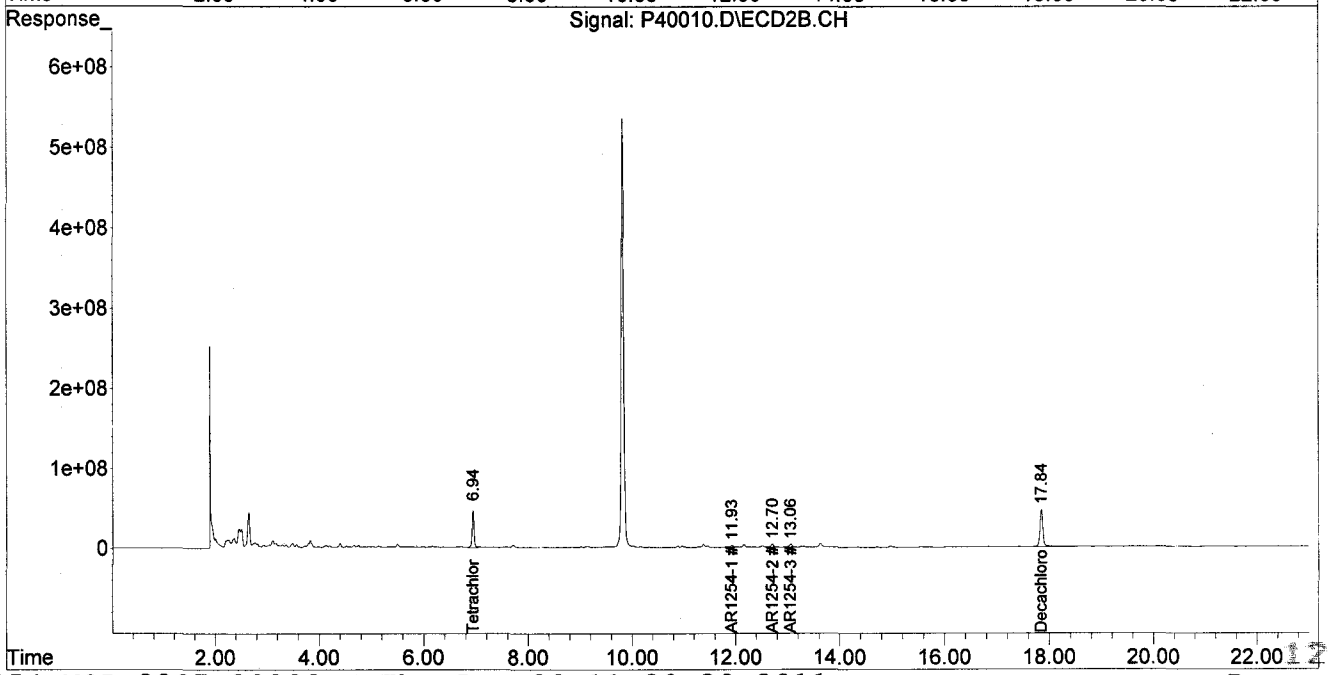
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40010.D(Signal #1) P40010.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 19:45 (Signal #1); 12/28/11 20:15 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ7 (Sig #1); F4XQ7 (Sig #2)
Misc : S-4476.06 48.1G/10.0ML (Sig #1); S-4476.06 48.1G/10.0ML (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

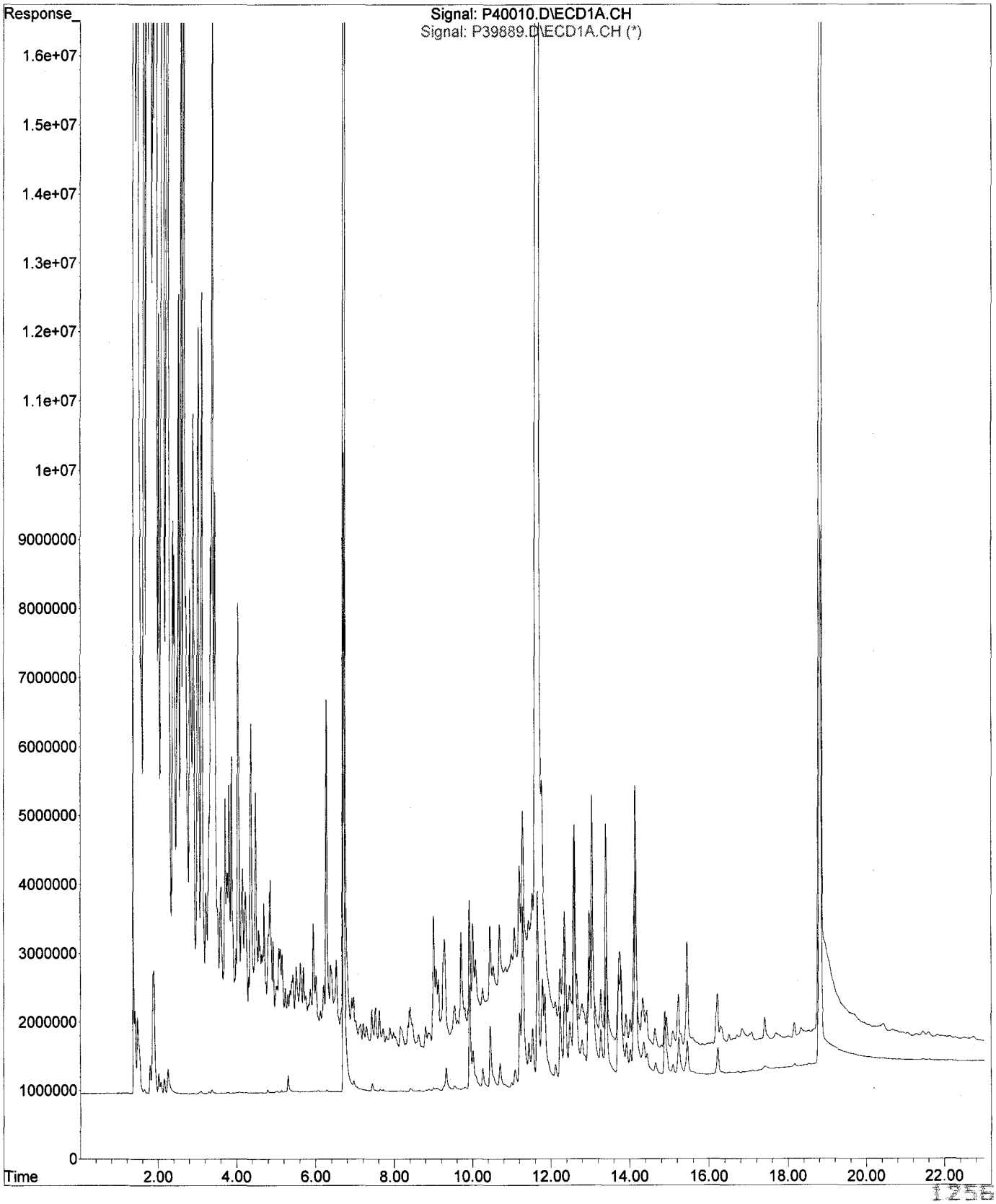
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 11:39:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 10:49:32 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

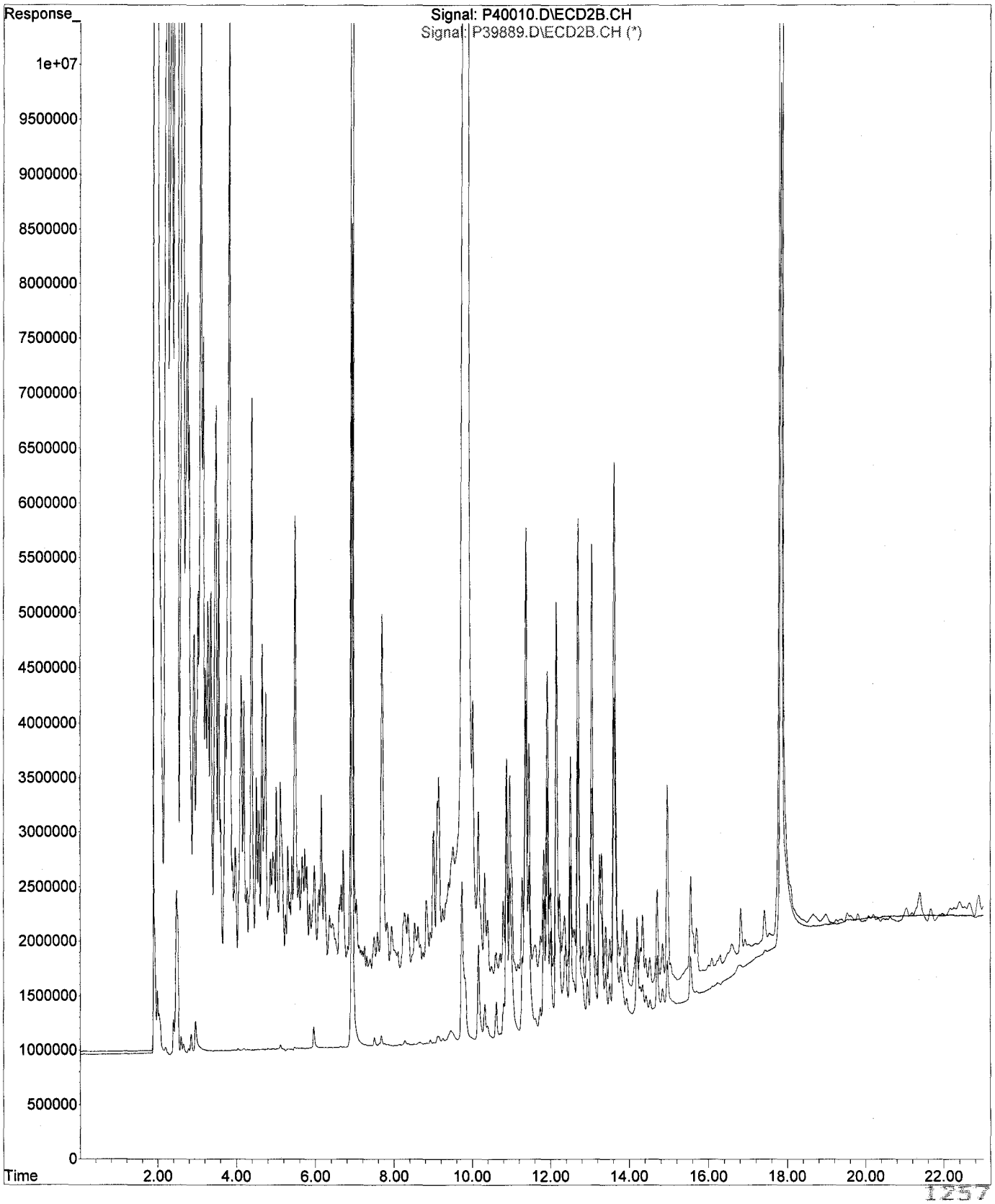




File :C:\MSDChem\1\data\P40010.D
Operator : KVR
Acquired : 28 Dec 2011 7:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ7
Misc Info : S-4476.06 48.1G/10.0ML
Vial Number: 16



File :C:\MSDChem\1\data\P40010.D
Operator : KVR
Acquired : 28 Dec 2011 7:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ7
Misc Info : S-4476.06 48.1G/10.0ML
Vial Number: 16



1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.07

Sample wt/vol: 50.30 (g/mL) G Lab File ID: P40011

% Moisture: 62 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.2 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	10	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	10	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	15	P
11096-82-5	Aroclor-1260	52	U
37324-23-5	Aroclor-1262	52	U
11100-14-4	Aroclor-1268	52	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40011.D(Signal #1) P40011.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:15 (Signal #1); 12/28/11 20:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ8 (Sig #1); F4XQ8 (Sig #2)
Misc : S-4476.07 50.3G/10.0ML (Sig #1); S-4476.07 50.3G/10.0ML (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:08:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1403.1E6	1255.8E6	56.575	59.577
Spiked Amount 60.000	Range 18 - 90		Recovery =		94.29%#	99.30%#
8) s Decachlorobiphen	18.82	17.85	1707.9E6	1761.9E6	97.633	93.225
Spiked Amount 120.000			Recovery =		81.36%	77.69%
Target Compounds						

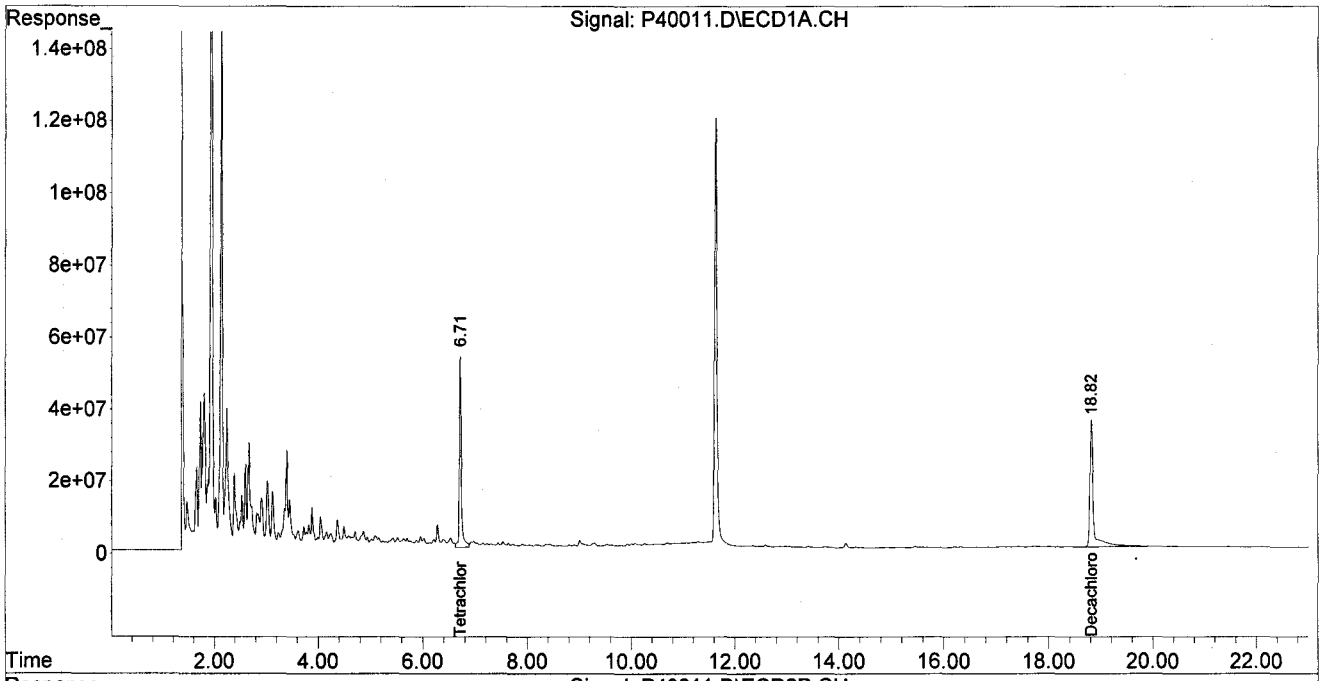
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

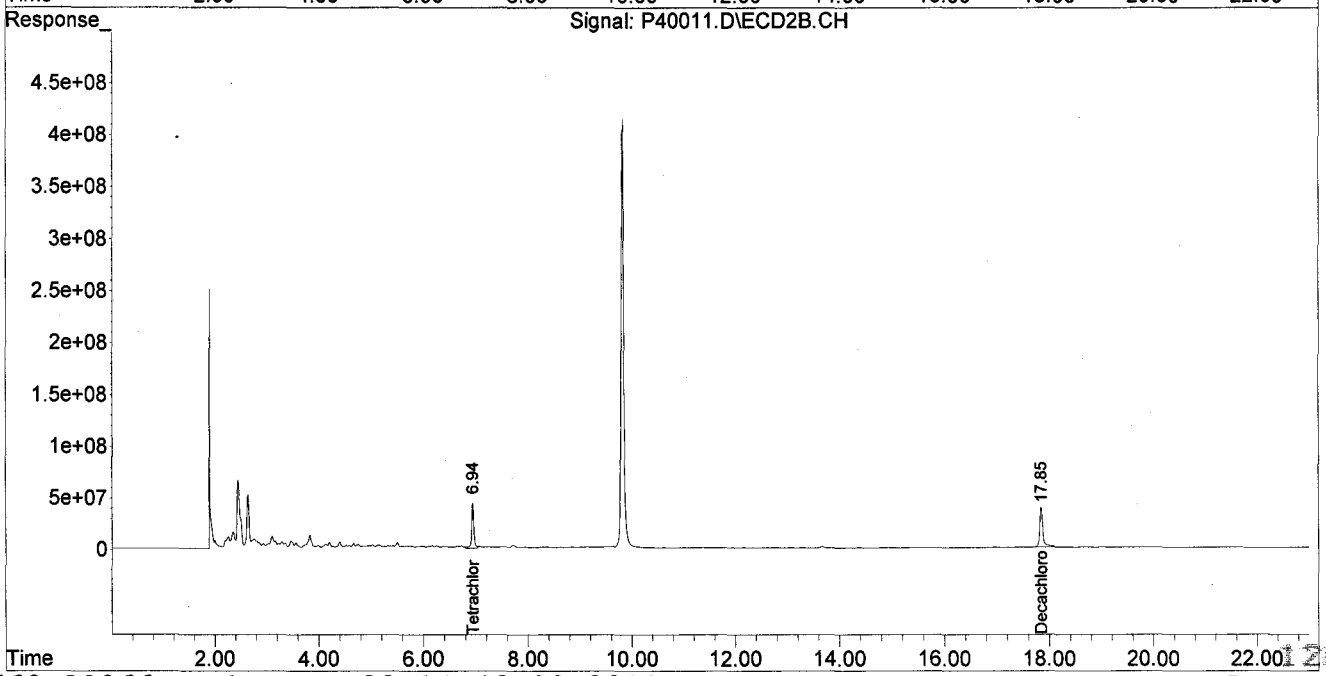
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40011.D(Signal #1) P40011.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:15 (Signal #1); 12/28/11 20:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ8 (Sig #1); F4XQ8 (Sig #2)
Misc : S-4476.07 50.3G/10.0ML (Sig #1); S-4476.07 50.3G/10.0ML (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:08:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40011.D(Signal #1) P40011.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:15 (Signal #1); 12/28/11 20:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ8 (Sig #1); F4XQ8 (Sig #2)
Misc : S-4476.07 50.3G/10.0ML (Sig #1); S-4476.07 50.3G/10.0ML (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:08:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1403.1E6	1290.4E6	55.270	62.620
	Spiked Amount 60.000	Range 18 - 90		Recovery =		92.12%#	104.37%#
5)	s Decachlorobiphen	18.82	17.85	1707.9E6	1804.6E6	91.677	93.944
	Spiked Amount 120.000			Recovery =		76.40%	78.29%
	Target Compounds						
2)	AR1254-1	11.29	11.94	56732339	56726543	59.195	78.601 #
3)	AR1254-2	12.35	12.71	8879040	39160685	12.224	35.367 #
4)	AR1254-3	13.40	13.06	10594040	31403683	13.977	33.422 #

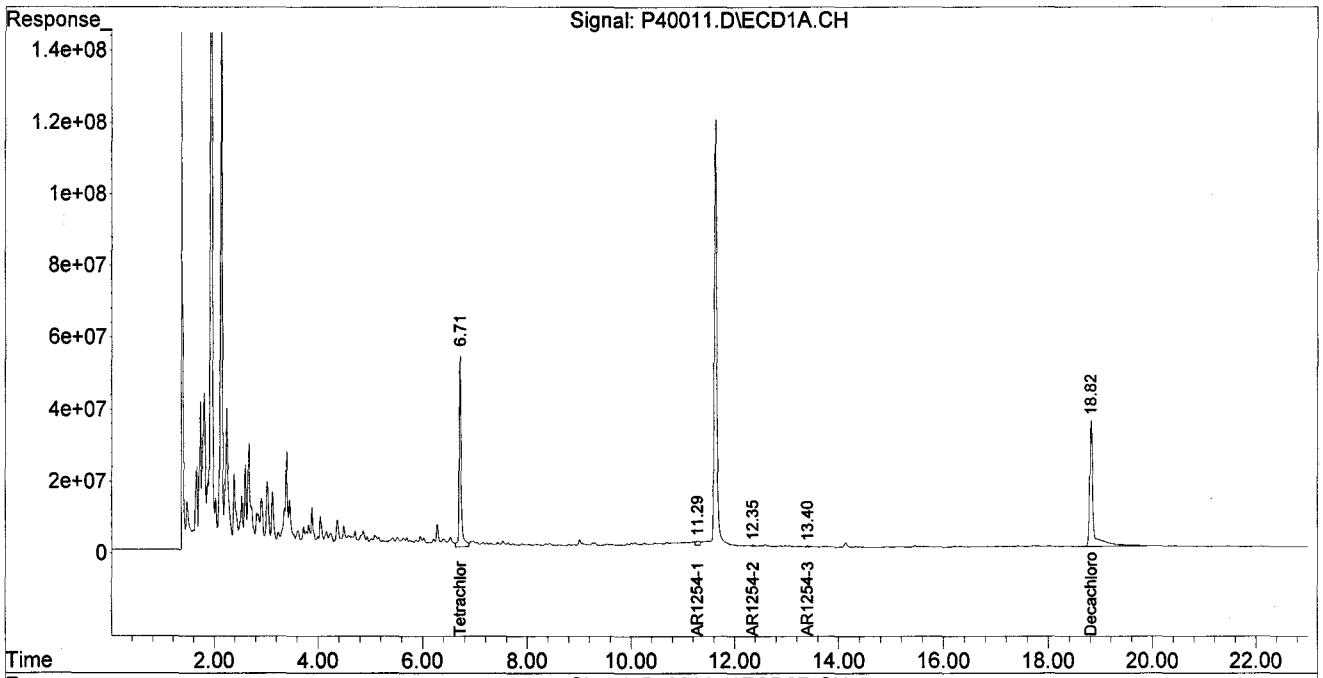
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

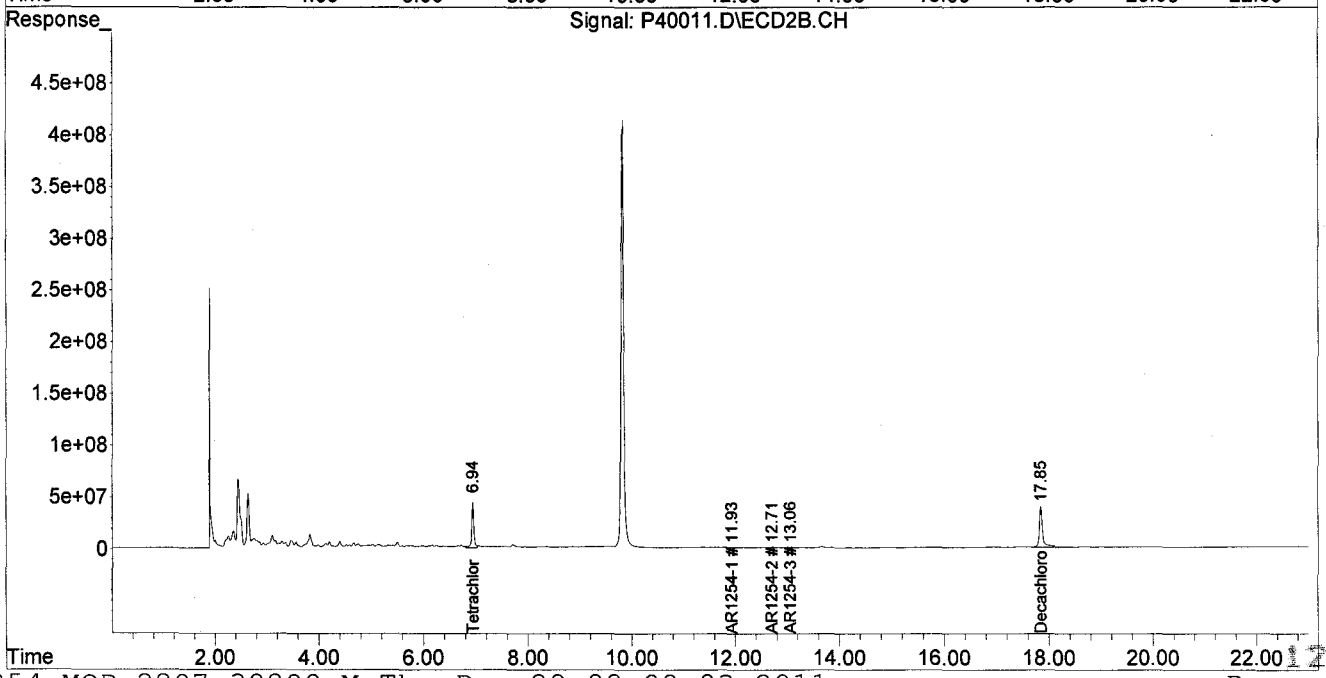
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40011.D(Signal #1) P40011.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:15 (Signal #1); 12/28/11 20:45 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ8 (Sig #1); F4XQ8 (Sig #2)
Misc : S-4476.07 50.3G/10.0ML (Sig #1); S-4476.07 50.3G/10.0ML (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

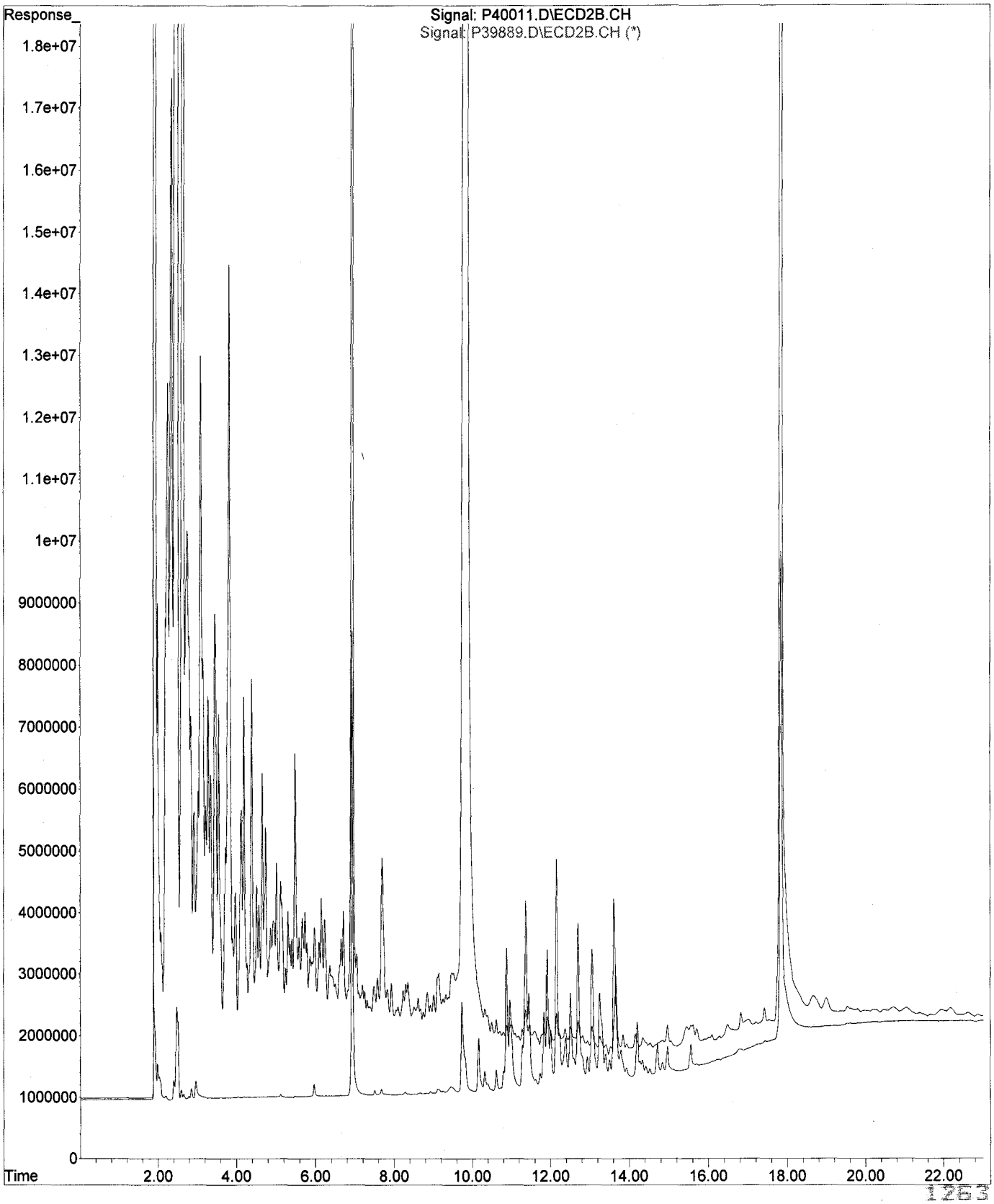
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:08:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

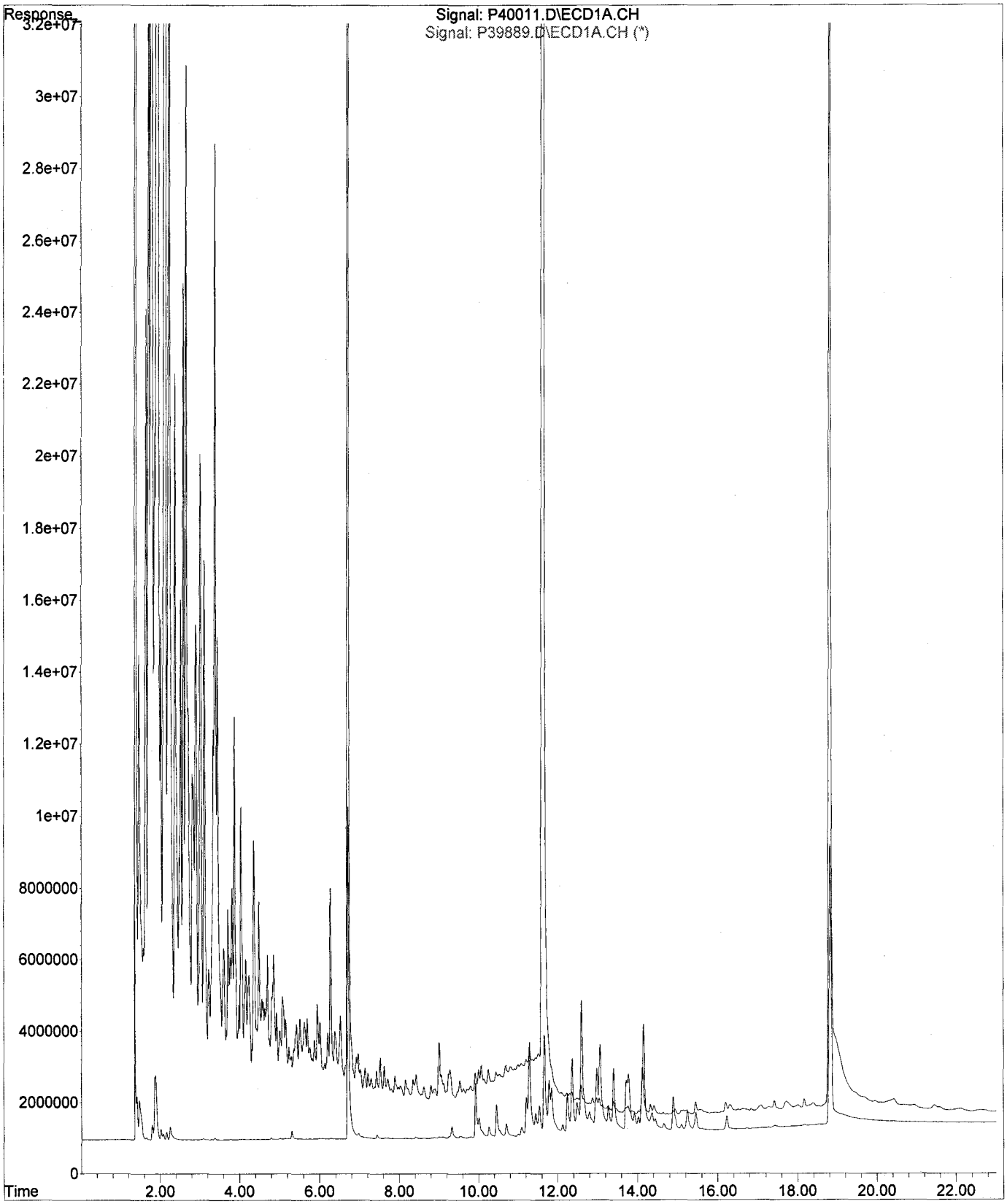




File :C:\MSDChem\1\data\P40011.D
Operator : KVR
Acquired : 28 Dec 2011 8:15 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ8
Misc Info : S-4476.07 50.3G/10.0ML
Vial Number: 17



File : C:\MSDChem\1\data\P40011.D
Operator : KVR
Acquired : 28 Dec 2011 8:15 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ8
Misc Info : S-4476.07 50.3G/10.0ML
Vial Number: 17



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4476.08

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P40012

% Moisture: 45 Decanted: (Y/N) N Date Received: 12/09/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Fact 1.0

GPC Cleanup: (Y/N) N pH: 8.5 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	7.2	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	23	P
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	11	P
11096-82-5	Aroclor-1260	36	U
37324-23-5	Aroclor-1262	36	U
11100-14-4	Aroclor-1268	36	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40012.D(Signal #1) P40012.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:45 (Signal #1); 12/28/11 21:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 50.1G/10.0ML (Sig #1); S-4476.08 50.1G/10.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:10:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1210.8E6	1244.3E6	48.819	59.035
Spiked Amount 60.000	Range 18 - 90		Recovery =		81.37%	98.39%#
8) s Decachlorobiphen	18.82	17.85	1665.7E6	1905.2E6	95.221	100.807
Spiked Amount 120.000			Recovery =		79.35%	84.01%
Target Compounds						

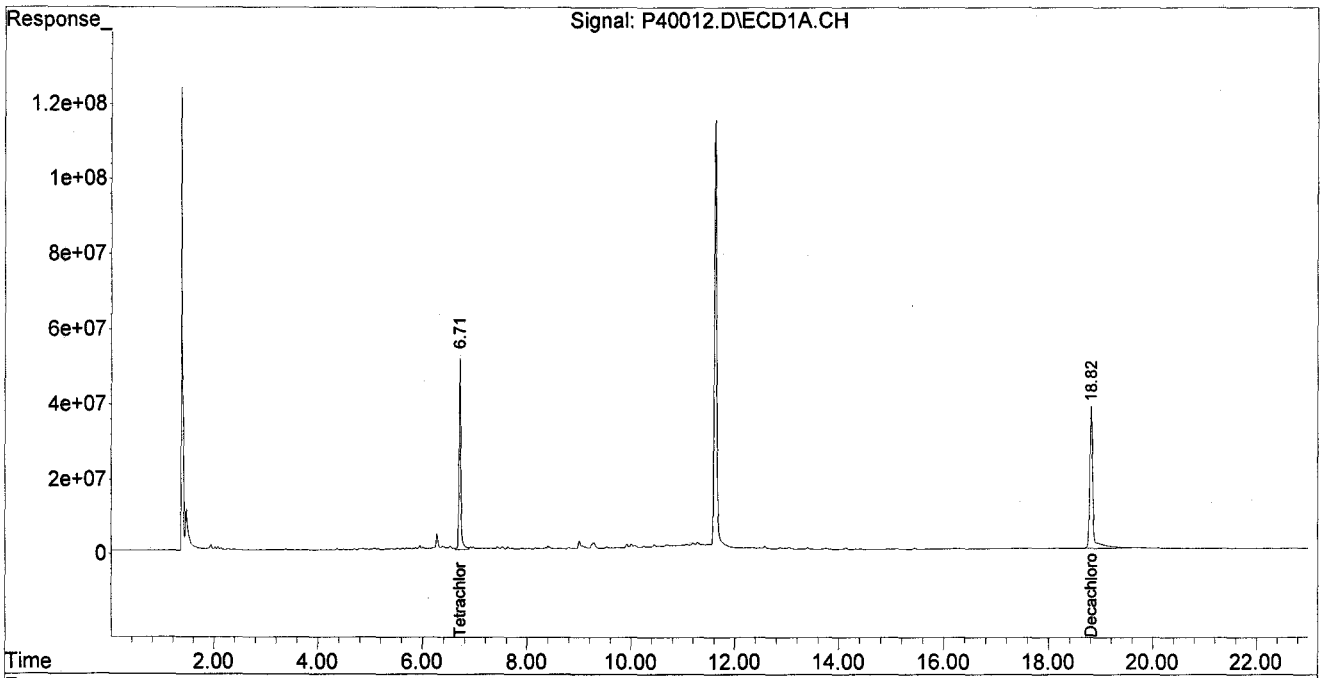
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

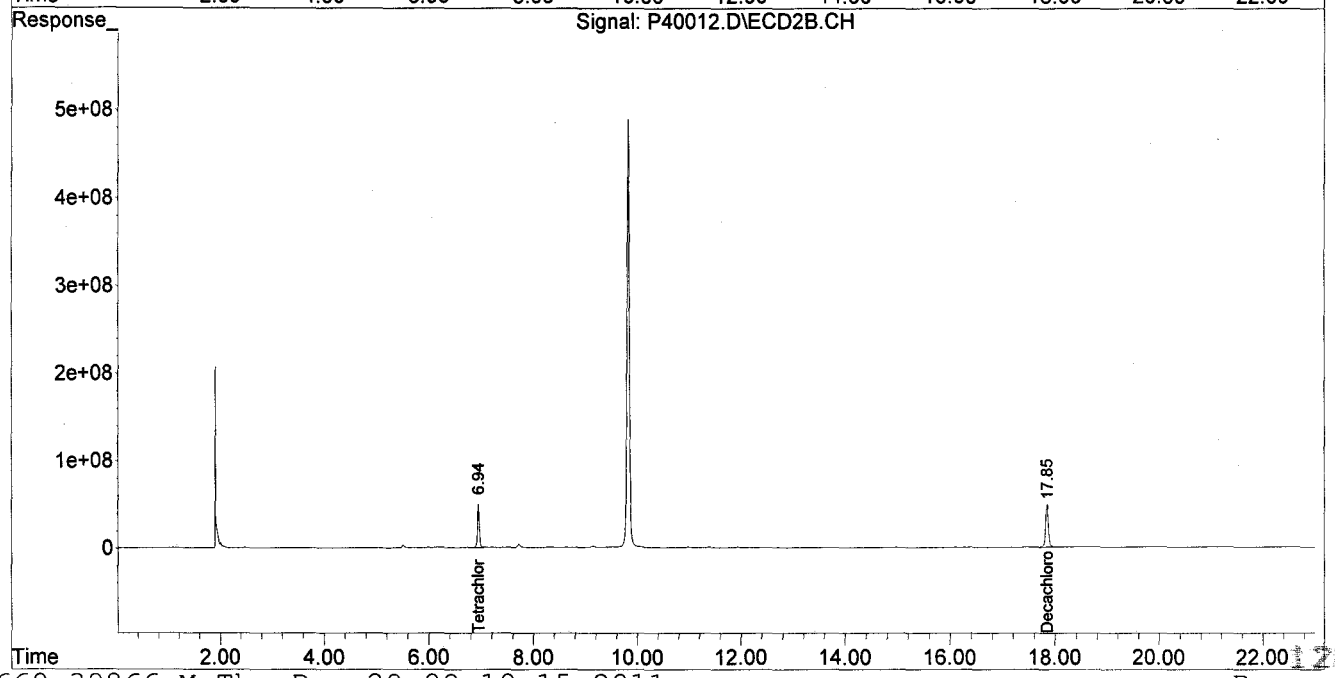
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40012.D(Signal #1) P40012.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:45 (Signal #1); 12/28/11 21:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 50.1G/10.0ML (Sig #1); S-4476.08 50.1G/10.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:10:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40012.D(Signal #1) P40012.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:45 (Signal #1); 12/28/11 21:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 50.1G/10.0ML (Sig #1); S-4476.08 50.1G/10.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:10:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1210.8E6	1297.8E6	47.081	58.444
	Spiked Amount 60.000	Range 18 - 90		Recovery =		78.47%	97.41%#
5)	s Decachlorobiphen	18.82	17.85	1665.7E6	1901.1E6	101.444	151.963 #
	Spiked Amount 120.000			Recovery =		84.54%	126.64%
	Target Compounds						
2)	AR1242-1	9.92	10.32	24671610	47185498	81.637	173.213 #
3)	AR1242-2	10.45	10.40	13689728	30206493	33.514	72.255 #
4)	AR1242-3	11.08	10.81	20021368	24942509	76.273	111.487 #

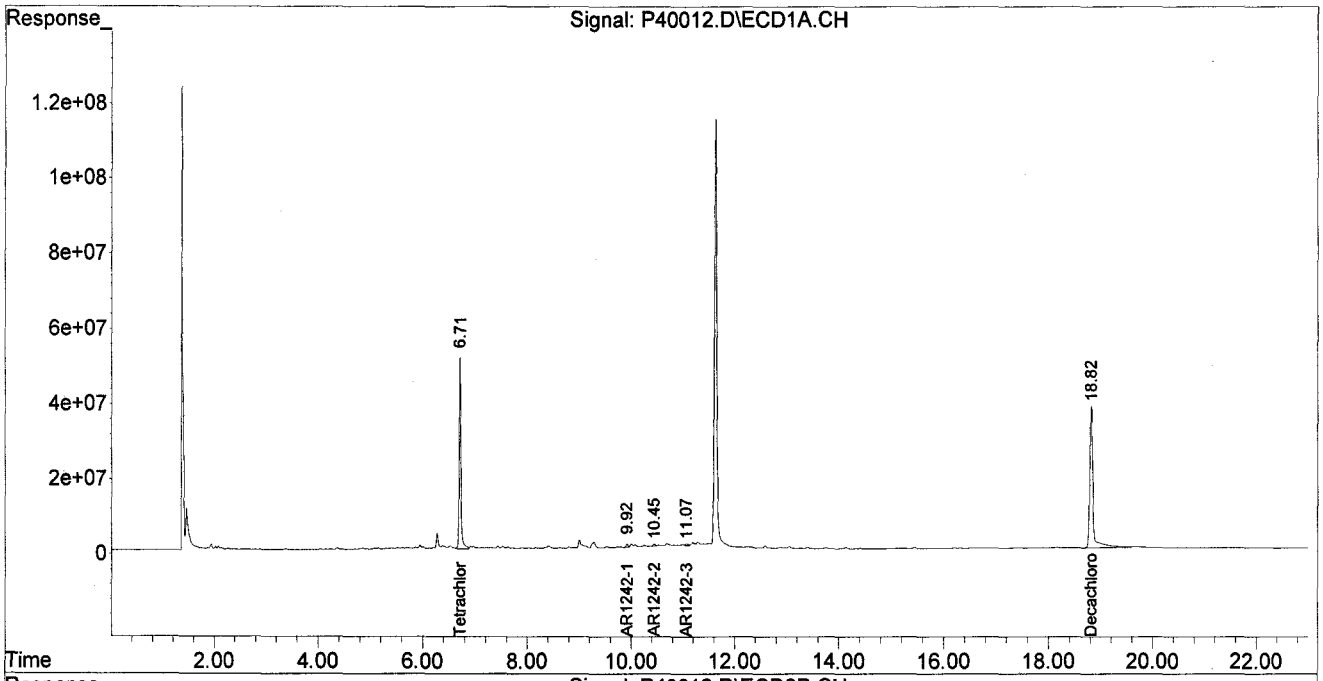
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

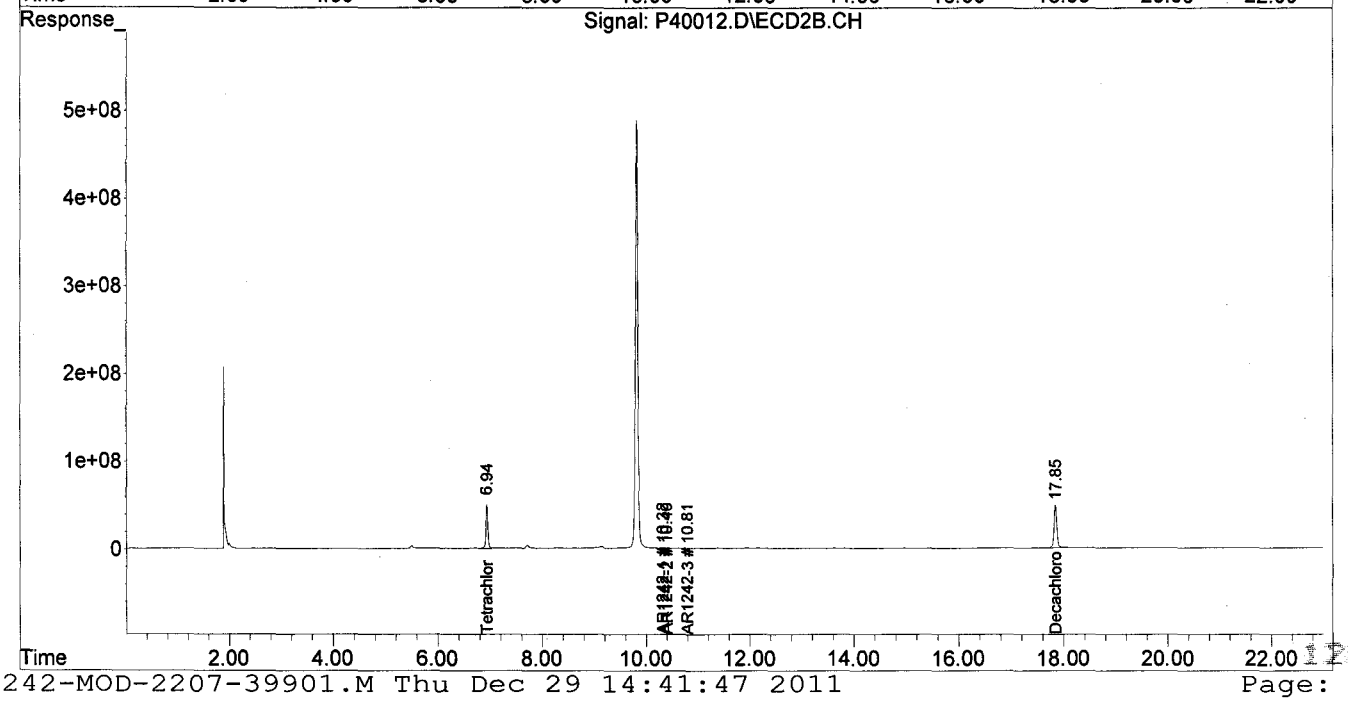
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40012.D(Signal #1) P40012.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:45 (Signal #1); 12/28/11 21:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 50.1G/10.0ML (Sig #1); S-4476.08 50.1G/10.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

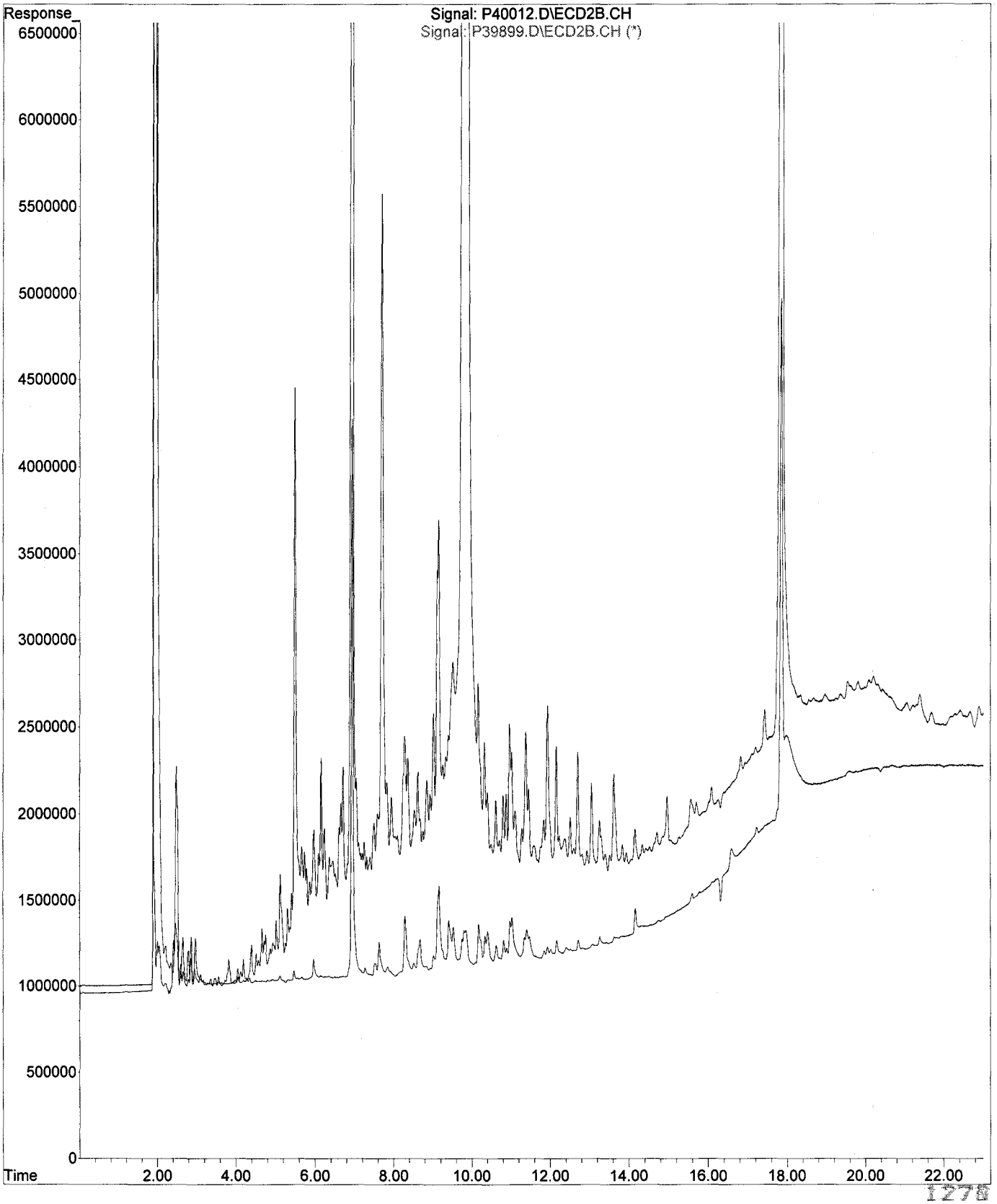
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:10:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

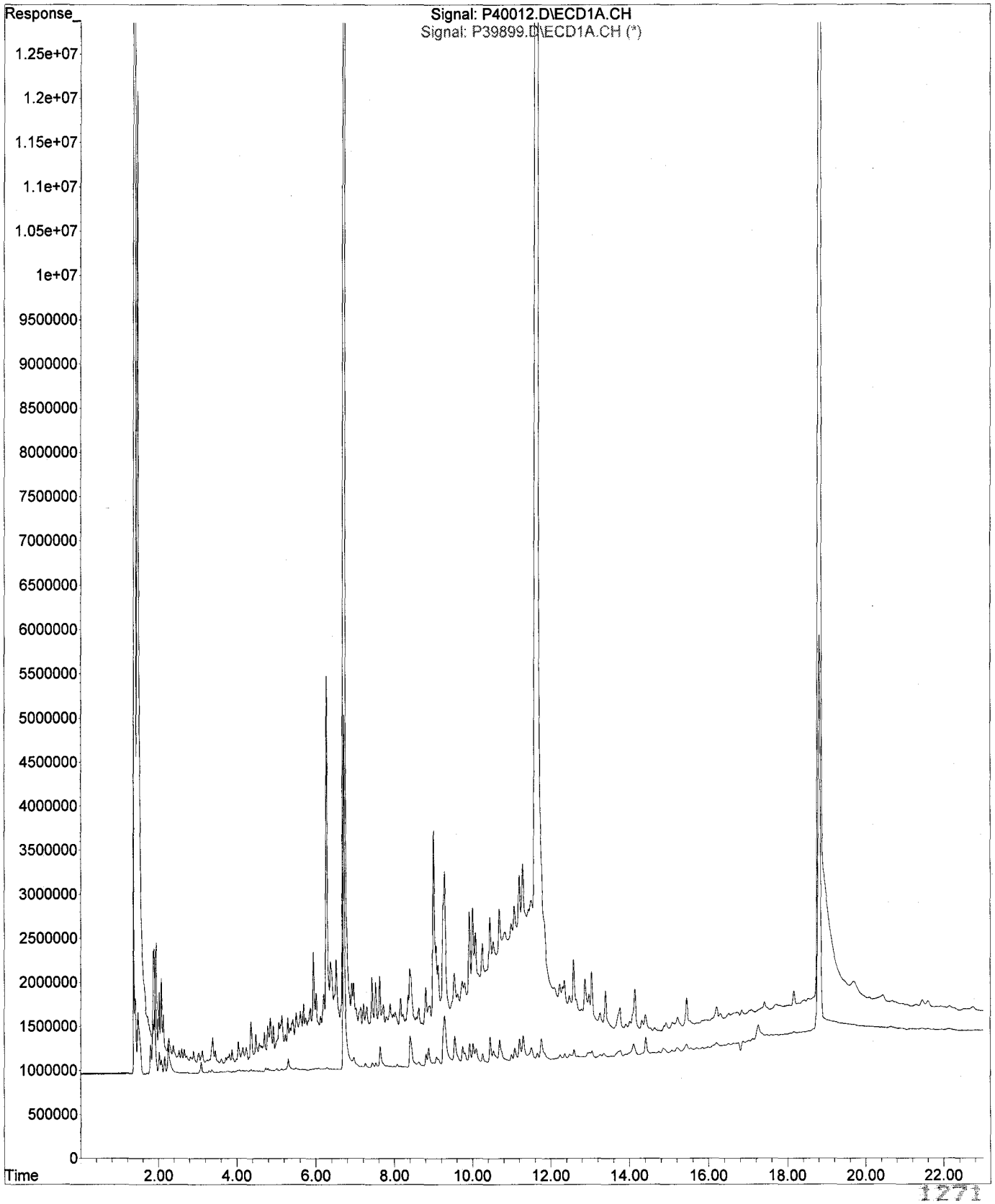




File :C:\MSDChem\1\data\P40012.D
Operator : KVR
Acquired : 28 Dec 2011 8:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ9
Misc Info : S-4476.08 50.1G/10.0ML
Vial Number: 18



File :C:\MSDChem\1\data\P40012.D
Operator : KVR
Acquired : 28 Dec 2011 8:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ9
Misc Info : S-4476.08 50.1G/10.0ML
Vial Number: 18



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40012.D(Signal #1) P40012.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:45 (Signal #1); 12/28/11 21:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 50.1G/10.0ML (Sig #1); S-4476.08 50.1G/10.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:09:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1210.8E6	1297.8E6	47.693	62.977 #
	Spiked Amount 60.000	Range 18 - 90		Recovery =		79.49%	104.96%#
5)	s Decachlorobiphen	18.82	17.85	1665.7E6	1901.1E6	89.412	98.967
	Spiked Amount 120.000			Recovery =		74.51%	82.47%
	Target Compounds						
2)	AR1254-1	11.29	11.94	60783676	58821434	63.423	81.503 #
3)	AR1254-2	12.35	12.71	6915322	29137743	9.521	26.315 #
4)	AR1254-3	13.40	13.06	13195302	24375238	17.409	25.942 #

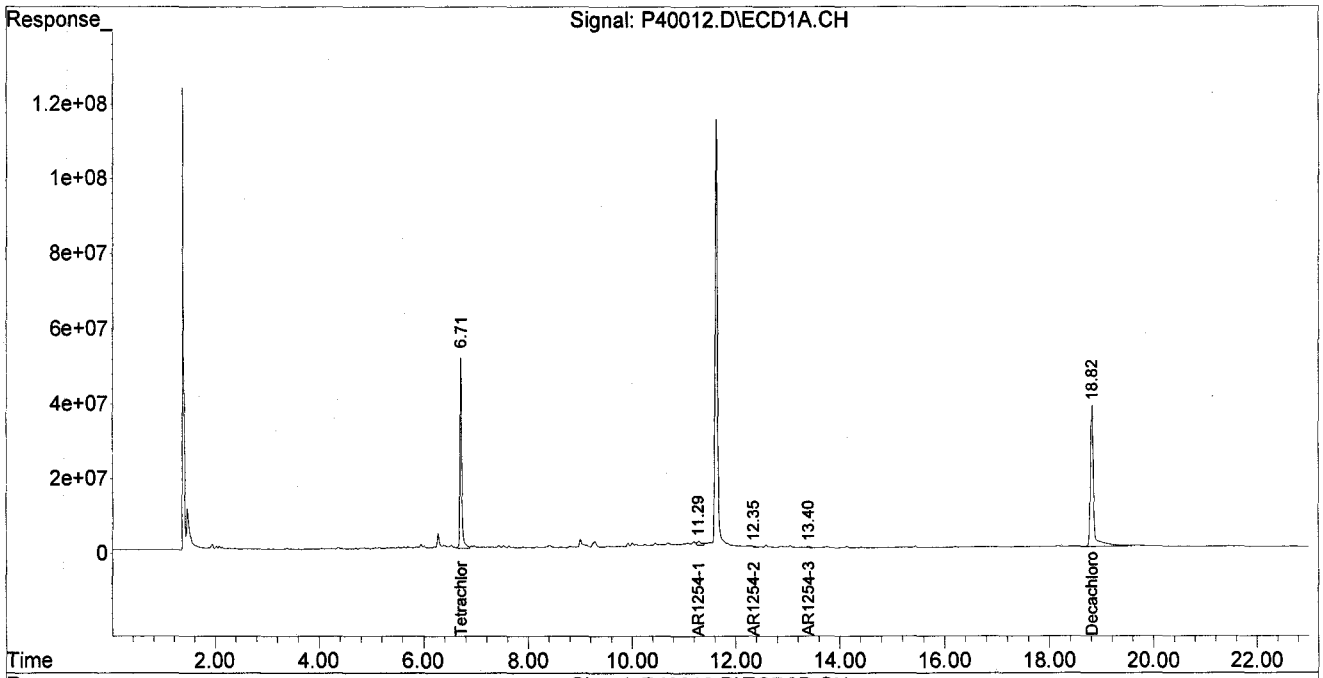
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

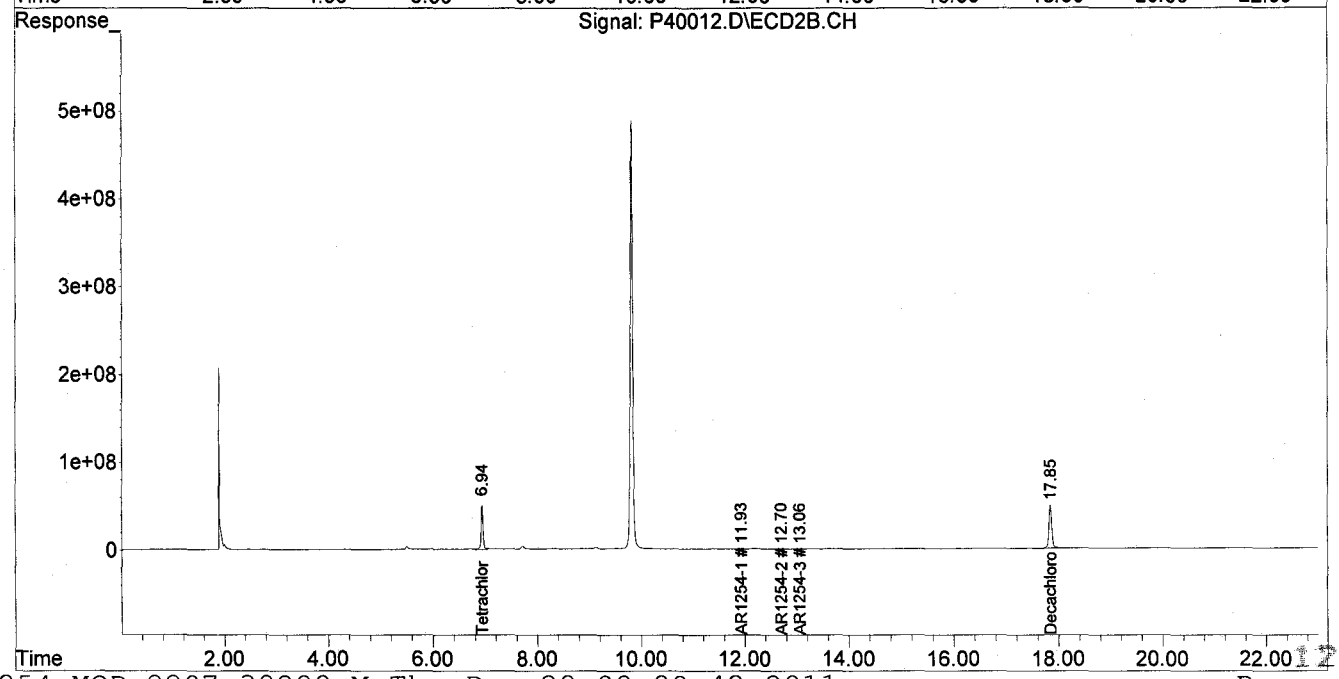
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40012.D(Signal #1) P40012.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 20:45 (Signal #1); 12/28/11 21:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XQ9 (Sig #1); F4XQ9 (Sig #2)
Misc : S-4476.08 50.1G/10.0ML (Sig #1); S-4476.08 50.1G/10.0ML (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

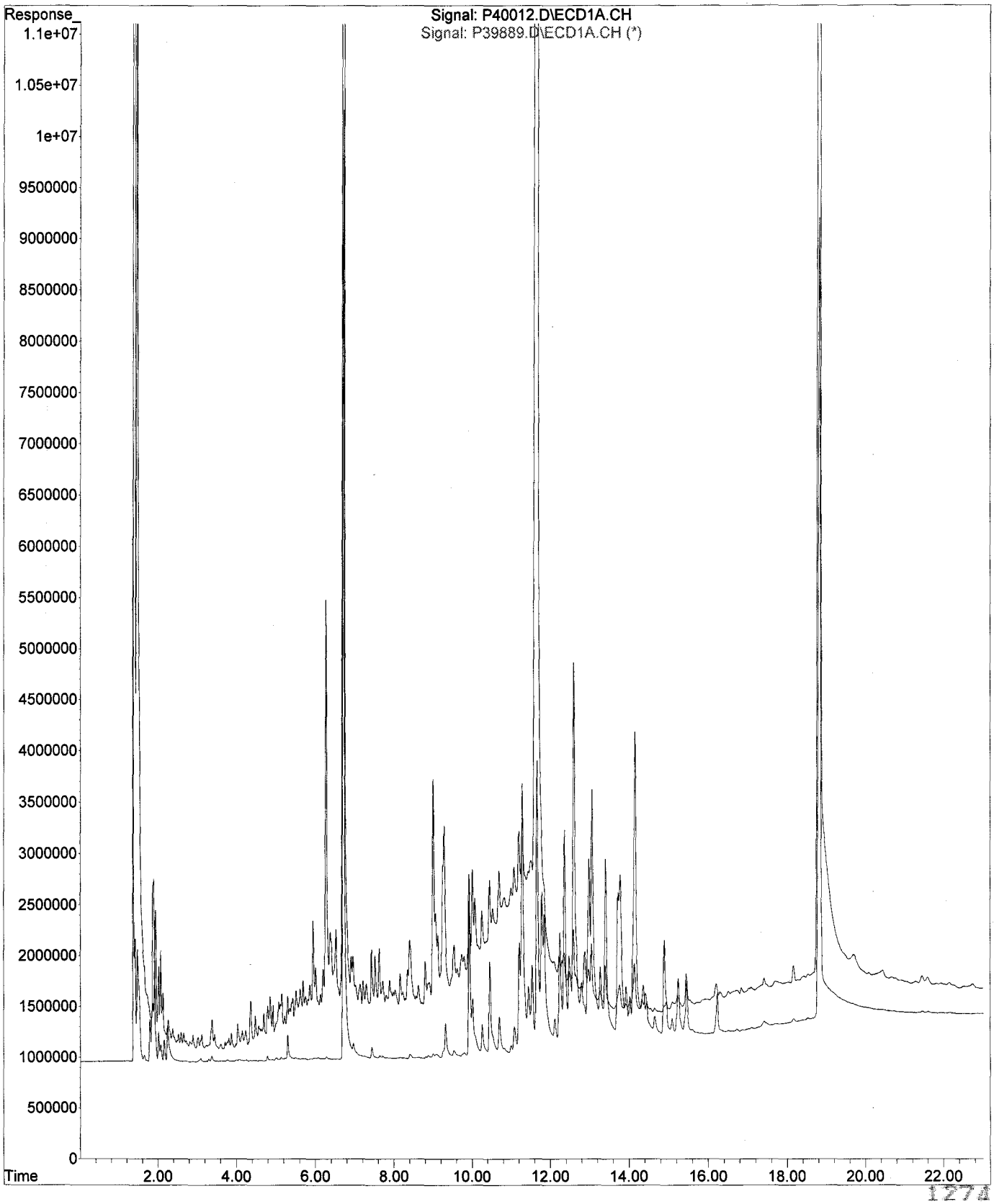
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:09:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

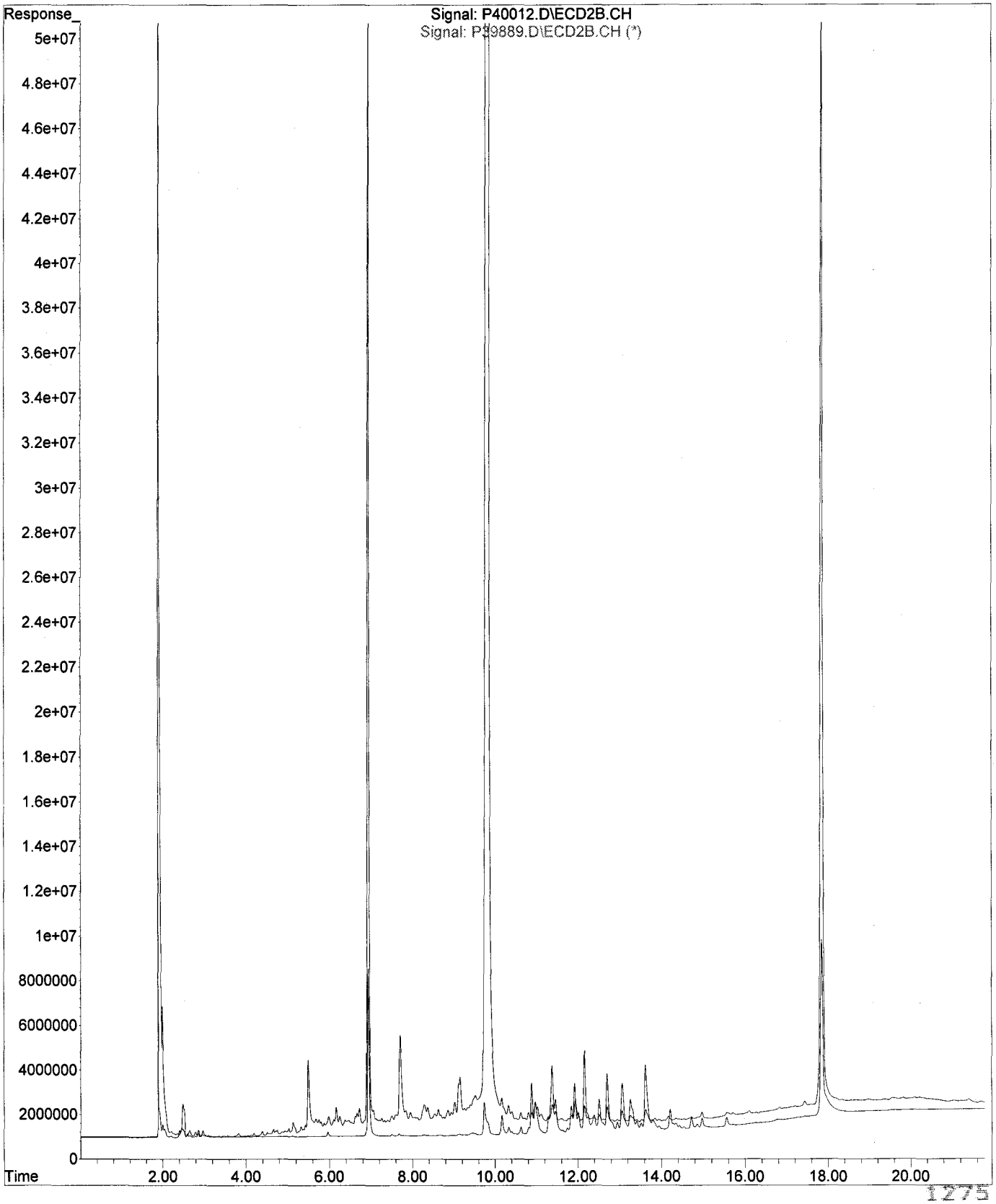




File :C:\MSDChem\1\data\P40012.D
Operator : KVR
Acquired : 28 Dec 2011 8:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ9
Misc Info : S-4476.08 50.1G/10.0ML
Vial Number: 18



File :C:\MSDChem\1\data\P40012.D
Operator : KVR
Acquired : 28 Dec 2011 8:45 pm using AcqMethod PCBS.M
Instrument : P-6890
Sample Name: F4XQ9
Misc Info : S-4476.08 50.1G/10.0ML
Vial Number: 18



6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	8.41	8.41	8.41	8.41	8.41	8.41	8.34	8.48
	2	9.55	9.55	9.55	9.55	9.55	9.55	9.48	9.62
	3	9.93	9.93	9.93	9.93	9.93	9.93	9.86	10.00
	4								
	5								
TCX		6.72	6.71	6.72	6.72	6.71	6.72	6.67	6.77
DCB		18.82	18.82	18.83	18.83	18.83	18.83	18.73	18.93
AR1260	1	12.99	12.99	12.99	12.99	12.99	12.99	12.92	13.06
	2	13.41	13.41	13.41	13.41	13.41	13.41	13.34	13.48
	3	14.94	14.95	14.95	14.94	14.94	14.94	14.87	15.01
	4								
	5								
TCX									
DCB									
AR____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	8.29	8.29	8.29	8.29	8.29	8.29	8.22	8.36
	2	9.41	9.41	9.41	9.41	9.40	9.41	9.34	9.48
	3	9.52	9.52	9.52	9.52	9.52	9.52	9.45	9.59
	4								
	5								
TCX		6.94	6.94	6.95	6.94	6.94	6.94	6.89	6.99
DCB		17.86	17.86	17.86	17.86	17.86	17.86	17.76	17.96
AR1260	1	12.52	12.52	12.52	12.52	12.52	12.52	12.45	12.59
	2	13.32	13.32	13.32	13.32	13.32	13.32	13.25	13.39
	3	14.35	14.35	14.35	14.35	14.35	14.35	14.28	14.42
	4								
	5								
TCX									
DCB									
AR____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/27/2011 12/27/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1260	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1221	1	7.27	7.26	7.26	7.26	7.26	7.26	7.19	7.33
	2	7.53	7.53	7.53	7.52	7.52	7.53	7.46	7.60
	3	7.65	7.64	7.64	7.64	7.64	7.64	7.57	7.71
	4								
	5								
TCX		6.72	6.72	6.71	6.71	6.71	6.71	6.66	6.76
DCB		18.83	18.82	18.82	18.82	18.82	18.82	18.72	18.92

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/27/2011 12/27/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1260	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1221	1	6.68	6.69	6.68	6.68	6.68	6.68	6.61	6.75
	2	7.27	7.27	7.27	7.27	7.27	7.27	7.20	7.34
	3	7.63	7.63	7.62	7.62	7.62	7.62	7.55	7.69
	4								
	5								
TCX		6.94	6.94	6.94	6.94	6.94	6.94	6.89	6.99
DCB		17.85	17.84	17.84	17.85	17.85	17.85	17.75	17.95

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/25/2011 12/25/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1260	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1242	1	9.93	9.93	9.93	9.93	9.93	9.93	9.86	10.00
	2	10.46	10.46	10.46	10.46	10.45	10.46	10.39	10.53
	3	11.08	11.08	11.08	11.08	11.08	11.08	11.01	11.15
	4								
	5								
TCX		6.72	6.72	6.71	6.71	6.71	6.71	6.66	6.76
DCB		18.82	18.82	18.82	18.82	18.82	18.82	18.72	18.92

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/25/2011 12/25/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1260	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1242	1	10.34	10.33	10.33	10.33	10.33	10.33	10.26	10.40
	2	10.41	10.41	10.41	10.41	10.41	10.41	10.34	10.48
	3	10.81	10.81	10.81	10.81	10.81	10.81	10.74	10.88
	4								
	5								
TCX		6.95	6.94	6.95	6.94	6.95	6.95	6.90	7.00
DCB		17.86	17.86	17.86	17.86	17.86	17.86	17.76	17.96

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1260	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1254	1	11.28	11.29	11.29	11.29	11.29	11.29	11.22	11.36
	2	12.36	12.36	12.36	12.36	12.36	12.36	12.29	12.43
	3	13.41	13.41	13.41	13.41	13.41	13.41	13.34	13.48
	4								
	5								
TCX		6.71	6.72	6.72	6.72	6.72	6.72	6.67	6.77
DCB		18.82	18.82	18.82	18.82	18.82	18.82	18.72	18.92

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMPOUND	PEAK *	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1260	1								
	2								
	3								
	4								
	5								
TCX									
DCB									
AR1254	1	11.92	11.92	11.92	11.92	11.92	11.92	11.85	11.99
	2	12.71	12.71	12.70	12.70	12.71	12.71	12.64	12.78
	3	13.07	13.07	13.06	13.06	13.07	13.07	13.00	13.14
	4								
	5								
TCX		6.94	6.94	6.94	6.94	6.94	6.94	6.89	6.99
DCB		17.85	17.85	17.84	17.84	17.85	17.85	17.75	17.95

*At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	1063543320	937964265	752077030	779211984	726563959	16.93
	2	938885510	918074355	797778848	827642100	764197814	8.95
	3	456455260	447206080	378750685	385740264	353707138	11.14
	4						
	5						
TCX		25943100800	26403701900	22678958150	24796234925	24185228063	5.97
DCB		18190840800	19177218700	15706957600	17219720800	17169646694	7.39
AR1260	1	1408104170	1388200610	1118711545	1165357619	1008677758	14.31
	2	1565023810	1564962490	1275532645	1341603679	1262161781	10.84
	3	1123077390	1198917030	982603985	1046650570	1003654933	8.35
	4						
	5						
TCX							
DCB							
AR	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	934882960	852940095	736671428	751463449	725606600	11.33
	2	828761620	752413020	667262223	649825779	634881418	11.61
	3	603353410	529050515	470572085	471862525	462274471	11.80
	4						
	5						
TCX		21830464800	21383300500	19599392500	21269370850	21308389738	4.06
DCB		20994122900	19237105600	17079687200	18660489263	18526279088	7.49
AR1260	1	1238410950	1106056720	973376170	994397179	963186134	11.11
	2	790816970	737794475	693097405	721485333	727704359	4.87
	3	985326090	903667830	773045758	808949568	779829832	10.80
	4						
	5						
TCX							
DCB							
AR___	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/27/2011 12/27/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	198154400	285450400	248407475	271715235	241884415	13.43
	2	128621400	176597830	157584105	166171740	142139503	12.37
	3	545923600	759018580	674063315	713215443	622852539	12.43
	4						
	5						
TCX		25002375000	27169839900	24581222450	27137291250	25062550563	4.88
DCB		18037556700	18130475700	17370971900	18166631000	17847532194	1.82

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/27/2011 12/27/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	71336200	50974670	50938420	50854325	47352149	17.78
	2	219232050	246129790	226022215	226056988	197928764	7.75
	3	665986100	658065800	550605425	553878345	498589324	12.53
	4						
	5						
TCX		23325514000	22553674100	21250965000	22916299950	21832110563	3.73
DCB		21964727700	20623188350	18320356575	19275108288	17816223000	8.67

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/25/2011 12/25/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	253518850	378279750	303458475	270201868	305604611	15.86
	2	346108300	464208590	423677550	385064628	423339635	10.95
	3	199486150	292846580	277365470	260584178	282199081	14.13
	4						
	5						
TCX		24171871200	28232405900	24792684150	25841199500	25546975413	6.03
DCB		19389736000	18034595200	15689619900	14299022550	14686207581	13.43

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/25/2011 12/25/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	265179300	294427810	255630315	266197665	280627294	5.58
	2	463754250	374428430	411180085	415286068	425634610	7.66
	3	208273350	245903430	205243310	221301593	237902633	7.99
	4						
	5						
TCX		21257611600	23510606800	20846436600	21721119050	23688514838	5.91
DCB		12126347500	15637177250	10565005300	11405723563	12817672656	15.49

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890A

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP2 ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	898702600	1098290860	991178030	937465905	866319598	9.50
	2	629397200	816818280	757201875	723034135	705247558	9.49
	3	579357750	913123450	784303925	792502798	720476714	16.06
	4						
	5						
TCX		23494114000	25704223700	24951707400	26347656400	26437107775	4.78
DCB		22489407900	17526848150	17583273275	18455264300	17092014069	11.88

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Instrument ID: P-6890B

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: RTX-CLP ID: 0.53 (mm Date(s) Analyzed: 12/22/2011 12/22/2011

COMP-OUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	773154800	801883740	688311635	683172548	662009108	8.55
	2	1102681600	1229911780	1070699890	1084665843	1048361466	6.45
	3	983911350	1055689620	904813220	898802298	854864819	8.50
	4						
	5						
TCX		20623500000	21201507900	19323578050	20731487900	21154260288	3.69
DCB		20534020300	20847067950	18049266000	18603208550	18014429675	7.17

[1] At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6Q - FORM VI ARO-3

AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.D SDG No.: F4XP0

Instrument ID: P-6890A Date(s) Analyzed: 12/22/2011 12/22/2011

GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
AROCLOR 1221	0.4	1	7.26	7.19	7.33	351771945
		2	7.52	7.45	7.59	222651533
		3	7.64	7.57	7.71	939338710
		4				
		5				
AROCLOR 1232	0.4	1	8.87	8.80	8.94	215310185
		2	9.07	9.00	9.14	80502430
		3	10.09	10.02	10.16	180053243
		4				
		5				
AROCLOR 1242	0.4	1	9.75	9.68	9.82	741433868
		2	10.01	9.94	10.08	703915775
		3	10.46	10.39	10.53	895611475
		4				
		5				
AROCLOR 1248	0.4	1	9.93	9.86	10.00	684494993
		2	12.59	12.52	12.66	832669585
		3	13.05	12.98	13.12	521013105
		4				
		5				
AROCLOR 1254	0.4	1	11.29	11.22	11.36	1377757898
		2	11.66	11.59	11.73	1375673250
		3	12.36	12.29	12.43	1163376988
		4				
		5				
AROCLOR 1262	0.4	1	12.99	12.92	13.06	1333360638
		2	13.41	13.34	13.48	1497733670
		3	17.42	17.35	17.49	1074398955
		4				
		5				
AROCLOR 1268	0.4	1	14.95	14.88	15.02	926133835
		2	15.45	15.38	15.52	450646348
		3	17.42	17.35	17.49	1458344243
		4				
		5				

[1] At least three peaks for each column are required for identification of multipoint analytes

6Q - FORM VI ARO-3

AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

Instrument ID: P-6890B Date(s) Analyzed: 12/22/2011 12/22/2011

GC Column: RTX-CLP ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
AROCLOR 1221	0.4	1	7.28	7.21	7.35	294529203
		2	7.55	7.48	7.62	174788095
		3	7.63	7.56	7.70	731492655
		4				
		5				
AROCLOR 1232	0.4	1	8.52	8.45	8.59	92712663
		2	9.02	8.95	9.09	111441020
		3	9.84	9.77	9.91	226403115
		4				
		5				
AROCLOR 1242	0.4	1	9.40	9.33	9.47	1233548528
		2	9.52	9.45	9.59	872023223
		3	9.75	9.68	9.82	562189265
		4				
		5				
AROCLOR 1248	0.4	1	10.33	10.26	10.40	682236048
		2	12.17	12.10	12.24	681505203
		3	12.71	12.64	12.78	453584688
		4				
		5				
AROCLOR 1254	0.4	1	11.38	11.31	11.45	1815043135
		2	11.93	11.86	12.00	1136298403
		3	12.52	12.45	12.59	804492330
		4				
		5				
AROCLOR 1262	0.4	1	12.52	12.45	12.59	1174816765
		2	13.06	12.99	13.13	1241811828
		3	16.83	16.76	16.90	930221350
		4				
		5				
AROCLOR 1268	0.4	1	14.34	14.27	14.41	844880070
		2	14.98	14.91	15.05	626150935
		3	16.83	16.76	16.90	1607497848
		4				
		5				

[1] At least three peaks for each column are required for identification of multipoint analytes

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660331 Date Analyzed: 12/27/2011

Lab Sample ID: AR1660331 Time Analyzed: 1342

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.40	8.34	8.48	851872112	882106057.5	3.5
	2	9.54	9.48	9.62	849315725	847360675	-0.2
	3	9.92	9.86	10.00	404371885	391596465	-3.2
	4						
	5						
TCX		6.71	6.67	6.77	24801444768	24292661450	-2.1
DCB		18.82	18.73	18.93	17492876919	15805718675	-9.6
AR1260	1	12.98	12.92	13.06	1217810340	1172231945	-3.7
	2	13.40	13.34	13.48	1401856881	1336344717.5	-4.7
	3	14.94	14.87	15.01	1070980782	972472750	-9.2
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660332 Date Analyzed: 12/27/2011

Lab Sample ID: AR1660332 Time Analyzed: 1412

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.28	8.22	8.36	800312906	777279090	-2.9
	2	9.40	9.34	9.48	706628812	651866812.5	-7.7
	3	9.52	9.45	9.59	507422601	503851985	-0.7
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	21316532250	1.1
DCB		17.85	17.76	17.96	18899536810	17228013150	-8.8
AR1260	1	12.51	12.45	12.59	1055085431	996162350	-5.6
	2	13.31	13.25	13.39	734179708	731378105	-0.4
	3	14.35	14.28	14.42	850163815	794445132.5	-6.6
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221331 Date Analyzed: 12/27/2011

Lab Sample ID: AR1221331 Time Analyzed: 1412

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	7.26	7.19	7.33	249122385	247287170	-0.7
	2	7.52	7.46	7.60	154222916	157260515	2.0
	3	7.64	7.57	7.71	663014695	671931795	1.3
	4						
	5						
TCX		6.71	6.66	6.76	24801444768	24946396250	0.6
DCB		18.82	18.72	18.92	17492876919	15473606400	-11.5

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221332 Date Analyzed: 12/27/2011

Lab Sample ID: AR1221332 Time Analyzed: 1443

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	6.68	6.61	6.75	54291153	55479680	2.2
	2	7.27	7.20	7.34	223073961	235104860	5.4
	3	7.62	7.55	7.69	585424999	591195305	1.0
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	22277115800	5.7
DCB		17.85	17.75	17.95	18899536810	19243673725	1.8

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242331 Date Analyzed: 12/27/2011

Lab Sample ID: AR1242331 Time Analyzed: 1443

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	9.92	9.86	10.00	302212711	306101005	1.3
	2	10.45	10.39	10.53	408479741	424628835	4.0
	3	11.08	11.01	11.15	262496292	280789255	7.0
	4						
	5						
TCX		6.71	6.66	6.76	24801444768	25933499900	4.6
DCB		18.82	18.72	18.92	17492876919	16573355125	-5.3

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242332 Date Analyzed: 12/27/2011

Lab Sample ID: AR1242332 Time Analyzed: 1513

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	10.33	10.26	10.40	272412477	271408370	-0.4
	2	10.40	10.34	10.48	418056689	370805375	-11.3
	3	10.80	10.74	10.88	223724863	225156455	0.6
	4						
	5						
TCX		6.94	6.90	7.00	2107818367	2036579470	-3.4
DCB		17.85	17.76	17.96	1889953681	1826754917	-3.3

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254331 Date Analyzed: 12/27/2011

Lab Sample ID: AR1254331 Time Analyzed: 1513

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.28	11.22	11.36	958391399	939422215	-2.0
	2	12.36	12.29	12.43	726339810	679051875	-6.5
	3	13.41	13.34	13.48	757952927	671171065	-11.4
	4						
	5						
TCX		6.71	6.67	6.77	24801444768	25789617500	4.0
DCB		18.82	18.72	18.92	17492876919	15604549250	-10.8

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254332 Date Analyzed: 12/27/2011

Lab Sample ID: AR1254332 Time Analyzed: 1544

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.92	11.85	11.99	721706366	78025628C	8.1
	2	12.71	12.64	12.78	1107264116	1017035095	-8.1
	3	13.06	13.00	13.14	939616261	101884984C	8.4
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	2264164940C	7.4
DCB		17.85	17.75	17.95	18899536810	1939052375C	2.6

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660341 Date Analyzed: 12/28/2011

Lab Sample ID: AR1660341 Time Analyzed: 0020

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.40	8.34	8.48	851872112	882491007.5	3.6
	2	9.54	9.48	9.62	849315725	862135607.5	1.5
	3	9.92	9.86	10.00	404371885	389747072.5	-3.6
	4						
	5						
TCX		6.71	6.67	6.77	24801444768	24443877450	-1.4
DCB		18.82	18.73	18.93	17492876919	15498979500	-11.4
AR1260	1	12.98	12.92	13.06	1217810340	1175324097.5	-3.5
	2	13.40	13.34	13.48	1401856881	1340282277.5	-4.4
	3	14.94	14.87	15.01	1070980782	990123422.5	-7.5
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660342 Date Analyzed: 12/28/2011

Lab Sample ID: AR1660342 Time Analyzed: 0050

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.28	8.22	8.36	800312906	876649705	9.5
	2	9.40	9.34	9.48	706628812	823372167.5	16.5
	3	9.51	9.45	9.59	507422601	536319435	5.7
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	23398194200	11.0
DCB		17.84	17.76	17.96	18899536810	20841234350	10.3
AR1260	1	12.51	12.45	12.59	1055085431	1178814825	11.7
	2	13.31	13.25	13.39	734179708	791055392.5	7.7
	3	14.34	14.28	14.42	850163815	1021229697.5	20.1
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221341 Date Analyzed: 12/28/2011

Lab Sample ID: AR1221341 Time Analyzed: 0050

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	7.26	7.19	7.33	249122385	234871850	-5.7
	2	7.52	7.46	7.60	154222916	148750335	-3.5
	3	7.64	7.57	7.71	663014695	641134525	-3.3
	4						
	5						
TCX		6.71	6.66	6.76	24801444768	23524773500	-5.1
DCB		18.82	18.72	18.92	17492876919	13846540875	-20.8

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221342 Date Analyzed: 12/28/2011

Lab Sample ID: AR1221342 Time Analyzed: 0120

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	6.68	6.61	6.75	54291153	55879205	2.9
	2	7.27	7.20	7.34	223073961	240190815	7.7
	3	7.62	7.55	7.69	585424999	598866460	2.3
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	22614829100	7.3
DCB		17.85	17.75	17.95	18899536810	19736482725	4.4

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242341 Date Analyzed: 12/28/2011

Lab Sample ID: AR1242341 Time Analyzed: 0120

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	9.92	9.86	10.00	302212711	321025290	6.2
	2	10.45	10.39	10.53	408479741	399000860	-2.3
	3	11.08	11.01	11.15	262496292	272643000	3.9
	4						
	5						
TCX		6.71	6.66	6.76	2480144476[illegible]	2347211455[illegible]	-5.4
DCB		18.82	18.72	18.92	1749287691[illegible]	1405503120[illegible]	-19.7

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242342 Date Analyzed: 12/28/2011

Lab Sample ID: AR1242342 Time Analyzed: 0151

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	10.33	10.26	10.40	272412477	282012215	3.5
	2	10.40	10.34	10.48	418056689	380365450	-9.0
	3	10.80	10.74	10.88	223724863	237864935	6.3
	4						
	5						
TCX		6.94	6.90	7.00	21078183678	20549711050	-2.5
DCB		17.84	17.76	17.96	1889953681C	16751557575	-11.4

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254341 Date Analyzed: 12/28/2011

Lab Sample ID: AR1254341 Time Analyzed: 0151

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.28	11.22	11.36	958391399	911997930	-4.8
	2	12.36	12.29	12.43	726339810	695635585	-4.2
	3	13.40	13.34	13.48	757952927	761292690	0.4
	4						
	5						
TCX		6.71	6.67	6.77	24801444768	23924899900	-3.5
DCB		18.82	18.72	18.92	17492876919	15289184800	-12.6

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254342 Date Analyzed: 12/28/2011

Lab Sample ID: AR1254342 Time Analyzed: 0221

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.92	11.85	11.99	721706366	657768585	-8.9
	2	12.71	12.64	12.78	1107264116	888610085	-19.7
	3	13.06	13.00	13.14	939616261	885342435	-5.8
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	19897998650	-5.6
DCB		17.85	17.75	17.95	1889953681C	17456881325	-7.6

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660351 Date Analyzed: 12/28/2011

Lab Sample ID: AR1660351 Time Analyzed: 1238

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.40	8.34	8.48	851872112	823618742.5	-3.3
	2	9.54	9.48	9.62	849315725	786860897.5	-7.4
	3	9.92	9.86	10.00	404371885	367607890	-9.1
	4						
	5						
TCX		6.71	6.67	6.77	24801444768	22481965600	-9.4
DCB		18.82	18.73	18.93	17492876919	15492046200	-11.4
AR1260	1	12.98	12.92	13.06	1217810340	1097989900	-9.8
	2	13.40	13.34	13.48	1401856881	1252439110	-10.7
	3	14.94	14.87	15.01	1070980782	919017905	-14.2
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660352 Date Analyzed: 12/28/2011

Lab Sample ID: AR1660352 Time Analyzed: 1308

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.29	8.22	8.36	800312906	763309365	-4.6
	2	9.40	9.34	9.48	706628812	643323957.5	-9.0
	3	9.52	9.45	9.59	507422601	501262497.5	-1.2
	4						
	5						
TCX		6.94	6.89	6.99	21078183678	20665804150	-2.0
DCB		17.85	17.76	17.96	18899536810	16156616825	-14.5
AR1260	1	12.51	12.45	12.59	1055085431	978677530	-7.2
	2	13.31	13.25	13.39	734179708	727617830	-0.9
	3	14.34	14.28	14.42	850163815	743235060	-12.6
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221351 Date Analyzed: 12/28/2011

Lab Sample ID: AR1221351 Time Analyzed: 1308

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	7.26	7.19	7.33	249122385	222519780	-10.7
	2	7.52	7.46	7.60	154222916	137437135	-10.9
	3	7.64	7.57	7.71	663014695	628102080	-5.3
	4						
	5						
TCX		6.71	6.66	6.76	2480144476[illegible]	2262732735[illegible]	-8.8
DCB		18.82	18.72	18.92	1749287691[illegible]	167422364[illegible]	-4.3

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221352 Date Analyzed: 12/28/2011

Lab Sample ID: AR1221352 Time Analyzed: 1339

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	6.68	6.61	6.75	54291153	54854510	1.0
	2	7.27	7.20	7.34	223073961	239280210	7.3
	3	7.62	7.55	7.69	585424999	596744410	1.9
	4						
	5						
TCX		6.93	6.89	6.99	2107818367	2278719630	8.1
DCB		17.84	17.75	17.95	1889953681	1833273550	-3.0

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-O SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242351 Date Analyzed: 12/28/2011

Lab Sample ID: AR1242351 Time Analyzed: 1339

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	9.92	9.86	10.00	302212711	316556715	4.7
	2	10.45	10.39	10.53	408479741	445661245	9.1
	3	11.08	11.01	11.15	262496292	284751480	8.5
	4						
	5						
TCX		6.71	6.66	6.76	24801444768	24770394800	-0.1
DCB		18.82	18.72	18.92	17492876919	16583386200	-5.2

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242352 Date Analyzed: 12/28/2011

Lab Sample ID: AR1242352 Time Analyzed: 1409

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	10.32	10.26	10.40	272412477	299018755	9.8
	2	10.39	10.34	10.48	418056689	419341070	0.3
	3	10.80	10.74	10.88	223724863	238709710	6.7
	4						
	5						
TCX		6.93	6.90	7.00	21078183678	22003054100	4.4
DCB		17.84	17.76	17.96	18899536810	18536328250	-1.9

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254351 Date Analyzed: 12/28/2011

Lab Sample ID: AR1254351 Time Analyzed: 1409

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.28	11.22	11.36	958391399	917401390	-4.3
	2	12.36	12.29	12.43	726339810	669146490	-7.9
	3	13.41	13.34	13.48	757952927	779196355	2.8
	4						
	5						
TCX		6.71	6.67	6.77	2480144476	2365474610	-4.6
DCB		18.82	18.72	18.92	1749287691	1739449155	-0.6

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254352 Date Analyzed: 12/28/2011

Lab Sample ID: AR1254352 Time Analyzed: 1440

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.91	11.85	11.99	721706366	676144765	-6.3
	2	12.70	12.64	12.78	1107264116	1113554985	0.6
	3	13.06	13.00	13.14	939616261	924954885	-1.6
	4						
	5						
TCX		6.93	6.89	6.99	21078183678	21087250200	0.0
DCB		17.84	17.75	17.95	18899536810	18126222425	-4.1

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660361 Date Analyzed: 12/28/2011

Lab Sample ID: AR1660361 Time Analyzed: 2318

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.41	8.34	8.48	851872112	903618257.5	6.1
	2	9.55	9.48	9.62	849315725	869010060	2.3
	3	9.93	9.86	10.00	404371885	410880487.5	1.6
	4						
	5						
TCX		6.72	6.67	6.77	24801444768	24794033500	0.0
DCB		18.82	18.73	18.93	17492876919	18375523200	5.0
AR1260	1	12.99	12.92	13.06	1217810340	1228239067.5	0.9
	2	13.41	13.34	13.48	1401856881	1397510595	-0.3
	3	14.94	14.87	15.01	1070980782	1076617910	0.5
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1660362 Date Analyzed: 12/28/2011

Lab Sample ID: AR1660362 Time Analyzed: 2348

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	8.28	8.22	8.36	800312906	816324562.5	2.0
	2	9.39	9.34	9.48	706628812	703828097.5	-0.4
	3	9.51	9.45	9.59	507422601	521108245	2.7
	4						
	5						
TCX		6.93	6.89	6.99	2107818367	2216392255	5.2
DCB		17.83	17.76	17.96	1889953681	1775425785	-6.1
AR1260	1	12.50	12.45	12.59	1055085431	1052087830	-0.3
	2	13.30	13.25	13.39	734179708	747497607.5	1.8
	3	14.33	14.28	14.42	850163815	817148325	-3.9
	4						
	5						
TCX							
DCB							
AR____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 22070 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221361 Date Analyzed: 12/28/2011

Lab Sample ID: AR1221361 Time Analyzed: 2348

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	7.26	7.19	7.33	249122385	249650940	0.2
	2	7.53	7.46	7.60	154222916	160160290	3.8
	3	7.64	7.57	7.71	663014695	669864220	1.0
	4						
	5						
TCX		6.71	6.66	6.76	24801444768	25081374950	1.1
DCB		18.82	18.72	18.92	17492876919	17241428000	-1.4

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207-0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1221362 Date Analyzed: 12/29/2011

Lab Sample ID: AR1221362 Time Analyzed: 0019

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1221	1	6.68	6.61	6.75	54291153	49942315	-8.0
	2	7.26	7.20	7.34	223073961	229824030	3.0
	3	7.62	7.55	7.69	585424999	573001480	-2.1
	4						
	5						
TCX		6.93	6.89	6.99	210781836780	220595627000	4.7
DCB		17.83	17.75	17.95	188995368100	172157139000	-8.9

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242361 Date Analyzed: 12/29/2011

Lab Sample ID: AR1242361 Time Analyzed: 0019

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	9.93	9.86	10.00	302212711	342313640	13.3
	2	10.46	10.39	10.53	408479741	437805345	7.2
	3	11.08	11.01	11.15	262496292	289315155	10.2
	4						
	5						
TCX		6.71	6.66	6.76	2480144476[illegible]	2438447930[illegible]	-1.7
DCB		18.82	18.72	18.92	1749287691[illegible]	1702543520[illegible]	-2.7

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1242362 Date Analyzed: 12/29/2011

Lab Sample ID: AR1242362 Time Analyzed: 0049

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1242	1	10.32	10.26	10.40	272412477	318472550	16.9
	2	10.39	10.34	10.48	418056689	424598660	1.6
	3	10.80	10.74	10.88	223724863	272813110	21.9
	4						
	5						
TCX		6.93	6.90	7.00	2107818367[illegible]	2284078915[illegible]	8.4
DCB		17.83	17.76	17.96	1889953681[illegible]	1934099715[illegible]	2.3

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254361 Date Analyzed: 12/29/2011

Lab Sample ID: AR1254361 Time Analyzed: 0049

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.29	11.22	11.36	958391399	966570880	0.9
	2	12.36	12.29	12.43	726339810	726897570	0.1
	3	13.41	13.34	13.48	757952927	781086090	3.1
	4						
	5						
TCX		6.72	6.67	6.77	24801444768	24929728050	0.5
DCB		18.82	18.72	18.92	17492876919	15886876175	-9.2

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s) 12/22/2011 12/22/2011

EPA Sample No.(AR####3##): AR1254362 Date Analyzed: 12/29/2011

Lab Sample ID: AR1254362 Time Analyzed: 0120

EPA Sample No.(AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1260	1						
	2						
	3						
	4						
	5						
TCX							
DCB							
AR1254	1	11.91	11.85	11.99	721706366	754193725	4.5
	2	12.70	12.64	12.78	1107264116	988890915	-10.7
	3	13.05	13.00	13.14	939616261	976820725	4.0
	4						
	5						
TCX		6.93	6.89	6.99	21078183678	22652982500	7.5
DCB		17.83	17.75	17.95	1889953681C	1750379590C	-7.4

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s): 12/22/2011 12/22/2011

Instrument ID: P-6890A

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.72 DCB: 18.83

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660111	P39864	12/22/2011	01:46	6.72	18.82
02	AR1660211	P39865	12/22/2011	02:16	6.71	18.82
03	AR1660311	P39866	12/22/2011	02:47	6.72	18.83
04	AR1660411	P39867	12/22/2011	03:17	6.72	18.83
05	AR1660511	P39868	12/22/2011	03:48	6.71	18.83
06	AR1221311	P39869	12/22/2011	04:18	6.71	18.82
07	AR1232311	P39870	12/22/2011	04:49	6.71	18.83
08	AR1242311	P39871	12/22/2011	05:19	6.72	18.83
09	AR1248311	P39872	12/22/2011	05:50	6.72	18.83
10	AR1254311	P39873	12/22/2011	06:20	6.72	18.83
11	AR1262311	P39874	12/22/2011	06:51	6.72	18.83
12	AR1268311	P39875	12/22/2011	07:21	6.71	18.82
13	AIBLK11	P39876	12/22/2011	07:52	6.72	18.83
14	AR1254111	P39888	12/22/2011	13:58	6.71	18.82
15	AR1254211	P39889	12/22/2011	14:29	6.72	18.82
16	AR1254321	P39890	12/22/2011	14:59	6.72	18.82
17	AR1254411	P39891	12/22/2011	15:30	6.72	18.82
18	AR1254511	P39892	12/22/2011	16:00	6.72	18.82
19	AR1242111	P39899	12/25/2011	19:06	6.72	18.82
20	AR1242211	P39900	12/25/2011	19:37	6.72	18.82
21	AR1242321	P39901	12/25/2011	20:07	6.71	18.82
22	AR1242411	P39902	12/25/2011	20:38	6.71	18.82
23	AR1242511	P39903	12/25/2011	21:08	6.71	18.82
24	AR1221111	P39950	12/27/2011	10:39	6.72	18.83
25	AR1221211	P39951	12/27/2011	11:09	6.72	18.82
26	AR1221321	P39952	12/27/2011	11:40	6.71	18.82
27	AR1221411	P39953	12/27/2011	12:10	6.71	18.82
28	AR1221511	P39954	12/27/2011	12:41	6.71	18.82
29	AIBLK31	P39955	12/27/2011	13:11	6.71	18.82
30	AR1660331	P39956	12/27/2011	13:42	6.71	18.82
31	AR1221331	P39957	12/27/2011	14:12	6.71	18.82
32	AR1242331	P39958	12/27/2011	14:43	6.71	18.82

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 22070 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s): 12/22/2011 12/22/2011

Instrument ID: P-6890A

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.72 DCB: 18.83

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1254331	P39959	12/27/2011	15:13	6.71	18.82
02	ZZZZZ	P39960	12/27/2011	15:44	6.71	18.82
03	ZZZZZ	P39961	12/27/2011	16:14	6.71	18.82
04	ABLK56	P39962	12/27/2011	16:45	6.71	18.81
05	ALCS56	P39963	12/27/2011	17:14	6.71	18.81
06	ZZZZZ	P39964	12/27/2011	17:44	6.71	18.82
07	ZZZZZ	P39965	12/27/2011	18:15	6.71	18.81
08	ZZZZZ	P39966	12/27/2011	18:45	6.71	18.81
09	ZZZZZ	P39967	12/27/2011	19:16	6.71	18.81
10	F4XP0	P39968	12/27/2011	19:46	6.71	18.81
11	F4XP1	P39969	12/27/2011	20:17	6.71	18.81
12	F4XP2	P39970	12/27/2011	20:47	6.71	18.81
13	F4XP3	P39971	12/27/2011	21:17	6.71	18.81
14	F4XP4	P39972	12/27/2011	21:48	6.71	18.81
15	F4XP5	P39973	12/27/2011	22:18	6.71	18.81
16	F4XP6	P39974	12/27/2011	22:49	6.71	18.81
17	ZZZZZ	P39975	12/27/2011	23:19	6.71	18.82
18	AIBLK41	P39976	12/27/2011	23:49	6.71	18.82
19	AR1660341	P39977	12/28/2011	00:20	6.71	18.82
20	AR1221341	P39978	12/28/2011	00:50	6.71	18.82
21	AR1242341	P39979	12/28/2011	01:20	6.71	18.82
22	AR1254341	P39980	12/28/2011	01:51	6.71	18.82
23	AIBLK51	P39995	12/28/2011	12:07	6.71	18.82
24	AR1660351	P39996	12/28/2011	12:38	6.71	18.82
25	AR1221351	P39997	12/28/2011	13:08	6.71	18.82
26	AR1242351	P39998	12/28/2011	13:39	6.71	18.82
27	AR1254351	P39999	12/28/2011	14:09	6.71	18.82
28	F4XQ5	P40000	12/28/2011	14:40	6.71	18.82
29	F4XP7	P40001	12/28/2011	15:10	6.71	18.81
30	F4XP8	P40002	12/28/2011	15:41	6.71	18.82
31	F4XP9	P40003	12/28/2011	16:11	6.71	18.82
32	F4XQ6	P40004	12/28/2011	16:42	6.71	18.82

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP2 ID: 0.53 (mm) Init. Calib. Date(s): 12/22/2011 12/22/2011

Instrument ID: P-6890A

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.72 DCB: 18.83

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F4XQ0	P40005	12/28/2011	17:12	6.71	18.82
02	F4XQ1	P40006	12/28/2011	17:43	6.71	18.82
03	F4XQ2	P40007	12/28/2011	18:13	6.71	18.82
04	F4XQ3	P40008	12/28/2011	18:44	6.71	18.82
05	F4XQ4	P40009	12/28/2011	19:14	6.71	18.82
06	F4XQ7	P40010	12/28/2011	19:45	6.71	18.82
07	F4XQ8	P40011	12/28/2011	20:15	6.71	18.82
08	F4XQ9	P40012	12/28/2011	20:45	6.71	18.82
09	F4XP2MS	P40013	12/28/2011	21:16	6.71	18.82
10	F4XP2MSD	P40014	12/28/2011	21:46	6.72	18.82
11	ZZZZZ	P40015	12/28/2011	22:17	6.71	18.82
12	AIBLK61	P40016	12/28/2011	22:47	6.72	18.82
13	AR1660361	P40017	12/28/2011	23:18	6.72	18.82
14	AR1221361	P40018	12/28/2011	23:48	6.71	18.82
15	AR1242361	P40019	12/29/2011	00:19	6.71	18.82
16	AR1254361	P40020	12/29/2011	00:49	6.72	18.82
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207D SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s): 12/22/2011 12/22/2011

Instrument ID: P-6890B

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.94 DCB: 17.86

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660112	P39864	12/22/2011	02:16	6.94	17.86
02	AR1660212	P39865	12/22/2011	02:47	6.94	17.86
03	AR1660312	P39866	12/22/2011	03:17	6.95	17.86
04	AR1660412	P39867	12/22/2011	03:48	6.94	17.86
05	AR1660512	P39868	12/22/2011	04:18	6.94	17.86
06	AR1221312	P39869	12/22/2011	04:49	6.94	17.86
07	AR1232312	P39870	12/22/2011	05:19	6.94	17.86
08	AR1242312	P39871	12/22/2011	05:50	6.94	17.86
09	AR1248312	P39872	12/22/2011	06:20	6.94	17.86
10	AR1254312	P39873	12/22/2011	06:51	6.94	17.86
11	AR1262312	P39874	12/22/2011	07:21	6.94	17.86
12	AR1268312	P39875	12/22/2011	07:52	6.94	17.86
13	AIBLK12	P39876	12/22/2011	08:22	6.94	17.86
14	AR1254112	P39888	12/22/2011	14:29	6.94	17.85
15	AR1254212	P39889	12/22/2011	14:59	6.94	17.85
16	AR1254322	P39890	12/22/2011	15:30	6.94	17.84
17	AR1254412	P39891	12/22/2011	16:00	6.94	17.84
18	AR1254512	P39892	12/22/2011	16:31	6.94	17.85
19	AR1242112	P39899	12/25/2011	19:37	6.95	17.86
20	AR1242212	P39900	12/25/2011	20:07	6.94	17.86
21	AR1242322	P39901	12/25/2011	20:38	6.95	17.86
22	AR1242412	P39902	12/25/2011	21:08	6.94	17.86
23	AR1242512	P39903	12/25/2011	21:39	6.95	17.86
24	AR1221112	P39950	12/27/2011	11:09	6.94	17.85
25	AR1221212	P39951	12/27/2011	11:40	6.94	17.84
26	AR1221322	P39952	12/27/2011	12:10	6.94	17.84
27	AR1221412	P39953	12/27/2011	12:41	6.94	17.85
28	AR1221512	P39954	12/27/2011	13:11	6.94	17.85
29	AIBLK32	P39955	12/27/2011	13:42	6.94	17.85
30	AR1660332	P39956	12/27/2011	14:12	6.94	17.85
31	AR1221332	P39957	12/27/2011	14:43	6.94	17.85
32	AR1242332	P39958	12/27/2011	15:13	6.94	17.85

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s): 12/22/2011 12/22/2011

Instrument ID: P-6890B

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.94 DCB: 17.86

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1254332	P39959	12/27/2011	15:44	6.94	17.85
02	ZZZZZ	P39960	12/27/2011	16:14	6.94	17.85
03	ZZZZZ	P39961	12/27/2011	16:45	6.94	17.85
04	ABLK56	P39962	12/27/2011	17:14	6.94	17.85
05	ALCS56	P39963	12/27/2011	17:44	6.94	17.85
06	ZZZZZ	P39964	12/27/2011	18:15	6.94	17.85
07	ZZZZZ	P39965	12/27/2011	18:45	6.94	17.84
08	ZZZZZ	P39966	12/27/2011	19:16	6.93	17.84
09	ZZZZZ	P39967	12/27/2011	19:46	6.94	17.84
10	F4XP0	P39968	12/27/2011	20:17	6.94	17.85
11	F4XP1	P39969	12/27/2011	20:47	6.94	17.84
12	F4XP2	P39970	12/27/2011	21:17	6.94	17.84
13	F4XP3	P39971	12/27/2011	21:48	6.94	17.84
14	F4XP4	P39972	12/27/2011	22:18	6.94	17.84
15	F4XP5	P39973	12/27/2011	22:49	6.94	17.85
16	F4XP6	P39974	12/27/2011	23:19	6.94	17.85
17	ZZZZZ	P39975	12/27/2011	23:49	6.94	17.84
18	AIBLK42	P39976	12/28/2011	00:20	6.94	17.85
19	AR1660342	P39977	12/28/2011	00:50	6.94	17.84
20	AR1221342	P39978	12/28/2011	01:20	6.94	17.85
21	AR1242342	P39979	12/28/2011	01:51	6.94	17.84
22	AR1254342	P39980	12/28/2011	02:21	6.94	17.85
23	AIBLK52	P39995	12/28/2011	12:38	6.94	17.85
24	AR1660352	P39996	12/28/2011	13:08	6.94	17.85
25	AR1221352	P39997	12/28/2011	13:39	6.93	17.84
26	AR1242352	P39998	12/28/2011	14:09	6.93	17.84
27	AR1254352	P39999	12/28/2011	14:40	6.93	17.84
28	F4XQ5	P40000	12/28/2011	15:10	6.93	17.84
29	F4XP7	P40001	12/28/2011	15:41	6.93	17.84
30	F4XP8	P40002	12/28/2011	16:11	6.93	17.84
31	F4XP9	P40003	12/28/2011	16:42	6.93	17.83
32	F4XQ6	P40004	12/28/2011	17:12	6.93	17.84

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

GC Column: RTX-CLP ID: 0.53 (mm) Init. Calib. Date(s): 12/22/2011 12/22/2011

Instrument ID: P-6890B

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.94 DCB: 17.86

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F4XQ0	P40005	12/28/2011	17:43	6.93	17.84
02	F4XQ1	P40006	12/28/2011	18:13	6.93	17.84
03	F4XQ2	P40007	12/28/2011	18:44	6.93	17.84
04	F4XQ3	P40008	12/28/2011	19:14	6.93	17.84
05	F4XQ4	P40009	12/28/2011	19:45	6.93	17.84
06	F4XQ7	P40010	12/28/2011	20:15	6.94	17.84
07	F4XQ8	P40011	12/28/2011	20:45	6.94	17.85
08	F4XQ9	P40012	12/28/2011	21:16	6.94	17.85
09	F4XP2MS	P40013	12/28/2011	21:46	6.94	17.84
10	F4XP2MSD	P40014	12/28/2011	22:17	6.94	17.85
11	ZZZZZ	P40015	12/28/2011	22:47	6.94	17.84
12	AIBLK62	P40016	12/28/2011	23:18	6.93	17.83
13	AR1660362	P40017	12/28/2011	23:48	6.93	17.83
14	AR1221362	P40018	12/29/2011	00:19	6.93	17.83
15	AR1242362	P40019	12/29/2011	00:49	6.93	17.83
16	AR1254362	P40020	12/29/2011	01:20	6.93	17.83
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4460.01 Date(s) Analyzed 12/27/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1260	1	12.98	12.92	13.06	18		
	2	13.4	13.34	13.48	19		
	3	14.94	14.87	15.01	14	17	
COLUMN 1	4						
	5						24.1
	1	12.51	12.45	12.59	23		
	2	13.3	13.25	13.39	16		
COLUMN 2	3	14.34	14.28	14.42	24	21	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4460.03 Date(s) Analyzed 12/27/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.28	11.22	11.36	23		
	2	12.35	12.29	12.43	15		
COLUMN 1	3	13.4	13.34	13.48	11	16	
	4						
	5						38.4
	1	11.92	11.85	11.99	36		
	2	12.7	12.64	12.78	16		
COLUMN 2	3	13.06	13.00	13.14	16	22	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP2MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4460.03MS Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.28	11.22	11.36	80		
	2	12.35	12.29	12.43	78		
COLUMN 1	3	13.4	13.34	13.48	65	74	
	4						
	5						15.1
	1	11.91	11.85	11.99	96		
	2	12.7	12.64	12.78	78		
COLUMN 2	3	13.06	13.00	13.14	83	86	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP2MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4460.03MSD Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	85		
	2	12.36	12.29	12.43	80		
COLUMN 1	3	13.4	13.34	13.48	69	78	
	4						
	5						7.5
	1	11.92	11.85	11.99	94		
	2	12.7	12.64	12.78	76		
COLUMN 2	3	13.06	13.00	13.14	82	84	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4460.07 Date(s) Analyzed 12/27/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.28	11.22	11.36	84		
	2	12.35	12.29	12.43	53		
COLUMN 1	3	13.4	13.34	13.48	88	75	
	4						
	5						4.2
	1	11.92	11.85	11.99	59		
	2	12.7	12.64	12.78	82		
COLUMN 2	3	13.06	13.00	13.14	92	78	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4465.01 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.28	11.22	11.36	27		
	2	12.35	12.29	12.43	9.1		
COLUMN 1	3	13.4	13.34	13.48	19	19	
	4						
	5						22.3
	1	11.92	11.85	11.99	24		
	2	12.7	12.64	12.78	18		
COLUMN 2	3	13.05	13.00	13.14	26	23	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XP9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4465.03 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	13		
	2	12.36	12.29	12.43	1.1		
COLUMN 1	3	13.4	13.34	13.48	3.5	5.9	
	4						
	5						71.0
	1	11.93	11.85	11.99	18		
	2	12.69	12.64	12.78	5.0		
COLUMN 2	3	13.05	13.00	13.14	7.1	10	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.01 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	41		
	2	12.35	12.29	12.43	6.9		
	3	13.4	13.34	13.48	13	20	
COLUMN 1	4						
	5						12.5
	1	11.92	11.85	11.99	36		
	2	12.7	12.64	12.78	17		
COLUMN 2	3	13.05	13.00	13.14	16	23	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.02 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	89		
	2	12.35	12.29	12.43	5.3		
COLUMN 1	3	13.4	13.34	13.48	5.4	33	
	4						
	5						27.3
	1	11.92	11.85	11.99	41		
	2	12.7	12.64	12.78	13		
COLUMN 2	3	13.06	13.00	13.14	24	26	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.03 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1242	1	9.92	9.86	10.00	50		
	2	10.45	10.39	10.53	45		
COLUMN 1	3	11.08	11.01	11.15	69	54	
	4						
	5						86.8
	1	10.32	10.26	10.40	37		
	2	10.39	10.34	10.48	21		
COLUMN 2	3	10.79	10.74	10.88	30	29	
	4						
	5						
Aroclor-1254	1	11.29	11.22	11.36	35		
	2	12.35	12.29	12.43	23		
COLUMN 1	3	13.4	13.34	13.48	24	27	
	4						
	5						2.8
	1	11.92	11.85	11.99	29		
	2	12.69	12.64	12.78	24		
COLUMN 2	3	13.05	13.00	13.14	27	26	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.04 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1242	1	9.92	9.86	10.00	50		
	2	10.45	10.39	10.53	20		
	3	11.08	11.01	11.15	28	32	
COLUMN 1	4						
	5						25.7
	1	10.32	10.26	10.40	58		
	2	10.39	10.34	10.48	27		
COLUMN 2	3	10.8	10.74	10.88	37	41	
	4						
	5						
Aroclor-1254	1	11.29	11.22	11.36	21		
	2	12.35	12.29	12.43	4.7		
	3	13.4	13.34	13.48	11	12	
COLUMN 1	4						
	5						81.9
	1	11.92	11.85	11.99	31		
	2	12.7	12.64	12.78	22		
COLUMN 2	3	13.05	13.00	13.14	14	22	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.05 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1242	1	9.93	9.86	10.00	56		
	2	10.45	10.39	10.53	21		
	3	11.08	11.01	11.15	50	42	
COLUMN 1	4						
	5						21.0
	1	10.33	10.26	10.40	75		
	2	10.4	10.34	10.48	36		
COLUMN 2	3	10.8	10.74	10.88	41	51	
	4						
	5						
Aroclor-1254	1	11.29	11.22	11.36	30		
	2	12.35	12.29	12.43	5.8		
	3	13.4	13.34	13.48	9.8	15	
COLUMN 1	4						
	5						5.3
	1	11.92	11.85	11.99	29		
	2	12.7	12.64	12.78	7.8		
COLUMN 2	3	13.05	13.00	13.14	11	16	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4460.08 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	11		
	2	12.3	12.29	12.43	6.3		
COLUMN 1	3	13.4	13.34	13.48	4.8	7.5	
	4						
	5						87.6
	1	11.92	11.85	11.99	25		
	2	12.7	12.64	12.78	6.5		
COLUMN 2	3	13.05	13.00	13.14	11	14	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4465.04 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	4.0		
	2	12.35	12.29	12.43	2.3		
COLUMN 1	3	13.4	13.34	13.48	6.0	4.1	
	4						
	5						405.0
	1	11.93	11.85	11.99	44		
	2	12.69	12.64	12.78	7.7		
COLUMN 2	3	13.05	13.00	13.14	9.9	21	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.06 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1242	1	9.92	9.86	10.00	81		
	2	10.45	10.39	10.53	83		
	3	11.08	11.01	11.15	130	97	
COLUMN 1	4						
	5						111.8
	1	10.32	10.26	10.40	60		
	2	10.4	10.34	10.48	27		
COLUMN 2	3	10.8	10.74	10.88	50	46	
	4						
	5						
Aroclor-1254	1	11.28	11.22	11.36	70		
	2	12.35	12.29	12.43	36		
	3	13.4	13.34	13.48	57	55	
COLUMN 1	4						
	5						7.8
	1	11.93	11.85	11.99	50		
	2	12.7	12.64	12.78	46		
COLUMN 2	3	13.06	13.00	13.14	56	51	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.07 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	11.29	11.22	11.36	31		
	2	12.35	12.29	12.43	6.4		
COLUMN 1	3	13.4	13.34	13.48	7.3	15	
	4						
	5						72.6
	1	11.94	11.85	11.99	41		
	2	12.71	12.64	12.78	19		
COLUMN 2	3	13.06	13.00	13.14	17	26	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F4XQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: S-4476.08 Date(s) Analyzed 12/28/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1242	1	9.92	9.86	10.00	30		
	2	10.45	10.39	10.53	12		
COLUMN 1	3	11.08	11.01	11.15	28	23	
	4						
	5						86.5
	1	10.32	10.26	10.40	63		
	2	10.4	10.34	10.48	26		
COLUMN 2	3	10.81	10.74	10.88	40	43	
	4						
	5						
Aroclor-1254	1	11.29	11.22	11.36	23		
	2	12.35	12.29	12.43	3.5		
COLUMN 1	3	13.4	13.34	13.48	6.3	11	
	4						
	5						48.0
	1	11.94	11.85	11.99	30		
	2	12.71	12.64	12.78	9.6		
COLUMN 2	3	13.06	13.00	13.14	9.4	16	
	4						
	5						
_____	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
ALCS56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Lab Sample ID: ALCS56 Date(s) Analyzed 12/27/2011

Instrument ID (1): P-6890A Instrument ID (2): P-6890B

GC Column (1): RTX-CLP2 ID: 0.53 (mm) GC Column (2) RTX-CLP ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1242	1	9.92	9.86	10.00	10		
	2	10.45	10.39	10.53	9.1		
	3	11.08	11.01	11.15	8.8	9.5	
COLUMN 1	4						
	5						32.4
	1	10.33	10.26	10.40	11		
	2	10.41	10.34	10.48	12		
COLUMN 2	3	10.81	10.74	10.88	15	13	
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
_____	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

Response Factor Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1660-39866.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:17:39 2011
Response Via : Initial Calibration

Calibration Files
3 =P39866.D 2 =P39865.D 1 =P39864.D
4 =P39867.D 5 =P39868.D

		Compound	3	2	1	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	2.268	2.640	2.594	2.480	2.419	2.480	E7	5.97
2)		AR1016-1	0.752	0.938	1.064	0.779	0.727	0.852	E6	16.93
3)		AR1016-2	7.978	9.181	9.389	8.276	7.642	8.493	E5	8.95
4)		AR1016-3	3.788	4.472	4.565	3.857	3.537	4.044	E5	11.14
5)		AR1260-1	1.119	1.388	1.408	1.165	1.009	1.218	E6	14.31
6)		AR1260-2	1.276	1.565	1.565	1.342	1.262	1.402	E6	10.84
7)		AR1260-3	0.983	1.199	1.123	1.047	1.004	1.071	E6	8.35
8)	S	Decachlorobiphenyl	1.571	1.918	1.819	1.722	1.717	1.749	E7	7.39

Signal #2 Calibration Files
3 =P39866.D 2 =P39865.D 1 =P39864.D
4 =P39867.D 5 =P39868.D

		Compound	3	2	1	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	1.960	2.138	2.183	2.127	2.131	2.108	E7	4.06
2)		AR1016-1	7.367	8.529	9.349	7.515	7.256	8.003	E5	11.33
3)		AR1016-2	6.673	7.524	8.288	6.498	6.349	7.066	E5	11.61
4)		AR1016-3	4.706	5.291	6.034	4.719	4.623	5.074	E5	11.80
5)		AR1260-1	0.973	1.106	1.238	0.994	0.963	1.055	E6	11.11
6)		AR1260-2	6.931	7.378	7.908	7.215	7.277	7.342	E5	4.87
7)		AR1260-3	7.730	9.037	9.853	8.089	7.798	8.502	E5	10.80
8)	s	Decachlorobiphenyl	1.708	1.924	2.099	1.866	1.853	1.890	E7	7.49

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39864.D(Signal #1) P39864.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 01:46 (Signal #1); 12/22/11 02:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660111 (Sig #1); AR1660112 (Sig #2)
Misc : AR1660111 (Sig #1); AR1660112 (Sig #2)
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	129.7E6	109.2E6	5.387	5.217
	Spiked Amount 60.000	Range 18 - 90		Recovery =		8.98%#	8.70%#
8)	s Decachlorobiphen	18.82	17.86	181.9E6	209.9E6	11.094	11.850
	Spiked Amount 120.000			Recovery =		9.24%	9.87%
	Target Compounds						
2)	AR1016-1	8.41	8.29	106.4E6	93488296	128.658	116.483
3)	AR1016-2	9.55	9.41	93888551	82876162	113.820	109.208
4)	AR1016-3	9.93	9.52	45645526	60335341	115.797	116.208
5)	AR1260-1	12.99	12.52	140.8E6	123.8E6	121.410	121.477
6)	AR1260-2	13.41	13.32	156.5E6	79081697	115.506	109.241
7)	AR1260-3	14.94	14.35	112.3E6	98532609	111.590	131.662

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 Init/date 1/13/14

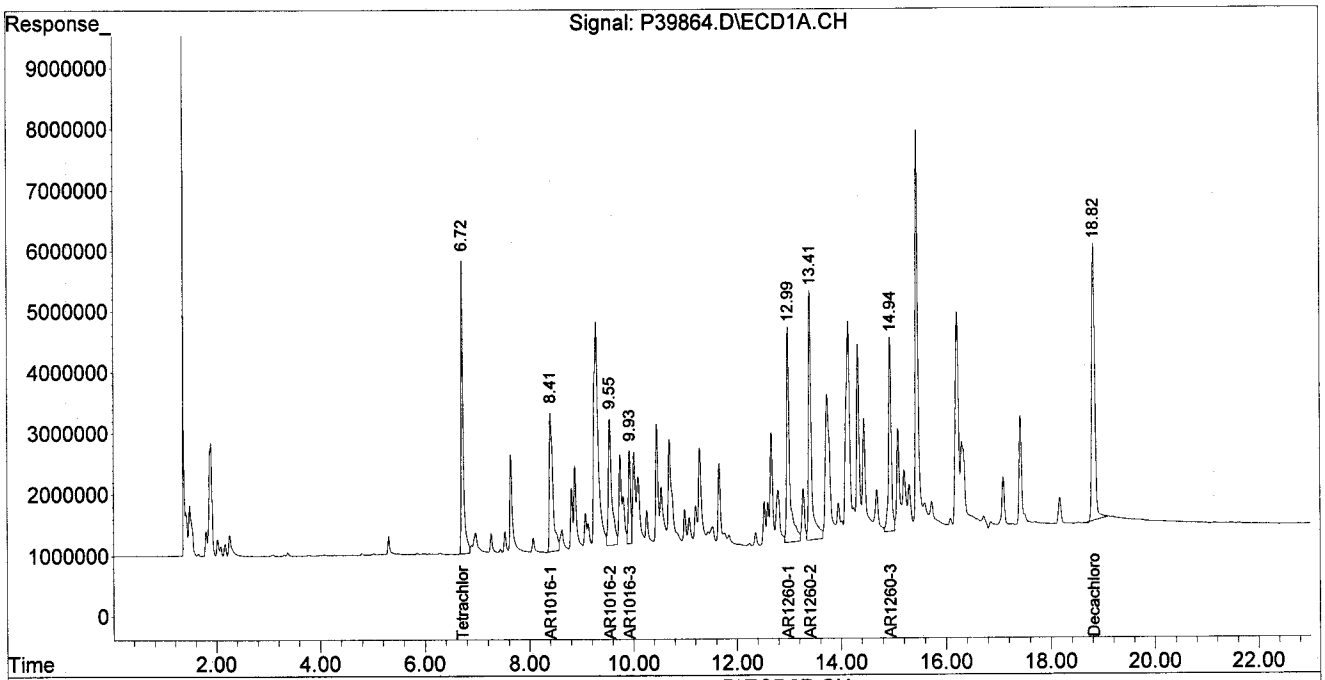
1351

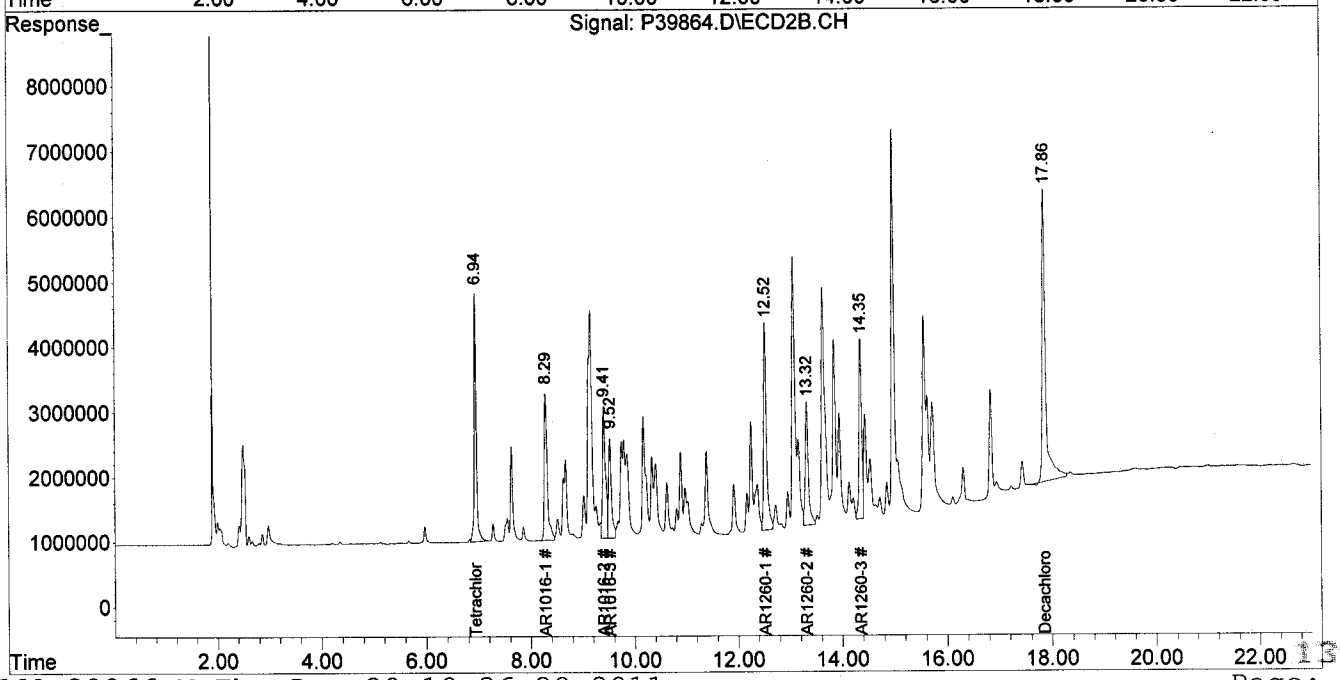
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39864.D(Signal #1) P39864.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 01:46 (Signal #1); 12/22/11 02:16 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660111 (Sig #1); AR1660112 (Sig #2)
Misc : AR1660111 (Sig #1); AR1660112 (Sig #2)
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39865.D(Signal #1) P39865.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 02:16 (Signal #1); 12/22/11 02:47 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660211 (Sig #1); AR1660212 (Sig #2)
Misc : AR1660211 (Sig #1); AR1660212 (Sig #2)
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:45:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	264.0E6	213.8E6	10.964	10.220
	Spiked Amount 60.000	Range 18 - 90		Recovery =		18.27%	17.03%#
8)	s Decachlorobiphen	18.82	17.86	383.5E6	384.7E6	23.391	21.717
	Spiked Amount 120.000			Recovery =		19.49%	18.10%
	Target Compounds						
2)	AR1016-1	8.41	8.29	187.6E6	170.6E6	226.932	212.547
3)	AR1016-2	9.55	9.41	183.6E6	150.5E6	222.594	198.294
4)	AR1016-3	9.93	9.52	89441216	105.8E6	226.901	203.793
5)	AR1260-1	12.99	12.52	277.6E6	221.2E6	239.388	216.988
6)	AR1260-2	13.41	13.32	313.0E6	147.6E6	231.003	203.833
7)	AR1260-3	14.95	14.35	239.8E6	180.7E6	238.251	241.500

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

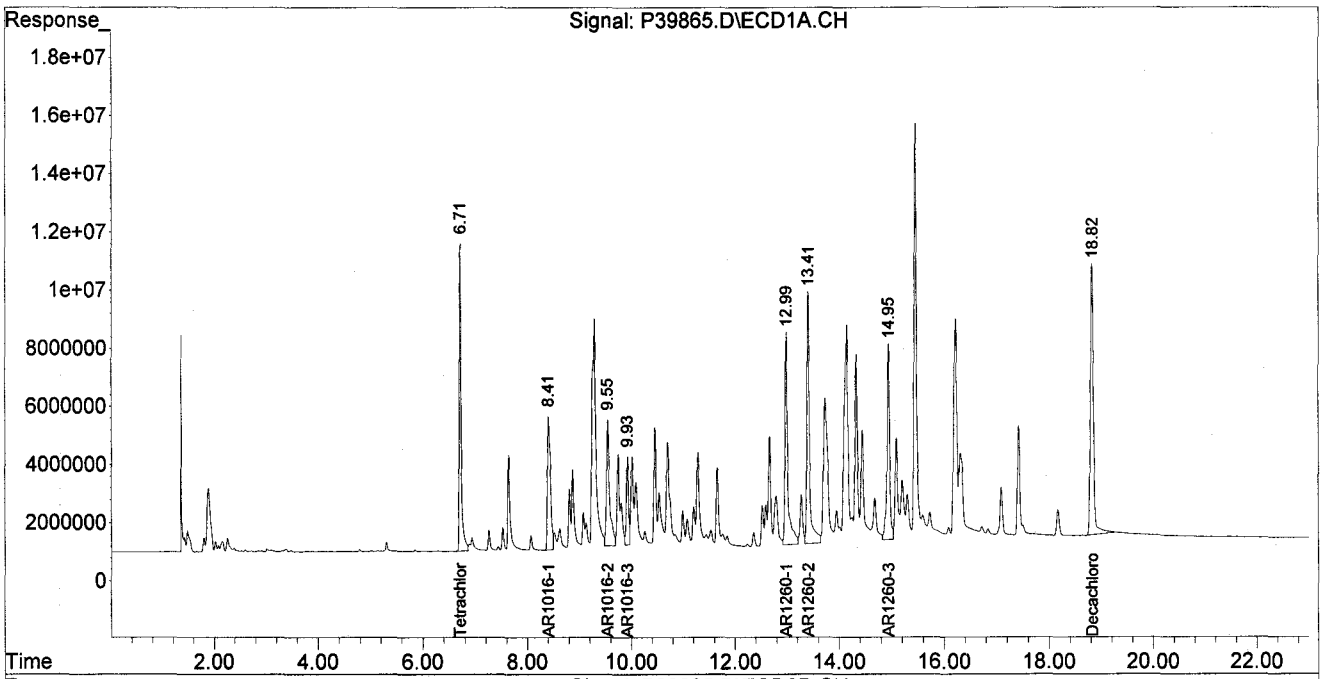
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 Init/date 12/29/11

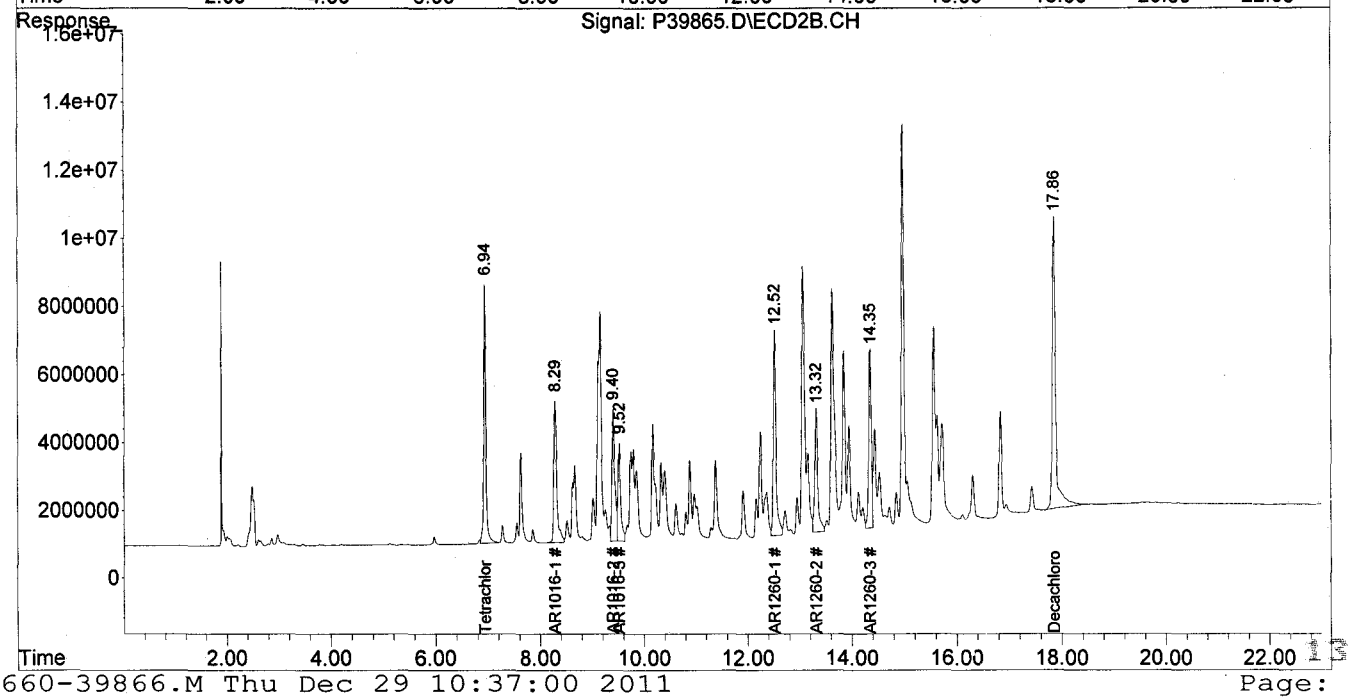
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39865.D(Signal #1) P39865.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 02:16 (Signal #1); 12/22/11 02:47 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660211 (Sig #1); AR1660212 (Sig #2)
Misc : AR1660211 (Sig #1); AR1660212 (Sig #2)
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:45:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39866.D(Signal #1) P39866.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 02:47 (Signal #1); 12/22/11 03:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660311 (Sig #1); AR1660312 (Sig #2)
Misc : AR1660311 (Sig #1); AR1660312 (Sig #2)
ALS Vial : 68 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 14:26:28 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.95	453.6E6	392.0E6	18.965	18.833
	Spiked Amount 60.000	Range 18 - 90		Recovery =		31.61%	31.39%
8)	s Decachlorobiphen	18.83	17.86	628.3E6	683.2E6	39.275	38.483
	Spiked Amount 120.000			Recovery =		32.73%	32.07%
	Target Compounds						
2)	AR1016-1	8.41	8.29	300.8E6	294.7E6	360.427	367.206
3)	AR1016-2	9.55	9.41	319.1E6	266.9E6	386.763	339.196
4)	AR1016-3	9.93	9.52	151.5E6	188.2E6	384.057	362.894
5)	AR1260-1	12.99	12.52	447.5E6	389.4E6	387.088	389.350
6)	AR1260-2	13.41	13.32	510.2E6	277.2E6	377.555	376.677
7)	AR1260-3	14.95	14.35	393.0E6	309.2E6	399.137	447.690

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

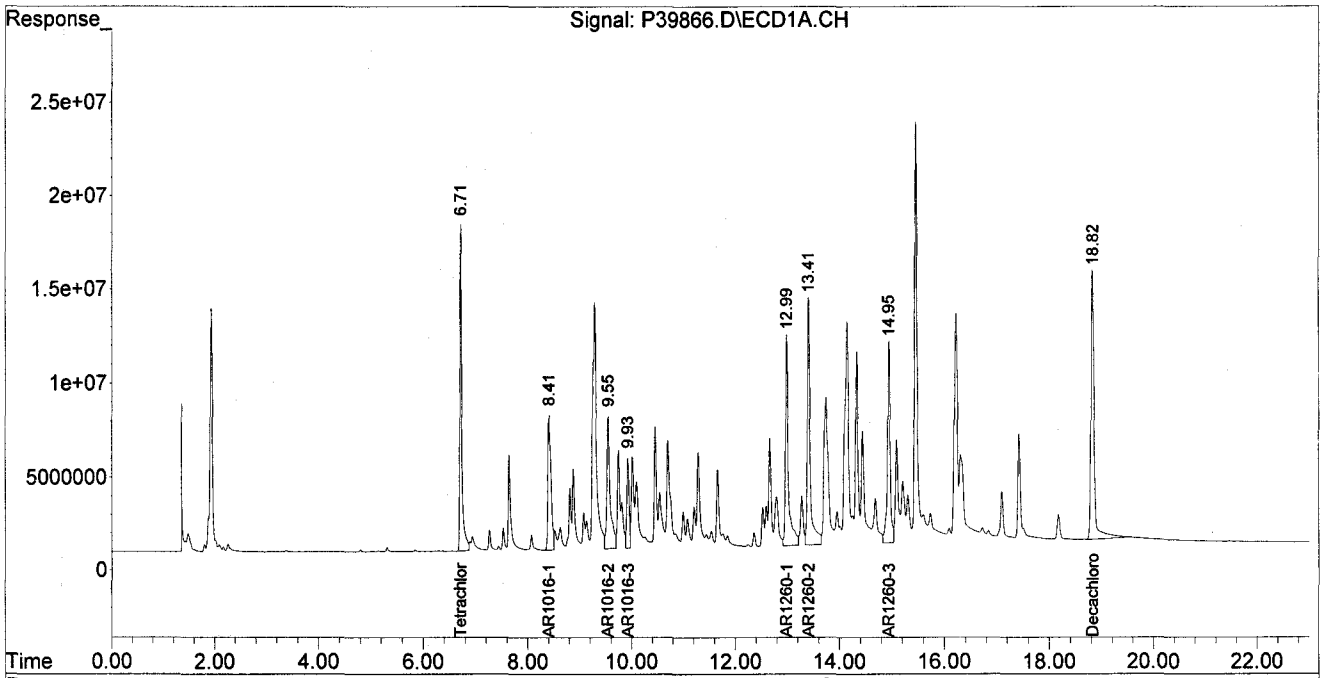
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 init/date AM 12/26

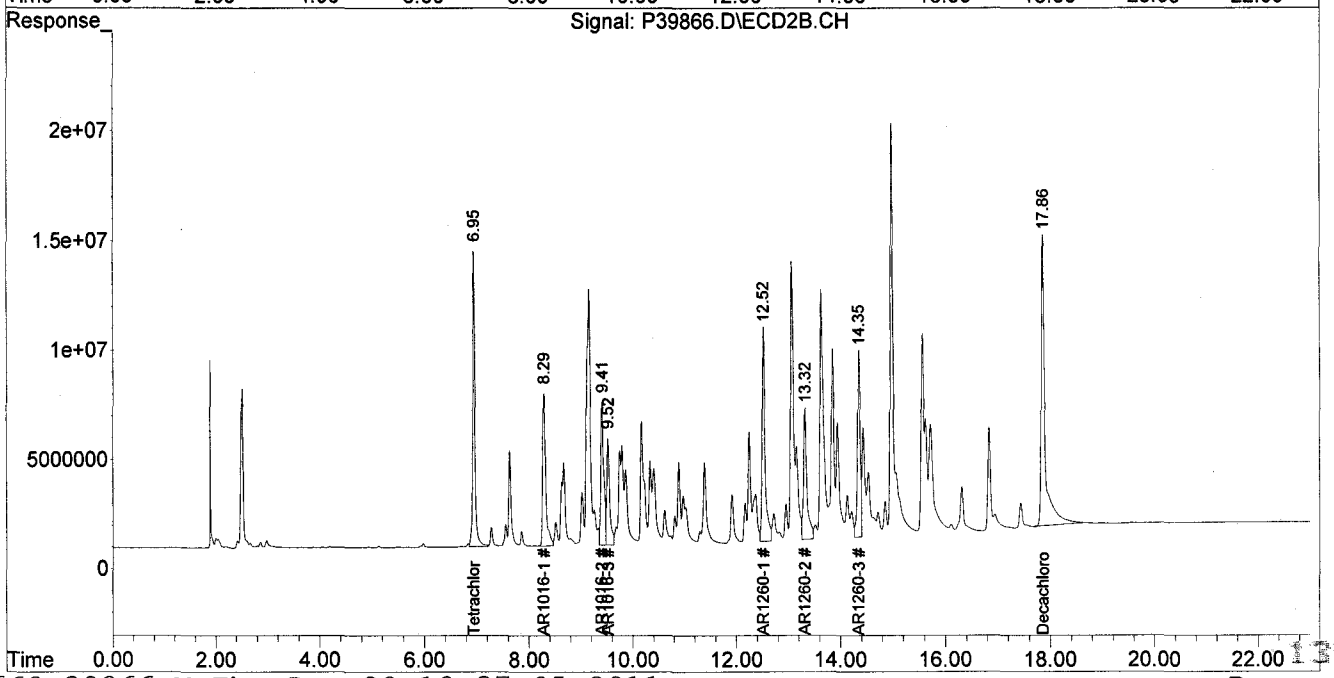
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39866.D(Signal #1) P39866.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 02:47 (Signal #1); 12/22/11 03:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660311 (Sig #1); AR1660312 (Sig #2)
Misc : AR1660311 (Sig #1); AR1660312 (Sig #2)
ALS Vial : 68 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 19 14:26:28 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39867.D(Signal #1) P39867.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 03:17 (Signal #1); 12/22/11 03:48 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660411 (Sig #1); AR1660412 (Sig #2)
Misc : AR1660411 (Sig #1); AR1660412 (Sig #2)
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:14 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	991.8E6	850.8E6	41.840	41.088
	Spiked Amount 60.000	Range 18 - 90		Recovery =		69.73%	68.48%
8)	s Decachlorobiphen	18.83	17.86	1377.6E6	1492.8E6	85.499	84.506
	Spiked Amount 120.000			Recovery =		71.25%	70.42%
	Target Compounds						
2)	AR1016-1	8.41	8.29	623.4E6	601.2E6	753.696	752.784
3)	AR1016-2	9.55	9.41	662.1E6	519.9E6	806.609	667.914
4)	AR1016-3	9.93	9.52	308.6E6	377.5E6	784.217	733.828
5)	AR1260-1	12.99	12.52	932.3E6	795.5E6	808.152	790.422
6)	AR1260-2	13.41	13.32	1073.3E6	577.2E6	796.598	791.690
7)	AR1260-3	14.94	14.35	837.3E6	647.2E6	841.598	904.772

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode F4460 init/date 1/24/12

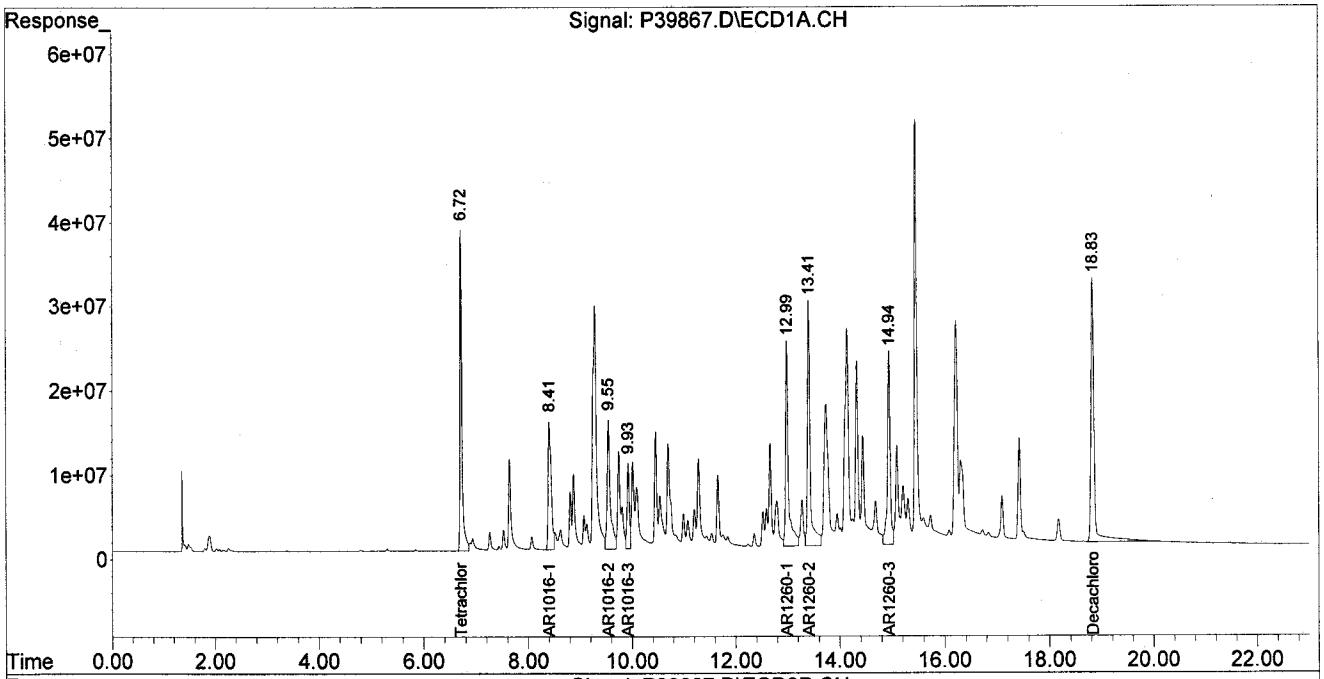
1357

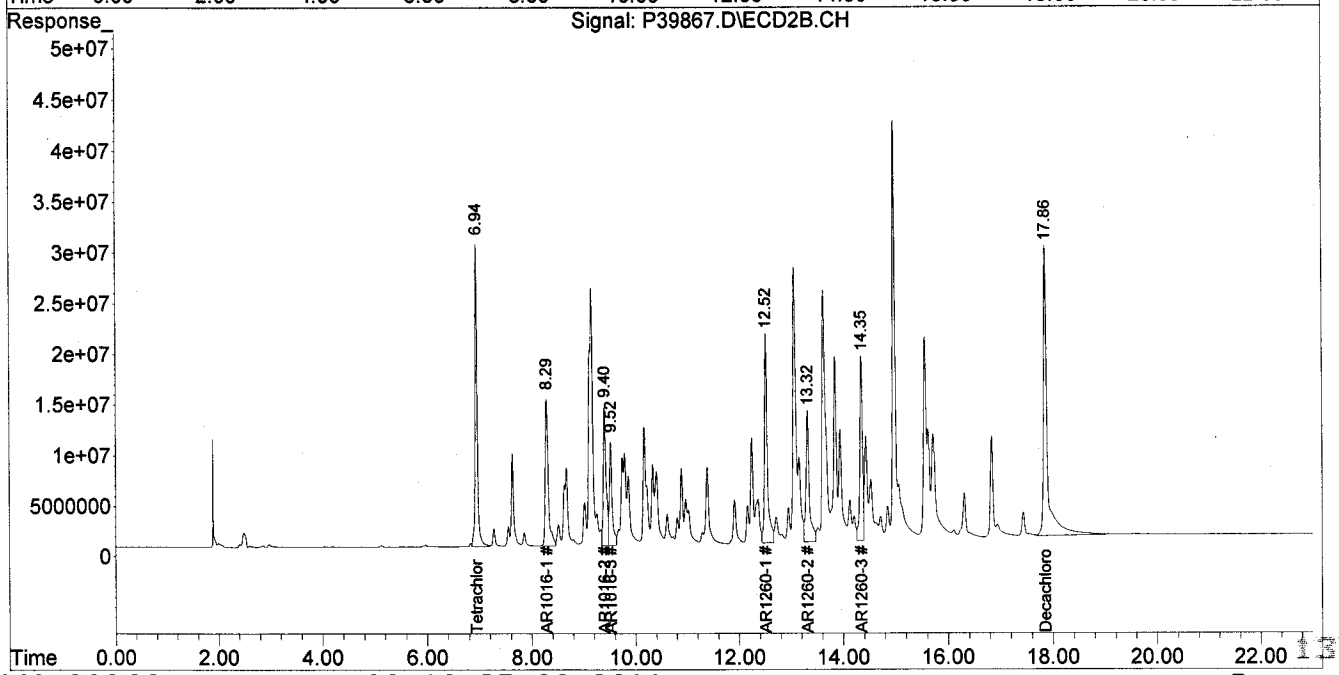
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39867.D(Signal #1) P39867.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 03:17 (Signal #1); 12/22/11 03:48 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660411 (Sig #1); AR1660412 (Sig #2)
Misc : AR1660411 (Sig #1); AR1660412 (Sig #2)
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:14 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39868.D(Signal #1) P39868.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 03:48 (Signal #1); 12/22/11 04:18 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660511 (Sig #1); AR1660512 (Sig #2)
Misc : AR1660511 (Sig #1); AR1660512 (Sig #2)
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:39 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:33 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1934.8E6	1704.7E6	79.957	82.072
	Spiked Amount 60.000	Range 18 - 90		Recovery =		133.26%#	136.79%#
8)	s Decachlorobiphen	18.83	17.86	2747.1E6	2964.2E6	165.663	168.488
	Spiked Amount 120.000			Recovery =		138.05%	140.41%
	Target Compounds						
2)	AR1016-1	8.41	8.29	1162.5E6	1161.0E6	1384.145	1454.269
3)	AR1016-2	9.55	9.40	1222.7E6	1015.8E6	1471.388	1328.021
4)	AR1016-3	9.93	9.52	565.9E6	739.6E6	1420.483	1434.006
5)	AR1260-1	12.99	12.52	1613.9E6	1541.1E6	1371.514	1524.780
6)	AR1260-2	13.41	13.32	2019.5E6	1164.3E6	1471.595	1610.963
7)	AR1260-3	14.94	14.35	1605.8E6	1247.7E6	1576.542	1712.701

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

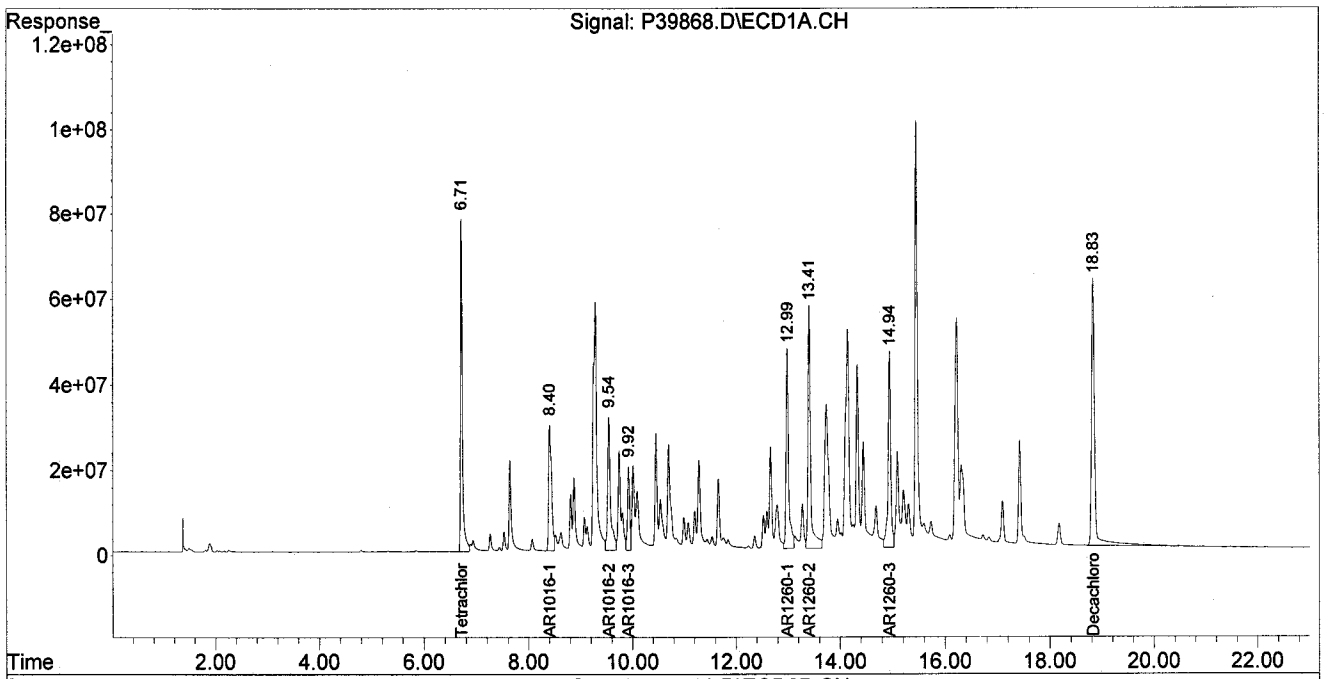
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 init/date 1/11/11

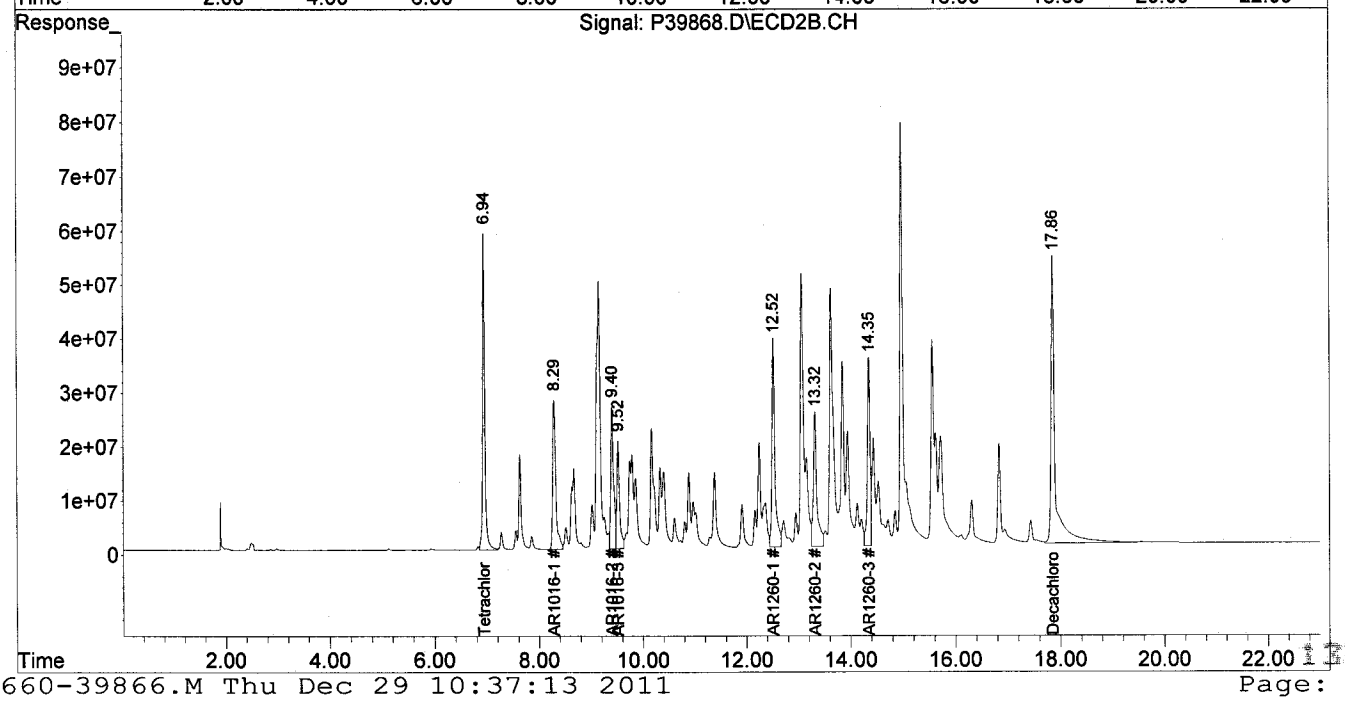
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39868.D(Signal #1) P39868.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 03:48 (Signal #1); 12/22/11 04:18 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660511 (Sig #1); AR1660512 (Sig #2)
Misc : AR1660511 (Sig #1); AR1660512 (Sig #2)
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:44:39 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:44:33 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Response Factor Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1221-S-39869.M
Title : PCB'S ANALYSIS BY CLP SOM1.0
Last Update : Mon Dec 26 11:36:30 2011
Response Via : Initial Calibration

Calibration Files
3 =P39875.D = =
= =

		Compound	3	Avg	%RSD
1)	S	Tetrachloro-m-xylene	4.027	4.027 E7	0.00
2)		AR1221-1	3.518	3.518 E5	0.00
3)		AR1221-2	2.227	2.227 E5	0.00
4)		AR1221-3	9.393	9.393 E5	0.00
5)		AR1232-1	2.153	2.153 E5	0.00
6)		AR1232-2	8.050	8.050 E4	0.00
7)		AR1232-3	1.801	1.801 E5	0.00
8)		AR1242-1	7.414	7.414 E5	0.00
9)		AR1242-2	7.039	7.039 E5	0.00
10)		AR1242-3	8.956	8.956 E5	0.00
11)		AR1248-1	6.845	6.845 E5	0.00
12)		AR1248-2	8.327	8.327 E5	0.00
13)		AR1248-3	5.210	5.210 E5	0.00
14)		AR1254-1	1.378	1.378 E6	0.00
15)		AR1254-2	1.376	1.376 E6	0.00
16)		AR1254-3	1.163	1.163 E6	0.00
17)		AR1262-1	1.333	1.333 E6	0.00
18)		AR1262-2	1.498	1.498 E6	0.00
19)		AR1262-3	1.074	1.074 E6	0.00
20)		AR1268-1	9.261	9.261 E5	0.00
21)		AR1268-2	4.506	4.506 E5	0.00
22)		AR1268-3	1.458	1.458 E6	0.00
23)	s	Decachlorobiphenyl	5.552	5.552 E7	0.00

Signal #2 Calibration Files
3 =P39875.D = =
= =

		Compound	3	Avg	%RSD
1)	S	Tetrachloro-m-xylene	3.310	3.310 E7	0.00
2)		AR1221-1	2.945	2.945 E5	0.00
3)		AR1221-2	1.748	1.748 E5	0.00
4)		AR1221-3	7.315	7.315 E5	0.00
5)		AR1232-1	9.271	9.271 E4	0.00
6)		AR1232-2	1.114	1.114 E5	0.00
7)		AR1232-3	2.264	2.264 E5	0.00
8)		AR1242-1	1.234	1.234 E6	0.00
9)		AR1242-2	8.720	8.720 E5	0.00
10)		AR1242-3	5.622	5.622 E5	0.00
11)		AR1248-1	6.822	6.822 E5	0.00
12)		AR1248-2	6.815	6.815 E5	0.00
13)		AR1248-3	4.536	4.536 E5	0.00
14)		AR1254-1	1.815	1.815 E6	0.00
15)		AR1254-2	1.136	1.136 E6	0.00
16)		AR1254-3	8.045	8.045 E5	0.00
17)		AR1262-1	1.175	1.175 E6	0.00
18)		AR1262-2	1.242	1.242 E6	0.00
19)		AR1262-3	9.302	9.302 E5	0.00
20)		AR1268-1	8.449	8.449 E5	0.00
21)		AR1268-2	6.262	6.262 E5	0.00
22)		AR1268-3	1.607	1.607 E6	0.00
23)	s	Decachlorobiphenyl	6.879	6.879 E7	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39869.D(Signal #1) P39869.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 04:18 (Signal #1); 12/22/11 04:49 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221311 (Sig #1); AR1221312 (Sig #2)
Misc : AR1221311 (Sig #1); AR1221312 (Sig #2)
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:19:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:17:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	786.0E6	667.8E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23)	s Decachlorobiphen	18.82	17.86	1105.0E6	1167.8E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
2)	AR1221-1	7.26	7.28	140.7E6	117.8E6	400.000	400.000
3)	AR1221-2	7.52	7.55	89060613	69915238	400.000	400.000
4)	AR1221-3	7.64	7.63	375.7E6	292.6E6	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

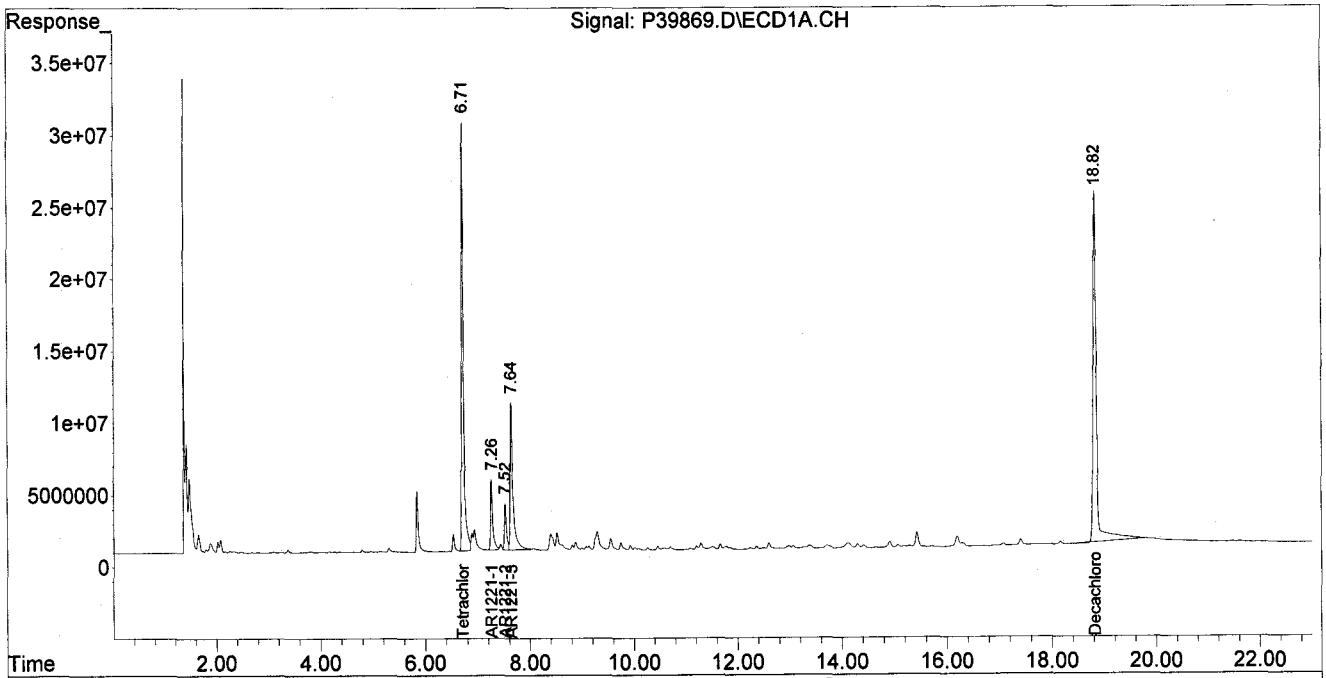
ORIGINAL
Case 42040 SDG F4XP0
Episode P 4460 init/date 12/14/11

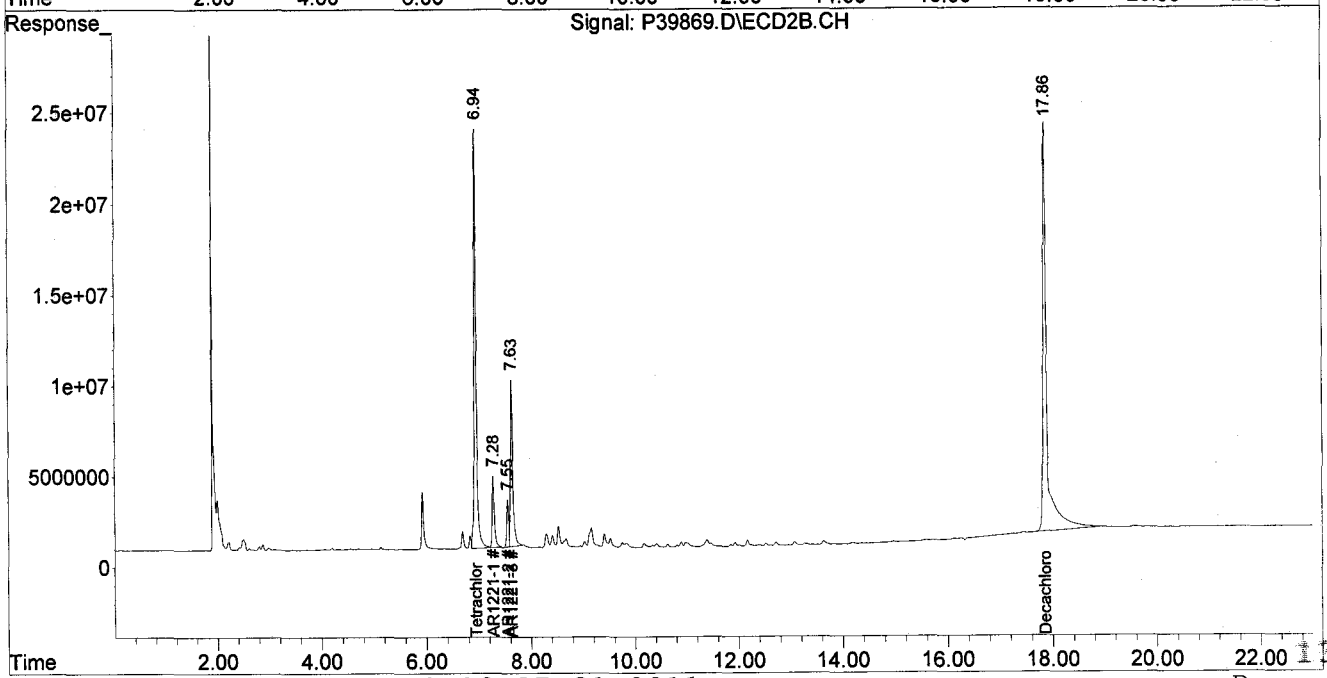
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39869.D(Signal #1) P39869.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 04:18 (Signal #1); 12/22/11 04:49 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221311 (Sig #1); AR1221312 (Sig #2)
Misc : AR1221311 (Sig #1); AR1221312 (Sig #2)
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:19:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:17:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39870.D(Signal #1) P39870.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 04:49 (Signal #1); 12/22/11 05:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1232311 (Sig #1); AR1232312 (Sig #2)
Misc : AR1232311 (Sig #1); AR1232312 (Sig #2)
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:23:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:22:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	699.0E6	567.6E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23)	s Decachlorobiphen	18.83	17.86	964.2E6	1054.4E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
5)	AR1232-1	8.87	8.52	86124074	37085065	400.000	400.000
6)	AR1232-2	9.07	9.02	32200972	44576408	400.000	400.000
7)	AR1232-3	10.09	9.84	72021297	90561246	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

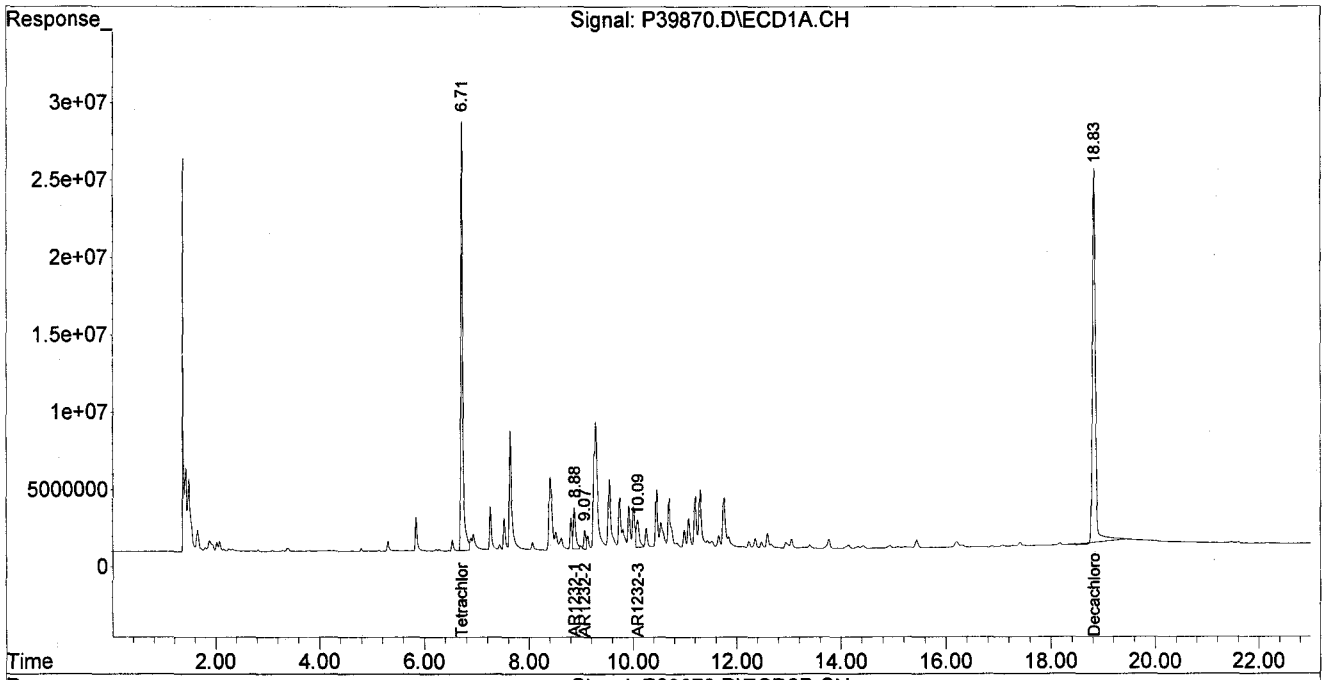
ORIGINAL
Case 42060 SDG F4XP0
Episode S-4460 init/date 12/14

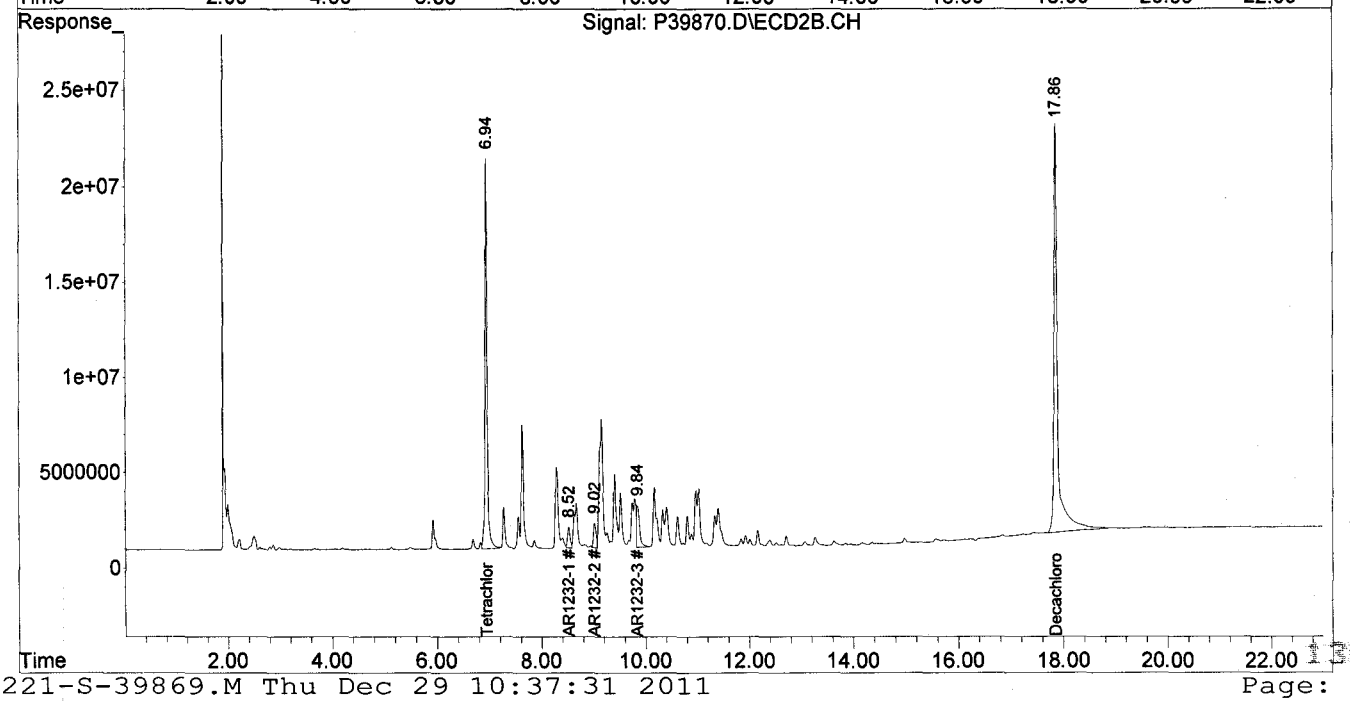
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39870.D(Signal #1) P39870.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 04:49 (Signal #1); 12/22/11 05:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1232311 (Sig #1); AR1232312 (Sig #2)
Misc : AR1232311 (Sig #1); AR1232312 (Sig #2)
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:23:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:22:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39871.D(Signal #1)           P39871.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/22/11 05:19 (Signal #1); 12/22/11 05:50 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1242311 (Sig #1); AR1242312 (Sig #2)
Misc      : AR1242311 (Sig #1); AR1242312 (Sig #2)
ALS Vial  : 73   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:26:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title  : PCB'S  ANALYSIS BY CLP  SOM1.0
QLast Update : Mon Dec 26 11:26:18 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.72	6.94	1407.9E6	1314.7E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23) s	Decachlorobiphen	18.83	17.86	1669.3E6	2414.2E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
8)	AR1242-1	9.75	9.40	296.6E6	493.4E6	400.000	400.000
9)	AR1242-2	10.01	9.52	281.6E6	348.8E6	400.000	400.000
10)	AR1242-3	10.46	9.75	358.2E6	224.9E6	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4xP0
Episode S-4460 init/date [illegible]

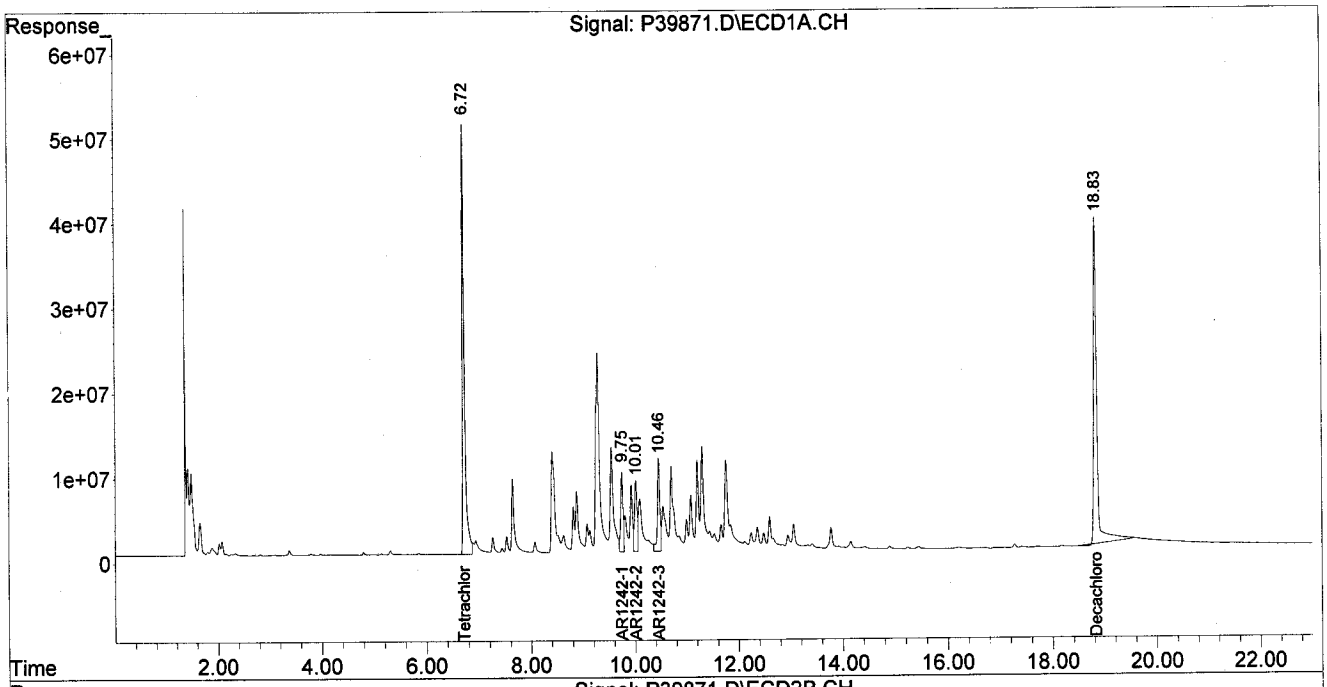
1366

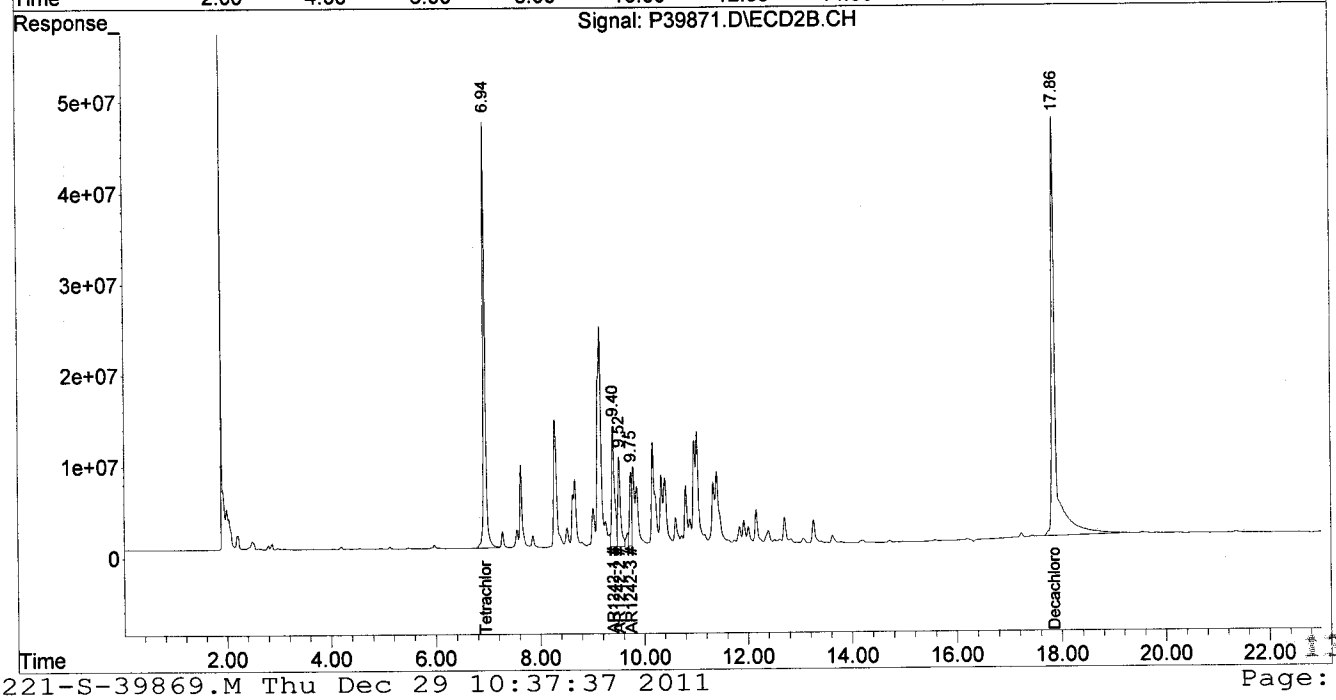
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39871.D(Signal #1) P39871.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 05:19 (Signal #1); 12/22/11 05:50 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242311 (Sig #1); AR1242312 (Sig #2)
Misc : AR1242311 (Sig #1); AR1242312 (Sig #2)
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:26:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:26:18 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39872.D(Signal #1) P39872.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 05:50 (Signal #1); 12/22/11 06:20 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1248311 (Sig #1); AR1248312 (Sig #2)
Misc : AR1248311 (Sig #1); AR1248312 (Sig #2)
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:31:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:31:18 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	663.4E6	589.2E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23)	s Decachlorobiphen	18.83	17.86	913.9E6	1146.9E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
11)	AR1248-1	9.93	10.33	273.8E6	272.9E6	400.000	400.000
12)	AR1248-2	12.59	12.17	333.1E6	272.6E6	400.000	400.000
13)	AR1248-3	13.05	12.71	208.4E6	181.4E6	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

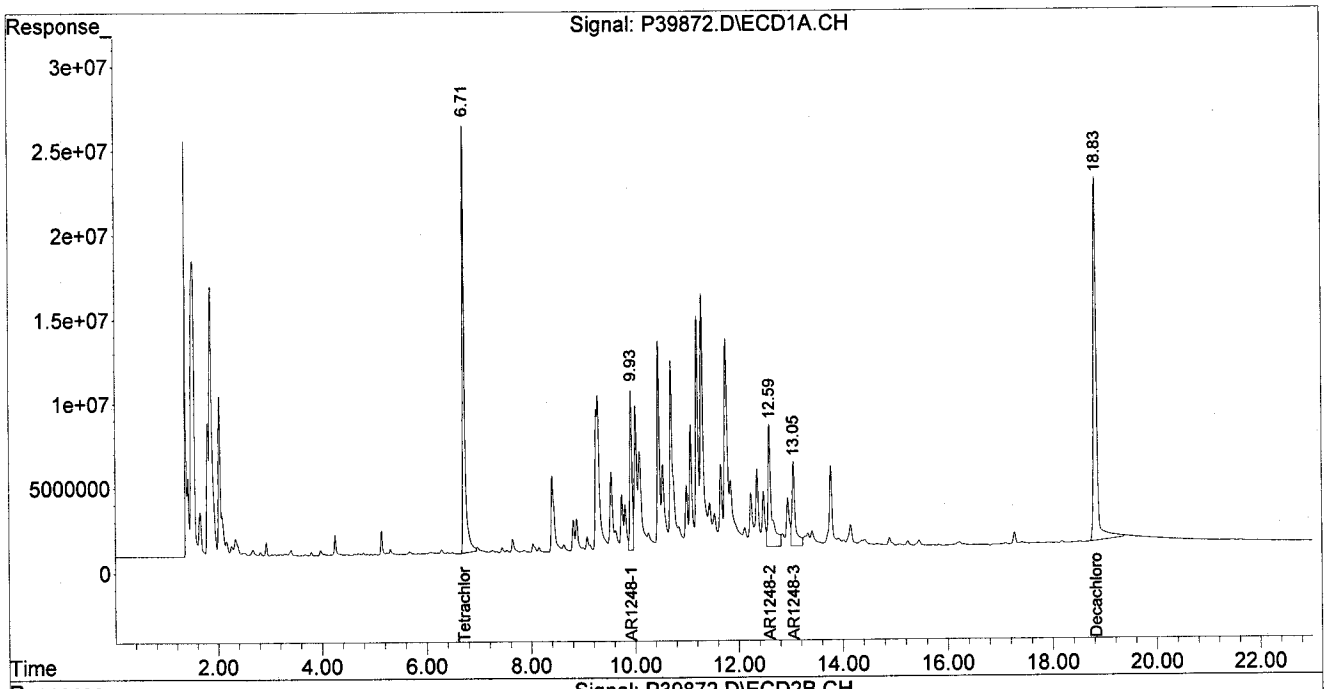
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date 12/29/11

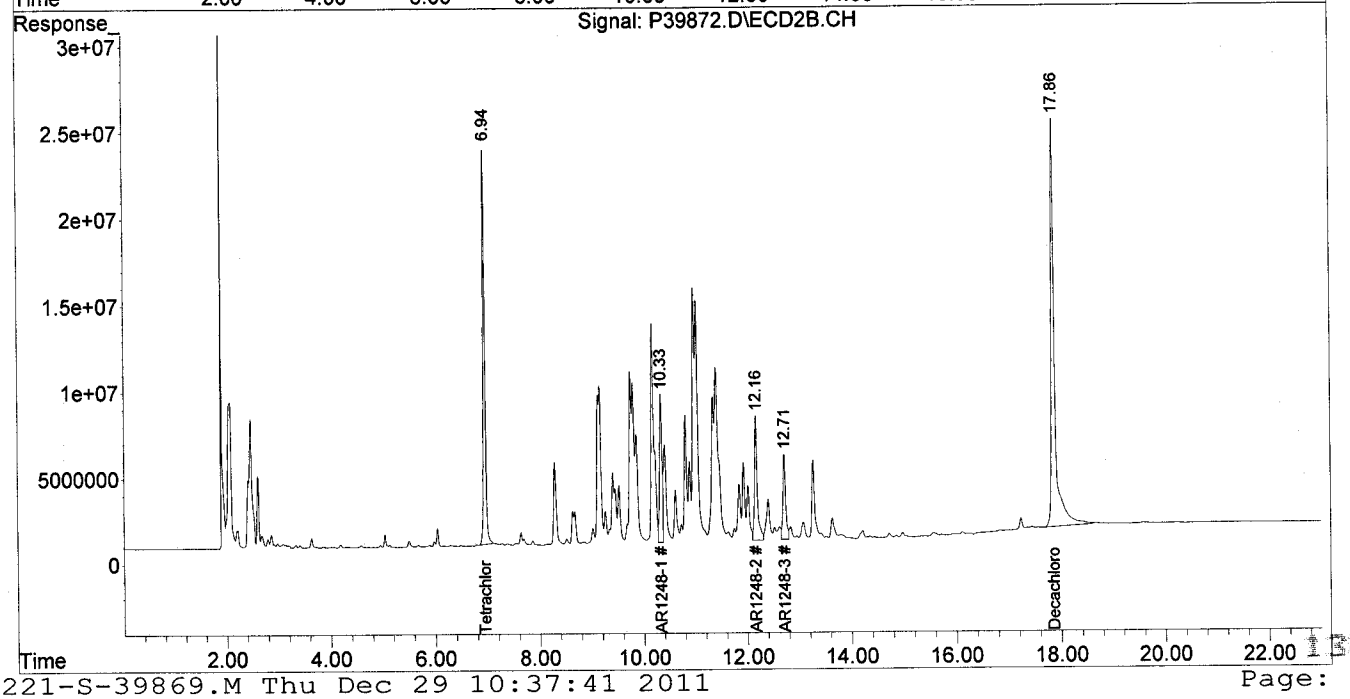
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39872.D(Signal #1) P39872.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 05:50 (Signal #1); 12/22/11 06:20 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1248311 (Sig #1); AR1248312 (Sig #2)
Misc : AR1248311 (Sig #1); AR1248312 (Sig #2)
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:31:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:31:18 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39873.D(Signal #1) P39873.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 06:20 (Signal #1); 12/22/11 06:51 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254311 (Sig #1); AR1254312 (Sig #2)
Misc : AR1254311 (Sig #1); AR1254312 (Sig #2)
ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:33:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:32:49 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	765.2E6	641.1E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23)	s Decachlorobiphen	18.83	17.86	1123.8E6	1181.2E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
14)	AR1254-1	11.29	11.38	551.1E6	726.0E6	400.000	400.000
15)	AR1254-2	11.66	11.93	550.3E6	454.5E6	400.000	400.000
16)	AR1254-3	12.36	12.52	465.4E6	321.8E6	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

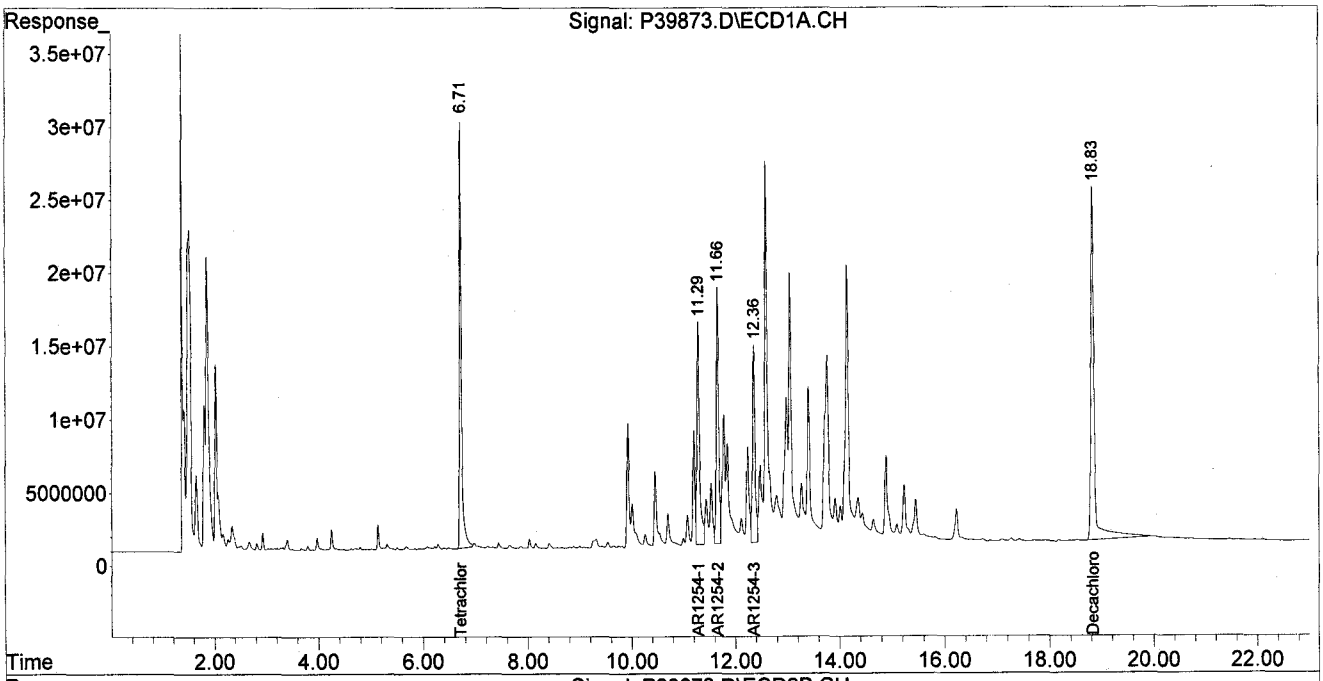
ORIGINAL
Case 42040 SDG F4XP0
Episode F-4460 init/date 01/04/12

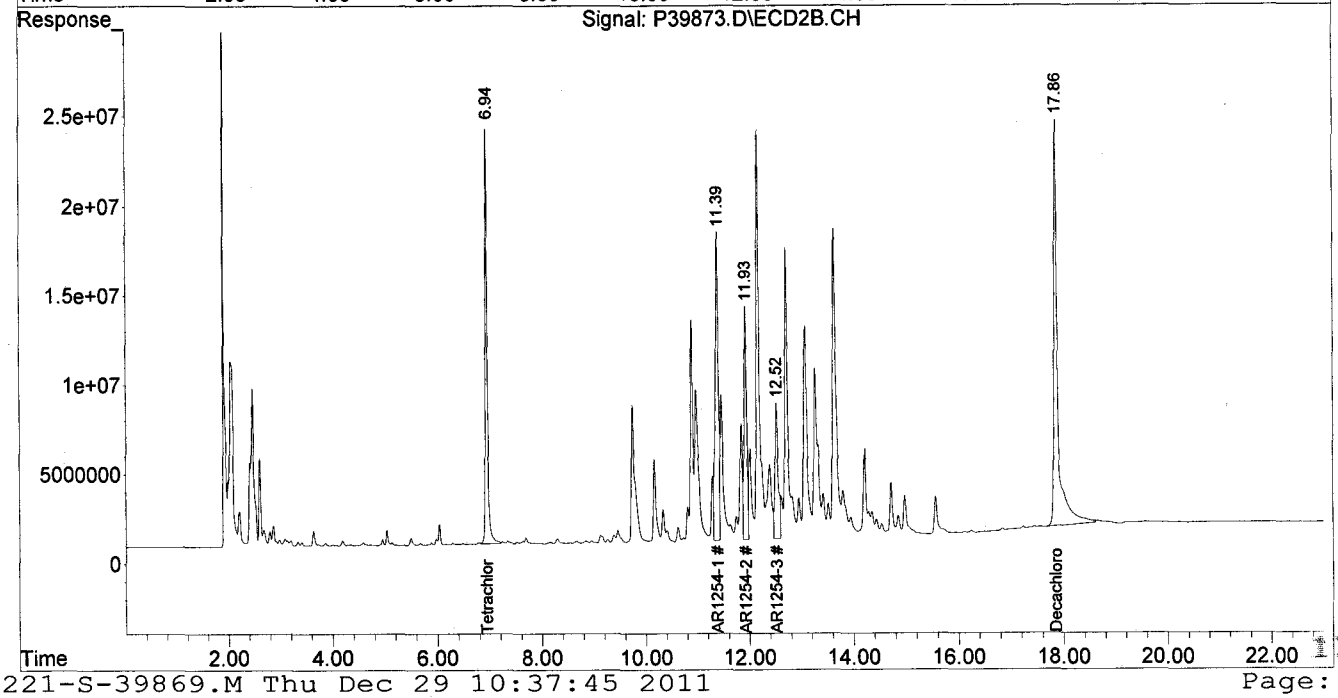
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39873.D(Signal #1) P39873.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 06:20 (Signal #1); 12/22/11 06:51 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254311 (Sig #1); AR1254312 (Sig #2)
Misc : AR1254311 (Sig #1); AR1254312 (Sig #2)
ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:33:17 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:32:49 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39874.D(Signal #1) P39874.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 06:51 (Signal #1); 12/22/11 07:21 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1262311 (Sig #1); AR1262312 (Sig #2)
Misc : AR1262311 (Sig #1); AR1262312 (Sig #2)
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:35:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:35:07 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	848.7E6	688.9E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23)	s Decachlorobiphen	18.83	17.86	1054.3E6	1378.8E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
17)	AR1262-1	12.99	12.52	533.3E6	469.9E6	400.000	400.000
18)	AR1262-2	13.41	13.06	599.1E6	496.7E6	400.000	400.000
19)	AR1262-3	17.42	16.83	429.8E6	372.1E6	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

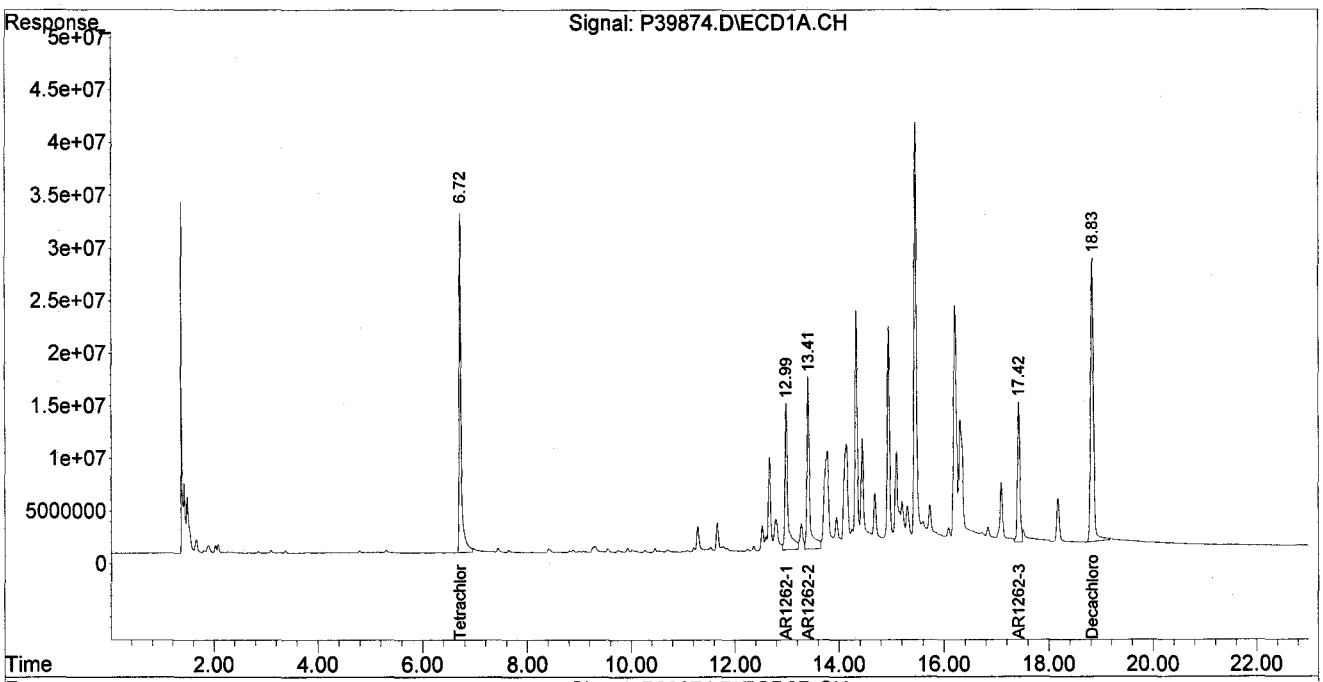
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 Init/date 12/26

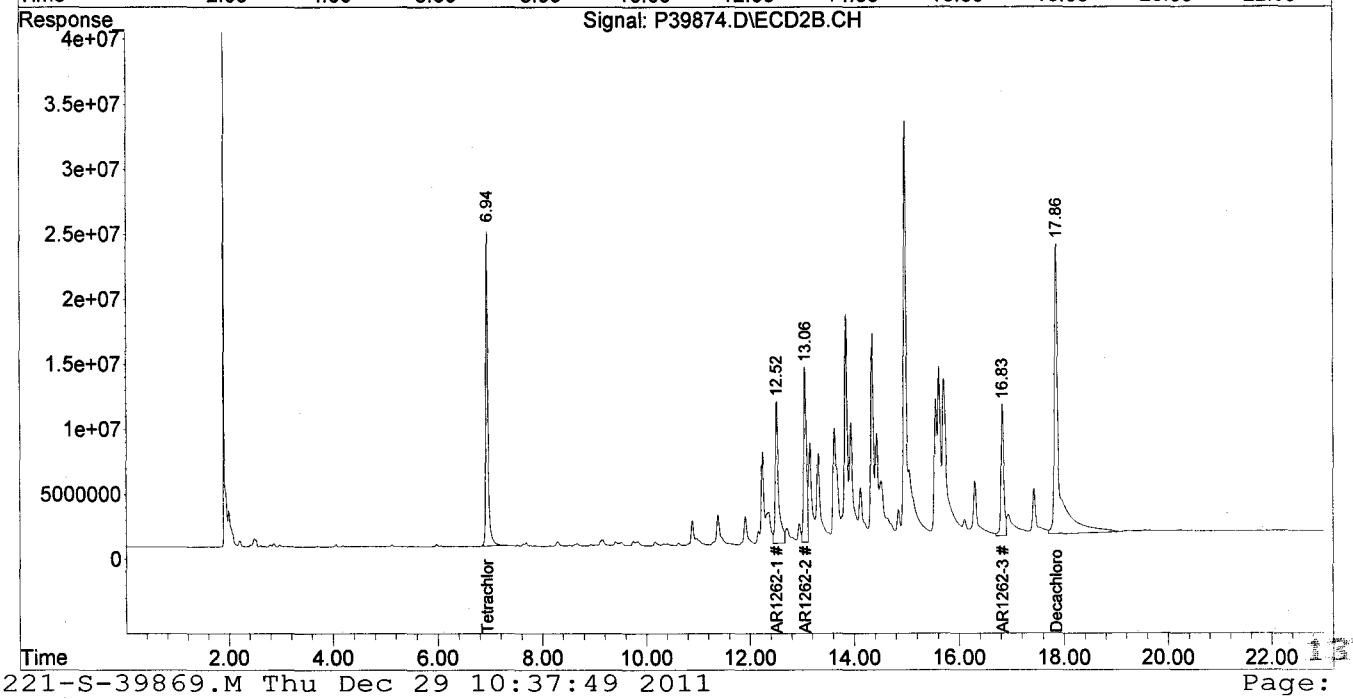
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39874.D(Signal #1) P39874.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 06:51 (Signal #1); 12/22/11 07:21 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1262311 (Sig #1); AR1262312 (Sig #2)
Misc : AR1262311 (Sig #1); AR1262312 (Sig #2)
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:35:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:35:07 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39875.D(Signal #1) P39875.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 07:21 (Signal #1); 12/22/11 07:52 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1268311 (Sig #1); AR1268312 (Sig #2)
Misc : AR1268311 (Sig #1); AR1268312 (Sig #2)
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:36:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:36:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.71	6.94	805.4E6	662.1E6	20.000	20.000
	Spiked Amount 20.000			Recovery	=	100.00%	100.00%
23) s	Decachlorobiphen	18.82	17.86	2220.7E6	2751.5E6	40.000	40.000
	Spiked Amount 40.000			Recovery	=	100.00%	100.00%
	Target Compounds						
20)	AR1268-1	14.95	14.34	370.5E6	338.0E6	400.000	400.000
21)	AR1268-2	15.45	14.98	180.3E6	250.5E6	400.000	400.000
22)	AR1268-3	17.42	16.83	583.3E6	643.0E6	400.000	400.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode Fuu60 init/date [illegible]

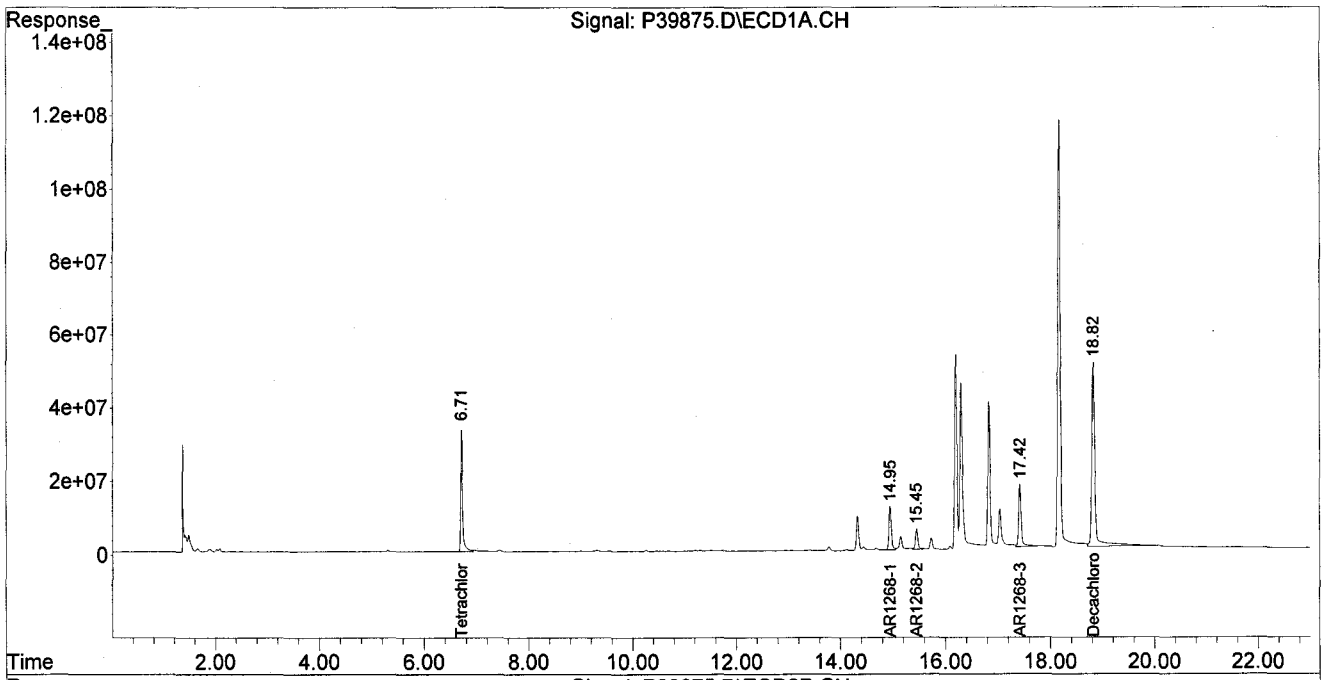
1374

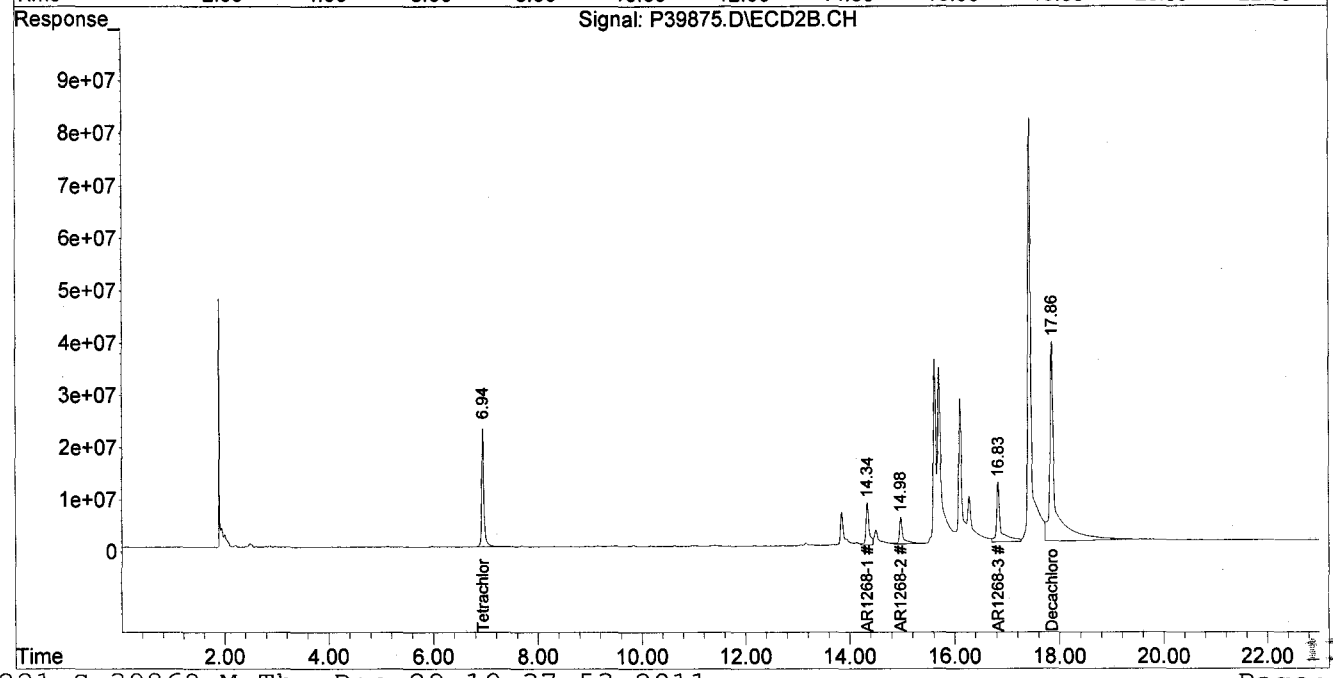
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39875.D(Signal #1) P39875.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 07:21 (Signal #1); 12/22/11 07:52 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1268311 (Sig #1); AR1268312 (Sig #2)
Misc : AR1268311 (Sig #1); AR1268312 (Sig #2)
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:36:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-S-39869.M
Quant Title : PCB'S ANALYSIS BY CLP SOM1.0
QLast Update : Mon Dec 26 11:36:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1660-39866.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 10:38:18 2011
Response Via : Initial Calibration

CC Data File: P39877.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	24.801	23.305	E6	6.0	103
2		AR1016-1	851.872	774.355	E3	9.1	103
3		AR1016-2	849.316	716.358	E3	15.7	90
4		AR1016-3	404.372	335.008	E3	17.2	88
5		AR1260-1	1.218	1.157	E6	5.0	103
6		AR1260-2	1.402	1.309	E6	6.6	103
7		AR1260-3	1070.981	997.237	E3	6.9	101
8	S	Decachlorobiphenyl	17.493	16.384	E6	6.3	104

Signal #2
CC Data File: P39877.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	21.078	18.958	E6	10.1	97
2		AR1016-1	800.313	711.364	E3	11.1	97
3		AR1016-2	706.629	610.806	E3	13.6	92
4		AR1016-3	507.423	453.748	E3	10.6	96
5		AR1260-1	1055.085	933.433	E3	11.5	96
6		AR1260-2	734.180	673.045	E3	8.3	97
7		AR1260-3	850.164	740.387	E3	12.9	96
8	s	Decachlorobiphenyl	18.900	16.974	E6	10.2	99

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39877.D(Signal #1) P39877.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 08:22 (Signal #1); 12/22/11 08:53 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660321 (Sig #1); AR1660322 (Sig #2)
Misc : AR1660321 (Sig #1); AR1660322 (Sig #2)
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:46:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.95	466.1E6	379.2E6	18.793	17.988
	Spiked Amount 60.000	Range 18 - 90		Recovery =		31.32%	29.98%
8)	s Decachlorobiphen	18.82	17.86	655.3E6	679.0E6	37.463	35.925
	Spiked Amount 120.000			Recovery =		31.22%	29.94%
	Target Compounds						
2)	AR1016-1	8.41	8.29	309.7E6	284.5E6	363.602	355.543
3)	AR1016-2	9.55	9.41	286.5E6	244.3E6	337.381	345.758
4)	AR1016-3	9.93	9.53	134.0E6	181.5E6	331.386	357.688
5)	AR1260-1	12.99	12.52	462.7E6	373.4E6	379.911	353.880
6)	AR1260-2	13.41	13.32	523.7E6	269.2E6	373.548	366.692
7)	AR1260-3	14.94	14.36	398.9E6	296.2E6	372.458	348.350

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

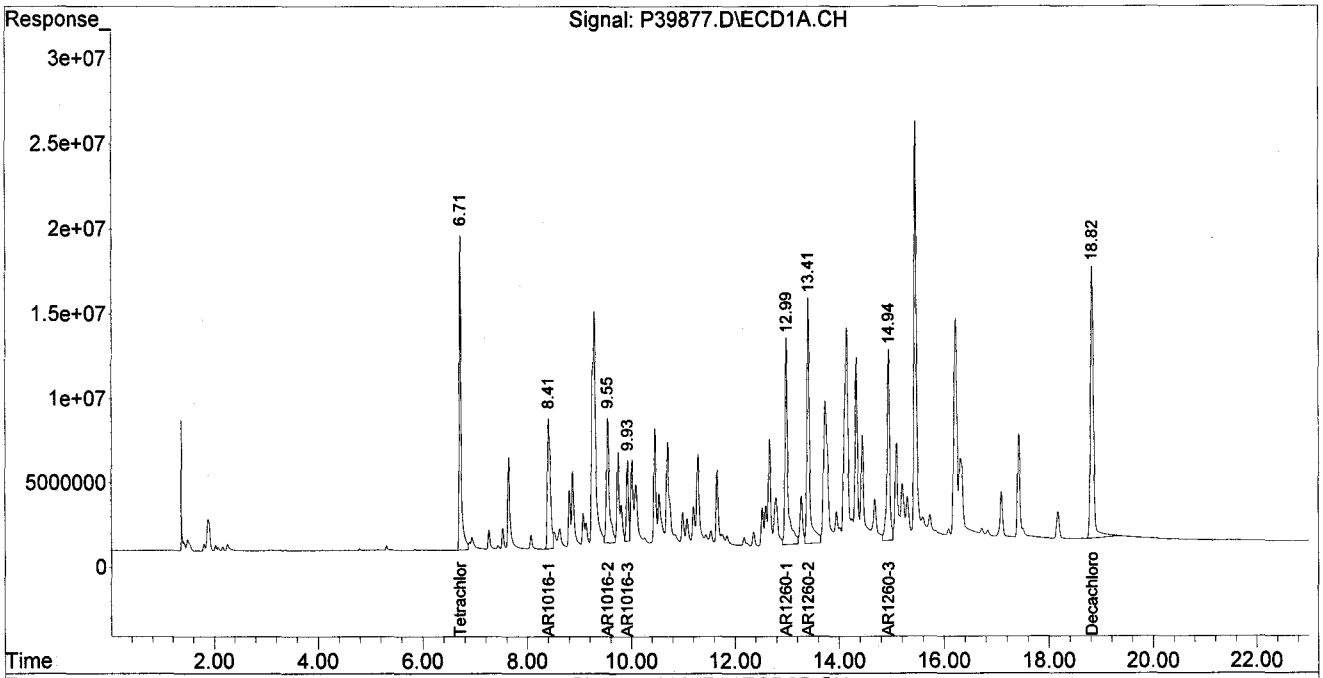
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 Init/date 12/29/11

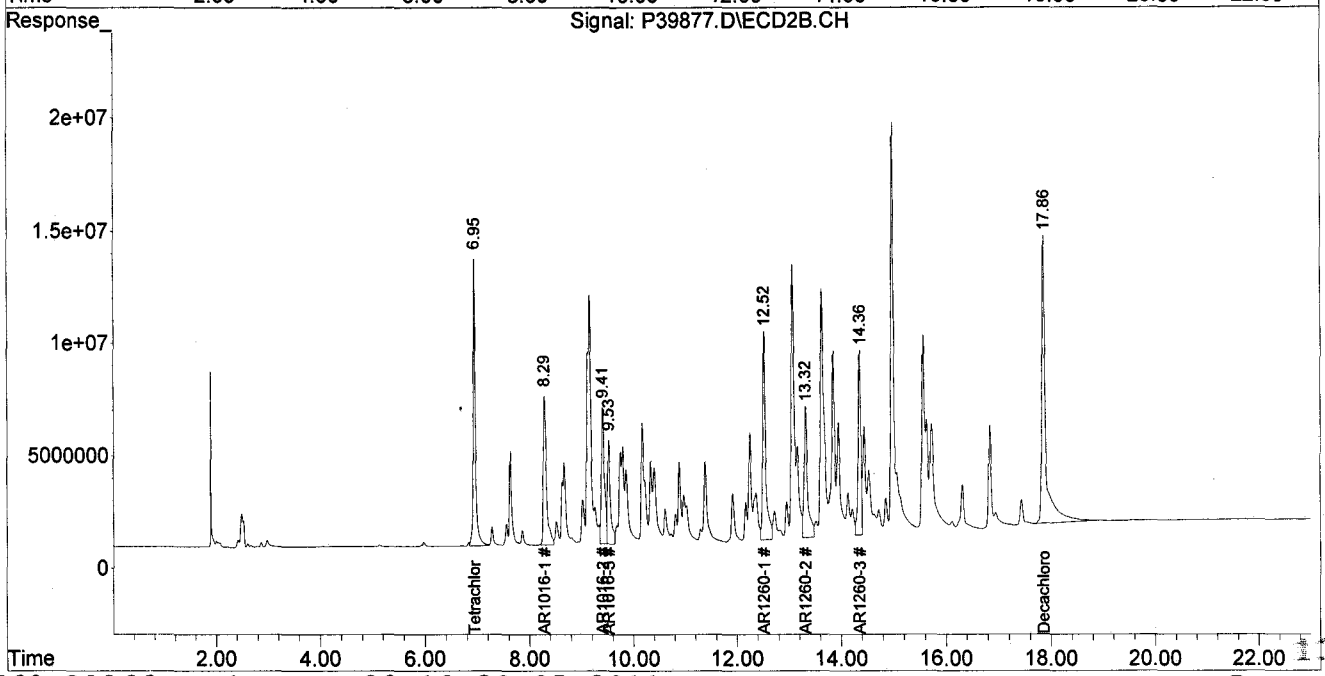
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39877.D(Signal #1) P39877.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 08:22 (Signal #1); 12/22/11 08:53 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660321 (Sig #1); AR1660322 (Sig #2)
Misc : AR1660321 (Sig #1); AR1660322 (Sig #2)
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 20:46:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Response Factor Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1254-MOD-2207-39890.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:19:37 2011
Response Via : Initial Calibration

Calibration Files
3 =P39890.D 2 =P39889.D 1 =P39888.D
4 =P39891.D 5 =P39892.D

	Compound	3	2	1	4	5	Avg		%RSD
1) S	Tetrachloro-m-xylene	2.495	2.570	2.349	2.635	2.644	2.539	E7	4.78
2)	AR1254-1	0.991	1.098	0.899	0.937	0.866	0.958	E6	9.50
3)	AR1254-2	7.572	8.168	6.294	7.230	7.052	7.263	E5	9.49
4)	AR1254-3	7.843	9.131	5.794	7.925	7.205	7.580	E5	16.06
5) S	Decachlorobiphenyl	1.758	1.753	2.249	1.846	1.709	1.863	E7	11.88

Signal #2 Calibration Files
3 =P39890.D 2 =P39889.D 1 =P39888.D
4 =P39891.D 5 =P39892.D

	Compound	3	2	1	4	5	Avg		%RSD
1) S	Tetrachloro-m-xylene	1.932	2.120	2.062	2.073	2.115	2.061	E7	3.69
2)	AR1254-1	6.883	8.019	7.732	6.832	6.620	7.217	E5	8.55
3)	AR1254-2	1.071	1.230	1.103	1.085	1.048	1.107	E6	6.45
4)	AR1254-3	0.905	1.056	0.984	0.899	0.855	0.940	E6	8.50
5) s	Decachlorobiphenyl	1.805	2.085	2.053	1.860	1.801	1.921	E7	7.17

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39888.D(Signal #1) P39888.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 13:58 (Signal #1); 12/22/11 14:29 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254111 (Sig #1); AR1254112 (Sig #2)
Misc : AR1254111 (Sig #1); AR1254112 (Sig #2)
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 10:38:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 09:19:37 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	117.5E6	103.1E6	4.627	5.004
	Spiked Amount 60.000	Range 18 - 90		Recovery =		7.71%#	8.34%#
5)	s Decachlorobiphen	18.82	17.85	224.9E6	205.3E6	12.072	10.689
	Spiked Amount 120.000			Recovery =		10.06%	8.91%
	Target Compounds						
2)	AR1254-1	11.28	11.92	17974052	15463096	18.754	21.426
3)	AR1254-2	12.36	12.71	12587944	22053632	17.331	19.917
4)	AR1254-3	13.41	13.07	11587155	19678227	15.287	20.943 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

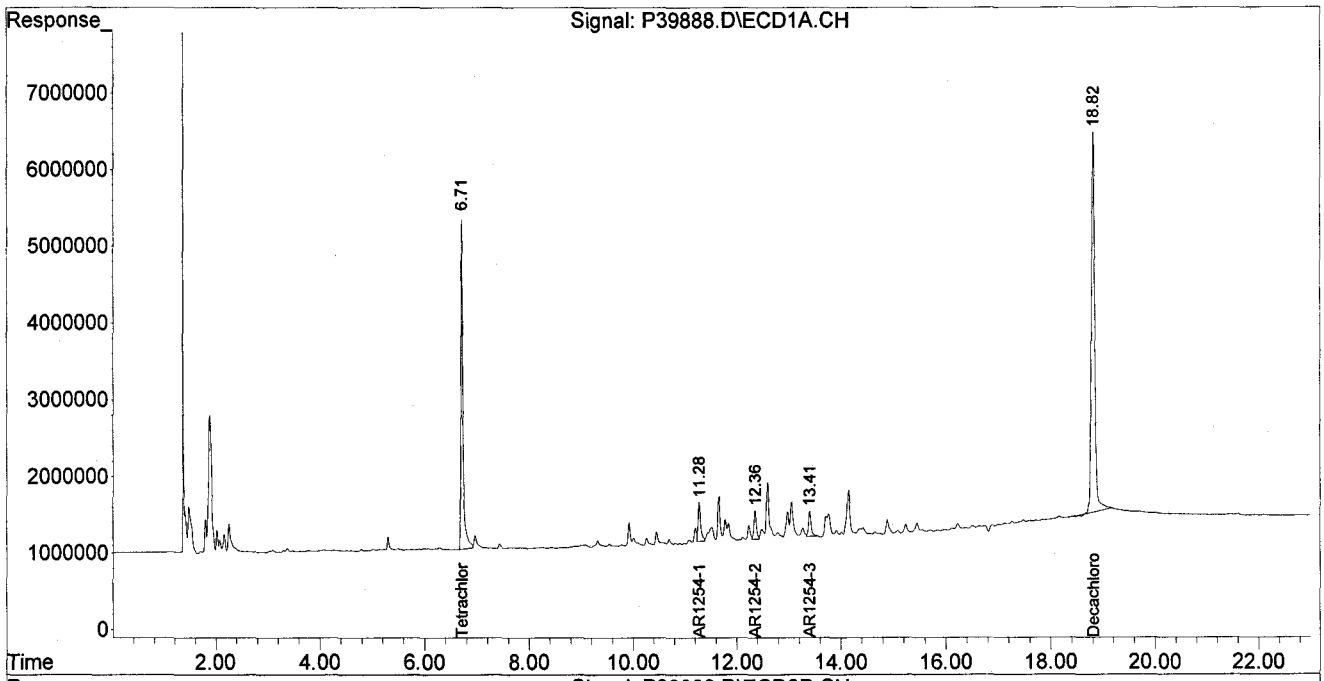
ORIGINAL
Case 42040 SDG F4XP0
Episode F4460 init/date 12/14/11

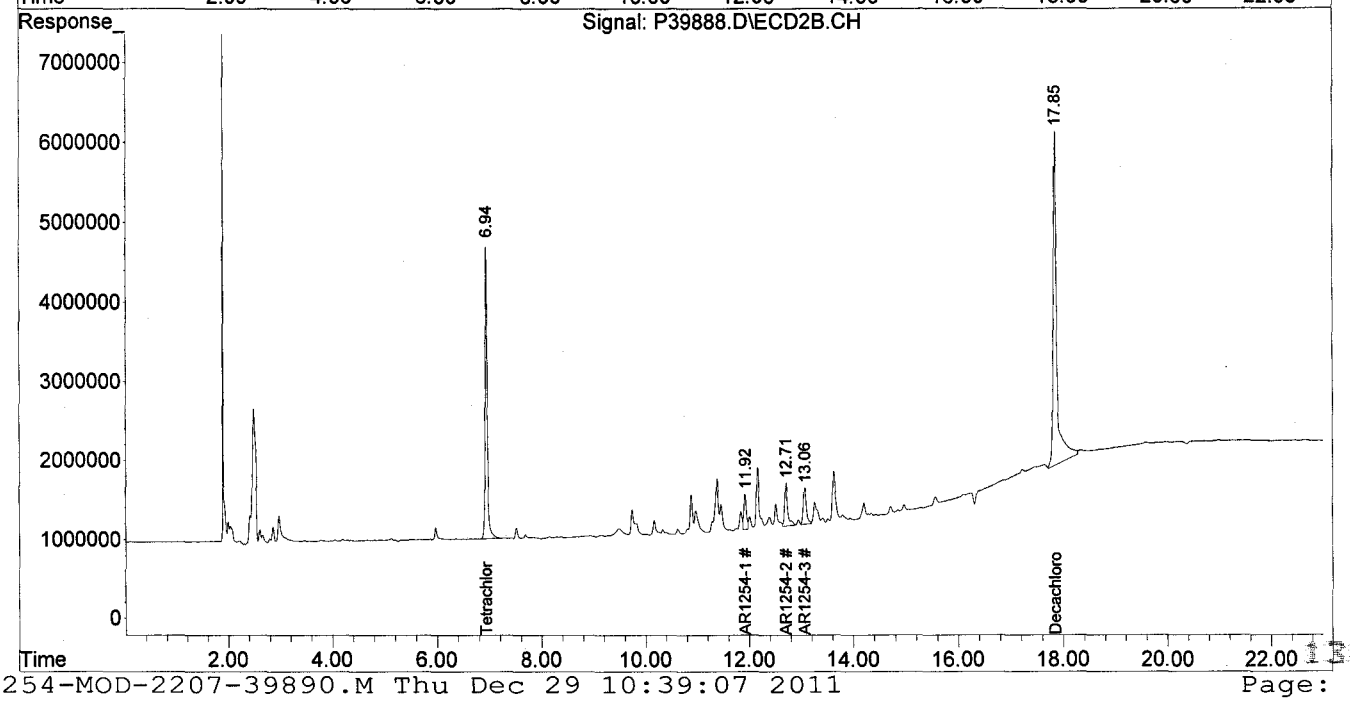
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39888.D(Signal #1) P39888.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 13:58 (Signal #1); 12/22/11 14:29 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254111 (Sig #1); AR1254112 (Sig #2)
Misc : AR1254111 (Sig #1); AR1254112 (Sig #2)
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 10:38:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 09:19:37 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39889.D(Signal #1)           P39889.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/22/11 14:29 (Signal #1); 12/22/11 14:59 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1254211 (Sig #1); AR1254212 (Sig #2)
Misc      : AR1254211 (Sig #1); AR1254212 (Sig #2)
ALS Vial  : 91   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:12:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Sun Dec 25 14:12:25 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.72	6.94	257.0E6	212.0E6	10.022	10.307
	Spiked Amount 60.000 Range 18 - 90 Recovery =					16.70%#	17.18%#
5) s	Decachlorobiphen	18.82	17.85	350.5E6	416.9E6	18.867	21.940
	Spiked Amount 120.000 Recovery =					15.72%	18.28%
	Target Compounds						
2)	AR1254-1	11.29	11.92	109.8E6	80188374	114.895	111.381
3)	AR1254-2	12.36	12.71	81681828	123.0E6	111.756	111.552
4)	AR1254-3	13.41	13.07	91312345	105.6E6	121.175	112.938

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode 1-4460 init/date [illegible]

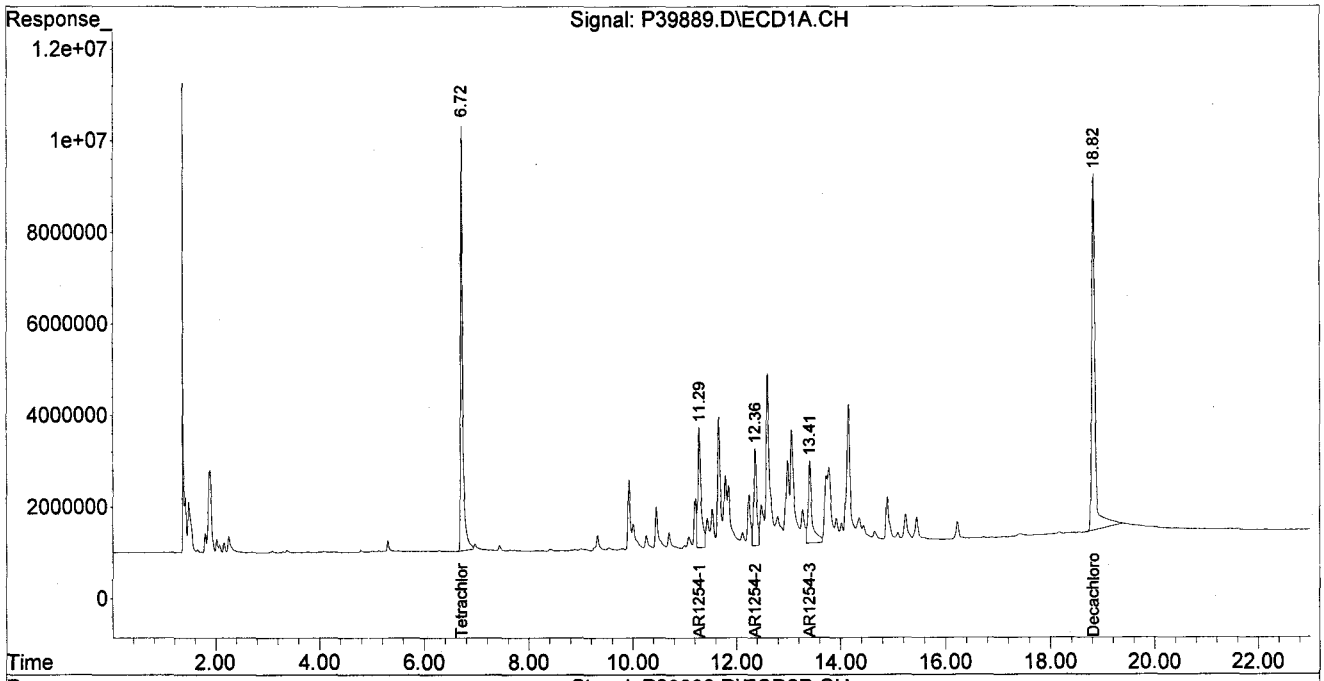
1382

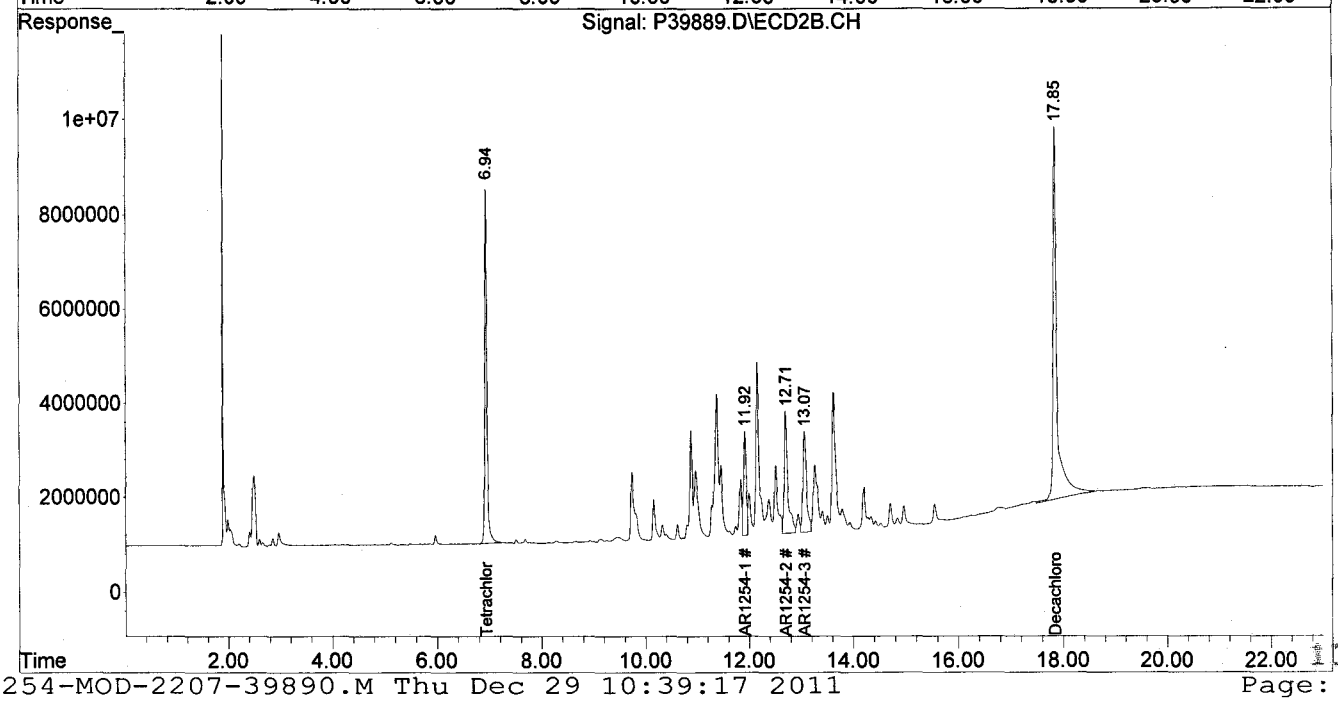
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39889.D(Signal #1) P39889.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 14:29 (Signal #1); 12/22/11 14:59 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254211 (Sig #1); AR1254212 (Sig #2)
Misc : AR1254211 (Sig #1); AR1254212 (Sig #2)
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:12:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:12:25 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39890.D(Signal #1) P39890.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 14:59 (Signal #1); 12/22/11 15:30 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254321 (Sig #1); AR1254322 (Sig #2)
Misc : AR1254321 (Sig #1); AR1254322 (Sig #2)
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:12:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:12:38 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	499.0E6	386.5E6	19.657	18.755
	Spiked Amount 60.000	Range 18 - 90		Recovery =		32.76%	31.26%
5)	s Decachlorobiphen	18.82	17.84	703.3E6	722.0E6	37.754	37.584
	Spiked Amount 120.000			Recovery =		31.46%	31.32%
	Target Compounds						
2)	AR1254-1	11.29	11.92	198.2E6	137.7E6	206.842	190.746
3)	AR1254-2	12.36	12.70	151.4E6	214.1E6	208.498	193.396
4)	AR1254-3	13.41	13.06	156.9E6	181.0E6	206.953	192.592

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

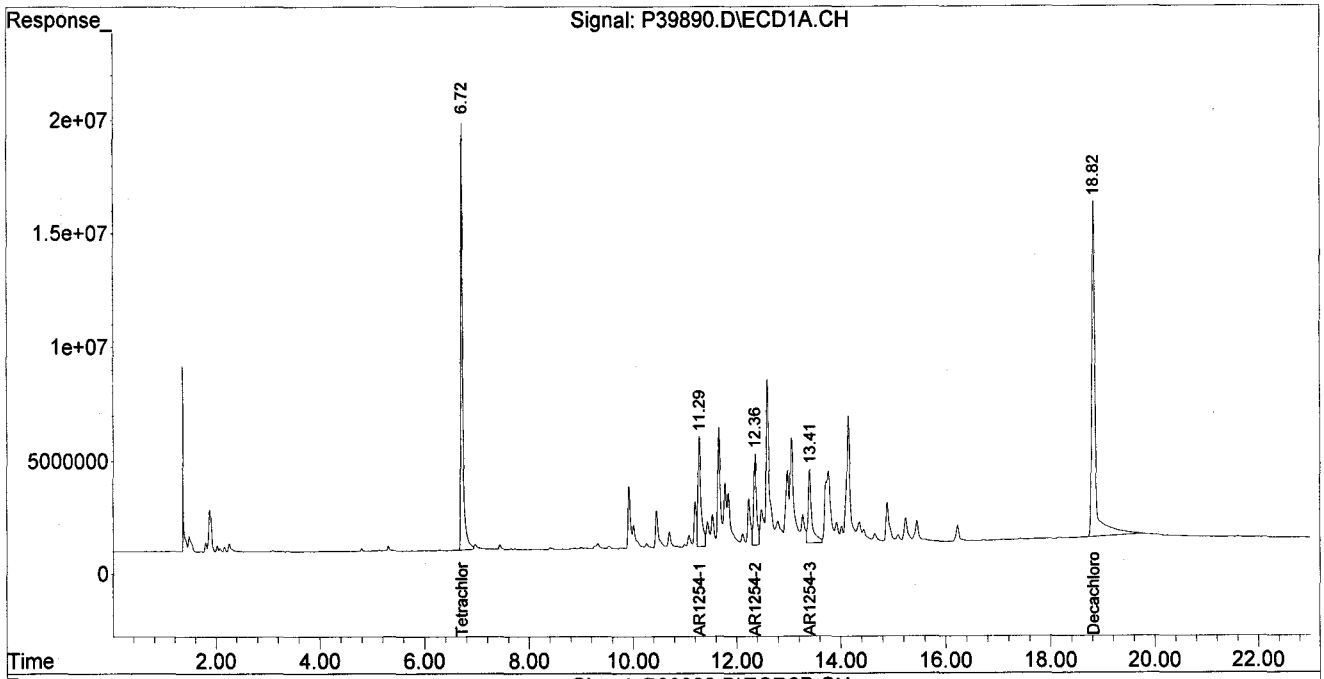
ORIGINAL
Case 42040 SDG F4XP0
Episode 84460 Init/date 12/28/11

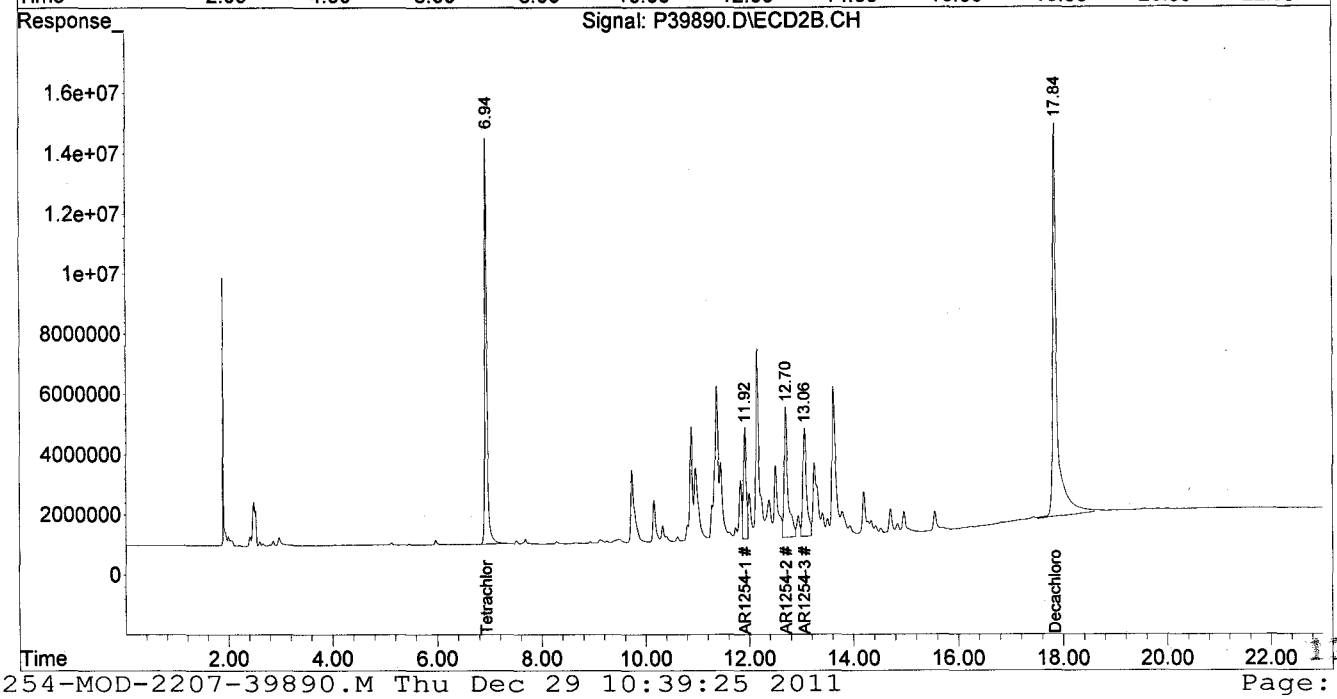
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39890.D(Signal #1) P39890.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 14:59 (Signal #1); 12/22/11 15:30 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254321 (Sig #1); AR1254322 (Sig #2)
Misc : AR1254321 (Sig #1); AR1254322 (Sig #2)
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:12:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:12:38 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39891.D(Signal #1) P39891.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 15:30 (Signal #1); 12/22/11 16:00 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254411 (Sig #1); AR1254412 (Sig #2)
Misc : AR1254411 (Sig #1); AR1254412 (Sig #2)
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:11:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:11:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	1053.9E6	829.3E6	41.877	40.002
	Spiked Amount 60.000	Range 18 - 90		Recovery =		69.80%	66.67%
5)	s Decachlorobiphen	18.82	17.84	1476.4E6	1488.3E6	91.207	77.443
	Spiked Amount 120.000			Recovery =		76.01%	64.54%
	Target Compounds						
2)	AR1254-1	11.29	11.92	375.0E6	273.3E6	407.890	380.231
3)	AR1254-2	12.36	12.70	289.2E6	433.9E6	416.892	421.222
4)	AR1254-3	13.41	13.06	317.0E6	359.5E6	435.117	387.659

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

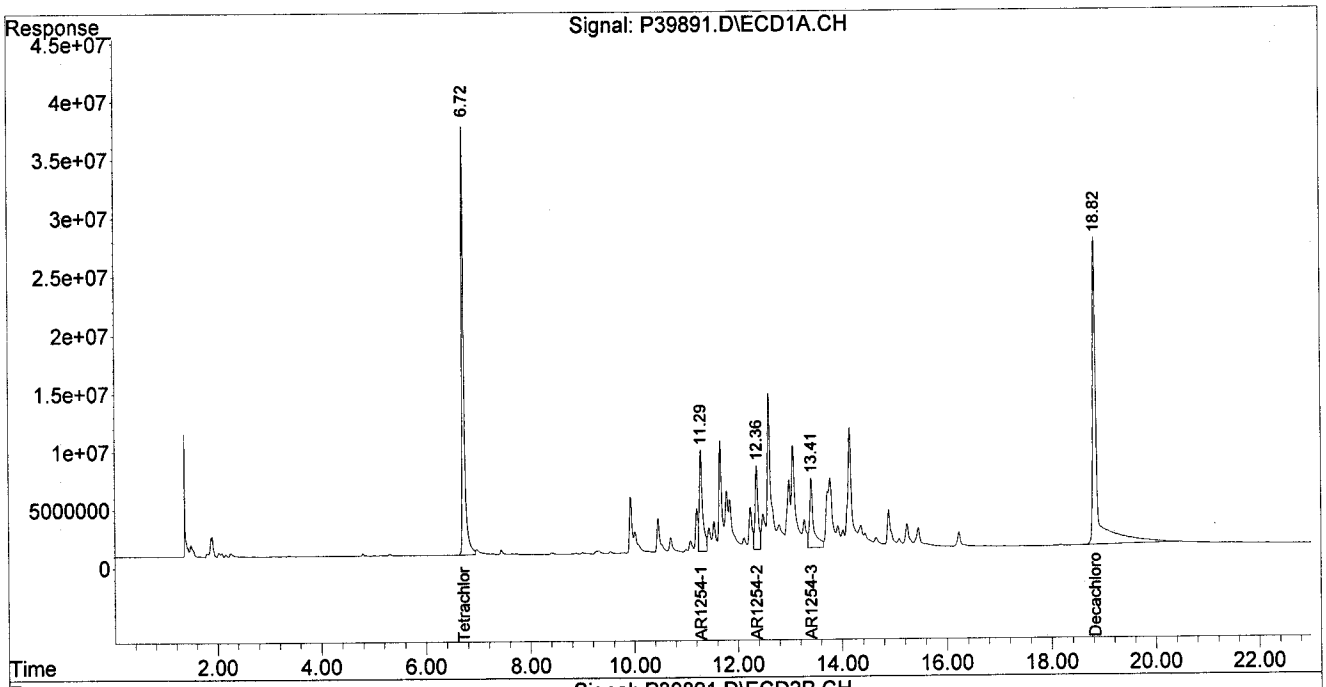
ORIGINAL
Case 42040 SDG FGXP0
Episode F4460 init/date 12/14/11

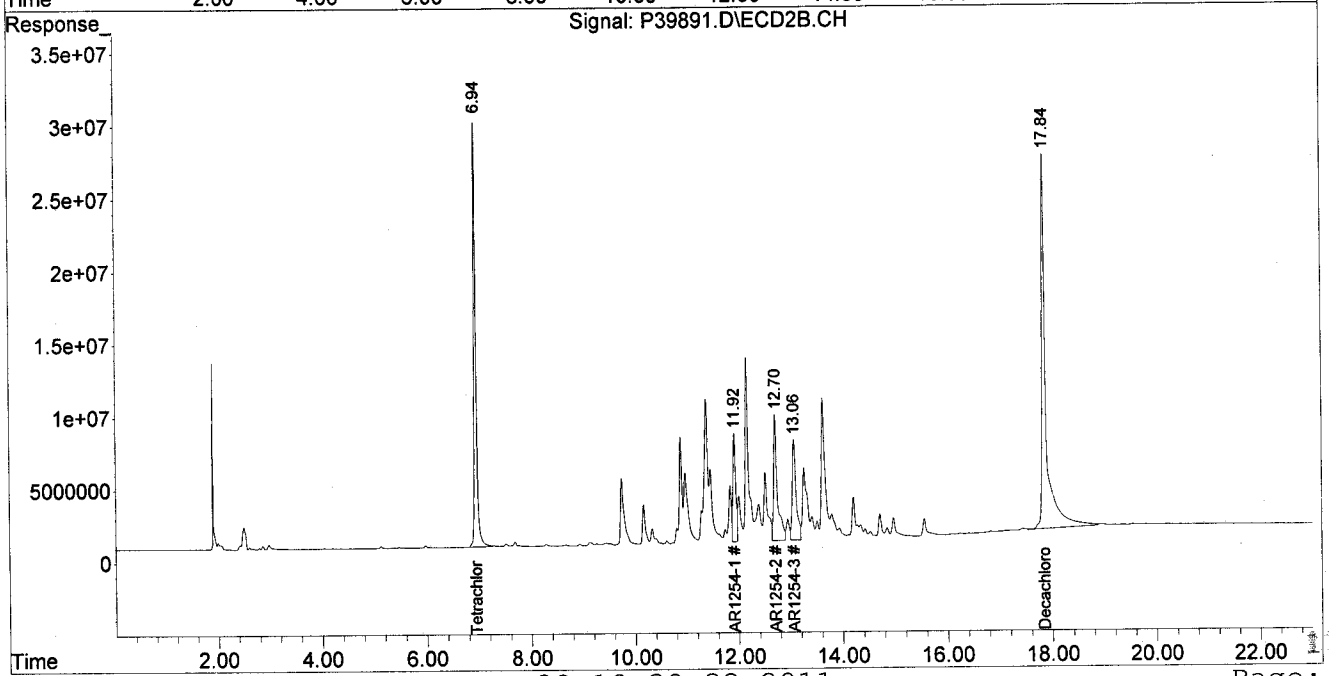
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39891.D(Signal #1) P39891.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 15:30 (Signal #1); 12/22/11 16:00 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254411 (Sig #1); AR1254412 (Sig #2)
Misc : AR1254411 (Sig #1); AR1254412 (Sig #2)
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:11:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:11:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39892.D(Signal #1) P39892.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 16:00 (Signal #1); 12/22/11 16:31 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254511 (Sig #1); AR1254512 (Sig #2)
Misc : AR1254511 (Sig #1); AR1254512 (Sig #2)
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:11:55 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:11:49 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.72	6.94	2115.0E6	1692.3E6	82.587	81.889
	Spiked Amount 60.000 Range 18 - 90 Recovery =					137.64%#	136.48%#
5) s	Decachlorobiphen	18.82	17.85	2734.7E6	2882.3E6	162.893	148.947
	Spiked Amount 120.000 Recovery =					135.74%	124.12%
	Target Compounds						
2)	AR1254-1	11.29	11.92	693.1E6	529.6E6	732.833	737.681
3)	AR1254-2	12.36	12.71	564.2E6	838.7E6	795.526	789.354
4)	AR1254-3	13.41	13.07	576.4E6	683.9E6	776.000	737.620

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date [illegible]

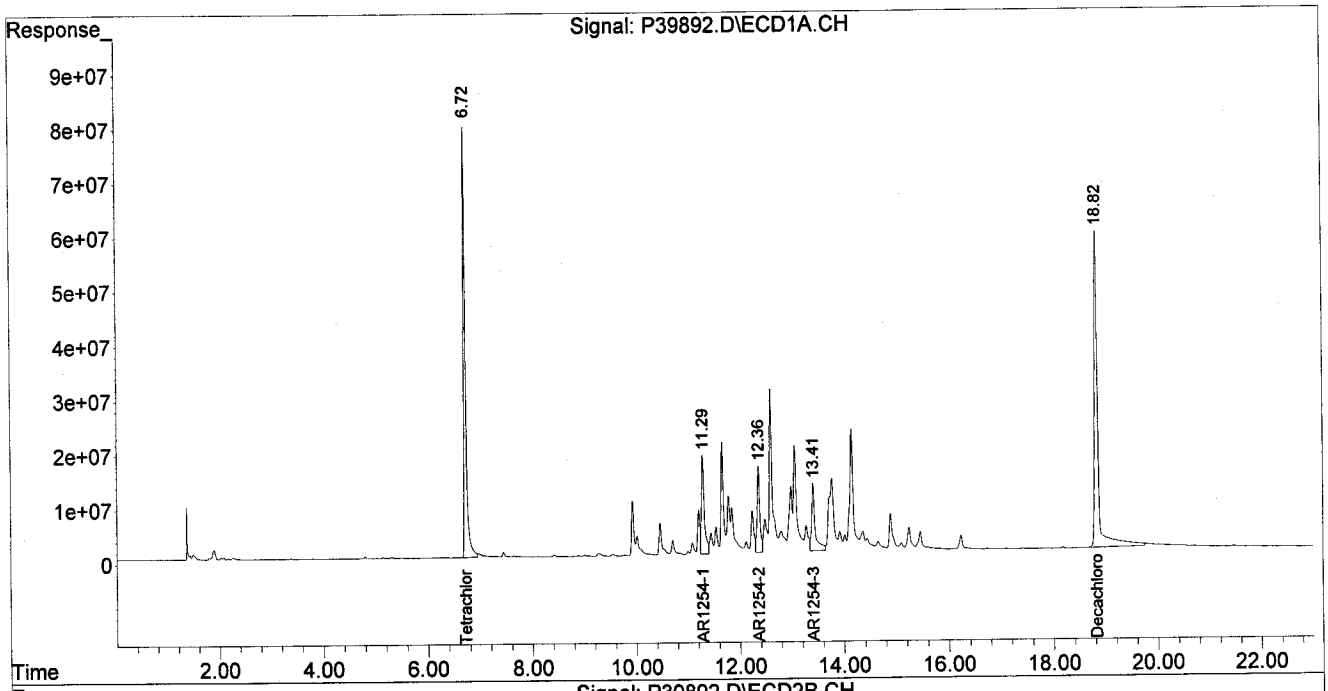
1388

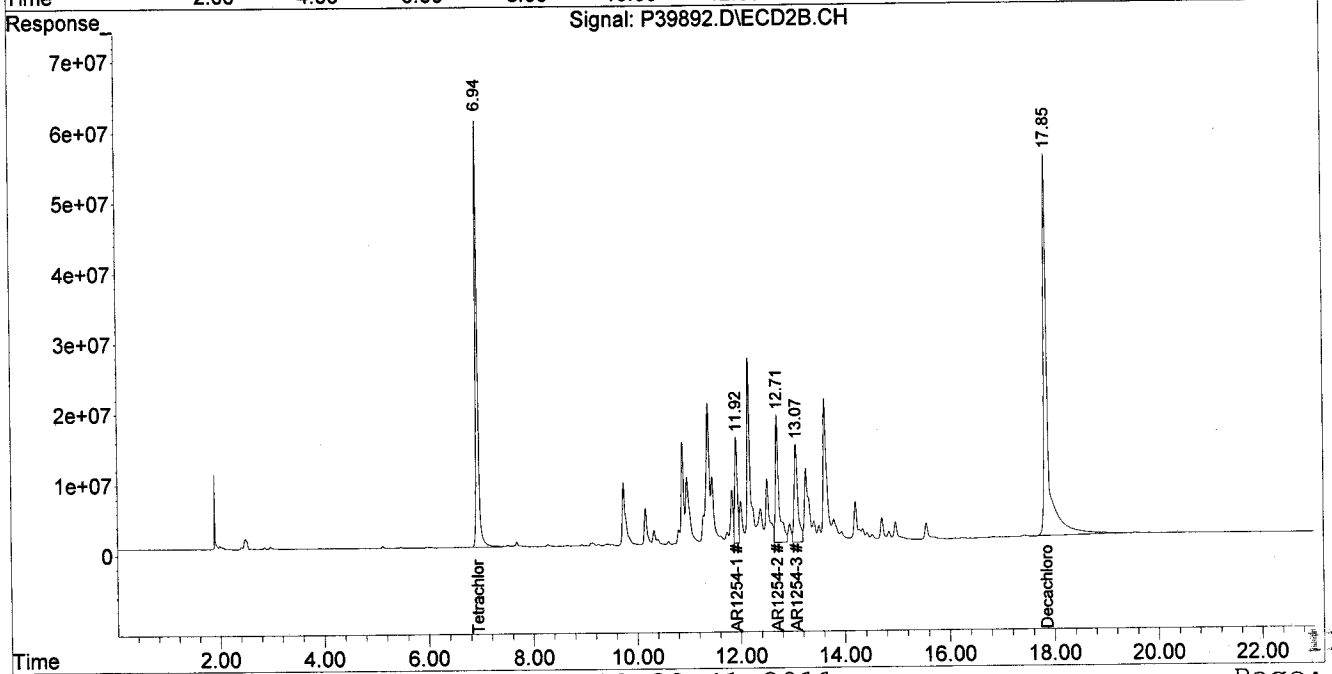
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39892.D(Signal #1) P39892.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 16:00 (Signal #1); 12/22/11 16:31 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254511 (Sig #1); AR1254512 (Sig #2)
Misc : AR1254511 (Sig #1); AR1254512 (Sig #2)
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 25 14:11:55 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:11:49 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39893.D(Signal #1)            P39893.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)             P-6890B(Signal # 2)
Acq On    : 12/22/11 16:31 (Signal #1); 12/22/11 17:01 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AIBLK21 (Sig #1); AIBLK22 (Sig #2)
Misc      : AIBLK21 (Sig #1); AIBLK22 (Sig #2)
ALS Vial  : 95   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:42:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	459.0E6	379.7E6	18.507	18.012
Spiked Amount 60.000 Range 18 - 90 Recovery =					30.84%	30.02%
8) s Decachlorobiphen	18.82	17.85	574.8E6	640.6E6	32.862	33.894
Spiked Amount 120.000 Recovery =					27.39%	28.24%

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date [illegible]

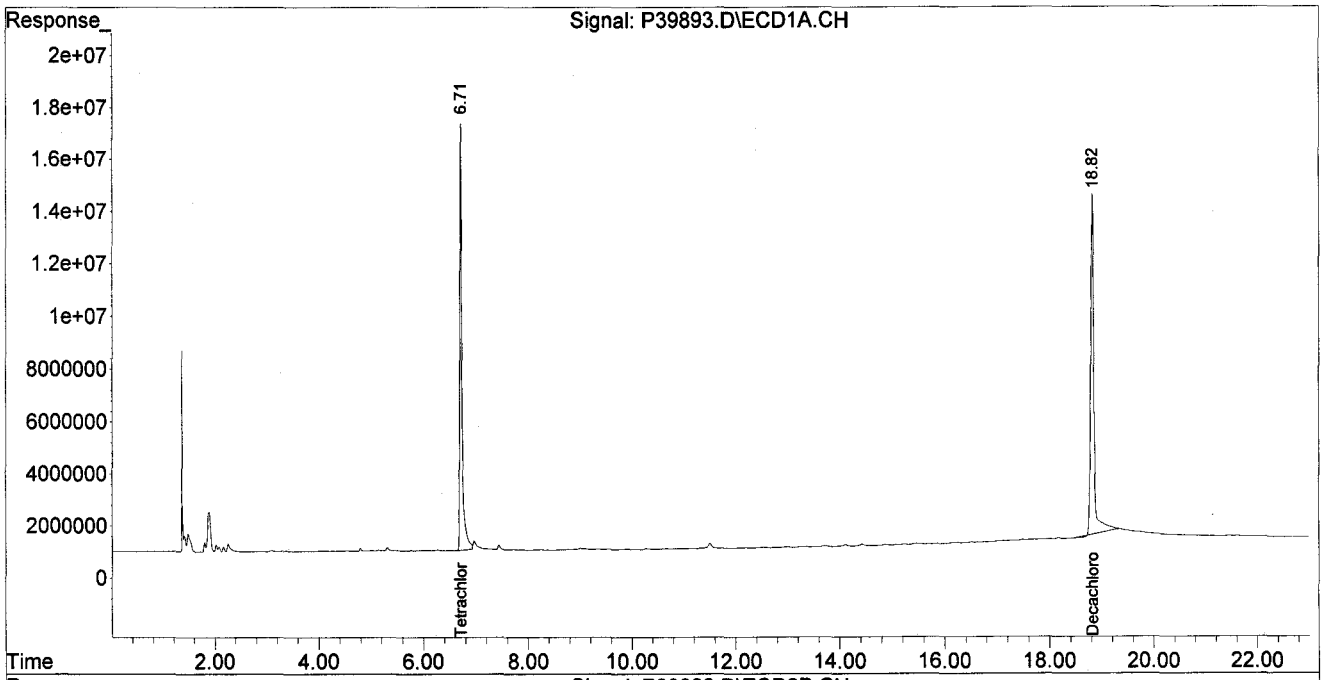
1398

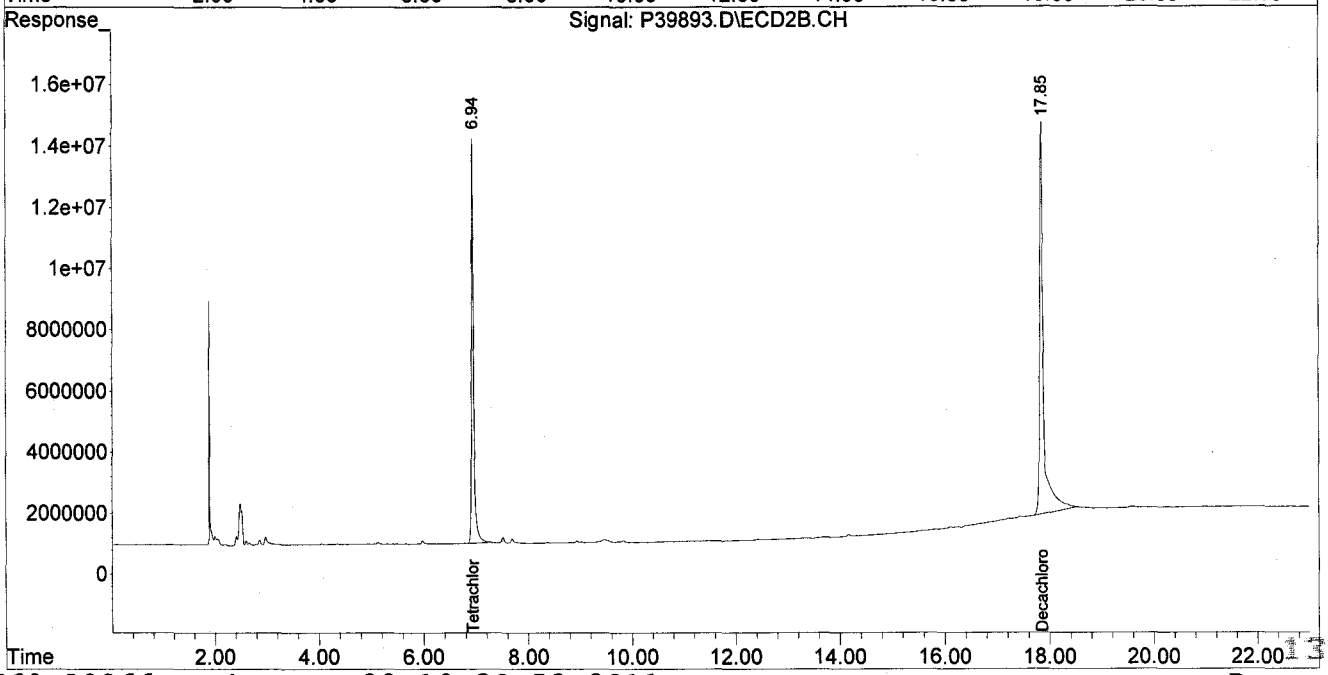
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39893.D(Signal #1) P39893.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 16:31 (Signal #1); 12/22/11 17:01 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK21 (Sig #1); AIBLK22 (Sig #2)
Misc : AIBLK21 (Sig #1); AIBLK22 (Sig #2)
ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:42:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Response Factor Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1242-MOD-2207-39901.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:19:20 2011
Response Via : Initial Calibration

Calibration Files
3 =P39901.D 2 =P39900.D 1 =P39899.D
4 =P39902.D 5 =P39903.D

		Compound	3	2	1	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	2.479	2.823	2.417	2.584	2.555	2.572	E7	6.03
2)		AR1242-1	3.035	3.783	2.535	2.702	3.056	3.022	E5	15.86
3)		AR1242-2	4.237	4.642	3.461	3.851	4.233	4.085	E5	10.95
4)		AR1242-3	2.774	2.928	1.995	2.606	2.822	2.625	E5	14.13
5)	S	Decachlorobiphenyl	1.569	1.803	1.939	1.430	1.469	1.642	E7	13.43

Signal #2 Calibration Files
3 =P39901.D 2 =P39900.D 1 =P39899.D
4 =P39902.D 5 =P39903.D

		Compound	3	2	1	4	5	Avg		%RSD
1)	S	Tetrachloro-m-xylene	2.085	2.351	2.126	2.172	2.369	2.220	E7	5.91
2)		AR1242-1	2.556	2.944	2.652	2.662	2.806	2.724	E5	5.58
3)		AR1242-2	4.112	3.744	4.638	4.153	4.256	4.181	E5	7.66
4)		AR1242-3	2.052	2.459	2.083	2.213	2.379	2.237	E5	7.99
5)	s	Decachlorobiphenyl	1.057	1.564	1.213	1.141	1.282	1.251	E7	15.49

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39899.D(Signal #1) P39899.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 19:06 (Signal #1); 12/25/11 19:37 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242111 (Sig #1); AR1242112 (Sig #2)
Misc : AR1242111 (Sig #1); AR1242112 (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:55:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:54:18 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.95	120.9E6	106.3E6	3.009	3.142
	Spiked Amount 60.000	Range 18 - 90		Recovery =		5.01%#	5.24%#
5)	s Decachlorobiphen	18.82	17.86	193.9E6	121.3E6	7.921m	6.489m
	Spiked Amount 120.000			Recovery =		6.60%	5.41%
	Target Compounds						
2)	AR1242-1	9.93	10.34	5070377	5303586	5.952	7.311
3)	AR1242-2	10.46	10.41	6922166	9275085	5.851	8.041 #
4)	AR1242-3	11.08	10.81	3989723	4165467	5.150	7.073 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

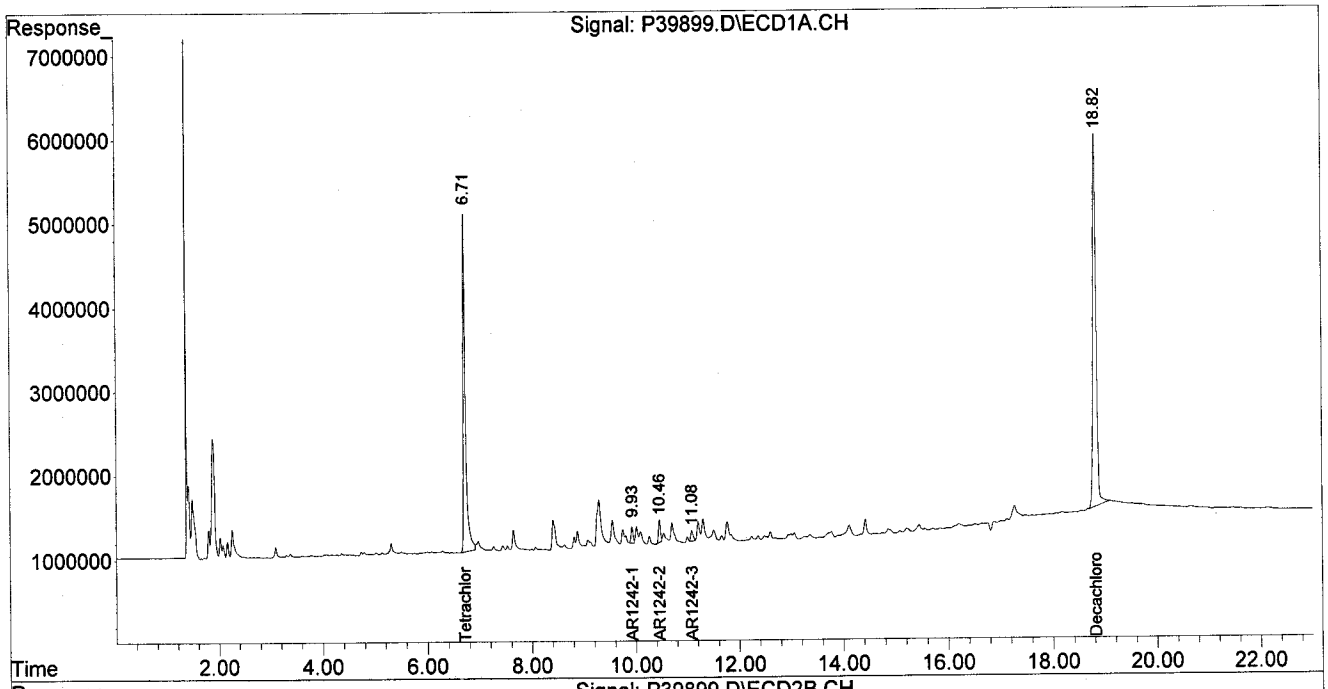
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 Init/date 01/2/14

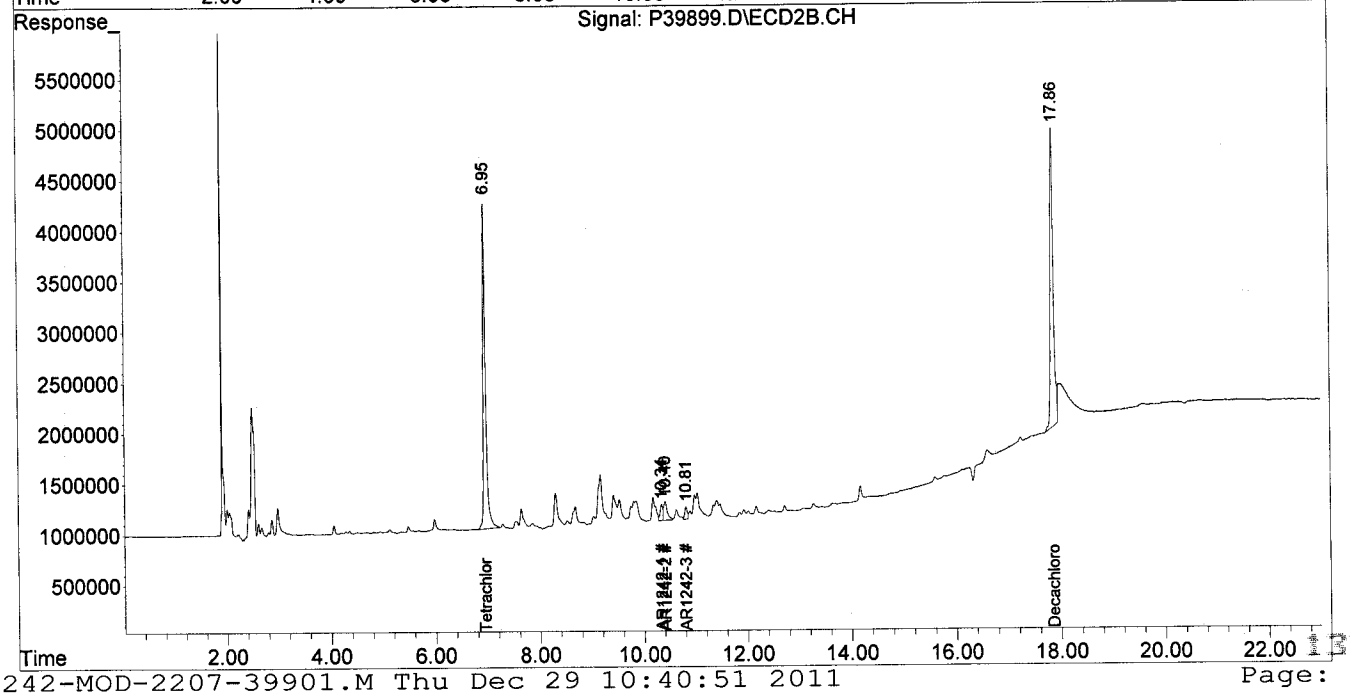
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39899.D(Signal #1) P39899.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 19:06 (Signal #1); 12/25/11 19:37 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242111 (Sig #1); AR1242112 (Sig #2)
Misc : AR1242111 (Sig #1); AR1242112 (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:55:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:54:18 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



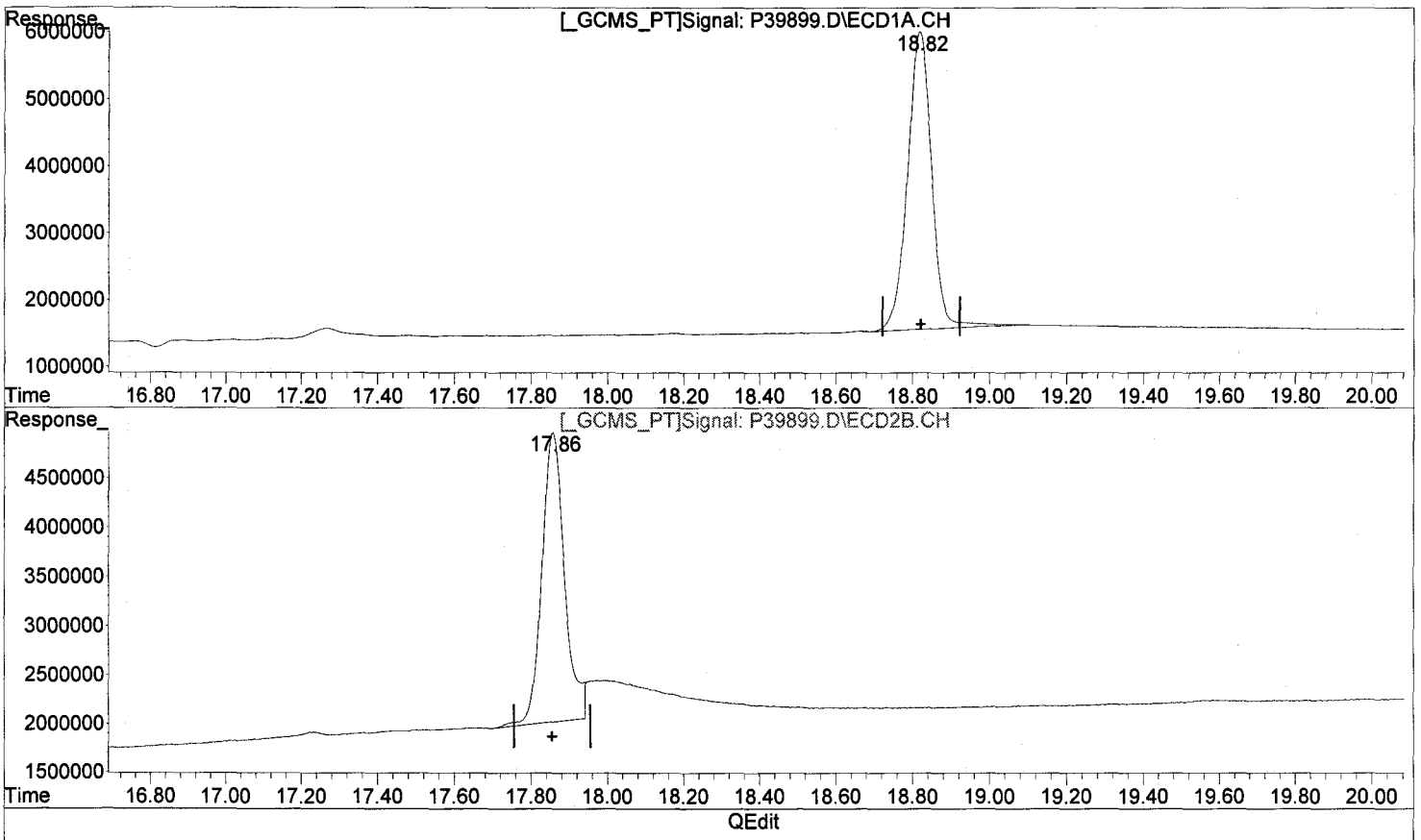


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39899.D(Signal #1) P39899.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 19:06 (Signal #1); 12/25/11 19:37 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242111 (Sig #1); AR1242112 (Sig #2)
Misc : AR1242111 (Sig #1); AR1242112 (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:55:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:54:18 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



(5) Decachlorobiphenyl (s)
18.82min 7.921ng/mL m
response 193897360

(5) Decachlorobiphenyl #2 (s)
17.86min 6.489ng/mL m
response 121263475

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39900.D(Signal #1) P39900.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 19:37 (Signal #1); 12/25/11 20:07 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242211 (Sig #1); AR1242212 (Sig #2)
Misc : AR1242211 (Sig #1); AR1242212 (Sig #2)
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:57:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:55:53 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	282.3E6	235.1E6	10.978	10.588
	Spiked Amount 60.000	Range 18 - 90		Recovery =		18.30%	17.65%#
5)	s Decachlorobiphen	18.82	17.86	360.7E6	312.7E6	21.967	23.618m
	Spiked Amount 120.000			Recovery =		18.31%	19.68%
	Target Compounds						
2)	AR1242-1	9.93	10.33	37827975	29442781	125.170	108.082
3)	AR1242-2	10.46	10.41	46420859	37442843	113.643	89.564
4)	AR1242-3	11.08	10.81	29284658	24590343	111.562	109.913

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

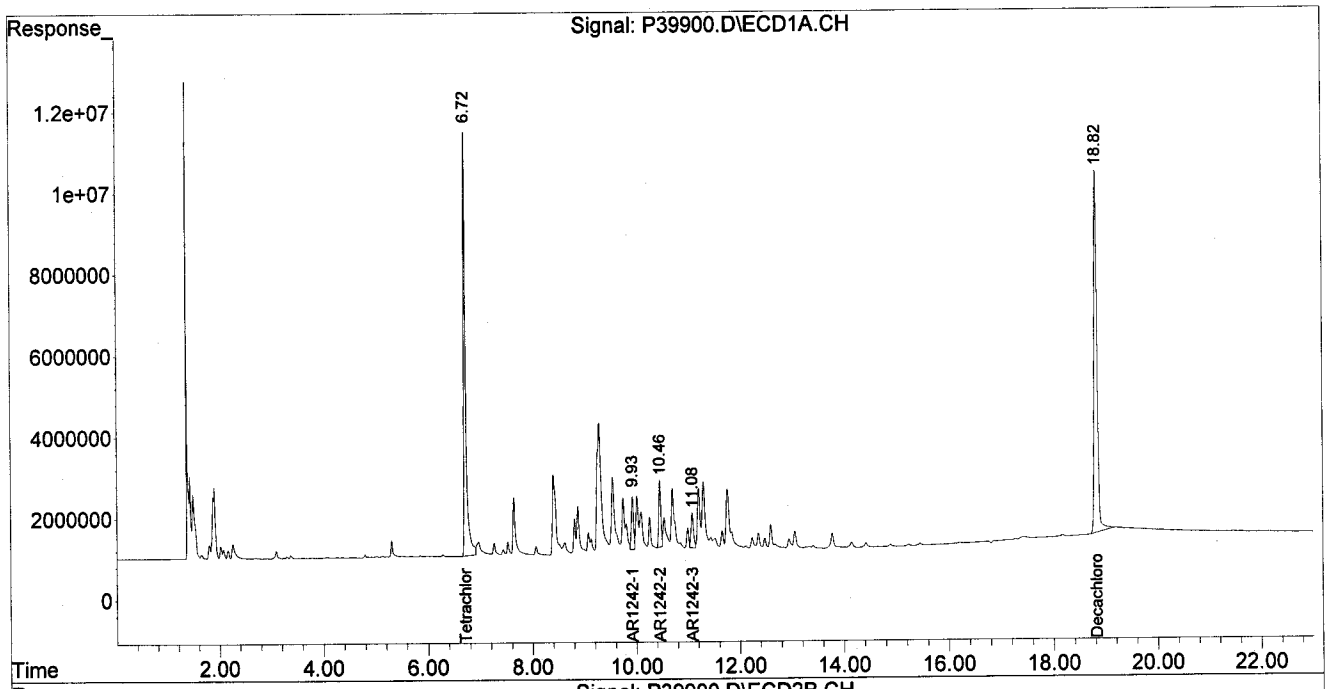
ORIGINAL
Case 42040 SDG P4XP0
Episode P-4460 init/date 1/11/12

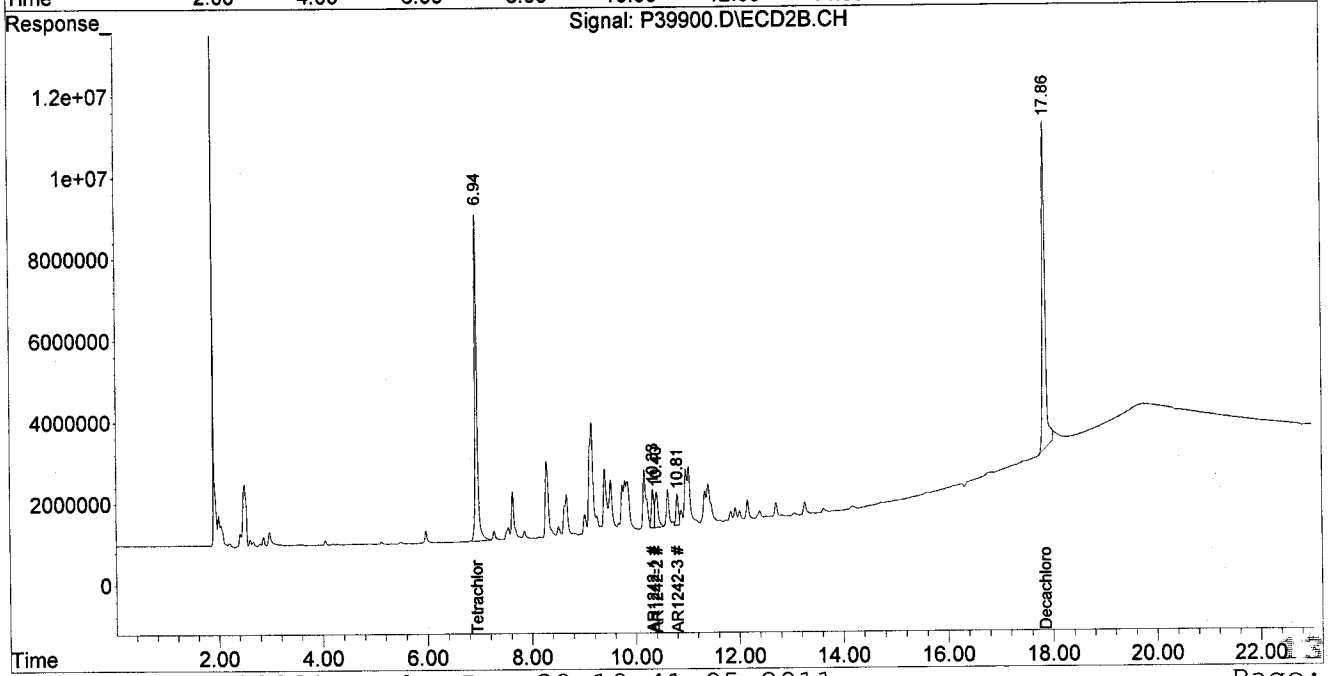
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39900.D(Signal #1) P39900.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 19:37 (Signal #1); 12/25/11 20:07 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242211 (Sig #1); AR1242212 (Sig #2)
Misc : AR1242211 (Sig #1); AR1242212 (Sig #2)
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:57:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:55:53 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



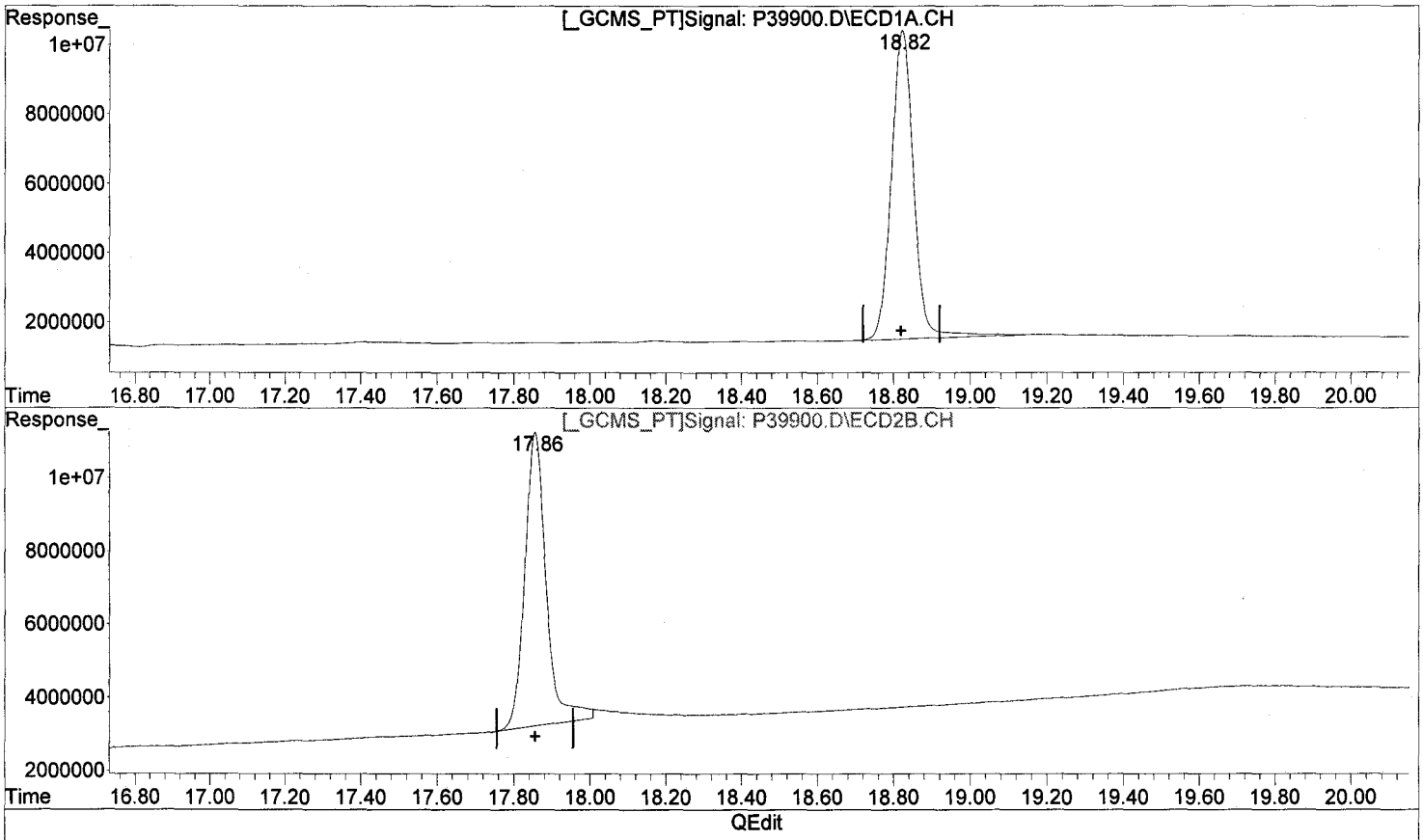


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39900.D(Signal #1) P39900.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 19:37 (Signal #1); 12/25/11 20:07 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242211 (Sig #1); AR1242212 (Sig #2)
Misc : AR1242211 (Sig #1); AR1242212 (Sig #2)
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:57:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:55:53 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



(5) Decachlorobiphenyl (s)
18.82min 21.967ng/mL
response 360691904

(5) Decachlorobiphenyl #2 (s)
17.86min 23.618ng/mL m
response 312743545

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

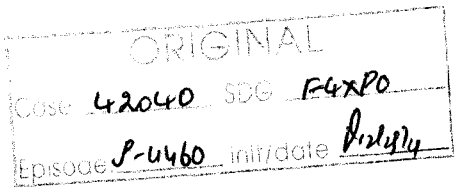
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39901.D(Signal #1) P39901.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 20:07 (Signal #1); 12/25/11 20:38 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242321 (Sig #1); AR1242322 (Sig #2)
Misc : AR1242321 (Sig #1); AR1242322 (Sig #2)
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:53:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:53:42 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.95	495.9E6	416.9E6	12.496	12.798
	Spiked Amount 60.000	Range 18 - 90		Recovery =		20.83%	21.33%
5)	s Decachlorobiphen	18.82	17.86	627.6E6	422.6E6	24.884	20.485
	Spiked Amount 120.000			Recovery =		20.74%	17.07%
	Target Compounds						
2)	AR1242-1	9.93	10.33	60691695	51126063	71.745	71.188
3)	AR1242-2	10.46	10.41	84735510	82236017	72.037	73.273
4)	AR1242-3	11.08	10.81	55473094	41048662	71.925	70.084

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

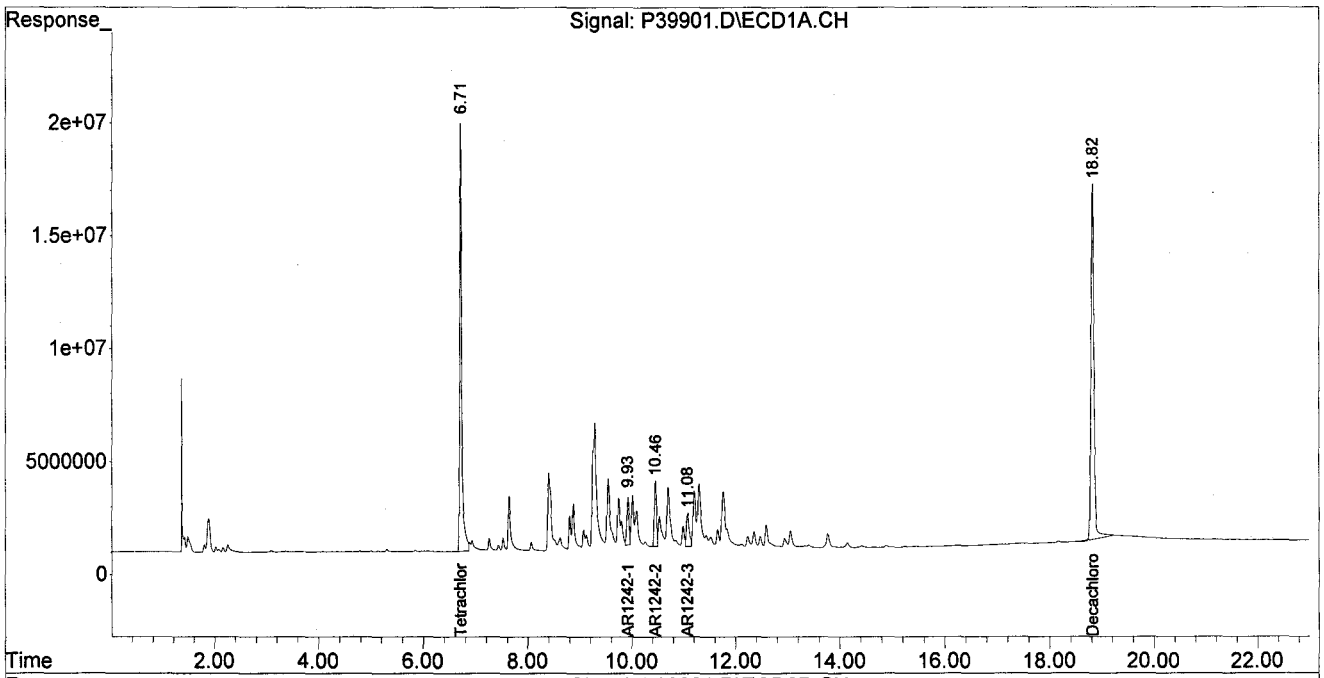


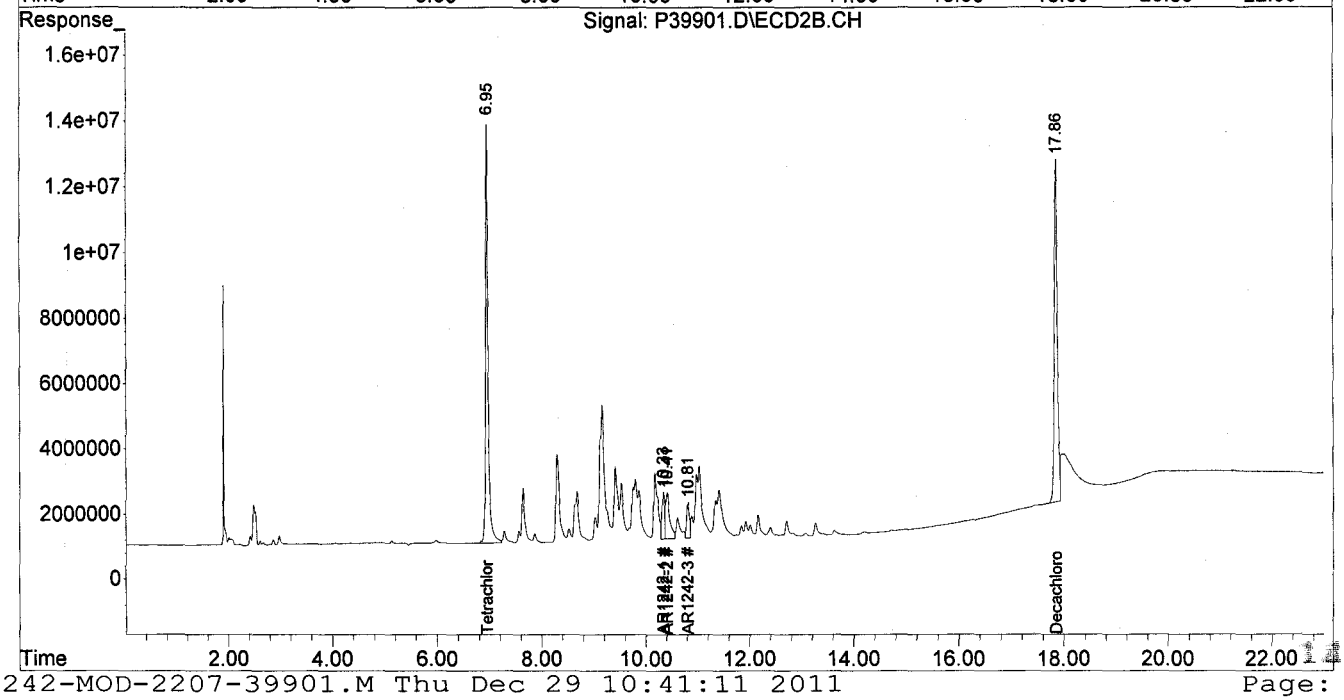
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39901.D(Signal #1) P39901.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 20:07 (Signal #1); 12/25/11 20:38 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242321 (Sig #1); AR1242322 (Sig #2)
Misc : AR1242321 (Sig #1); AR1242322 (Sig #2)
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:53:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:53:42 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39902.D(Signal #1) P39902.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 20:38 (Signal #1); 12/25/11 21:08 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242411 (Sig #1); AR1242412 (Sig #2)
Misc : AR1242411 (Sig #1); AR1242412 (Sig #2)
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:53:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:53:53 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1033.6E6	868.8E6	26.048	26.670
	Spiked Amount 60.000	Range 18 - 90		Recovery =		43.41%	44.45%
5)	s Decachlorobiphen	18.82	17.86	1143.9E6	912.5E6	45.357	44.230
	Spiked Amount 120.000			Recovery =		37.80%	36.86%
	Target Compounds						
2)	AR1242-1	9.93	10.33	108.1E6	106.5E6	127.764	148.261
3)	AR1242-2	10.46	10.41	154.0E6	166.1E6	130.944	148.009
4)	AR1242-3	11.08	10.81	104.2E6	88520637	135.147	151.135

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

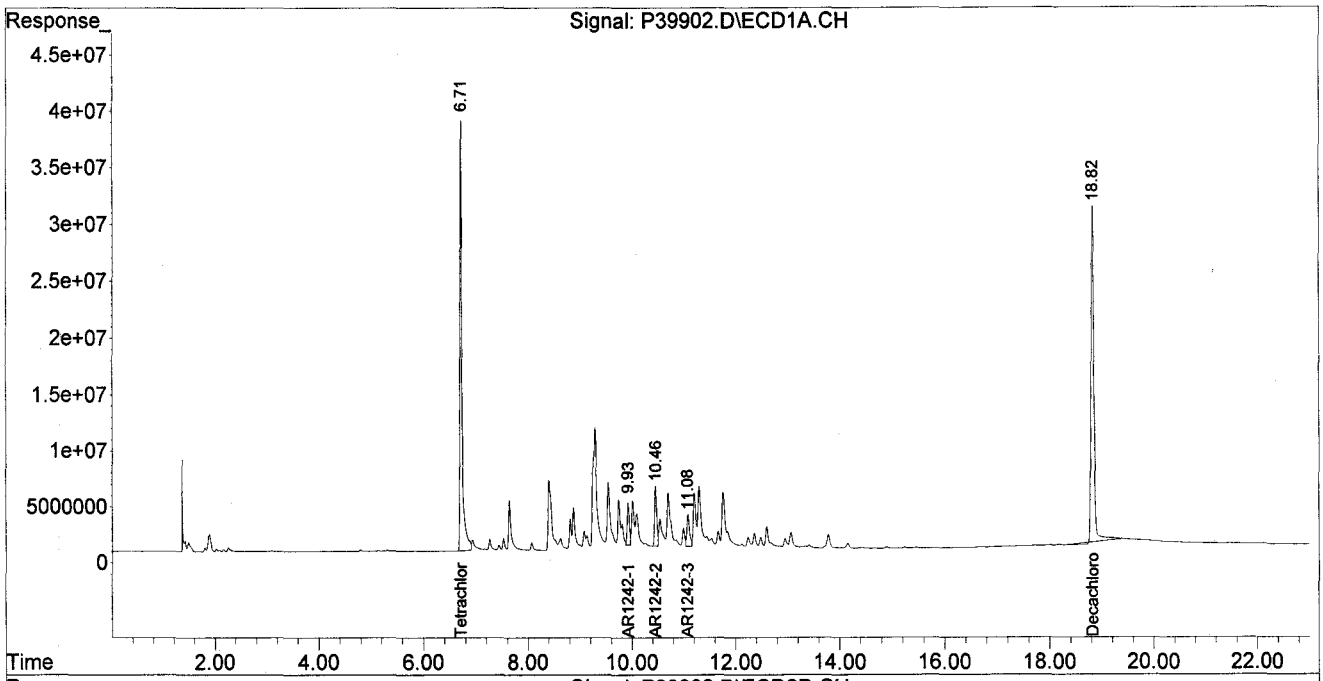
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date 12/28/11

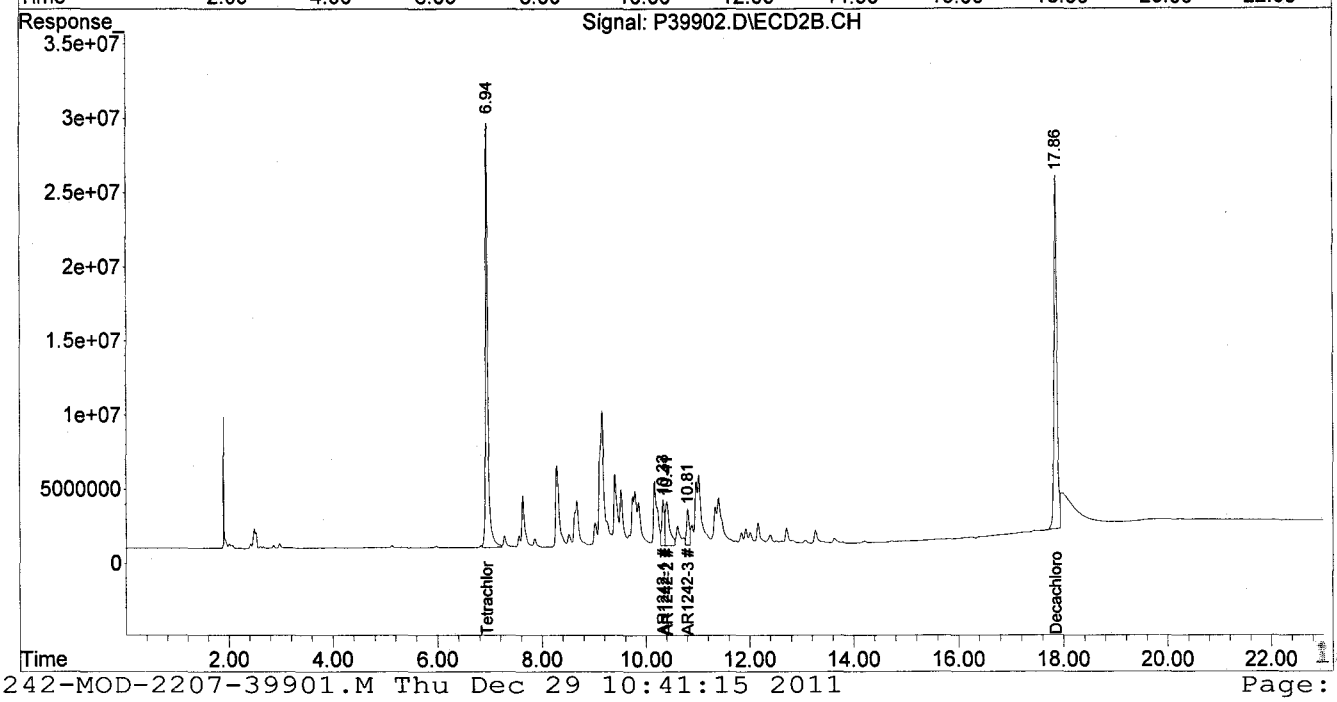
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39902.D(Signal #1) P39902.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 20:38 (Signal #1); 12/25/11 21:08 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242411 (Sig #1); AR1242412 (Sig #2)
Misc : AR1242411 (Sig #1); AR1242412 (Sig #2)
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:53:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:53:53 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39903.D(Signal #1) P39903.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 21:08 (Signal #1); 12/25/11 21:39 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242511 (Sig #1); AR1242512 (Sig #2)
Misc : AR1242511 (Sig #1); AR1242512 (Sig #2)
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:54:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:54:05 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.95	2043.8E6	1895.1E6	51.194	57.796
	Spiked Amount 60.000	Range 18 - 90		Recovery =		85.32%	96.33%#
5)	s Decachlorobiphen	18.82	17.86	2349.8E6	2050.8E6	95.064	106.175
	Spiked Amount 120.000			Recovery =		79.22%	88.48%
	Target Compounds						
2)	AR1242-1	9.93	10.33	244.5E6	224.5E6	288.023	313.731
3)	AR1242-2	10.45	10.41	338.7E6	340.5E6	286.974	300.901
4)	AR1242-3	11.08	10.81	225.8E6	190.3E6	292.109	327.745

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

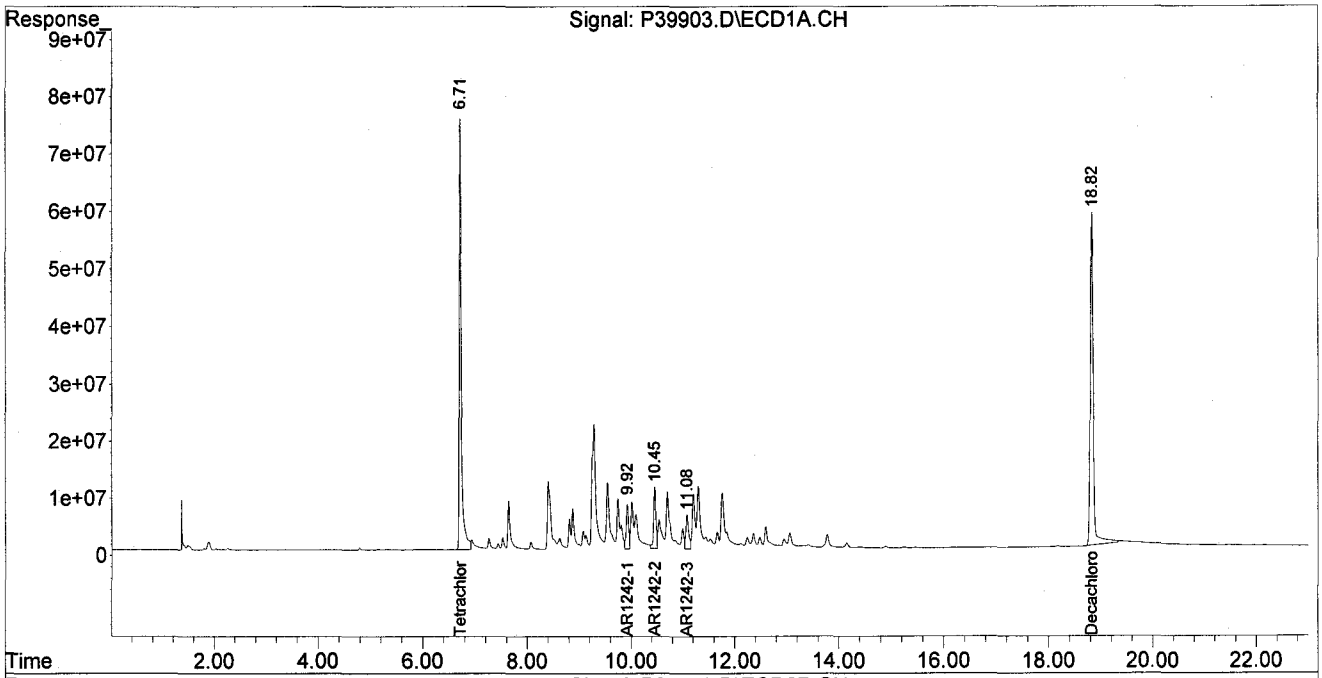
ORIGINAL
Case 42040 SDG F4XP0
Episode F-4460 init/date 12/4/4

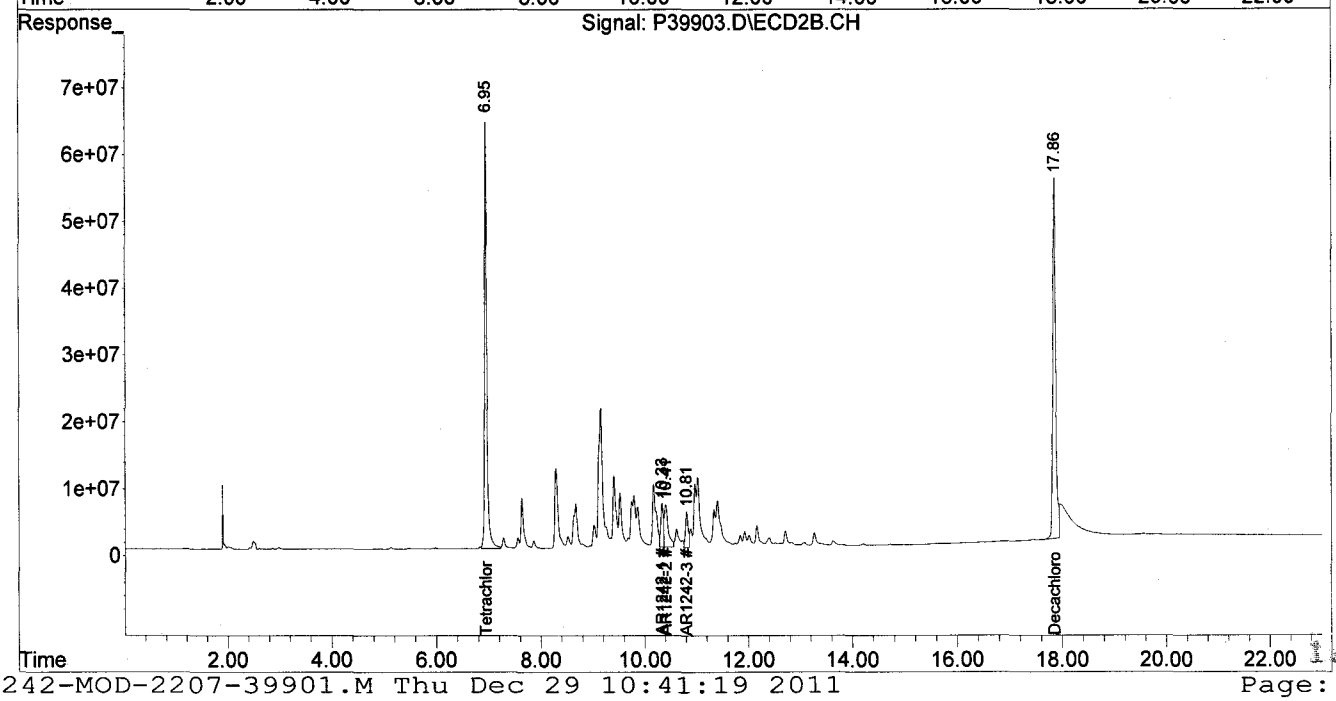
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39903.D(Signal #1) P39903.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/25/11 21:08 (Signal #1); 12/25/11 21:39 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242511 (Sig #1); AR1242512 (Sig #2)
Misc : AR1242511 (Sig #1); AR1242512 (Sig #2)
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 09:54:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:54:05 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39909.D(Signal #1) P39909.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/26/11 00:11 (Signal #1); 12/26/11 00:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLKZ1 (Sig #1); AIBLKZ2 (Sig #2)
Misc : AIBLKZ1 (Sig #1); AIBLKZ2 (Sig #2)
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:07:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	464.5E6	348.3E6	18.727	16.524
	Spiked Amount 60.000	Range 18 - 90		Recovery =		31.21%	27.54%
8)	s Decachlorobiphen	18.82	17.85	635.3E6	600.4E6	36.319	31.769
	Spiked Amount 120.000			Recovery =		30.27%	26.47%
	Target Compounds						

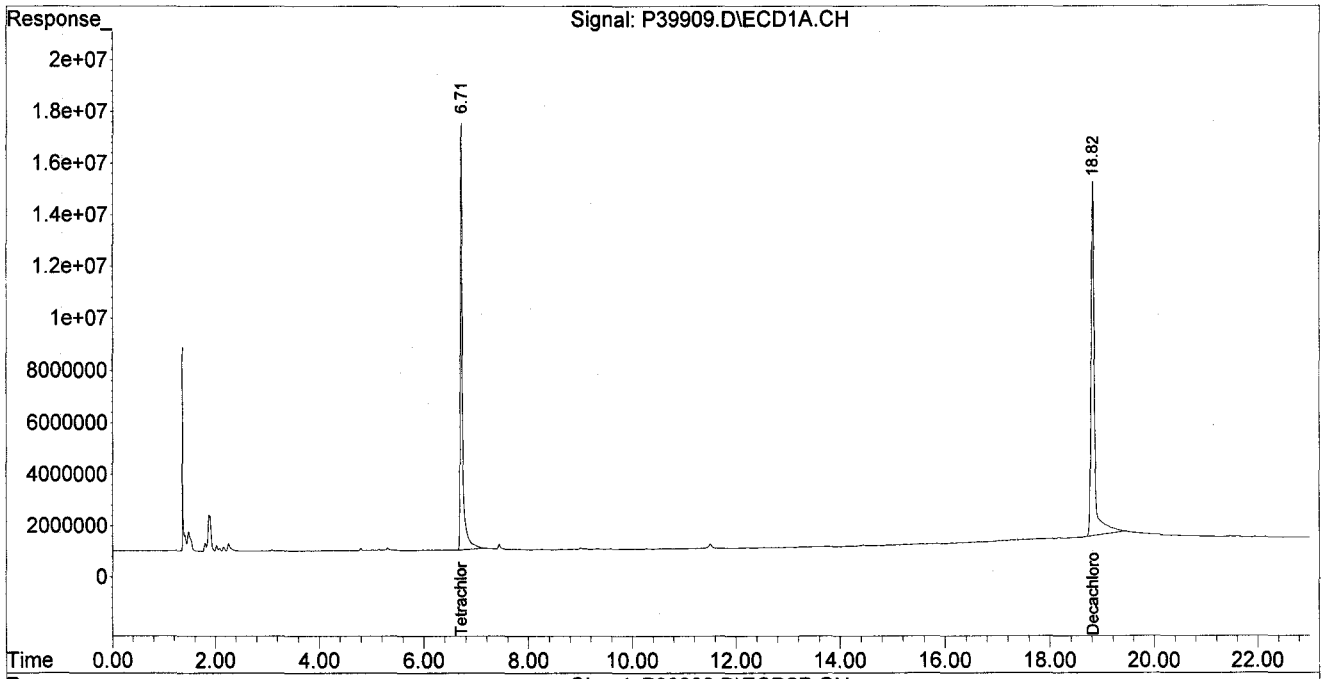
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

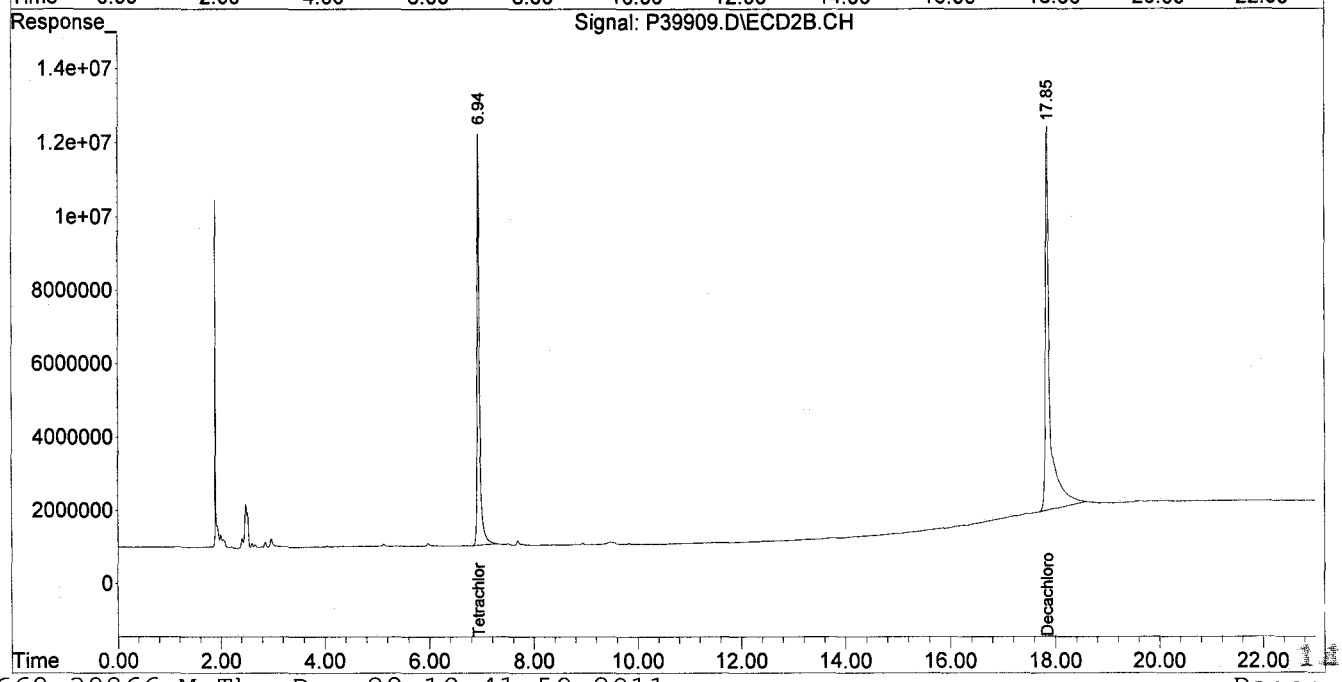
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39909.D(Signal #1) P39909.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/26/11 00:11 (Signal #1); 12/26/11 00:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLKZ1 (Sig #1); AIBLKZ2 (Sig #2)
Misc : AIBLKZ1 (Sig #1); AIBLKZ2 (Sig #2)
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:07:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Response Factor Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1221-MOD-2207-399952.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:17:59 2011
Response Via : Initial Calibration

Calibration Files
3 =P39952.D 2 =P39951.D 1 =P39950.D
4 =P39953.D 5 =P39954.D

	Compound	3	2	1	4	5	Avg		%RSD
1) S	Tetrachloro-m-xylene	2.458	2.717	2.500	2.714	2.506	2.579	E7	4.88
2)	AR1221-1	2.484	2.855	1.982	2.717	2.419	2.491	E5	13.43
3)	AR1221-2	1.576	1.766	1.286	1.662	1.421	1.542	E5	12.37
4)	AR1221-3	6.741	7.590	5.459	7.132	6.229	6.630	E5	12.43
5) S	Decachlorobiphenyl	1.737	1.813	1.804	1.817	1.785	1.791	E7	1.82

Signal #2 Calibration Files
3 =P39952.D 2 =P39951.D 1 =P39950.D
4 =P39953.D 5 =P39954.D

	Compound	3	2	1	4	5	Avg		%RSD
1) S	Tetrachloro-m-xylene	2.125	2.255	2.333	2.292	2.183	2.238	E7	3.73
2)	AR1221-1	5.094	5.097	7.134	5.085	4.735	5.429	E4	17.78
3)	AR1221-2	2.260	2.461	2.192	2.261	1.979	2.231	E5	7.75
4)	AR1221-3	5.506	6.581	6.660	5.539	4.986	5.854	E5	12.53
5) s	Decachlorobiphenyl	1.832	2.062	2.196	1.928	1.782	1.960	E7	8.67

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39950.D(Signal #1) P39950.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 10:39 (Signal #1); 12/27/11 11:09 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221111 (Sig #1); AR1221112 (Sig #2)
Misc : AR1221111 (Sig #1); AR1221112 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:19:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:16:56 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	125.0E6	116.6E6	4.847	5.234
	Spiked Amount 60.000	Range 18 - 90		Recovery =		8.08%#	8.72%#
5)	s Decachlorobiphen	18.83	17.85	180.4E6	219.6E6	10.071	11.237
	Spiked Amount 120.000			Recovery =		8.39%	9.36%
	Target Compounds						
2)	AR1221-1	7.27	6.68	3963088	1426724	15.908	7.603m#
3)	AR1221-2	7.53	7.27	2572428	4384641	16.777m	25.990 #
4)	AR1221-3	7.65	7.63	10918472	13319722	16.468	23.437 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

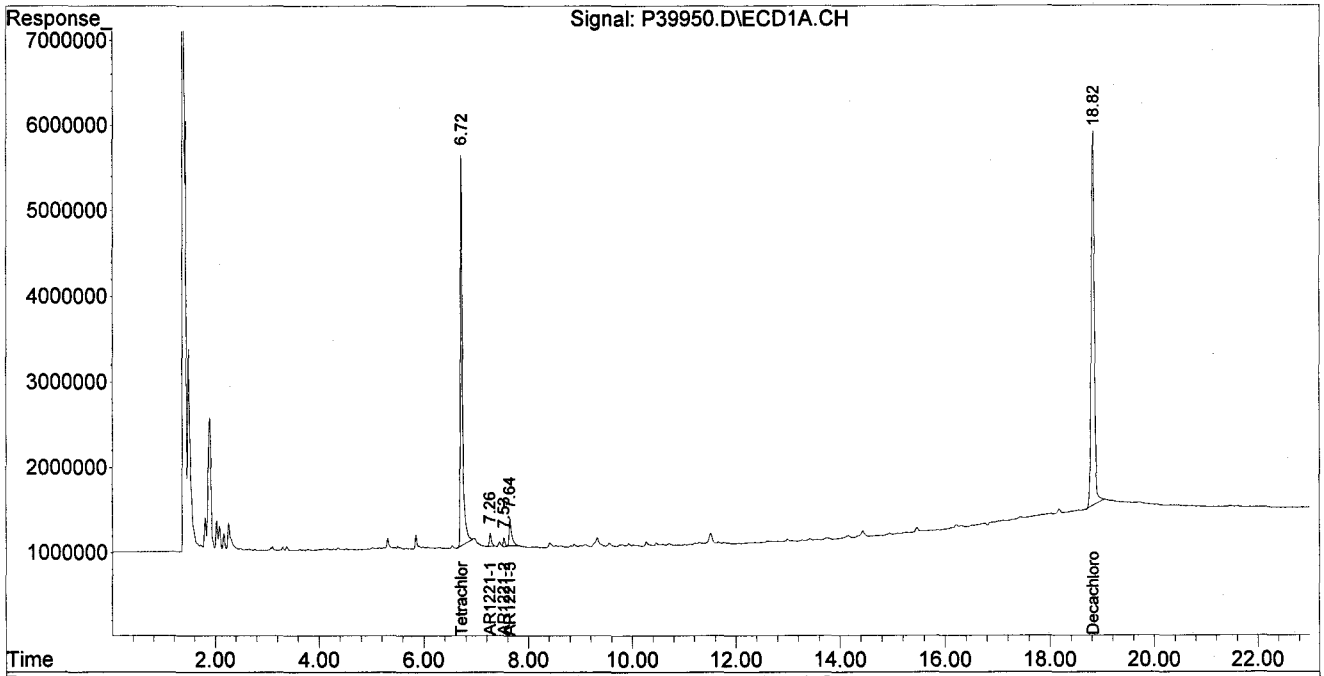
ORIGINAL
Case 42040 SDG P4XP0
Episode P4460 init/date 1/12/12

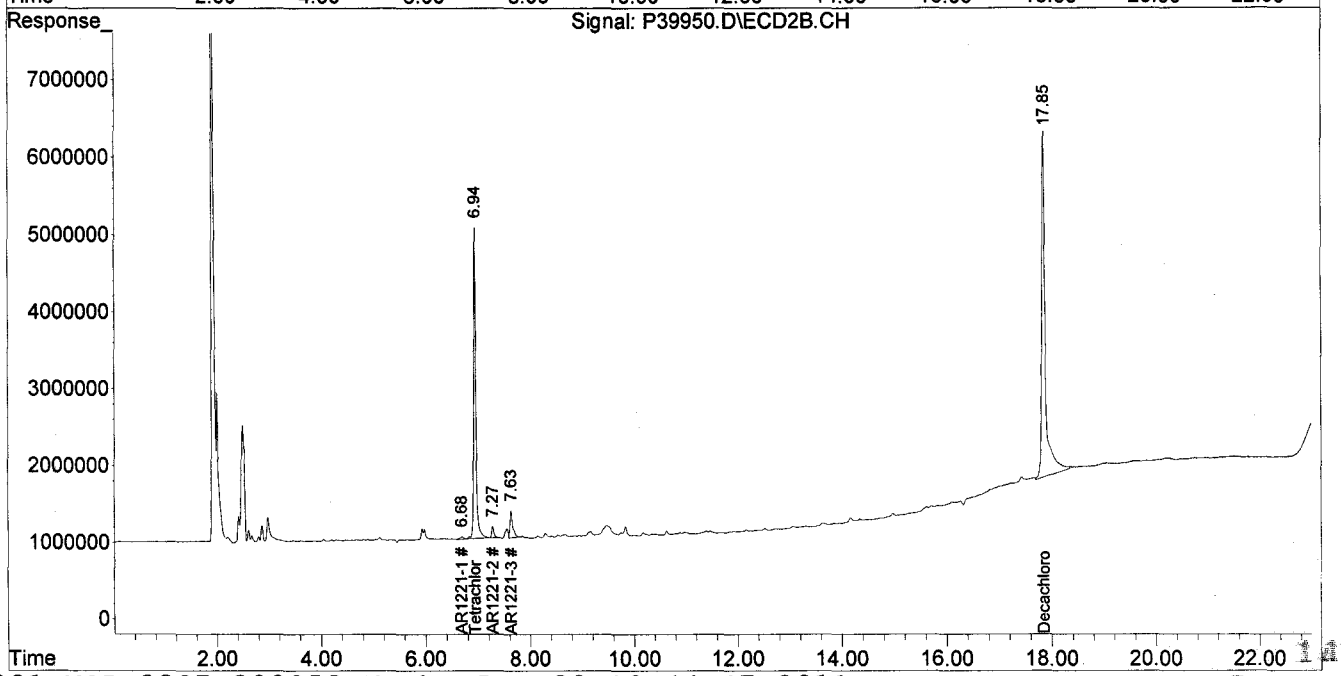
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39950.D(Signal #1) P39950.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 10:39 (Signal #1); 12/27/11 11:09 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221111 (Sig #1); AR1221112 (Sig #2)
Misc : AR1221111 (Sig #1); AR1221112 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:19:19 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:16:56 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39951.D(Signal #1) P39951.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 11:09 (Signal #1); 12/27/11 11:40 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221211 (Sig #1); AR1221212 (Sig #2)
Misc : AR1221211 (Sig #1); AR1221212 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:17:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:17:39 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	271.7E6	225.5E6	10.535	10.103
	Spiked Amount 60.000	Range 18 - 90		Recovery =		17.56%#	16.84%#
5)	s Decachlorobiphen	18.82	17.84	362.6E6	412.5E6	20.245	20.917
	Spiked Amount 120.000			Recovery =		16.87%	17.43%
	Target Compounds						
2)	AR1221-1	7.26	6.69	28545040	5097467	114.582	31.767 #
3)	AR1221-2	7.53	7.27	17659783	24612979	115.176	148.250 #
4)	AR1221-3	7.64	7.63	75901858	65806580	114.480	113.875

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

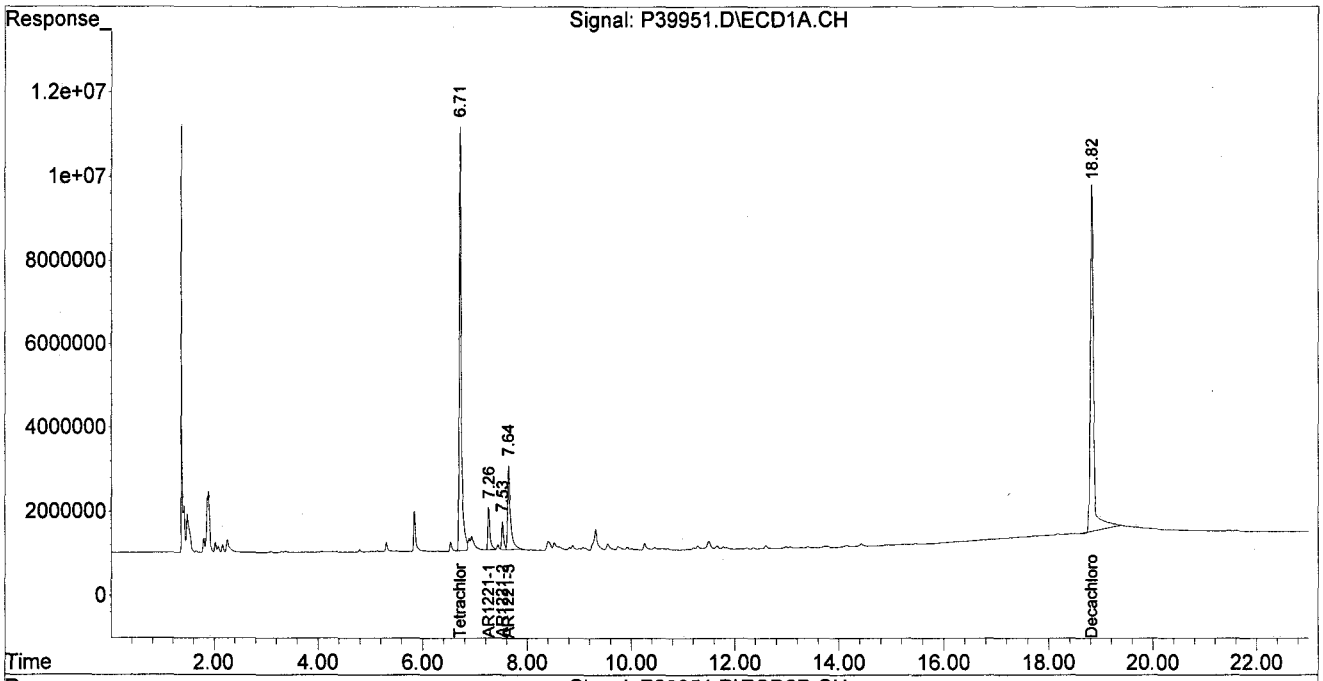
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 Init/date DW 1/4

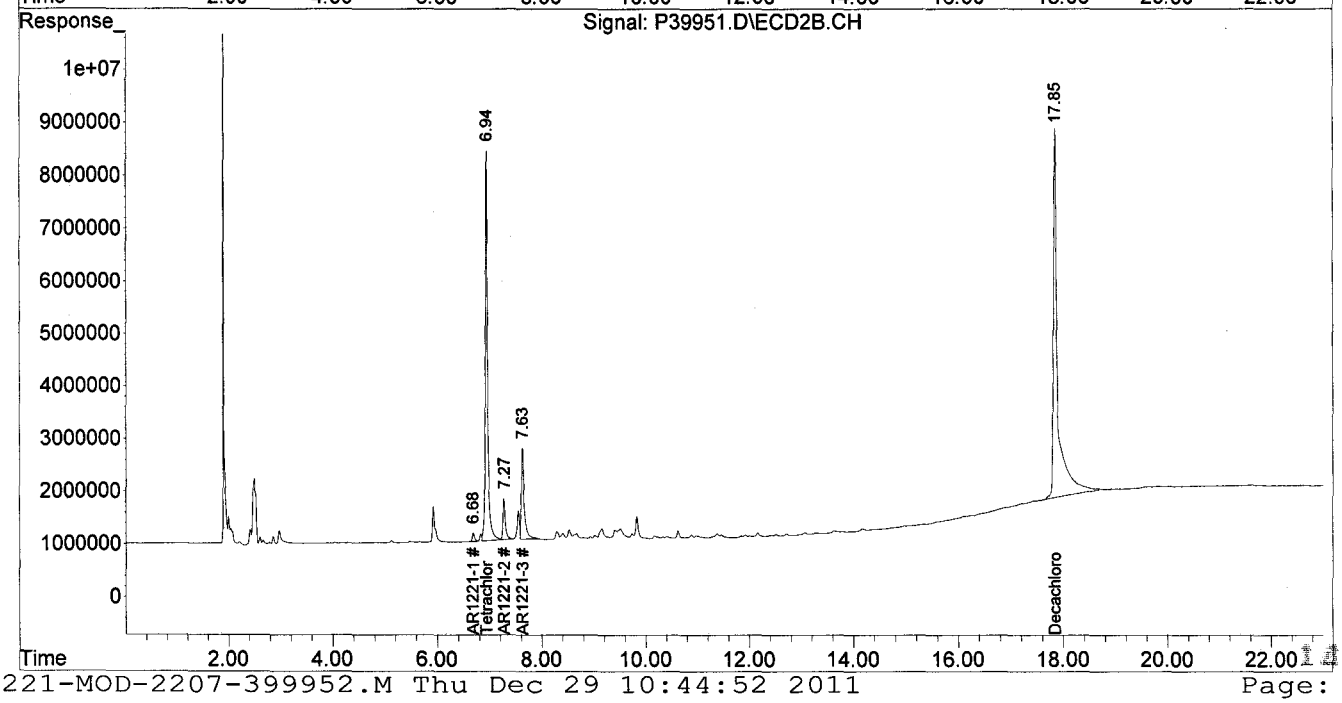
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39951.D(Signal #1) P39951.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 11:09 (Signal #1); 12/27/11 11:40 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221211 (Sig #1); AR1221212 (Sig #2)
Misc : AR1221211 (Sig #1); AR1221212 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:17:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:17:39 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39952.D(Signal #1) P39952.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 11:40 (Signal #1); 12/27/11 12:10 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221321 (Sig #1); AR1221322 (Sig #2)
Misc : AR1221321 (Sig #1); AR1221322 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:18:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:18:04 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	491.6E6	425.0E6	19.062	18.994
	Spiked Amount 60.000	Range 18 - 90		Recovery =		31.77%	31.66%
5)	s Decachlorobiphen	18.82	17.84	694.8E6	732.8E6	38.795	37.429
	Spiked Amount 120.000			Recovery =		32.33%	31.19%
	Target Compounds						
2)	AR1221-1	7.26	6.68	49681495	10187684	199.426	81.936 #
3)	AR1221-2	7.53	7.27	31516821	45204443	205.551	242.916
4)	AR1221-3	7.64	7.62	134.8E6	110.1E6	203.333	188.146

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

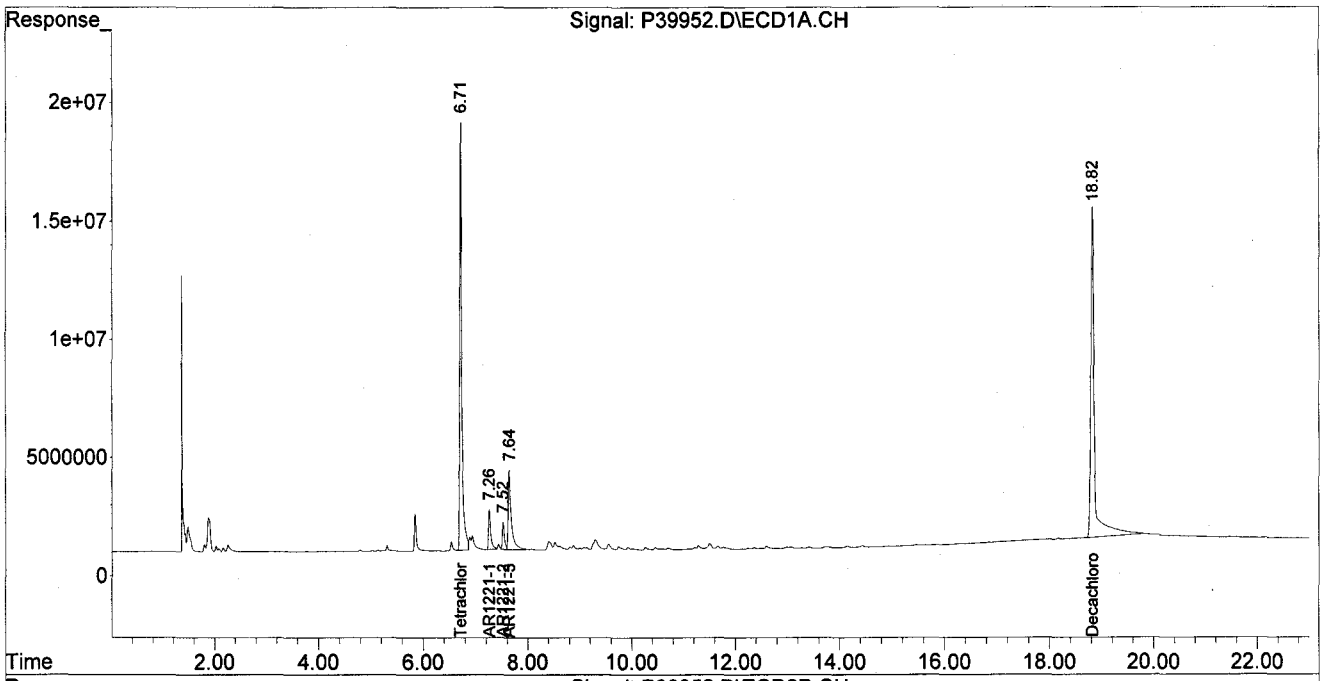
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date 12/29/11

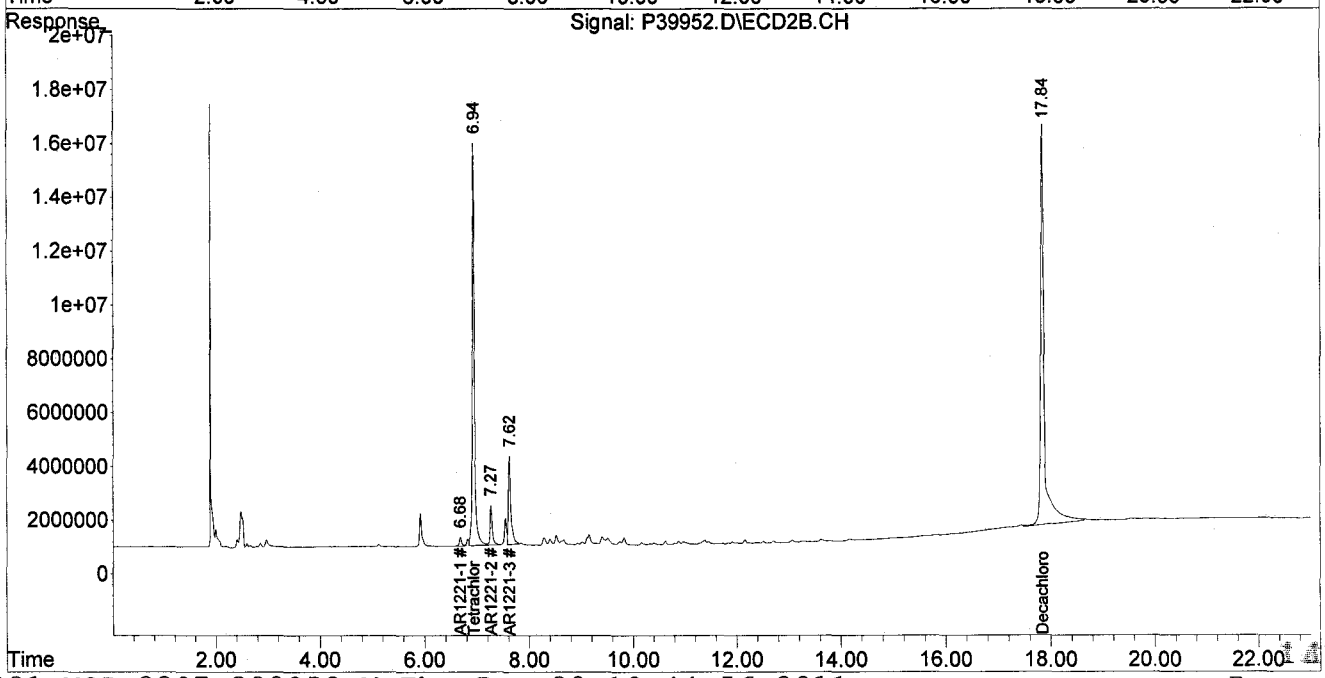
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39952.D(Signal #1) P39952.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 11:40 (Signal #1); 12/27/11 12:10 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221321 (Sig #1); AR1221322 (Sig #2)
Misc : AR1221321 (Sig #1); AR1221322 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:18:10 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:18:04 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

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Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39953.D(Signal #1)           P39953.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/27/11 12:10 (Signal #1); 12/27/11 12:41 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1221411 (Sig #1); AR1221412 (Sig #2)
Misc      : AR1221411 (Sig #1); AR1221412 (Sig #2)
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:18:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Tue Dec 27 14:18:23 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.71	6.94	1085.5E6	916.7E6	42.089	40.965
	Spiked Amount 60.000 Range 18 - 90 Recovery =					70.15%	68.28%
5) s	Decachlorobiphen	18.82	17.85	1453.3E6	1542.0E6	81.143	78.674
	Spiked Amount 120.000 Recovery =					67.62%	65.56%
	Target Compounds						
2)	AR1221-1	7.26	6.68	108.7E6	20341730	436.276	227.740 #
3)	AR1221-2	7.52	7.27	66468696	90422795	433.504	444.344
4)	AR1221-3	7.64	7.62	285.3E6	221.6E6	430.286	378.473

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date [illegible]

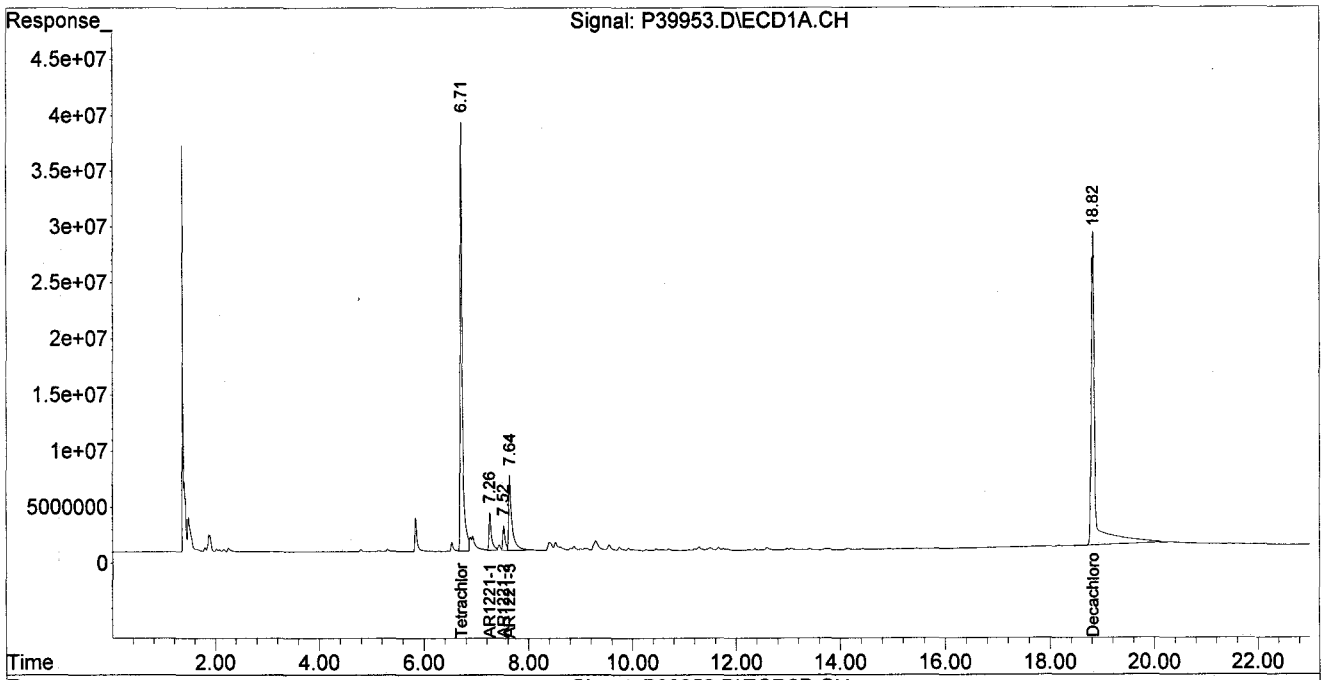
1414

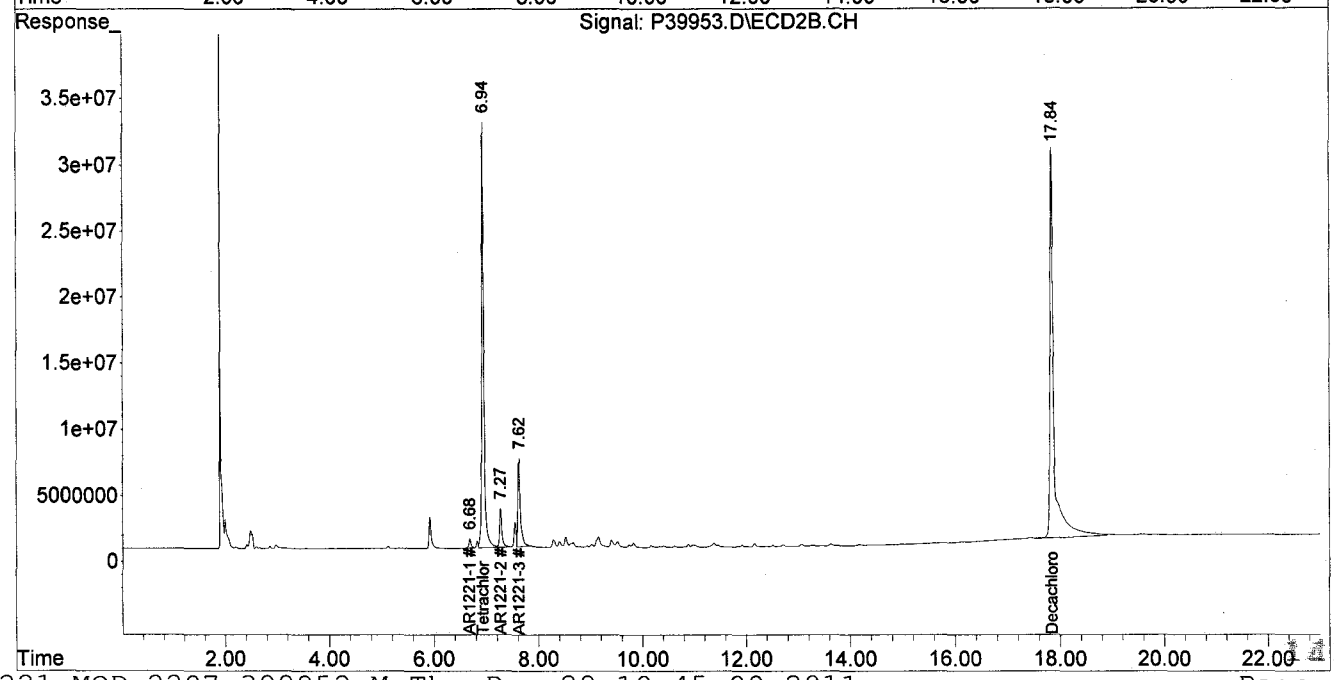
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39953.D(Signal #1) P39953.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 12:10 (Signal #1); 12/27/11 12:41 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221411 (Sig #1); AR1221412 (Sig #2)
Misc : AR1221411 (Sig #1); AR1221412 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:18:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:18:23 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39954.D(Signal #1) P39954.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 12:41 (Signal #1); 12/27/11 13:11 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221511 (Sig #1); AR1221512 (Sig #2)
Misc : AR1221511 (Sig #1); AR1221512 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:16:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:13:35 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.71	6.94	2005.0E6	1746.6E6	77.741	78.376
	Spiked Amount 60.000 Range 18 - 90 Recovery =					129.57%#	130.63%#
5) s	Decachlorobiphen	18.82	17.85	2855.6E6	2850.6E6	159.436	145.838
	Spiked Amount 120.000 Recovery =					132.86%	121.53%
	Target Compounds						
2)	AR1221-1	7.26	6.68f	193.5E6	37881719	776.757	173.003m#
3)	AR1221-2	7.52	7.27f	113.7E6	158.3E6	741.619	1054.097m#
4)	AR1221-3	7.64	7.62	498.3E6	398.9E6	751.540	701.894

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date [illegible]

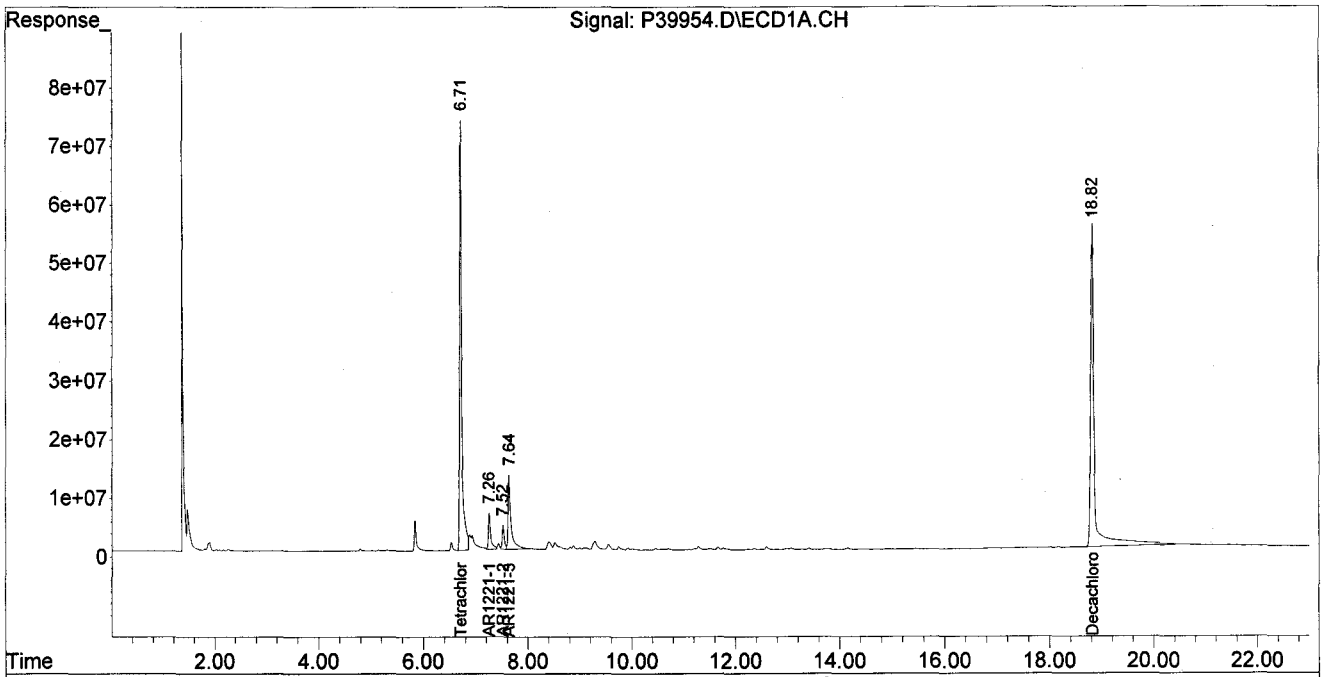
1416

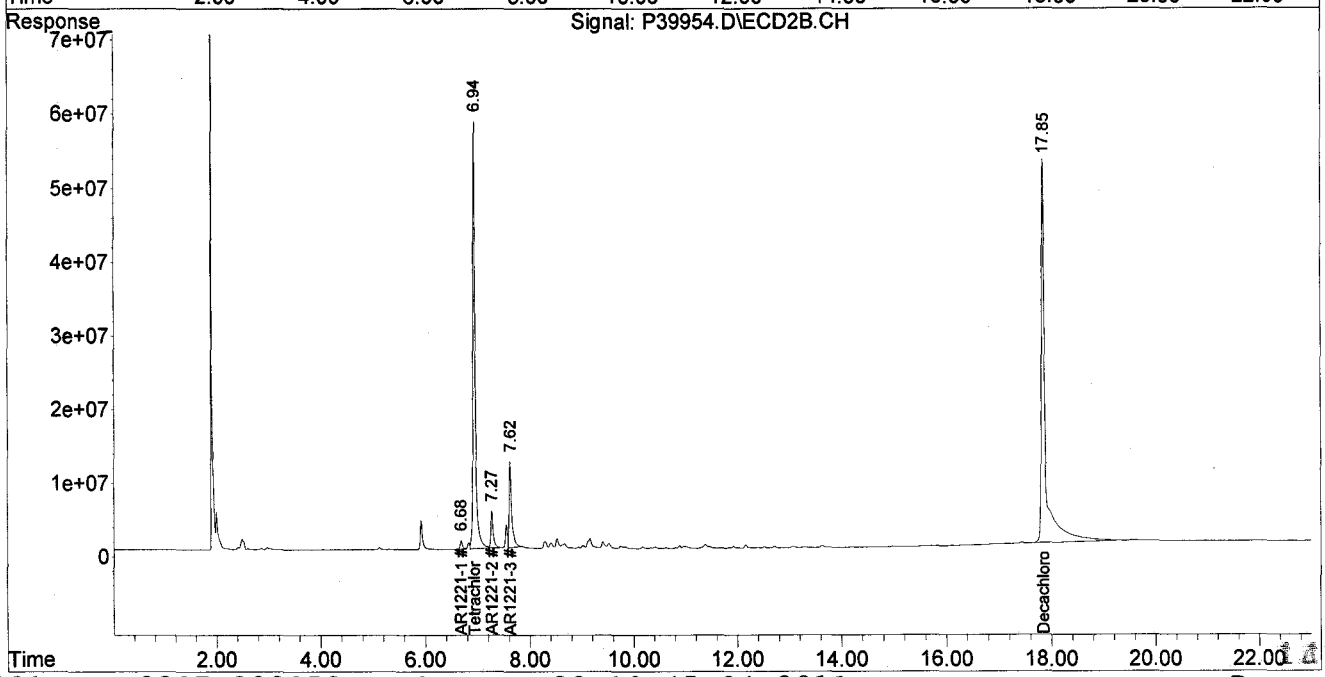
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39954.D(Signal #1) P39954.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 12:41 (Signal #1); 12/27/11 13:11 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221511 (Sig #1); AR1221512 (Sig #2)
Misc : AR1221511 (Sig #1); AR1221512 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:16:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:13:35 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1660-39866.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 10:47:23 2011
Response Via : Initial Calibration

CC Data File: P39956.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	24.801	24.293	E6	2.1	107
2		AR1016-1	851.872	882.106	E3	-3.5	117
3		AR1016-2	849.316	847.361	E3	0.2	106
4		AR1016-3	404.372	391.596	E3	3.2	103
5		AR1260-1	1.218	1.172	E6	3.7	105
6		AR1260-2	1.402	1.336	E6	4.7	105
7		AR1260-3	1070.981	972.473	E3	9.2	99
8	S	Decachlorobiphenyl	17.493	15.806	E6	9.6	101

Signal #2
CC Data File: P39956.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	21.078	21.317	E6	-1.1	109
2		AR1016-1	800.313	777.279	E3	2.9	106
3		AR1016-2	706.629	651.867	E3	7.7	98
4		AR1016-3	507.423	503.852	E3	0.7	107
5		AR1260-1	1055.085	996.162	E3	5.6	102
6		AR1260-2	734.180	731.378	E3	0.4	106
7		AR1260-3	850.164	794.445	E3	6.6	103
8	s	Decachlorobiphenyl	18.900	17.228	E6	8.8	101

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39956.D(Signal #1) P39956.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 13:42 (Signal #1); 12/27/11 14:12 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660331 (Sig #1); AR1660332 (Sig #2)
Misc : AR1660331 (Sig #1); AR1660332 (Sig #2)
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:37:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	485.9E6	426.3E6	19.590	20.226
	Spiked Amount 60.000	Range 18 - 90		Recovery =		32.65%	33.71%
8)	s Decachlorobiphen	18.82	17.85	632.2E6	689.1E6	36.142	36.462
	Spiked Amount 120.000			Recovery =		30.12%	30.39%
	Target Compounds						
2)	AR1016-1	8.40	8.28	352.8E6	310.9E6	414.196	388.488
3)	AR1016-2	9.54	9.40	338.9E6	260.7E6	399.079	369.001
4)	AR1016-3	9.92	9.52	156.6E6	201.5E6	387.363	397.185
5)	AR1260-1	12.98	12.51	468.9E6	398.5E6	385.029	377.661
6)	AR1260-2	13.40	13.31	534.5E6	292.6E6	381.307	398.474
7)	AR1260-3	14.94	14.35	389.0E6	317.8E6	363.208	373.784

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode F4460 Init/date 12/19/11

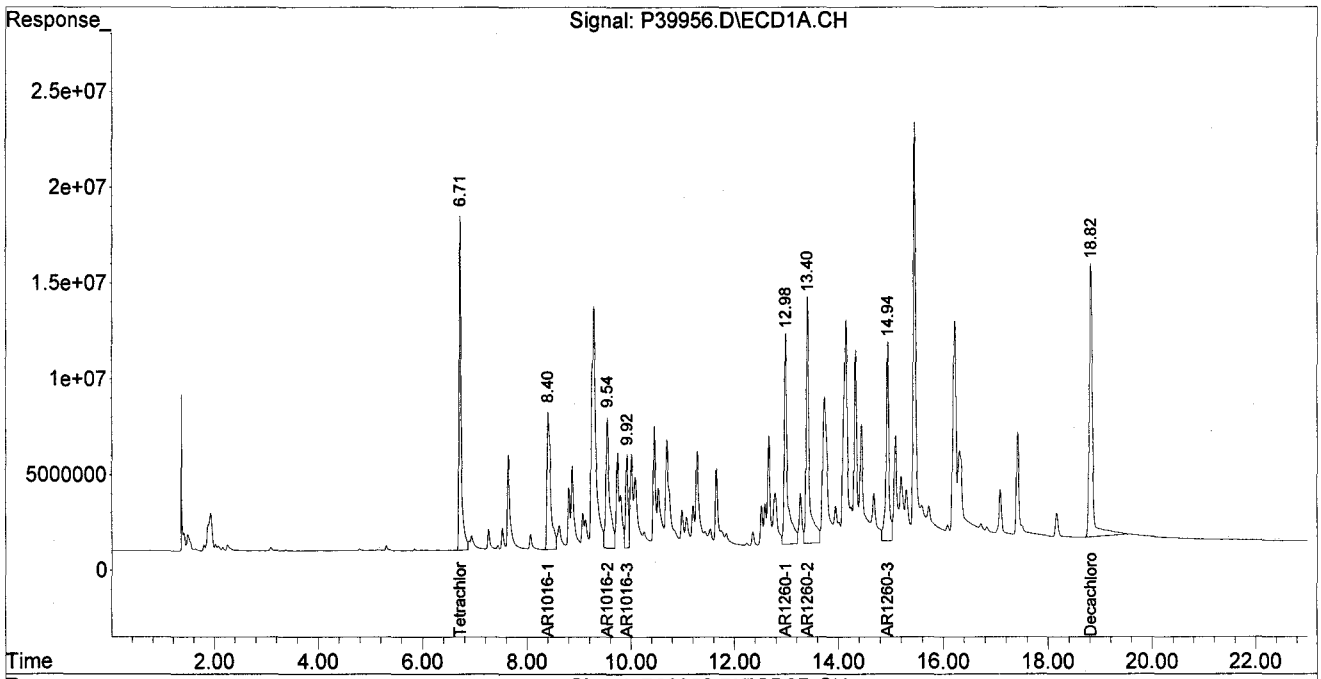
1419

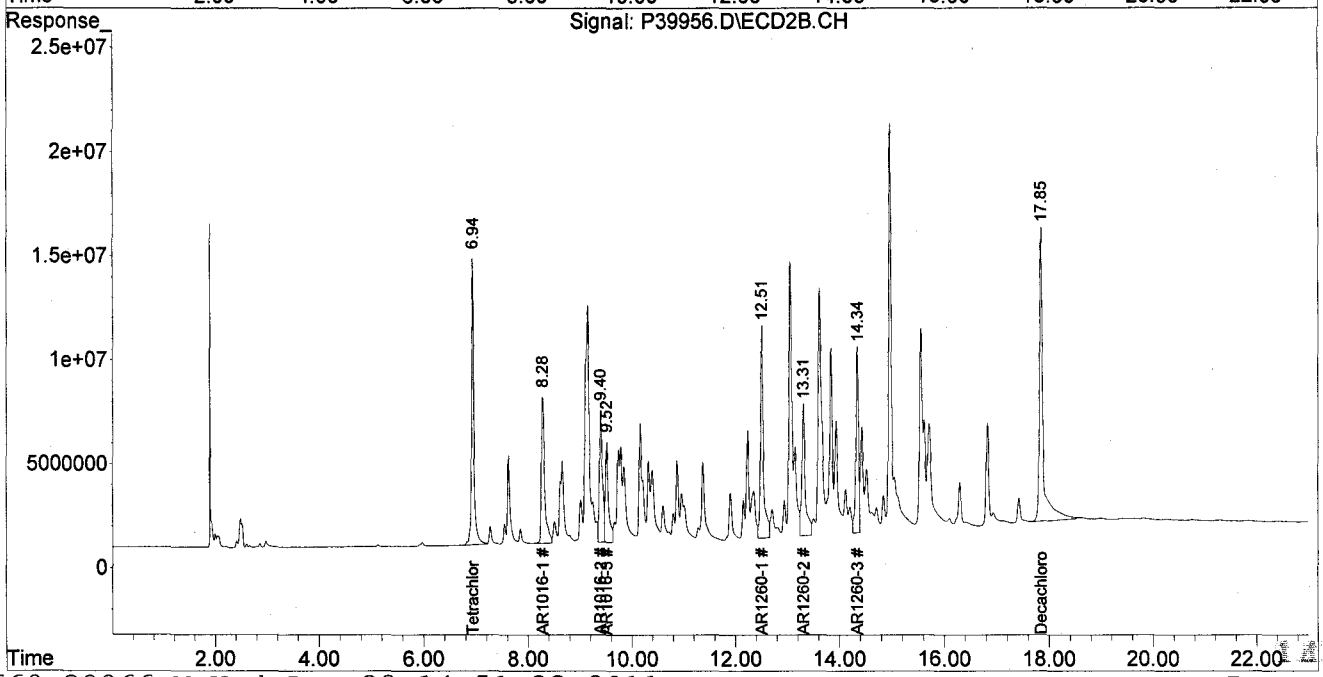
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39956.D(Signal #1) P39956.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 13:42 (Signal #1); 12/27/11 14:12 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660331 (Sig #1); AR1660332 (Sig #2)
Misc : AR1660331 (Sig #1); AR1660332 (Sig #2)
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 14:37:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1221-MOD-2207-399952.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 10:47:44 2011
Response Via : Initial Calibration

CC Data File: P39957.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.791	24.946	E6	3.3	101
2		AR1221-1	249.122	247.287	E3	0.7	100
3		AR1221-2	154.223	157.261	E3	-2.0	100
4		AR1221-3	663.015	671.932	E3	-1.3	100
5	S	Decachlorobiphenyl	17.911	15.474	E6	13.6	89

Signal #2
CC Data File: P39957.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.376	22.277	E6	0.4	105
2		AR1221-1	54.291	55.480	E3	-2.2	109
3		AR1221-2	223.074	235.105	E3	-5.4	104
4		AR1221-3	585.425	591.195	E3	-1.0	107
5	s	Decachlorobiphenyl	19.600	19.244	E6	1.8	105

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39957.D(Signal #1)            P39957.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)             P-6890B(Signal # 2)
Acq On    : 12/27/11 14:12 (Signal #1); 12/27/11 14:43 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1221331 (Sig #1); AR1221332 (Sig #2)
Misc      : AR1221331 (Sig #1); AR1221332 (Sig #2)
ALS Vial  : 68   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 16:45:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Tue Dec 27 14:19:30 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.71	6.94	498.9E6	445.5E6	19.345	19.912
	Spiked Amount 60.000 Range 18 - 90 Recovery =					32.24%	33.19%
5) s	Decachlorobiphen	18.82	17.85	618.9E6	769.7E6	34.557	39.273
	Spiked Amount 120.000 Recovery =					28.80%	32.73%
	Target Compounds						
2)	AR1221-1	7.26	6.68	49457434	11095936	198.527	204.378
3)	AR1221-2	7.52	7.27	31452103	47020972	203.939	210.786
4)	AR1221-3	7.64	7.62	134.4E6	118.2E6	202.690	201.971

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode 8-4460 init/date [illegible]

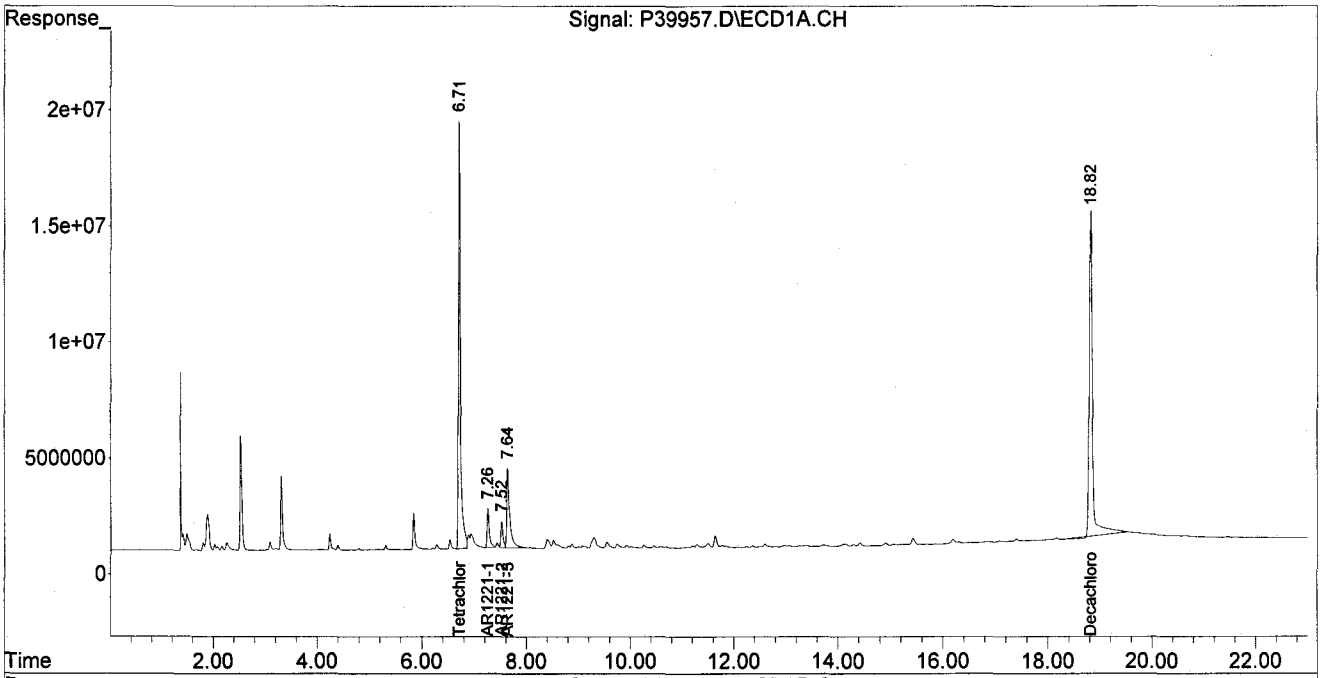
1422

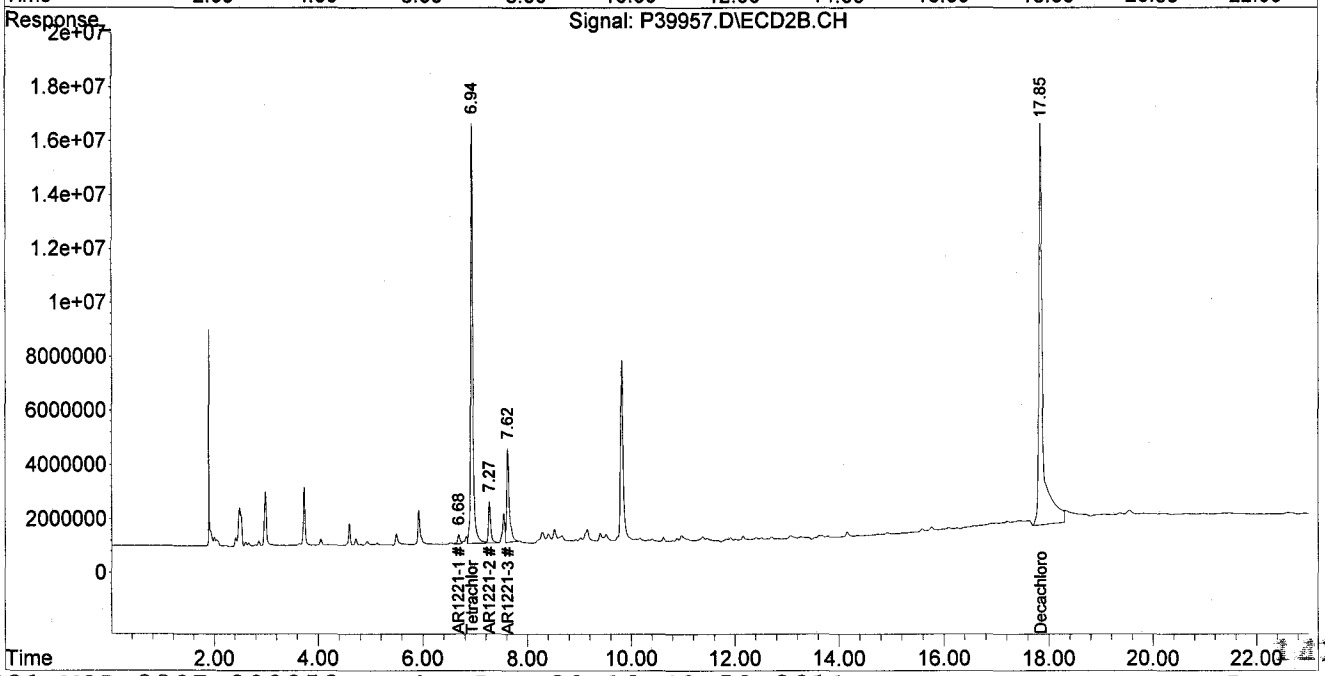
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39957.D(Signal #1) P39957.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 14:12 (Signal #1); 12/27/11 14:43 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221331 (Sig #1); AR1221332 (Sig #2)
Misc : AR1221331 (Sig #1); AR1221332 (Sig #2)
ALS Vial : 68 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 16:45:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:19:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1242-MOD-2207-39901.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 10:48:08 2011
Response Via : Initial Calibration

CC Data File: P39958.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.717	25.933	E6	-0.8	105
2		AR1242-1	302.213	306.101	E3	-1.3	101
3		AR1242-2	408.480	424.629	E3	-4.0	100
4		AR1242-3	262.496	280.789	E3	-7.0	101
5	S	Decachlorobiphenyl	16.420	16.573	E6	-0.9	106

Signal #2
CC Data File: P39958.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.205	20.366	E6	8.3	98
2		AR1242-1	272.412	271.408	E3	0.4	106
3		AR1242-2	418.057	370.805	E3	11.3	90
4		AR1242-3	223.725	225.156	E3	-0.6	110
5	s	Decachlorobiphenyl	12.510	18.268	E6	-46.0#	173#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39958.D(Signal #1)           P39958.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/27/11 14:43 (Signal #1); 12/27/11 15:13 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1242331 (Sig #1); AR1242332 (Sig #2)
Misc      : AR1242331 (Sig #1); AR1242332 (Sig #2)
ALS Vial  : 69   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 16:49:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.      : 1uL
Signal #1 Phase  : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info   : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.71	6.94	518.7E6	407.3E6	20.168	18.344
	Spiked Amount 60.000 Range 18 - 90 Recovery =					33.61%	30.57%
5) s	Decachlorobiphen	18.82	17.85	662.9E6	730.7E6	40.374	58.408 #
	Spiked Amount 120.000 Recovery =					33.65%	48.67%
	Target Compounds						
2)	AR1242-1	9.92	10.33	61220201	54281674	202.573	199.263
3)	AR1242-2	10.45	10.40	84925767	74161075	207.907	177.395
4)	AR1242-3	11.08	10.80	56157851	45031291	213.938	201.280

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode Sun60 init/date Dickerly

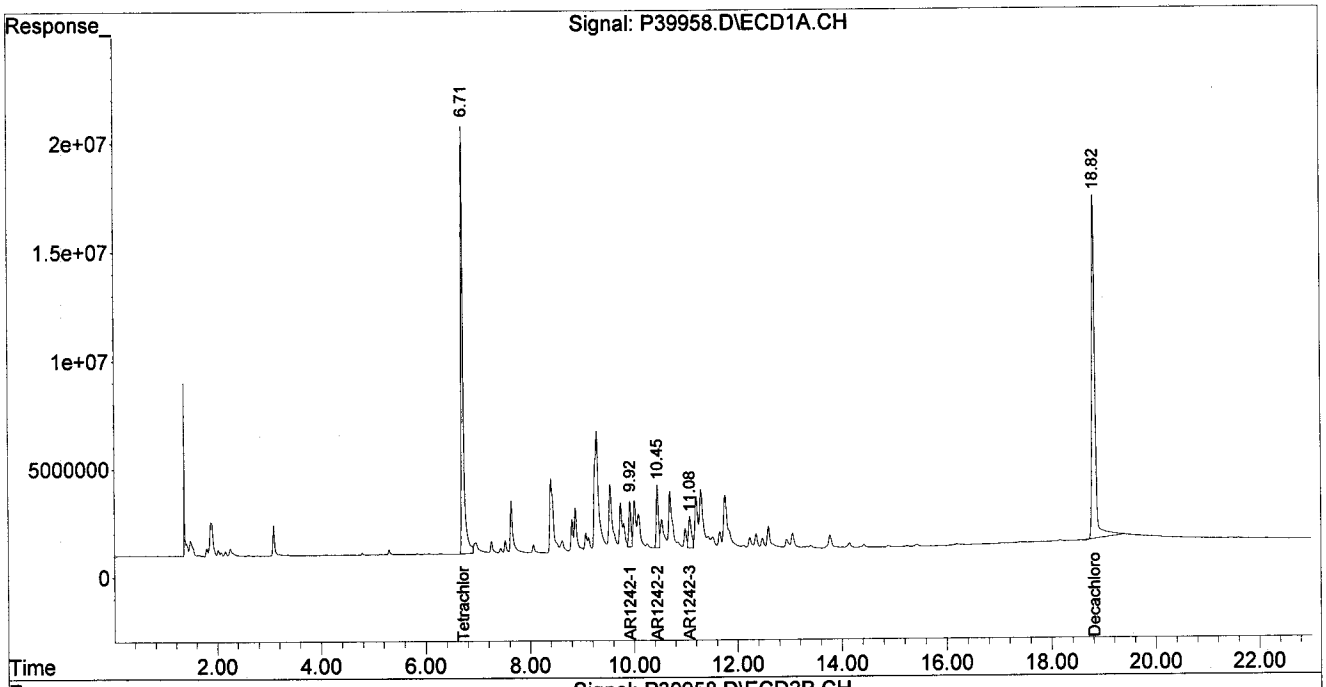
1425

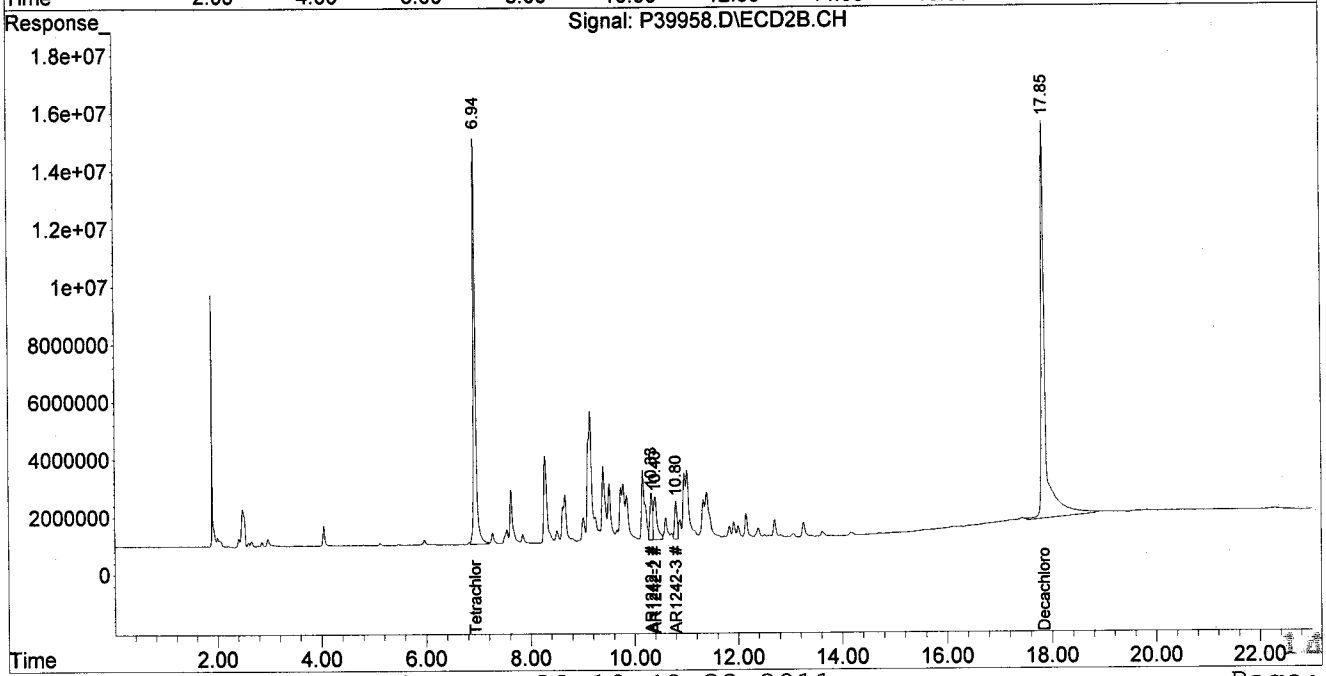
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39958.D(Signal #1) P39958.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 14:43 (Signal #1); 12/27/11 15:13 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242331 (Sig #1); AR1242332 (Sig #2)
Misc : AR1242331 (Sig #1); AR1242332 (Sig #2)
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 16:49:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1254-MOD-2207-39890.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 10:49:32 2011
Response Via : Initial Calibration

CC Data File: P39959.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.387	25.790	E6	-1.6	103
2		AR1254-1	958.391	939.422	E3	2.0	95
3		AR1254-2	726.340	679.052	E3	6.5	90
4		AR1254-3	757.953	671.171	E3	11.4	86
5	S	Decachlorobiphenyl	18.629	15.605	E6	16.2	89

Signal #2
CC Data File: P39959.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	20.607	22.642	E6	-9.9	117
2		AR1254-1	721.706	780.256	E3	-8.1	113
3		AR1254-2	1.107	1.017	E6	8.1	95
4		AR1254-3	939.616	1018.850	E3	-8.4	113
5	s	Decachlorobiphenyl	19.210	19.391	E6	-0.9	107

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39959.D(Signal #1) P39959.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 15:13 (Signal #1); 12/27/11 15:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254331 (Sig #1); AR1254332 (Sig #2)
Misc : AR1254331 (Sig #1); AR1254332 (Sig #2)
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 16:47:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:12:58 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	515.8E6	452.8E6	20.317	21.975
	Spiked Amount 60.000	Range 18 - 90		Recovery =		33.86%	36.63%
5)	s Decachlorobiphen	18.82	17.85	624.2E6	775.6E6	33.505	40.377
	Spiked Amount 120.000			Recovery =		27.92%	33.65%
	Target Compounds						
2)	AR1254-1	11.28	11.92	187.9E6	156.1E6	196.041	216.225
3)	AR1254-2	12.36	12.71	135.8E6	203.4E6	186.979	183.702
4)	AR1254-3	13.41	13.06	134.2E6	203.8E6	177.101	216.865

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

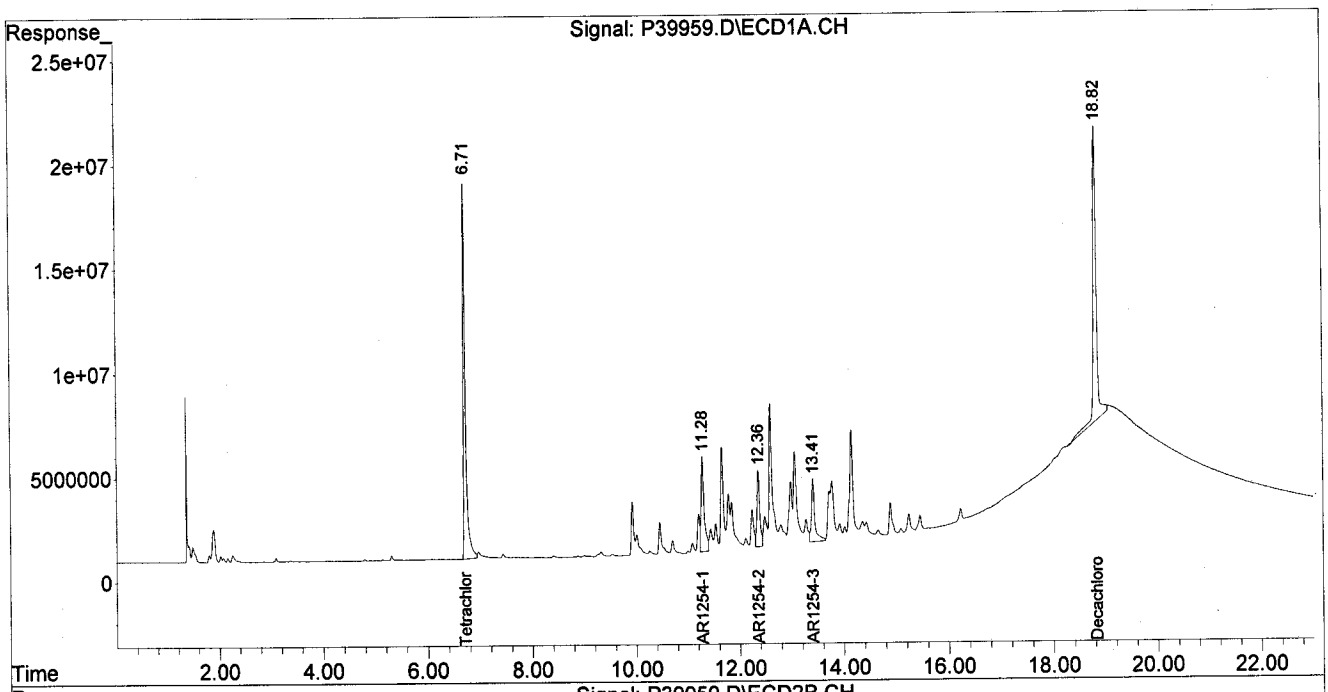
ORIGINAL
Case 42040 SDG P4XP0
Episode P-4460 Init/date 12/29/11

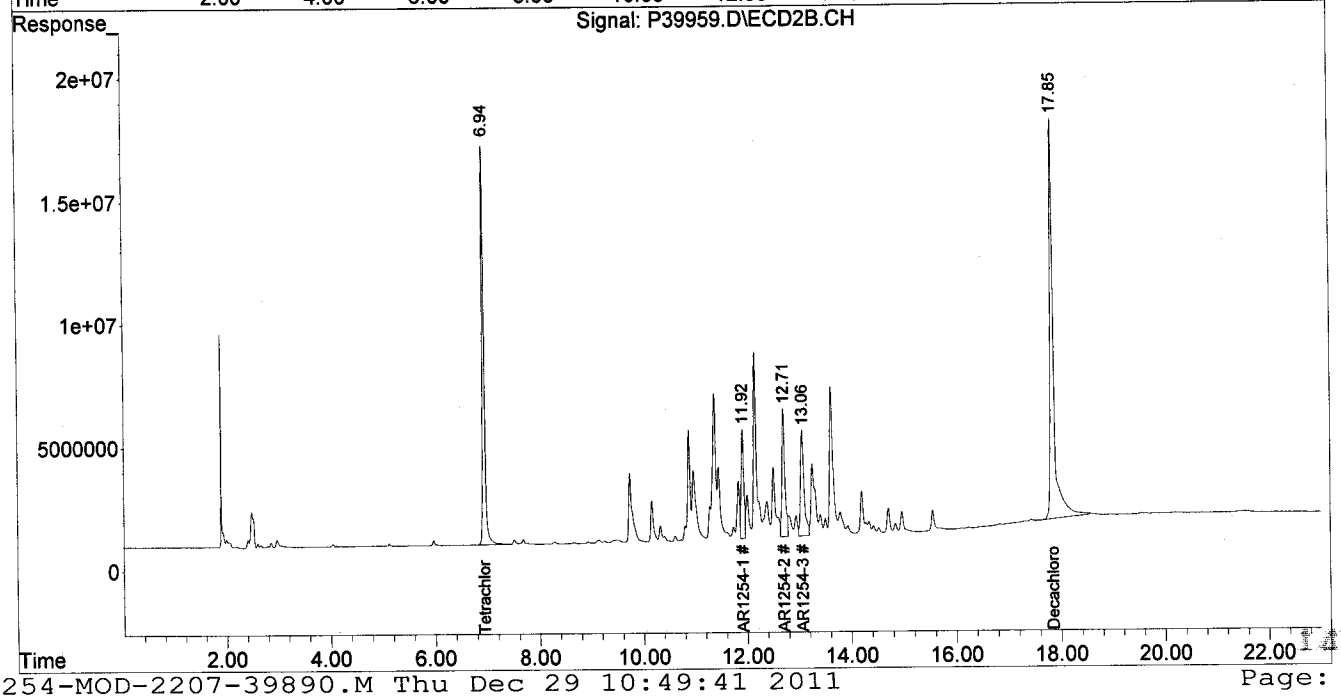
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39959.D(Signal #1) P39959.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 15:13 (Signal #1); 12/27/11 15:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254331 (Sig #1); AR1254332 (Sig #2)
Misc : AR1254331 (Sig #1); AR1254332 (Sig #2)
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 16:47:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 14:12:58 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1660-39866.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 10:50:56 2011
Response Via : Initial Calibration

CC Data File: P39977.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	24.801	24.444	E6	1.4	108
2		AR1016-1	851.872	882.491	E3	-3.6	117
3		AR1016-2	849.316	862.136	E3	-1.5	108
4		AR1016-3	404.372	389.747	E3	3.6	103
5		AR1260-1	1.218	1.175	E6	3.5	105
6		AR1260-2	1.402	1.340	E6	4.4	105
7		AR1260-3	1070.981	990.123	E3	7.5	101
8	S	Decachlorobiphenyl	17.493	15.499	E6	11.4	99

Signal #2
CC Data File: P39977.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	21.078	23.398	E6	-11.0	119
2		AR1016-1	800.313	876.650	E3	-9.5	119
3		AR1016-2	706.629	823.372	E3	-16.5	123
4		AR1016-3	507.423	536.319	E3	-5.7	114
5		AR1260-1	1055.085	1178.815	E3	-11.7	121
6		AR1260-2	734.180	791.055	E3	-7.7	114
7		AR1260-3	850.164	1021.230	E3	-20.1	132
8	s	Decachlorobiphenyl	18.900	20.841	E6	-10.3	122

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39977.D(Signal #1) P39977.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 00:20 (Signal #1); 12/28/11 00:50 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660341 (Sig #1); AR1660342 (Sig #2)
Misc : AR1660341 (Sig #1); AR1660342 (Sig #2)
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 09:03:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	488.9E6	468.0E6	19.712	22.201
	Spiked Amount 60.000	Range 18 - 90		Recovery =		32.85%	37.00%
8)	s Decachlorobiphen	18.82	17.84	620.0E6	833.6E6	35.441	44.110
	Spiked Amount 120.000			Recovery =		29.53%	36.76%
	Target Compounds						
2)	AR1016-1	8.40	8.28	353.0E6	350.7E6	414.377	438.153
3)	AR1016-2	9.54	9.40	344.9E6	329.3E6	406.038	466.085
4)	AR1016-3	9.92	9.51	155.9E6	214.5E6	385.533	422.779
5)	AR1260-1	12.98	12.51	470.1E6	471.5E6	386.045	446.908
6)	AR1260-2	13.40	13.31	536.1E6	316.4E6	382.431	430.987
7)	AR1260-3	14.94	14.34	396.0E6	408.5E6	369.801	480.486 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

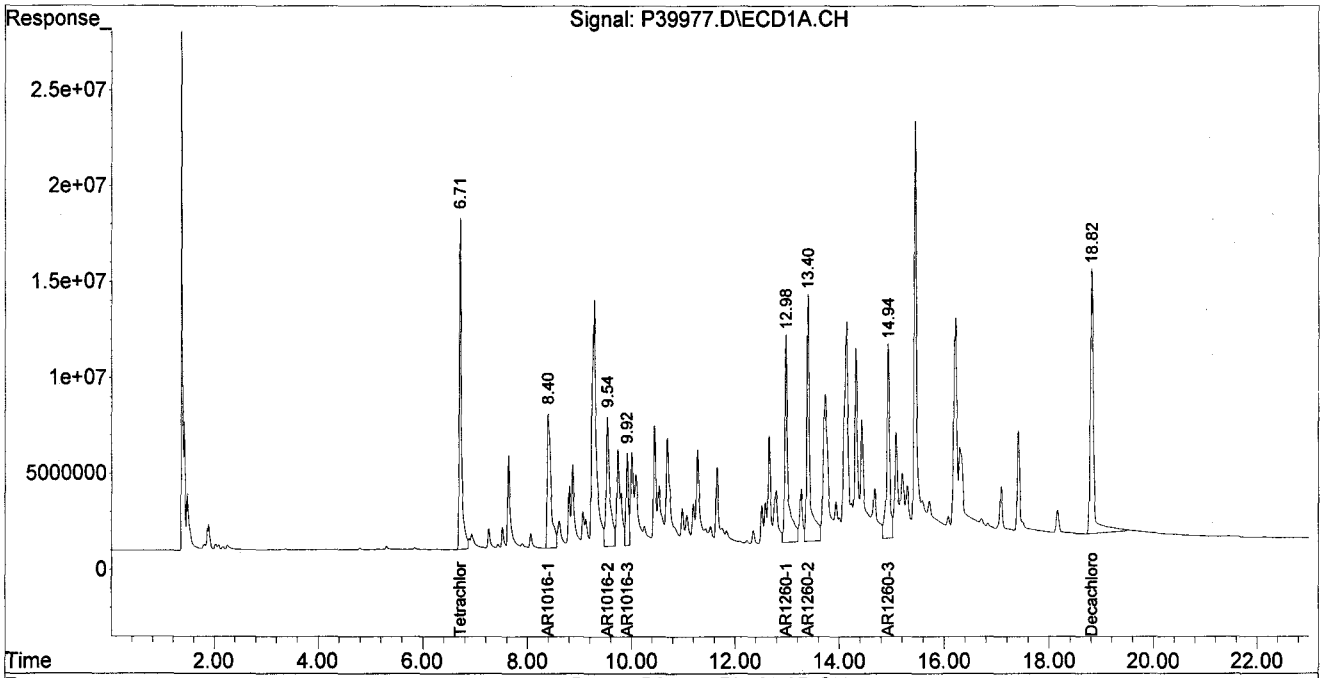
ORIGINAL
case 42040 SDG FAXPO
ESUDE 14460 init/date DJ 12/29

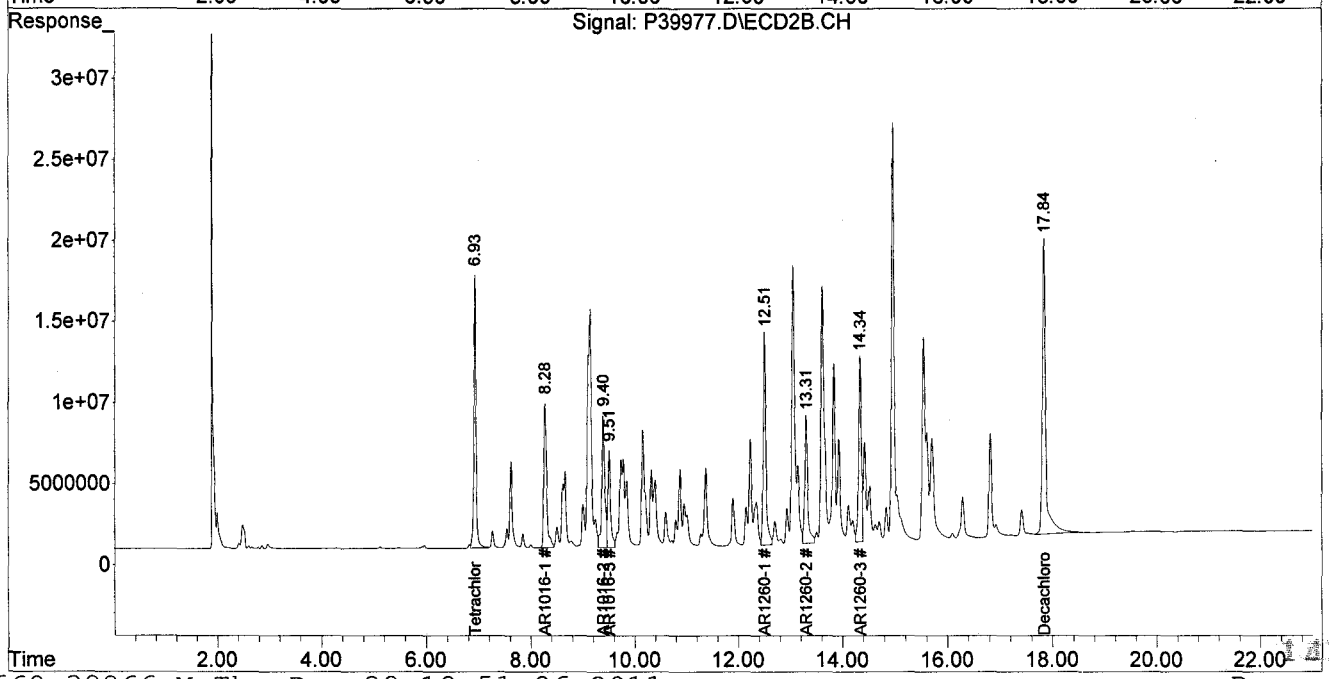
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39977.D(Signal #1) P39977.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 00:20 (Signal #1); 12/28/11 00:50 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660341 (Sig #1); AR1660342 (Sig #2)
Misc : AR1660341 (Sig #1); AR1660342 (Sig #2)
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 09:03:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1221-MOD-2207-399952.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 11:30:45 2011
Response Via : Initial Calibration

CC Data File: P39978.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.791	23.525	E6	8.8	96
2		AR1221-1	249.122	234.872	E3	5.7	95
3		AR1221-2	154.223	148.750	E3	3.5	94
4		AR1221-3	663.015	641.135	E3	3.3	95
5	S	Decachlorobiphenyl	17.911	13.847	E6	22.7	80

Signal #2
CC Data File: P39978.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.376	22.615	E6	-1.1	106
2		AR1221-1	54.291	55.879	E3	-2.9	110
3		AR1221-2	223.074	240.191	E3	-7.7	106
4		AR1221-3	585.425	598.866	E3	-2.3	109
5	s	Decachlorobiphenyl	19.600	19.736	E6	-0.7	108

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39978.D(Signal #1) P39978.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 00:50 (Signal #1); 12/28/11 01:20 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221341 (Sig #1); AR1221342 (Sig #2)
Misc : AR1221341 (Sig #1); AR1221342 (Sig #2)
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:48:30 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:55 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	470.5E6	452.3E6	18.243	20.214
	Spiked Amount 60.000	Range 18 - 90		Recovery =		30.40%	33.69%
5)	s Decachlorobiphen	18.82	17.85	553.9E6	789.5E6	30.924	40.279 #
	Spiked Amount 120.000			Recovery =		25.77%	33.57%
	Target Compounds						
2)	AR1221-1	7.26	6.68	46974370	11175841	188.559	205.850
3)	AR1221-2	7.52	7.27	29750067	48038163	192.903	215.346
4)	AR1221-3	7.64	7.62	128.2E6	119.8E6	193.400	204.592

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode F4460 Init/date 1/4/12

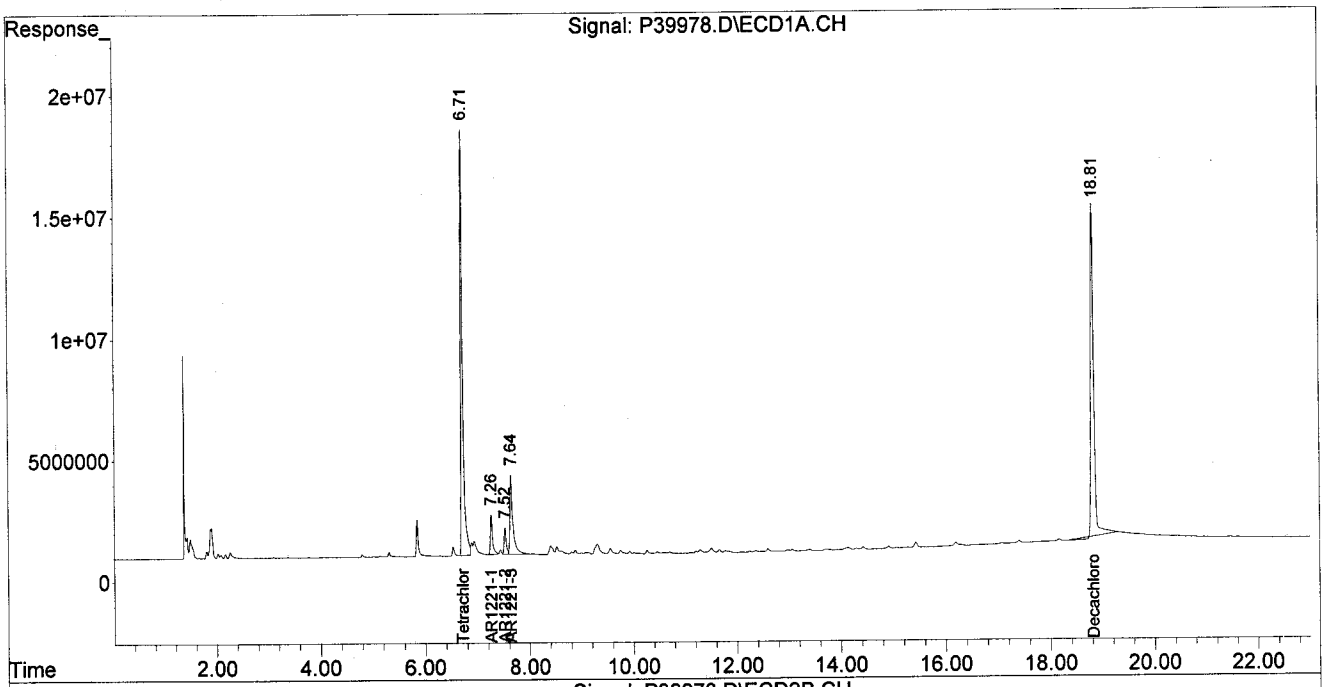
1434

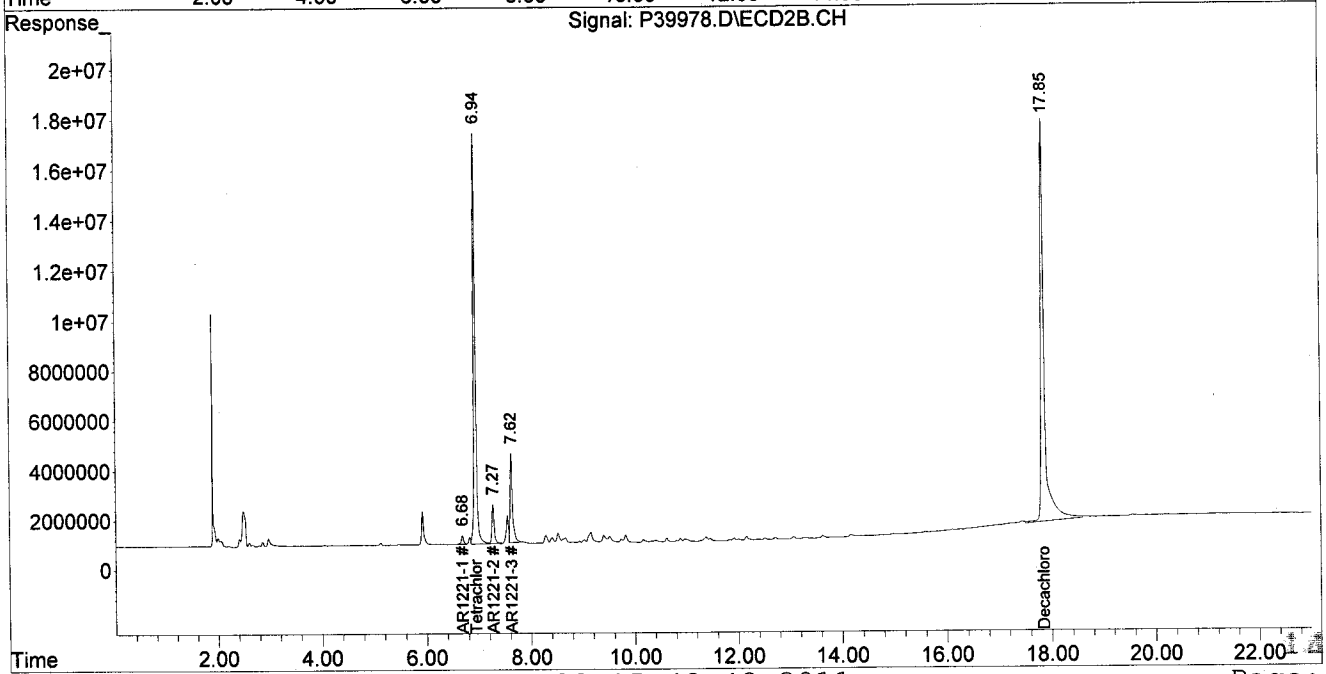
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39978.D(Signal #1) P39978.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 00:50 (Signal #1); 12/28/11 01:20 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221341 (Sig #1); AR1221342 (Sig #2)
Misc : AR1221341 (Sig #1); AR1221342 (Sig #2)
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:48:30 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:55 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1254-MOD-2207-39890.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Wed Dec 28 15:49:16 2011
Response Via : Initial Calibration

CC Data File: P39980.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.387	23.925	E6	5.8	96
2		AR1254-1	958.391	911.998	E3	4.8	92
3		AR1254-2	726.340	695.636	E3	4.2	92
4		AR1254-3	757.953	761.293	E3	-0.4	97
5	S	Decachlorobiphenyl	18.629	15.289	E6	17.9	87

Signal #2
CC Data File: P39980.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	20.607	19.898	E6	3.4	103
2		AR1254-1	721.706	657.769	E3	8.9	96
3		AR1254-2	1.107	0.889	E6	19.7	83
4		AR1254-3	939.616	885.342	E3	5.8	98
5	s	Decachlorobiphenyl	19.210	17.457	E6	9.1	97

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39980.D(Signal #1)           P39980.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/28/11 01:51 (Signal #1); 12/28/11 02:21 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1254341 (Sig #1); AR1254342 (Sig #2)
Misc      : AR1254341 (Sig #1); AR1254342 (Sig #2)
ALS Vial  : 91   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:49:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.      : 1uL
Signal #1 Phase  : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info   : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.71	6.94	478.5E6	398.0E6	18.848	19.312
	Spiked Amount 60.000 Range 18 - 90 Recovery =					31.41%	32.19%
5) s	Decachlorobiphen	18.82	17.85	611.6E6	698.3E6	32.828	36.350
	Spiked Amount 120.000 Recovery =					27.36%	30.29%
	Target Compounds						
2)	AR1254-1	11.28	11.92	182.4E6	131.6E6	190.318	182.281
3)	AR1254-2	12.36	12.71	139.1E6	177.7E6	191.545	160.506
4)	AR1254-3	13.40	13.06	152.3E6	177.1E6	200.881	188.448

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode F-4460 init/date [illegible]

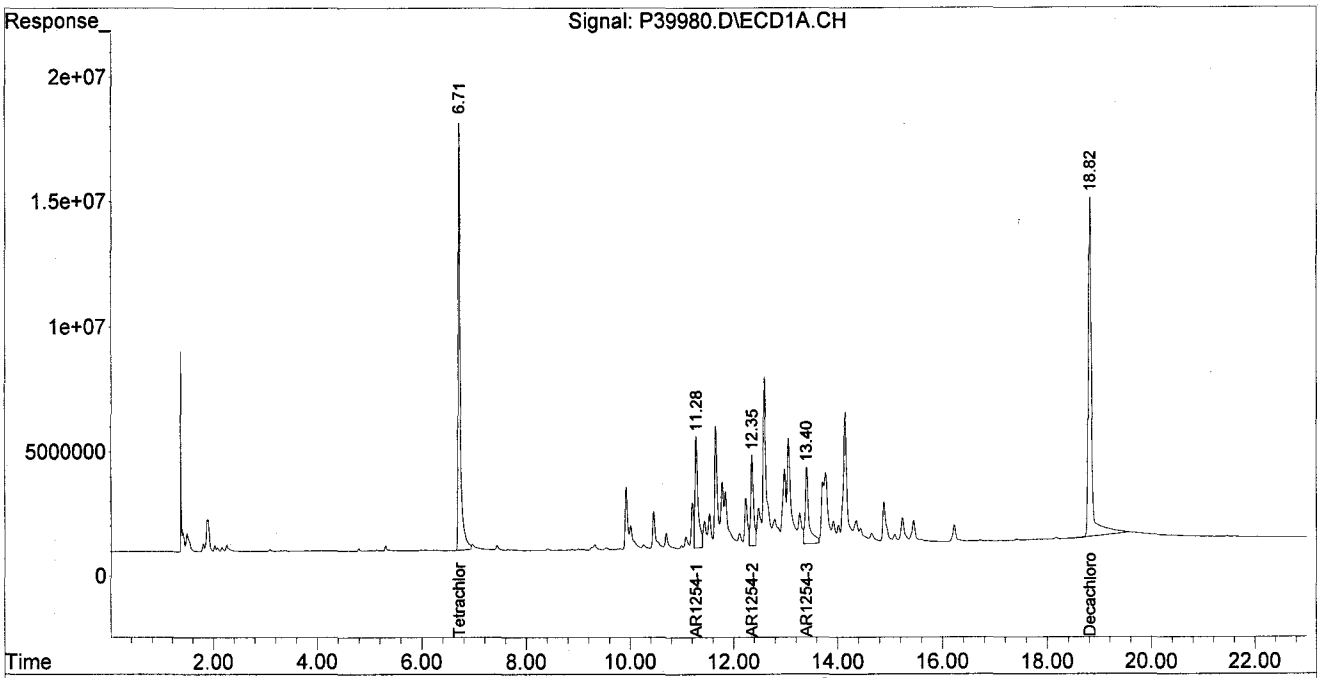
1437

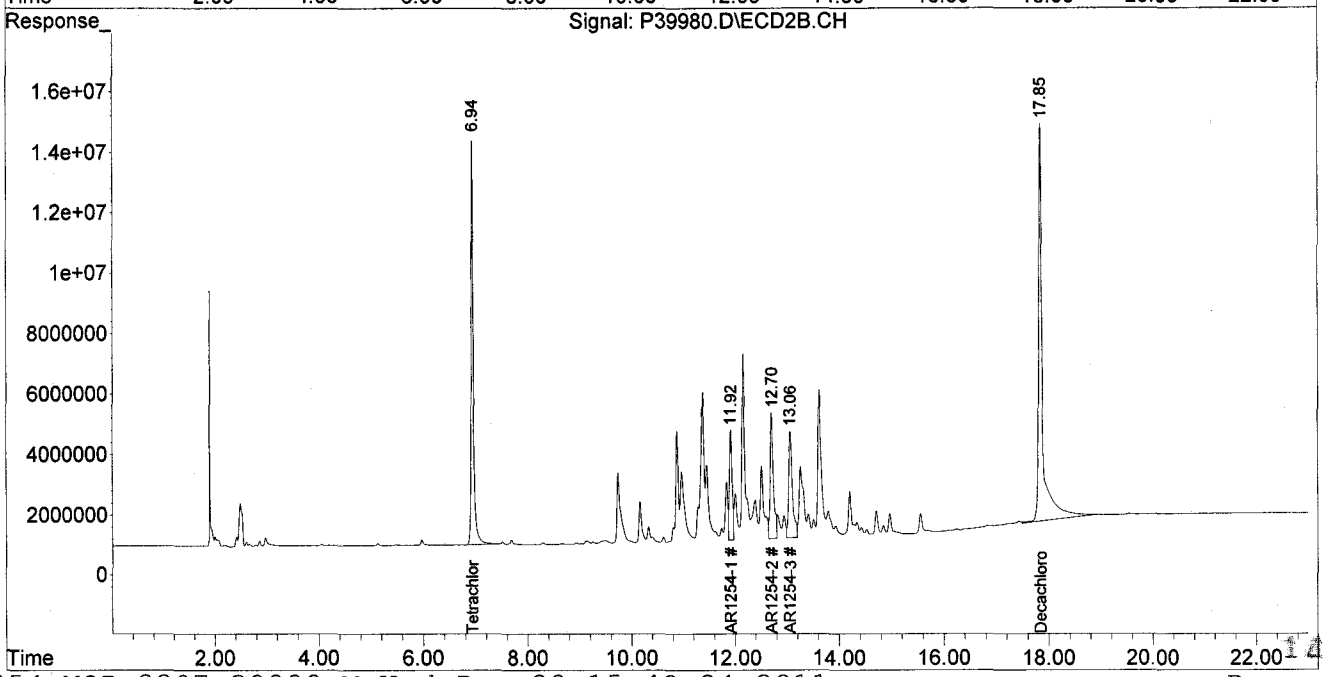
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39980.D(Signal #1) P39980.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 01:51 (Signal #1); 12/28/11 02:21 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254341 (Sig #1); AR1254342 (Sig #2)
Misc : AR1254341 (Sig #1); AR1254342 (Sig #2)
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:49:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1242-MOD-2207-39901.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Wed Dec 28 15:49:57 2011
Response Via : Initial Calibration

CC Data File: P39979.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	Area%
1 S	Tetrachloro-m-xylene	25.717	23.472	E6	8.7	95
2	AR1242-1	302.213	321.025	E3	-6.2	106
3	AR1242-2	408.480	399.001	E3	2.3	94
4	AR1242-3	262.496	272.643	E3	-3.9	98
5 S	Decachlorobiphenyl	16.420	14.055	E6	14.4	90

Signal #2
CC Data File: P39979.D

	Compound	AvgRF	CCRF		%Dev	Area%
1 S	Tetrachloro-m-xylene	22.205	20.550	E6	7.5	99
2	AR1242-1	272.412	282.012	E3	-3.5	110
3	AR1242-2	418.057	380.365	E3	9.0	93
4	AR1242-3	223.725	237.865	E3	-6.3	116
5 s	Decachlorobiphenyl	12.510	16.752	E6	-33.9#	159#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39979.D(Signal #1) P39979.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 01:20 (Signal #1); 12/28/11 01:51 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242341 (Sig #1); AR1242342 (Sig #2)
Misc : AR1242341 (Sig #1); AR1242342 (Sig #2)
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:49:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:58:55 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	469.4E6	411.0E6	18.254	18.509
	Spiked Amount 60.000	Range 18 - 90		Recovery =		30.42%	30.85%
5)	s Decachlorobiphen	18.82	17.84	562.2E6	670.1E6	34.239	53.560 #
	Spiked Amount 120.000			Recovery =		28.53%	44.63%
	Target Compounds						
2)	AR1242-1	9.92	10.33	64205058	56402443	212.450	207.048
3)	AR1242-2	10.45	10.40	79800172	76073090	195.359	181.968
4)	AR1242-3	11.08	10.80	54528600	47572987	207.731	212.641

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

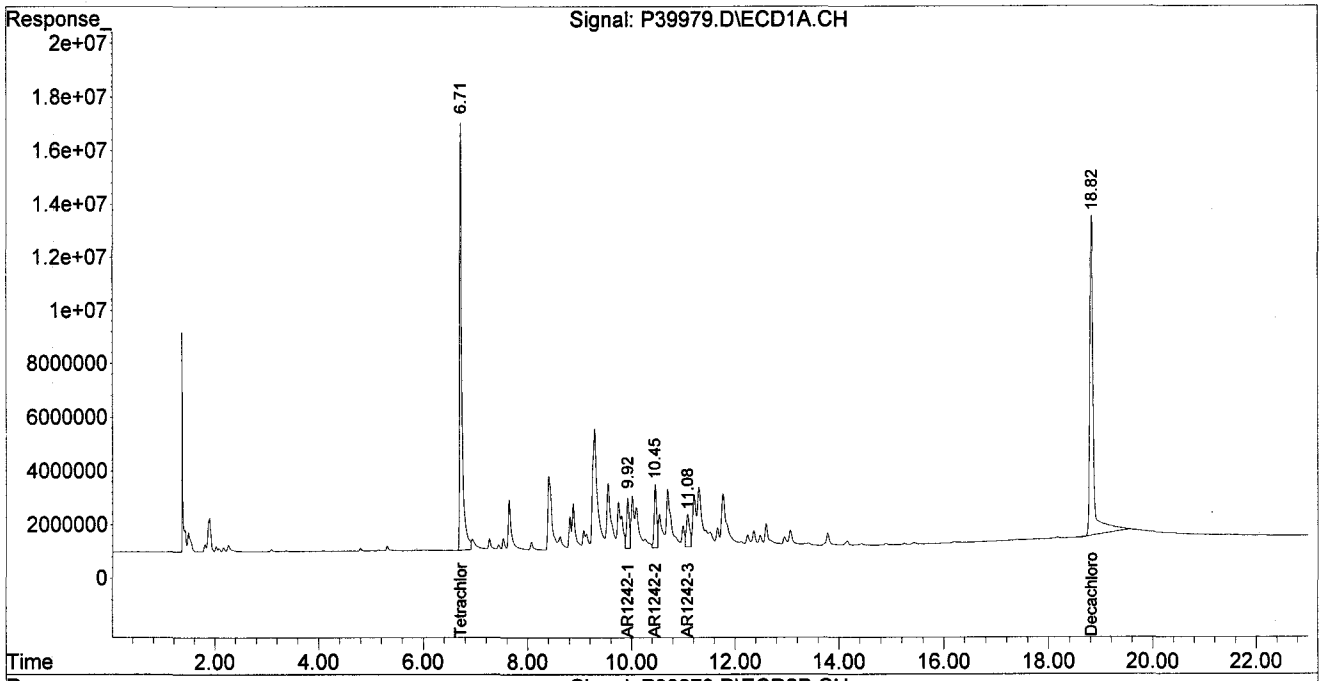
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 Init/date 12/28/11

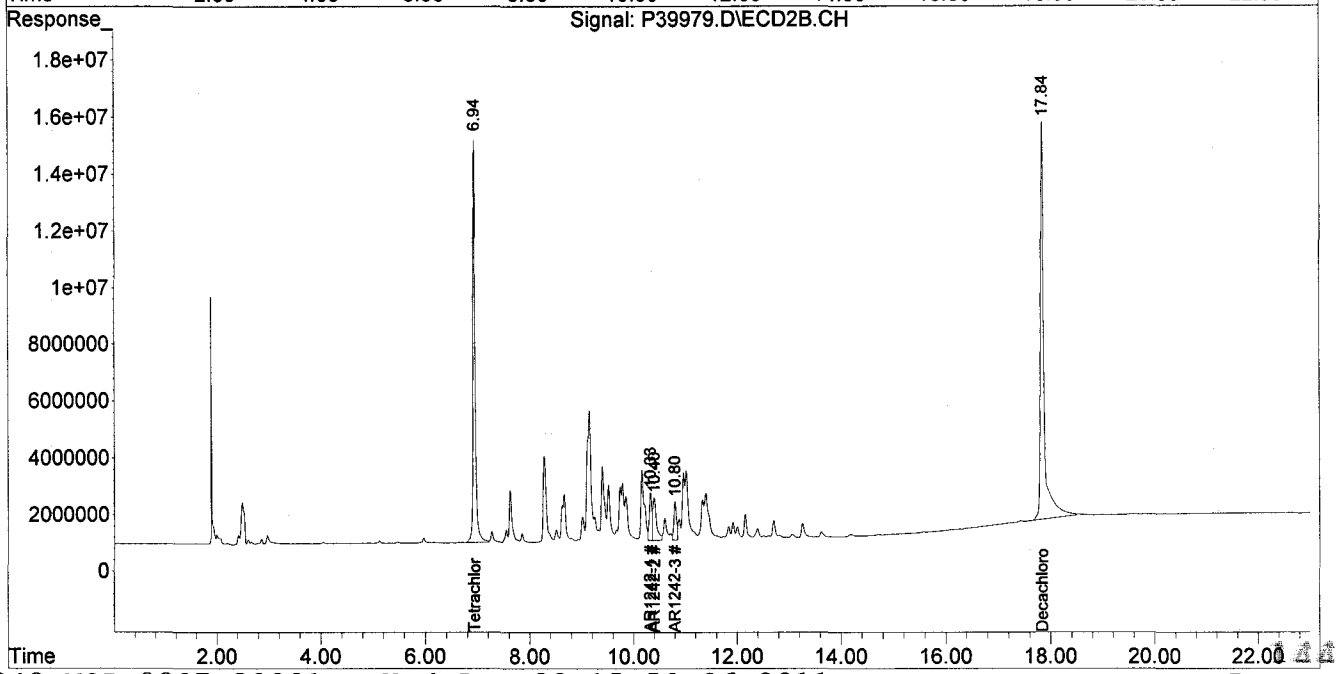
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39979.D(Signal #1) P39979.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 01:20 (Signal #1); 12/28/11 01:51 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242341 (Sig #1); AR1242342 (Sig #2)
Misc : AR1242341 (Sig #1); AR1242342 (Sig #2)
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:49:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:58:55 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1660-39866.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 08:52:10 2011
Response Via : Initial Calibration

CC Data File: P39996.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	24.801	22.482	E6	9.4	99
2		AR1016-1	851.872	823.619	E3	3.3	110
3		AR1016-2	849.316	786.861	E3	7.4	99
4		AR1016-3	404.372	367.608	E3	9.1	97
5		AR1260-1	1.218	1.098	E6	9.8	98
6		AR1260-2	1.402	1.252	E6	10.7	98
7		AR1260-3	1070.981	919.018	E3	14.2	94
8	S	Decachlorobiphenyl	17.493	15.492	E6	11.4	99

Signal #2
CC Data File: P39996.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	21.078	20.666	E6	2.0	105
2		AR1016-1	800.313	763.309	E3	4.6	104
3		AR1016-2	706.629	643.324	E3	9.0	96
4		AR1016-3	507.423	501.262	E3	1.2	107
5		AR1260-1	1055.085	978.678	E3	7.2	101
6		AR1260-2	734.180	727.618	E3	0.9	105
7		AR1260-3	850.164	743.235	E3	12.6	96
8	s	Decachlorobiphenyl	18.900	16.157	E6	14.5	95

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39996.D(Signal #1) P39996.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 12:38 (Signal #1); 12/28/11 13:08 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660351 (Sig #1); AR1660352 (Sig #2)
Misc : AR1660351 (Sig #1); AR1660352 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 13:58:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	449.6E6	413.3E6	18.130	19.609
	Spiked Amount 60.000	Range 18 - 90		Recovery =		30.22%	32.68%
8)	s Decachlorobiphen	18.82	17.85	619.7E6	646.3E6	35.425	34.195
	Spiked Amount 120.000			Recovery =		29.52%	28.50%
	Target Compounds						
2)	AR1016-1	8.40	8.29	329.4E6	305.3E6	386.734	381.505
3)	AR1016-2	9.54	9.40	314.7E6	257.3E6	370.586	364.165
4)	AR1016-3	9.92	9.52	147.0E6	200.5E6	363.633	395.144
5)	AR1260-1	12.98	12.51	439.2E6	391.5E6	360.644	371.033
6)	AR1260-2	13.40	13.31	501.0E6	291.0E6	357.366	396.425
7)	AR1260-3	14.94	14.34	367.6E6	297.3E6	343.243	349.690m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode E4460 init/date 12/28/11

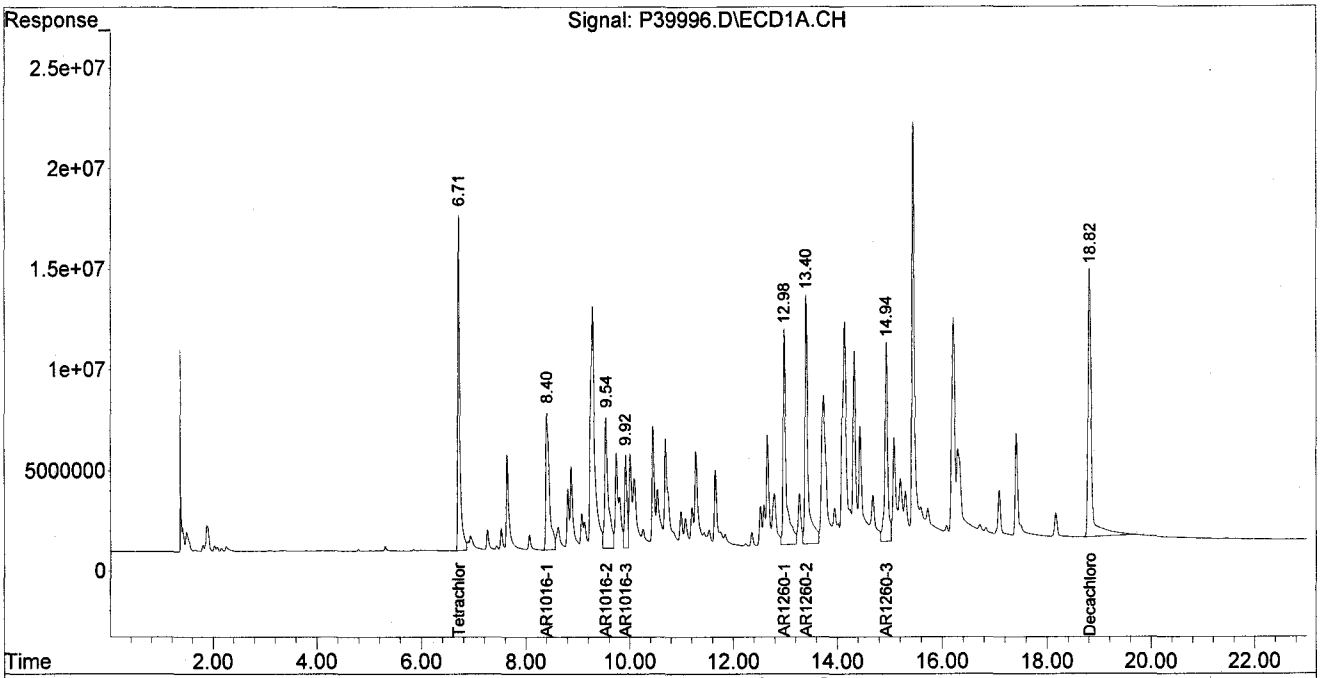
1413

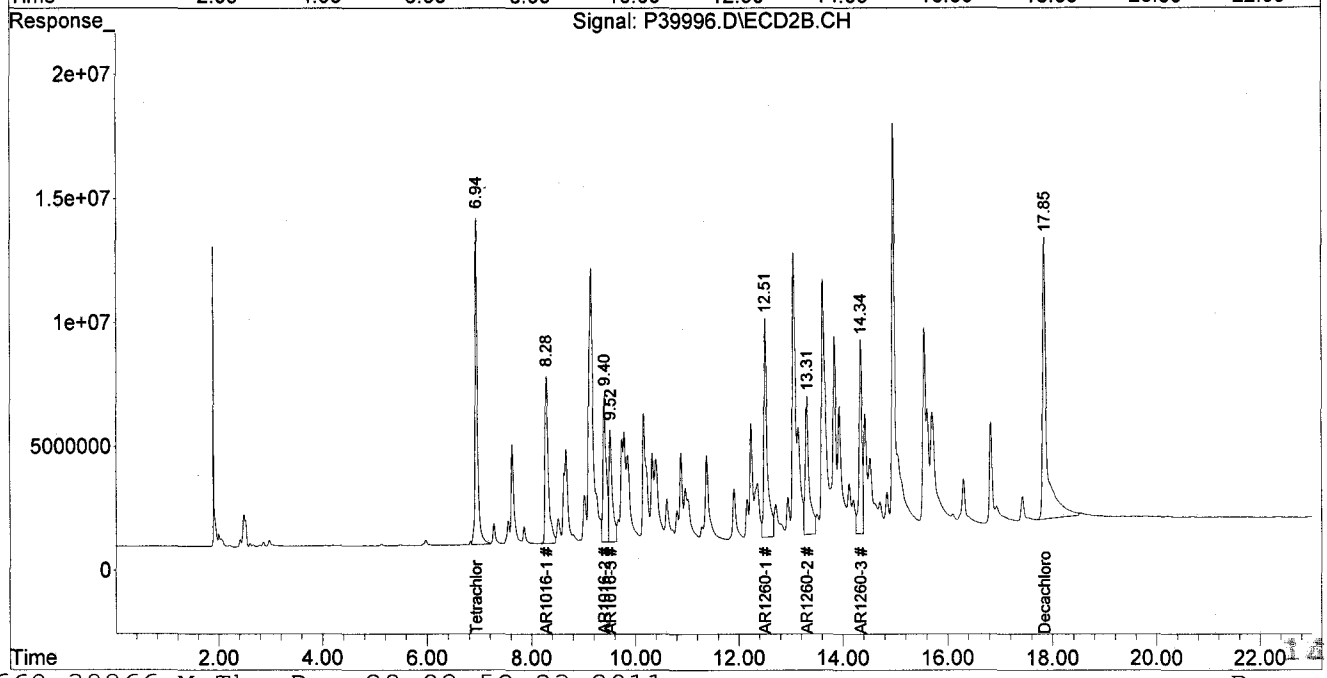
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39996.D(Signal #1) P39996.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 12:38 (Signal #1); 12/28/11 13:08 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660351 (Sig #1); AR1660352 (Sig #2)
Misc : AR1660351 (Sig #1); AR1660352 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 13:58:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1221-MOD-2207-399952.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 08:52:34 2011
Response Via : Initial Calibration

CC Data File: P39997.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.791	22.627	E6	12.3	92
2		AR1221-1	249.122	222.520	E3	10.7	90
3		AR1221-2	154.223	137.437	E3	10.9	87
4		AR1221-3	663.015	628.102	E3	5.3	93
5	S	Decachlorobiphenyl	17.911	16.742	E6	6.5	96

Signal #2
CC Data File: P39997.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.376	22.787	E6	-1.8	107
2		AR1221-1	54.291	54.855	E3	-1.0	108
3		AR1221-2	223.074	239.280	E3	-7.3	106
4		AR1221-3	585.425	596.744	E3	-1.9	108
5	s	Decachlorobiphenyl	19.600	18.333	E6	6.5	100

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39997.D(Signal #1) P39997.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 13:08 (Signal #1); 12/28/11 13:39 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221351 (Sig #1); AR1221352 (Sig #2)
Misc : AR1221351 (Sig #1); AR1221352 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:06:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:19:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	452.5E6	455.7E6	17.547	20.368
	Spiked Amount 60.000	Range 18 - 90		Recovery =		29.24%	33.95%
5)	s Decachlorobiphen	18.82	17.84	669.7E6	733.3E6	37.391m	37.414
	Spiked Amount 120.000			Recovery =		31.16%	31.18%
	Target Compounds						
2)	AR1221-1	7.26	6.68	44503956	10970902	178.643	202.075
3)	AR1221-2	7.52	7.27	27487427	47856042	178.232	214.530
4)	AR1221-3	7.64	7.62	125.6E6	119.3E6	189.469	203.867

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

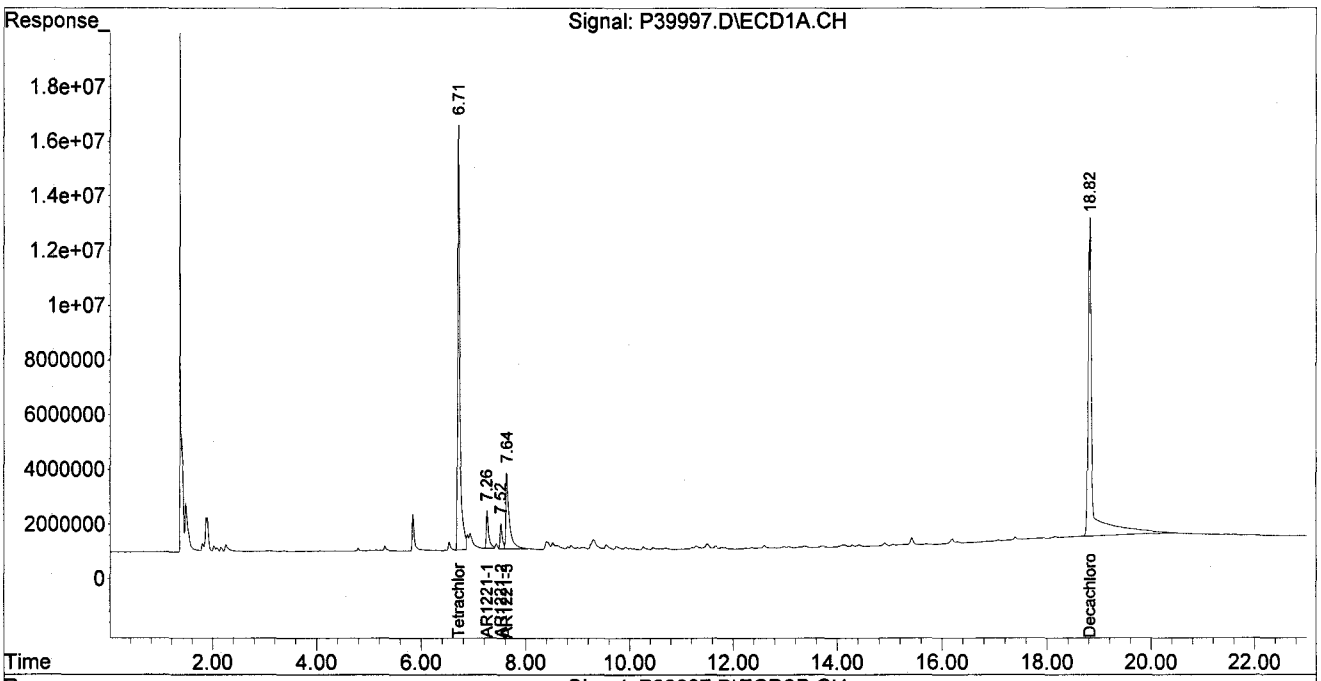
ORIGINAL
Case 42040 SDG F4XP0
Episode P4460 init/date 12/29/11

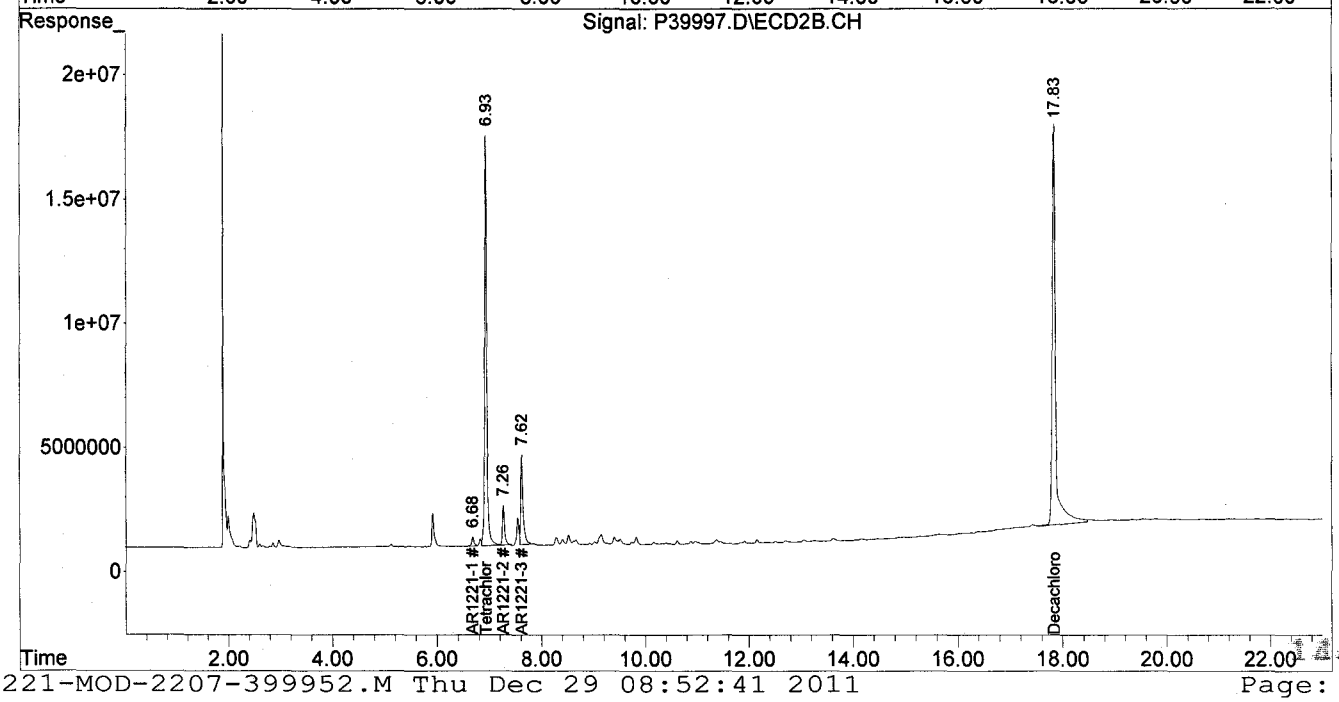
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39997.D(Signal #1) P39997.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 13:08 (Signal #1); 12/28/11 13:39 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221351 (Sig #1); AR1221352 (Sig #2)
Misc : AR1221351 (Sig #1); AR1221352 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:06:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:19:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



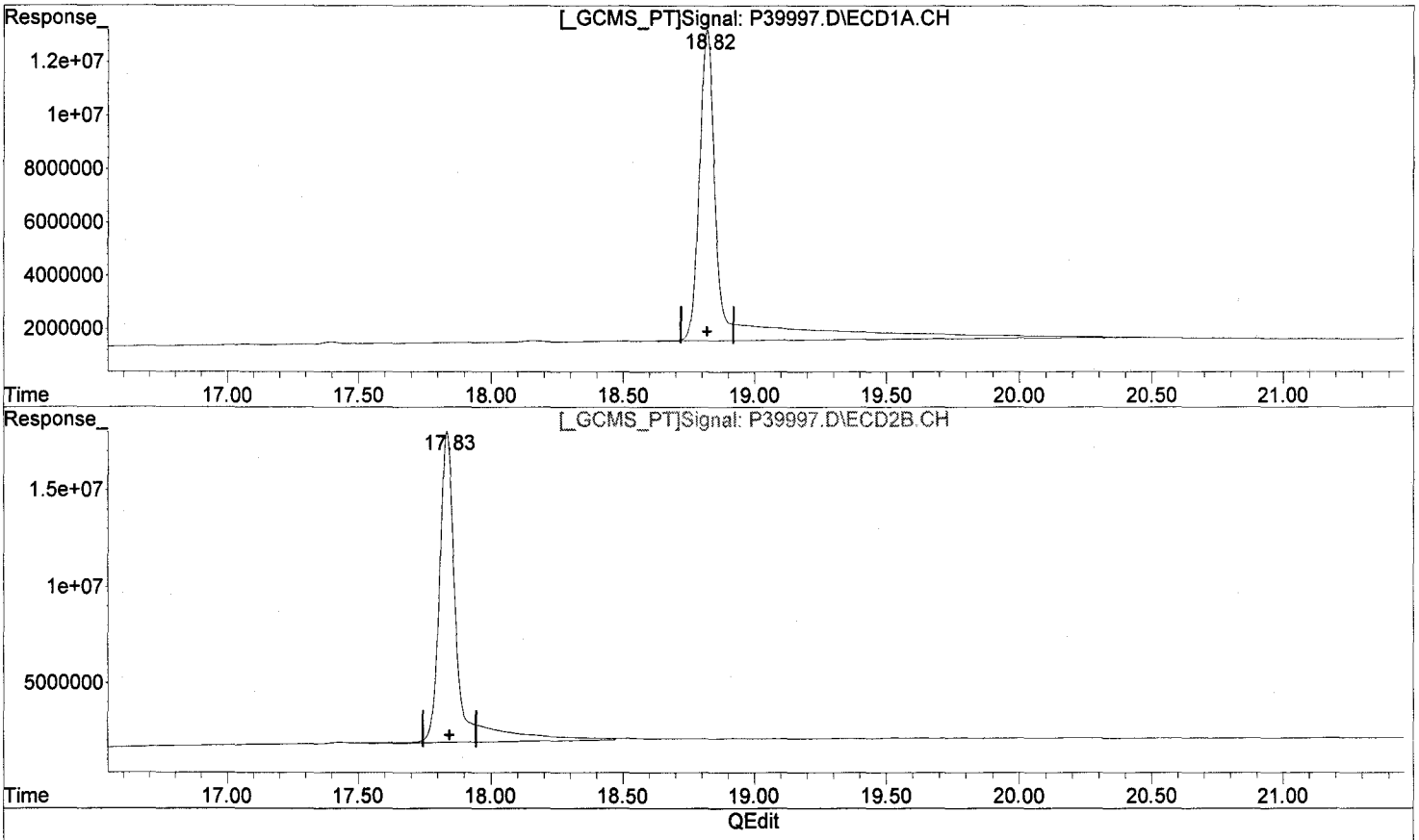


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39997.D(Signal #1) P39997.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 13:08 (Signal #1); 12/28/11 13:39 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221351 (Sig #1); AR1221352 (Sig #2)
Misc : AR1221351 (Sig #1); AR1221352 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:06:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Tue Dec 27 14:19:30 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



(5) Decachlorobiphenyl (s)
18.82min 37.391ng/mL m
response 669689459

(5) Decachlorobiphenyl #2 (s)
17.84min 37.414ng/mL
response 733309502

(+) = Expected Retention Time

Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1242-MOD-2207-39901.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 08:53:06 2011
Response Via : Initial Calibration

CC Data File: P39998.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.717	24.770	E6	3.7	100
2		AR1242-1	302.213	316.557	E3	-4.7	104
3		AR1242-2	408.480	445.661	E3	-9.1	105
4		AR1242-3	262.496	284.751	E3	-8.5	103
5	S	Decachlorobiphenyl	16.420	16.583	E6	-1.0	106

Signal #2
CC Data File: P39998.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.205	22.003	E6	0.9	106
2		AR1242-1	272.412	299.019	E3	-9.8	117
3		AR1242-2	418.057	419.341	E3	-0.3	102
4		AR1242-3	223.725	238.710	E3	-6.7	116
5	s	Decachlorobiphenyl	12.510	18.536	E6	-48.2#	175#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39998.D(Signal #1)           P39998.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/28/11 13:39 (Signal #1); 12/28/11 14:09 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1242351 (Sig #1); AR1242352 (Sig #2)
Misc      : AR1242351 (Sig #1); AR1242352 (Sig #2)
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:47:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	495.4E6	440.1E6	19.264	19.818
	Spiked Amount 60.000 Range 18 - 90 Recovery =					32.11%	33.03%
5)	s Decachlorobiphen	18.82	17.84	663.3E6	741.5E6	40.398	59.267 #
	Spiked Amount 120.000 Recovery =					33.66%	49.39%
	Target Compounds						
2)	AR1242-1	9.92	10.32	63311343	59803751	209.493m	219.534
3)	AR1242-2	10.45	10.39	89132249	83868214	218.205	200.614
4)	AR1242-3	11.08	10.80	56950296	47741942	216.957	213.396m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date [illegible]

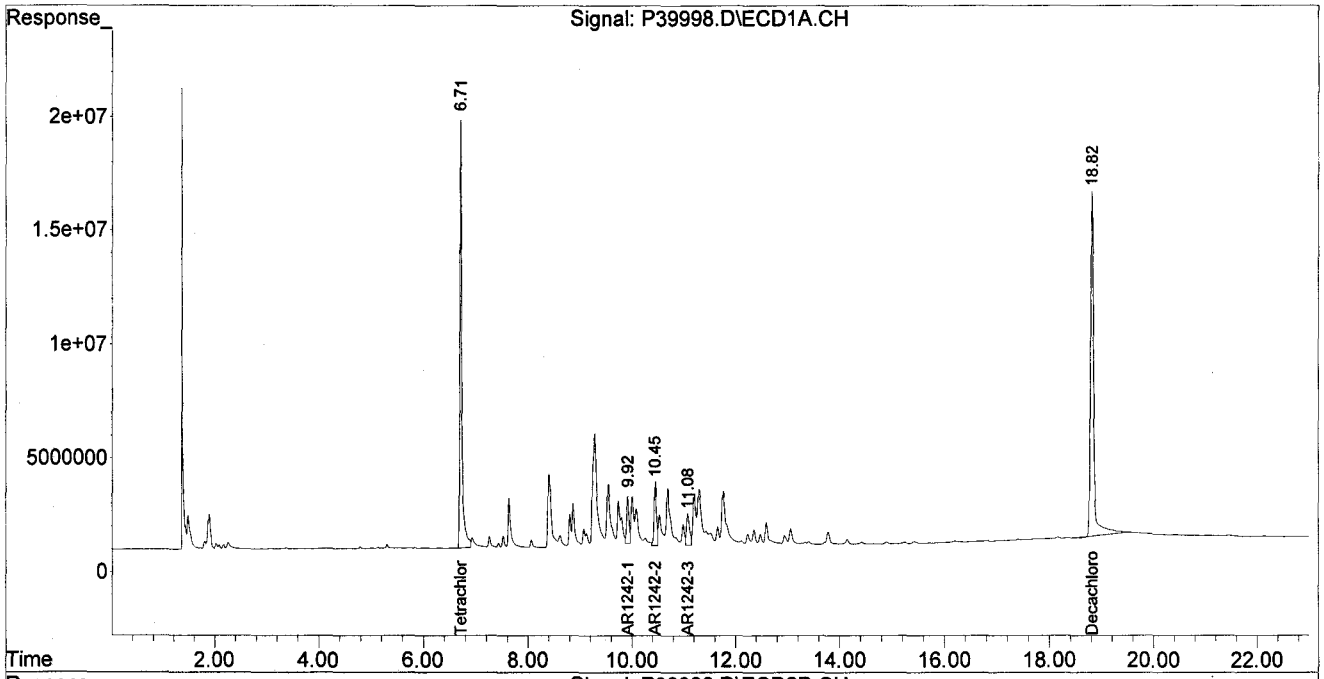
1458

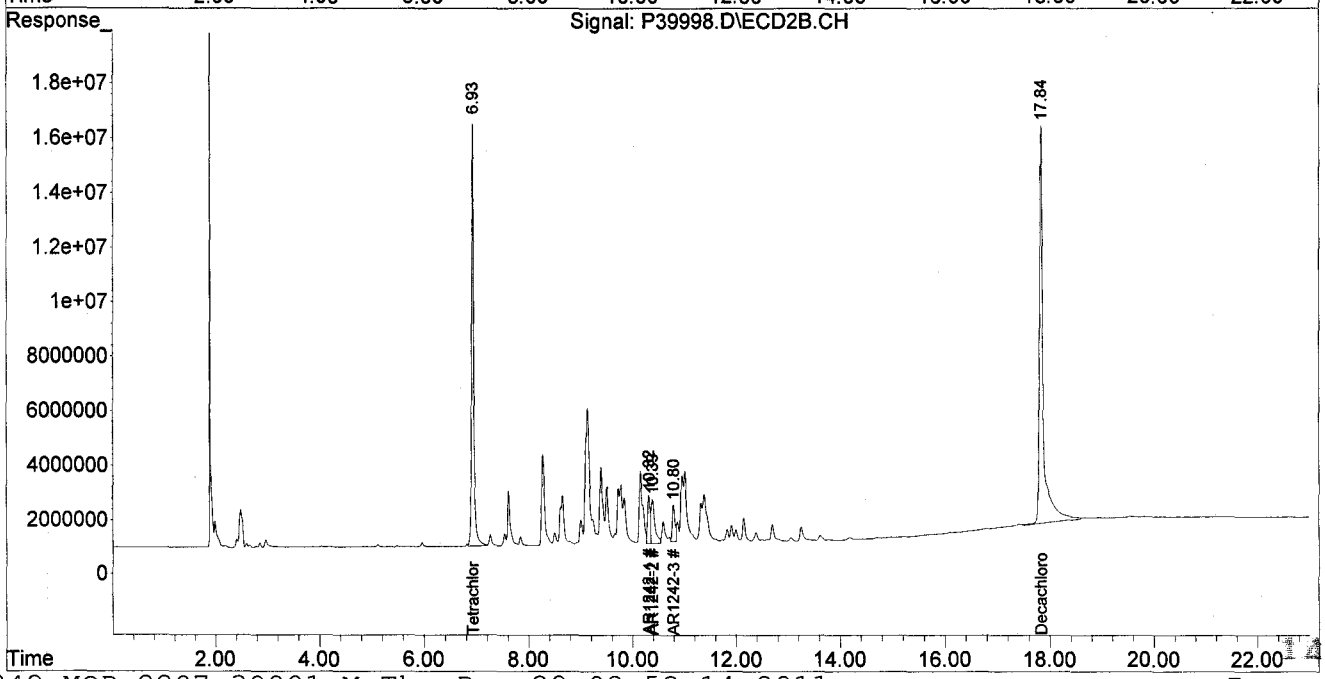
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39998.D(Signal #1) P39998.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 13:39 (Signal #1); 12/28/11 14:09 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242351 (Sig #1); AR1242352 (Sig #2)
Misc : AR1242351 (Sig #1); AR1242352 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:47:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



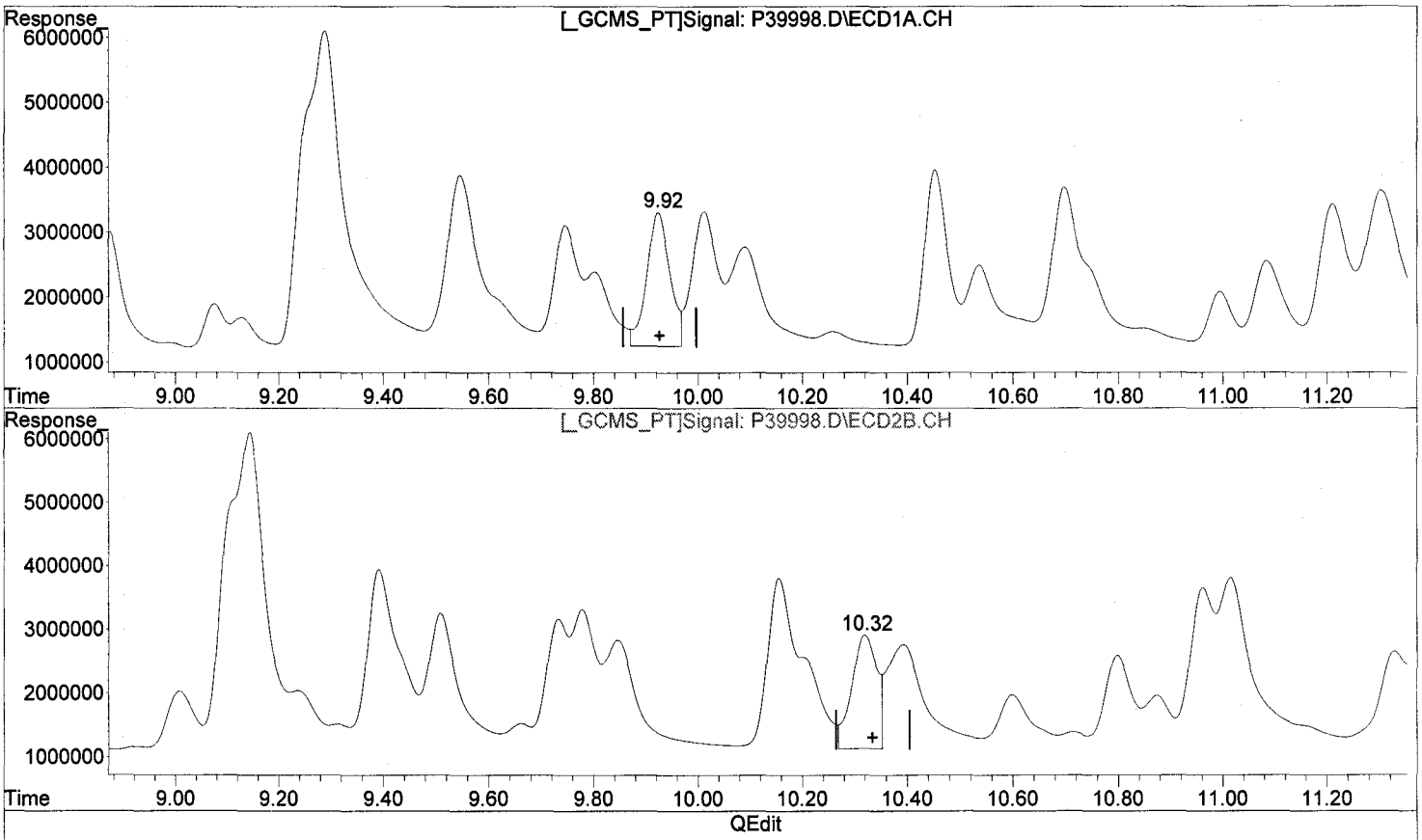


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39998.D(Signal #1) P39998.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 13:39 (Signal #1); 12/28/11 14:09 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242351 (Sig #1); AR1242352 (Sig #2)
Misc : AR1242351 (Sig #1); AR1242352 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:47:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



(2) AR1242-1
9.92min 209.493ng/mL m
response 63311343

(2) AR1242-1 #2
10.32min 219.534ng/mL
response 59803751

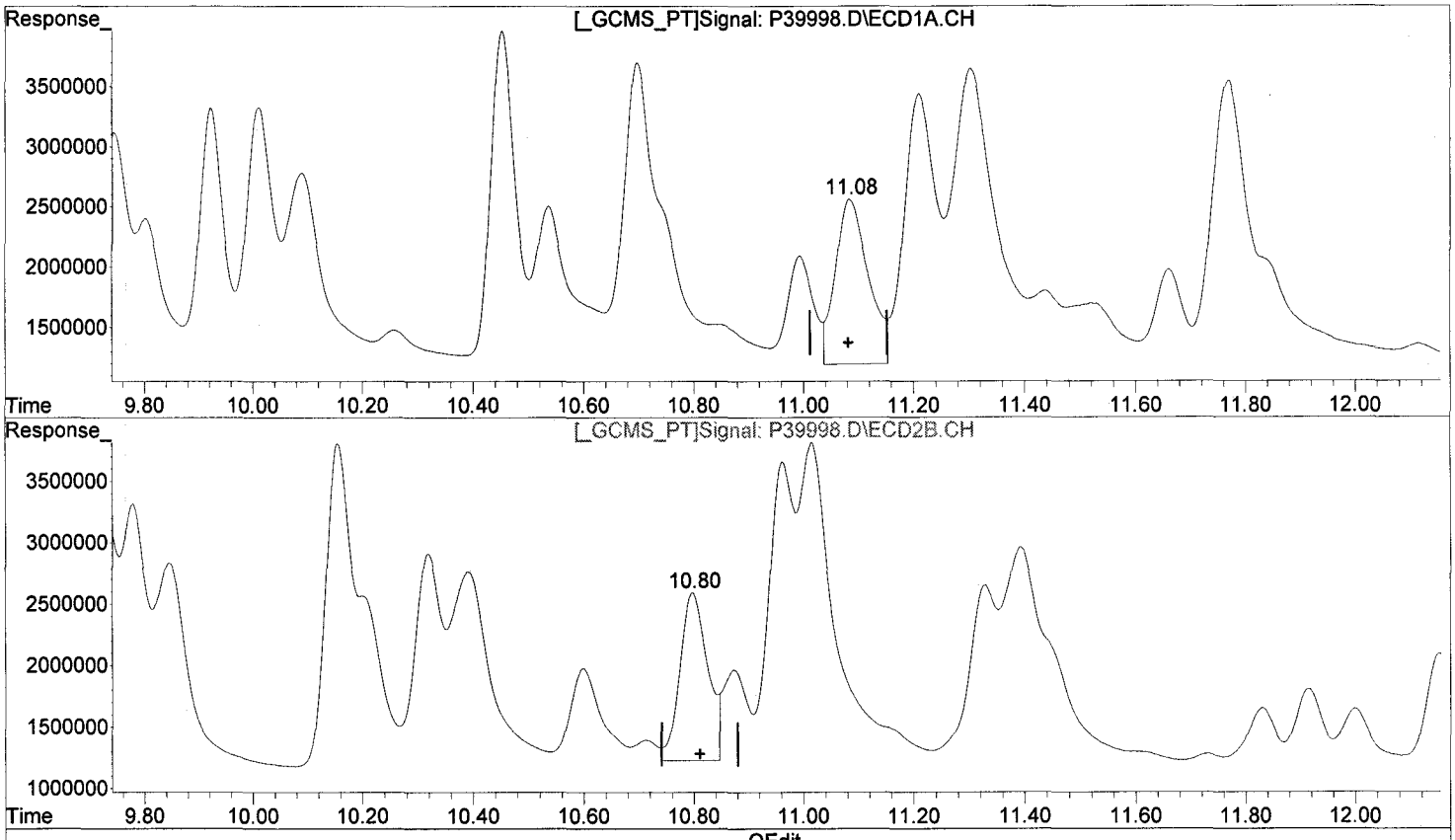
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39998.D(Signal #1) P39998.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 13:39 (Signal #1); 12/28/11 14:09 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242351 (Sig #1); AR1242352 (Sig #2)
Misc : AR1242351 (Sig #1); AR1242352 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:47:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



QEdit

(4) AR1242-3
11.08min 216.957ng/mL
response 56950296

(4) AR1242-3 #2
10.80min 213.396ng/mL m
response 47741942

(+) = Expected Retention Time

Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1254-MOD-2207-39890.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 08:54:44 2011
Response Via : Initial Calibration

CC Data File: P39999.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.387	23.655	E6	6.8	95
2		AR1254-1	958.391	917.401	E3	4.3	93
3		AR1254-2	726.340	669.146	E3	7.9	88
4		AR1254-3	757.953	779.196	E3	-2.8	99
5	S	Decachlorobiphenyl	18.629	17.394	E6	6.6	99

Signal #2
CC Data File: P39999.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	20.607	21.087	E6	-2.3	109
2		AR1254-1	721.706	676.145	E3	6.3	98
3		AR1254-2	1.107	1.114	E6	-0.6	104
4		AR1254-3	939.616	924.955	E3	1.6	102
5	s	Decachlorobiphenyl	19.210	18.126	E6	5.6	100

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39999.D(Signal #1) P39999.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 14:09 (Signal #1); 12/28/11 14:40 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254351 (Sig #1); AR1254352 (Sig #2)
Misc : AR1254351 (Sig #1); AR1254352 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:16:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	473.1E6	421.7E6	18.635	20.466
	Spiked Amount 60.000	Range 18 - 90		Recovery =		31.06%	34.11%
5)	s Decachlorobiphen	18.82	17.84	695.8E6	725.0E6	37.349m	37.744
	Spiked Amount 120.000			Recovery =		31.12%	31.45%
	Target Compounds						
2)	AR1254-1	11.28	11.91	183.5E6	135.2E6	191.446	187.374
3)	AR1254-2	12.36	12.70	133.8E6	222.7E6	184.252	201.136
4)	AR1254-3	13.41	13.06	155.8E6	185.0E6	205.605	196.879

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

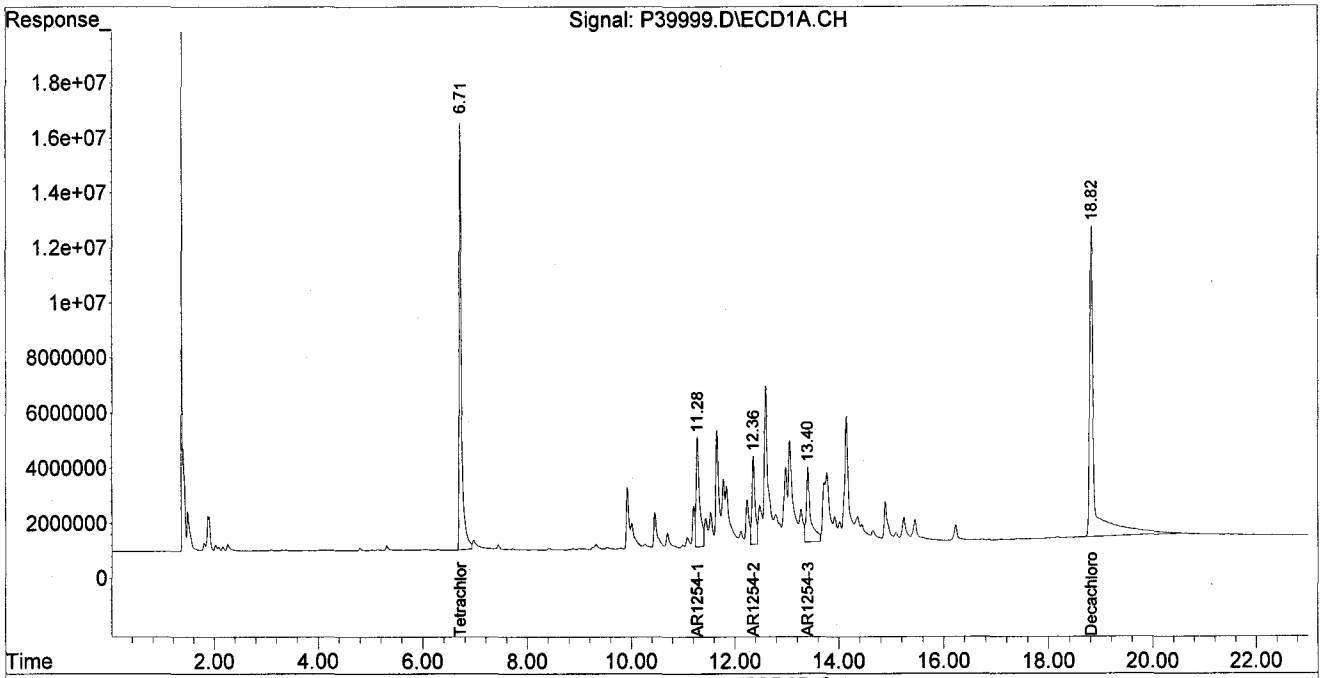
ORIGINAL
for 42040 SDG F4XP0
Episode P-4460 init/date 1/13/12

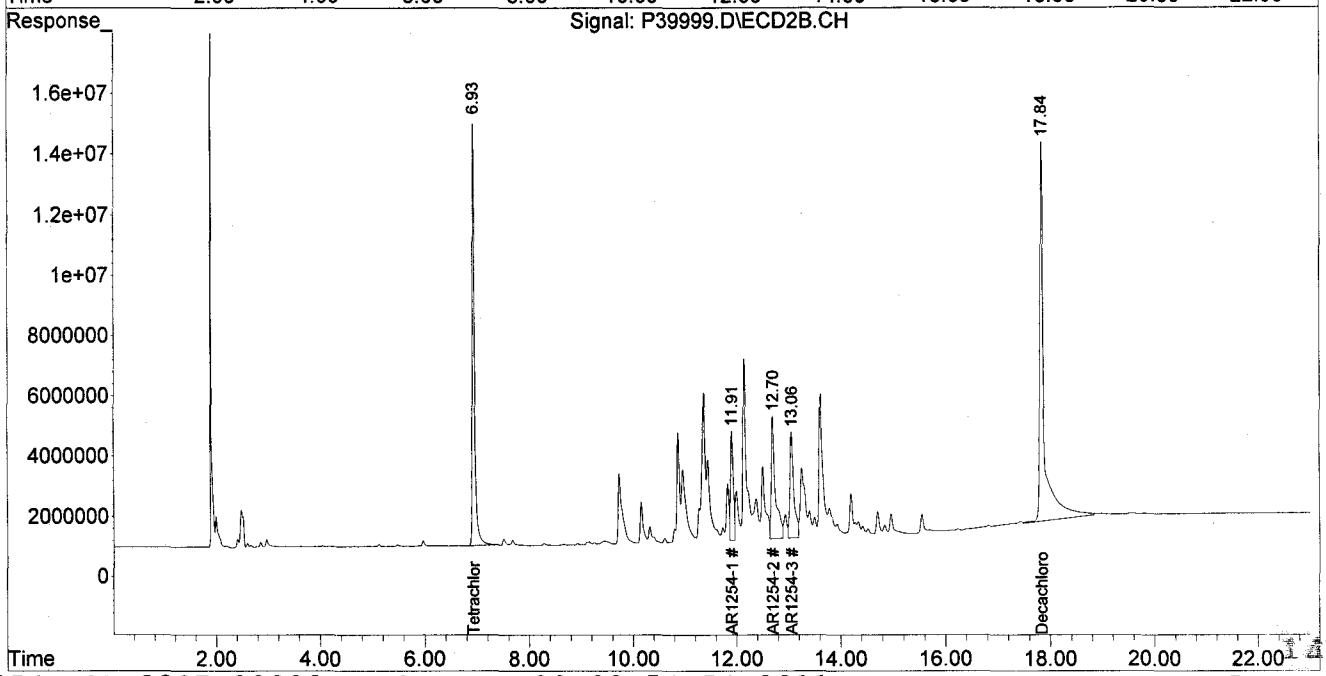
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39999.D(Signal #1) P39999.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 14:09 (Signal #1); 12/28/11 14:40 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254351 (Sig #1); AR1254352 (Sig #2)
Misc : AR1254351 (Sig #1); AR1254352 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:16:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1660-39866.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:17:39 2011
Response Via : Initial Calibration

CC Data File: P40017.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	24.801	24.794	E6	0.0	109
2		AR1016-1	851.872	903.618	E3	-6.1	120
3		AR1016-2	849.316	869.010	E3	-2.3	109
4		AR1016-3	404.372	410.880	E3	-1.6	108
5		AR1260-1	1.218	1.228	E6	-0.9	110
6		AR1260-2	1.402	1.398	E6	0.3	110
7		AR1260-3	1070.981	1076.618	E3	-0.5	110
8	S	Decachlorobiphenyl	17.493	18.376	E6	-5.0	117

Signal #2
CC Data File: P40017.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	21.078	22.164	E6	-5.2	113
2		AR1016-1	800.313	816.325	E3	-2.0	111
3		AR1016-2	706.629	703.828	E3	0.4	105
4		AR1016-3	507.423	521.108	E3	-2.7	111
5		AR1260-1	1055.085	1052.088	E3	0.3	108
6		AR1260-2	734.180	747.498	E3	-1.8	108
7		AR1260-3	850.164	817.148	E3	3.9	106
8	s	Decachlorobiphenyl	18.900	17.754	E6	6.1	104

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40017.D(Signal #1) P40017.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 23:18 (Signal #1); 12/28/11 23:48 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660361 (Sig #1); AR1660362 (Sig #2)
Misc : AR1660361 (Sig #1); AR1660362 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:25:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.72	6.93	495.9E6	443.3E6	19.994	21.030
	Spiked Amount 60.000 Range 18 - 90 Recovery =					33.32%	35.05%
8) s	Decachlorobiphen	18.82	17.83	735.0E6	710.2E6	42.018	37.576
	Spiked Amount 120.000 Recovery =					35.02%	31.31%
	Target Compounds						
2)	AR1016-1	8.41	8.28	361.4E6	326.5E6	424.298	408.003
3)	AR1016-2	9.55	9.39	347.6E6	281.5E6	409.275	398.415
4)	AR1016-3	9.93	9.51	164.4E6	208.4E6	406.438	410.788
5)	AR1260-1	12.99	12.50	491.3E6	420.8E6	403.425	398.864
6)	AR1260-2	13.41	13.30	559.0E6	299.0E6	398.760	407.256
7)	AR1260-3	14.94	14.33	430.6E6	326.9E6	402.105	384.466

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date [illegible]

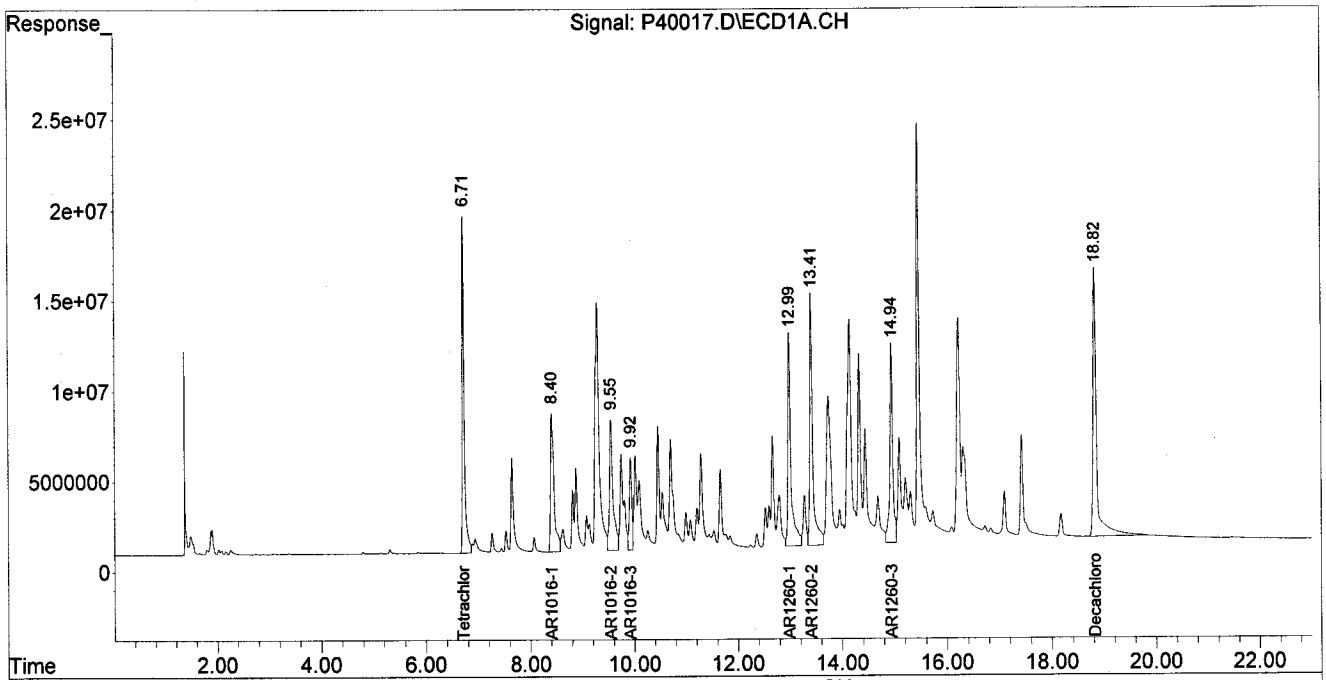
1458

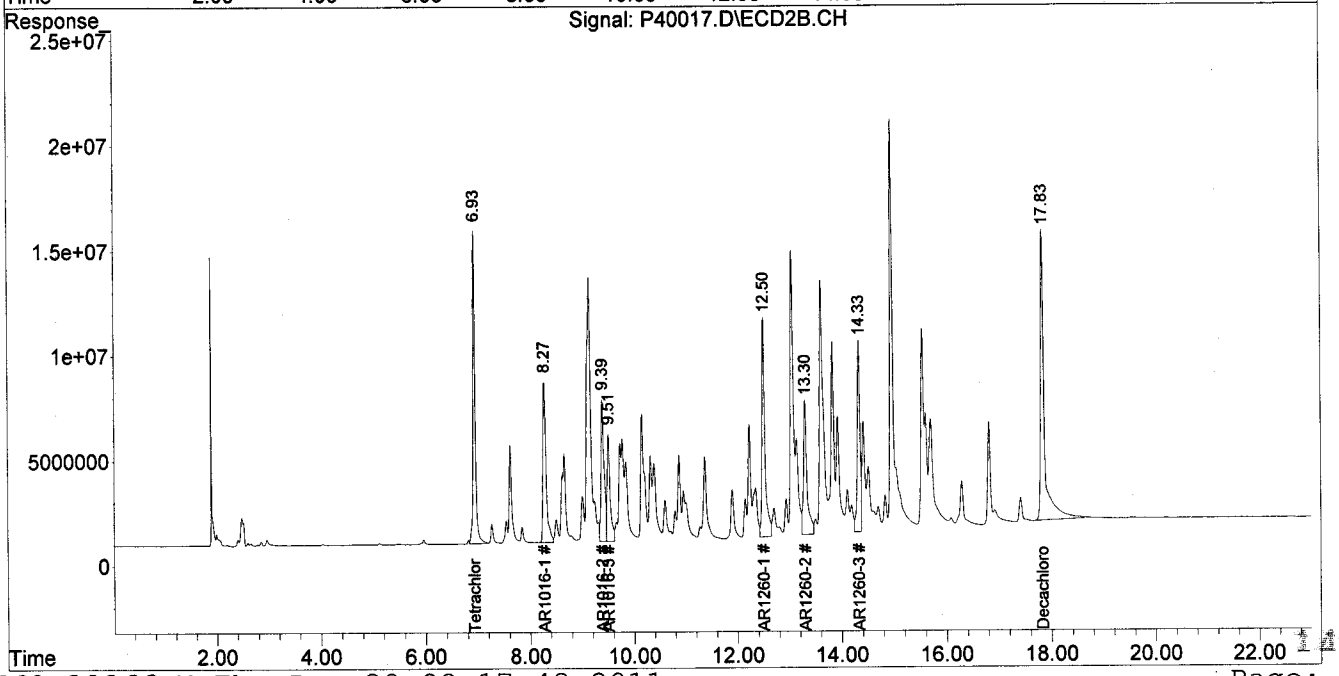
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40017.D(Signal #1) P40017.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 23:18 (Signal #1); 12/28/11 23:48 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1660361 (Sig #1); AR1660362 (Sig #2)
Misc : AR1660361 (Sig #1); AR1660362 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:25:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1221-MOD-2207-399952.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:17:59 2011
Response Via : Initial Calibration

CC Data File: P40018.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.791	25.081	E6	2.8	102
2		AR1221-1	249.122	249.651	E3	-0.2	101
3		AR1221-2	154.223	160.160	E3	-3.8	102
4		AR1221-3	663.015	669.864	E3	-1.0	99
5	S	Decachlorobiphenyl	17.911	17.241	E6	3.7	99

Signal #2
CC Data File: P40018.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.376	22.060	E6	1.4	104
2		AR1221-1	54.291	49.942	E3	8.0	98
3		AR1221-2	223.074	229.824	E3	-3.0	102
4		AR1221-3	585.425	573.001	E3	2.1	104
5	s	Decachlorobiphenyl	19.600	17.216	E6	12.2	94

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40018.D(Signal #1) P40018.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 23:48 (Signal #1); 12/29/11 00:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221361 (Sig #1); AR1221362 (Sig #2)
Misc : AR1221361 (Sig #1); AR1221362 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:26:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:55 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	501.6E6	441.2E6	19.450	19.717
	Spiked Amount 60.000	Range 18 - 90		Recovery =		32.42%	32.86%
5)	s Decachlorobiphen	18.82	17.83	689.7E6	688.6E6	38.505	35.134
	Spiked Amount 120.000			Recovery =		32.09%	29.28%
	Target Compounds						
2)	AR1221-1	7.26	6.68	49930188	9988463	200.424	183.980
3)	AR1221-2	7.53	7.26	32032058	45964806	207.700	206.052
4)	AR1221-3	7.64	7.62	134.0E6	114.6E6	202.066	195.756

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode 1-4460 init/date 1/12/12

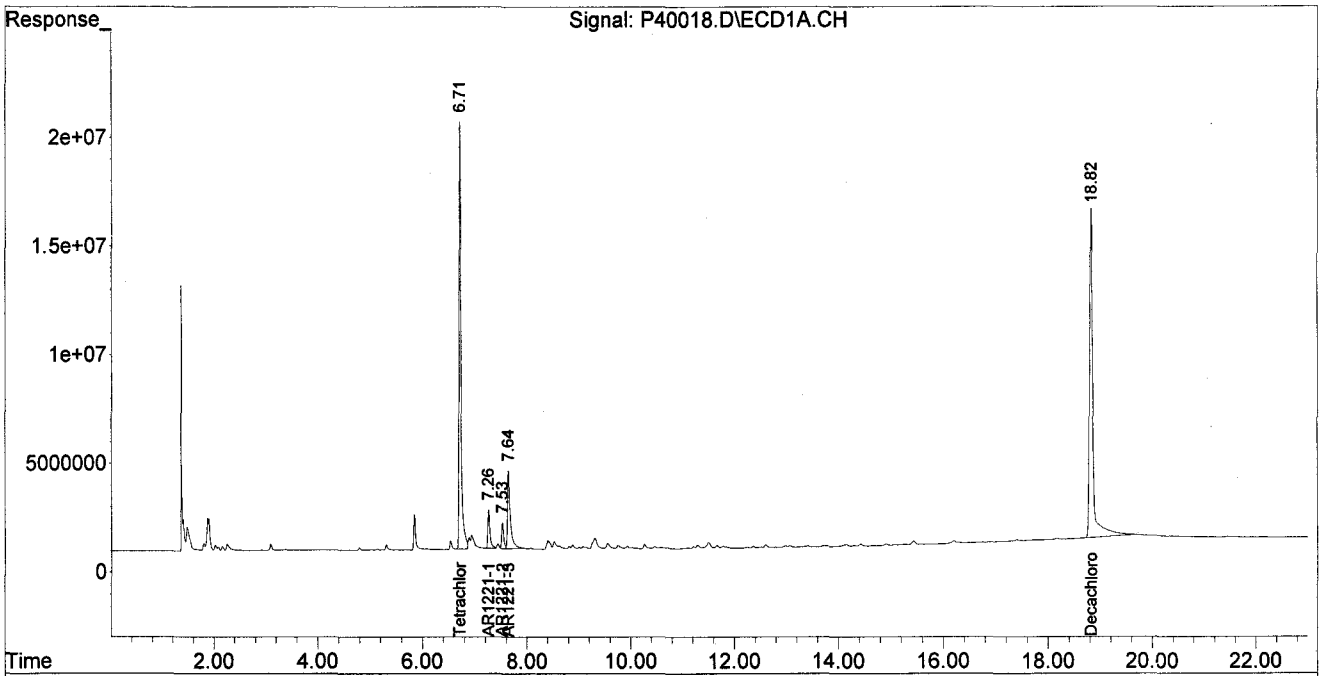
1461

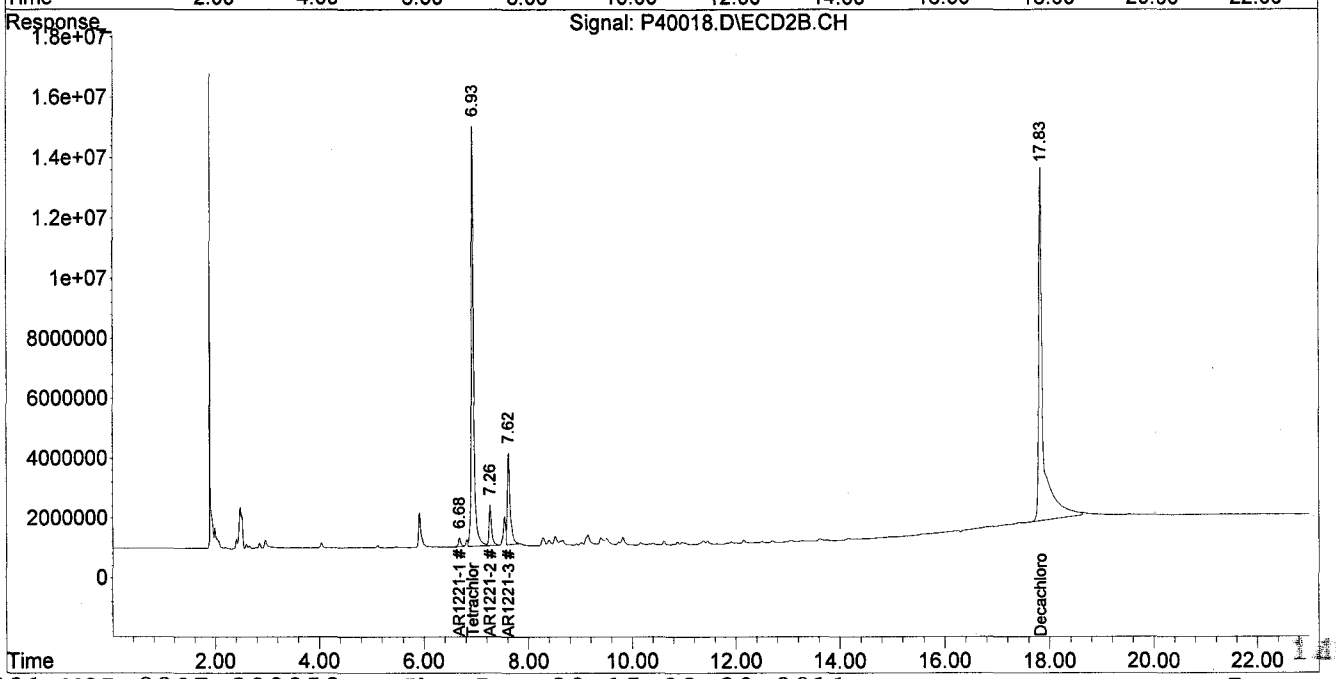
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40018.D(Signal #1) P40018.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 23:48 (Signal #1); 12/29/11 00:19 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1221361 (Sig #1); AR1221362 (Sig #2)
Misc : AR1221361 (Sig #1); AR1221362 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:26:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1221-MOD-2207-399952.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:55 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1242-MOD-2207-39901.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:19:20 2011
Response Via : Initial Calibration

CC Data File: P40019.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.717	24.384	E6	5.2	98
2		AR1242-1	302.213	342.314	E3	-13.3	113
3		AR1242-2	408.480	437.805	E3	-7.2	103
4		AR1242-3	262.496	289.315	E3	-10.2	104
5	S	Decachlorobiphenyl	16.420	17.025	E6	-3.7	109

Signal #2
CC Data File: P40019.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	22.205	22.841	E6	-2.9	110
2		AR1242-1	272.412	318.473	E3	-16.9	125
3		AR1242-2	418.057	424.599	E3	-1.6	103
4		AR1242-3	223.725	272.813	E3	-21.9	133
5	s	Decachlorobiphenyl	12.510	19.341	E6	-54.6#	183#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40019.D(Signal #1) P40019.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/29/11 00:19 (Signal #1); 12/29/11 00:49 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242361 (Sig #1); AR1242362 (Sig #2)
Misc : AR1242361 (Sig #1); AR1242362 (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:26:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.93	487.7E6	456.8E6	18.964	20.573
	Spiked Amount 60.000	Range 18 - 90		Recovery =		31.61%	34.29%
5)	s Decachlorobiphen	18.82	17.83	681.0E6	773.6E6	41.475	61.840 #
	Spiked Amount 120.000			Recovery =		34.56%	51.53%
	Target Compounds						
2)	AR1242-1	9.93	10.32	68462728	63694510	226.538	233.816
3)	AR1242-2	10.46	10.39	87561069	84919732	214.358	203.130
4)	AR1242-3	11.08	10.80	57863031	54562622	220.434	243.883

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

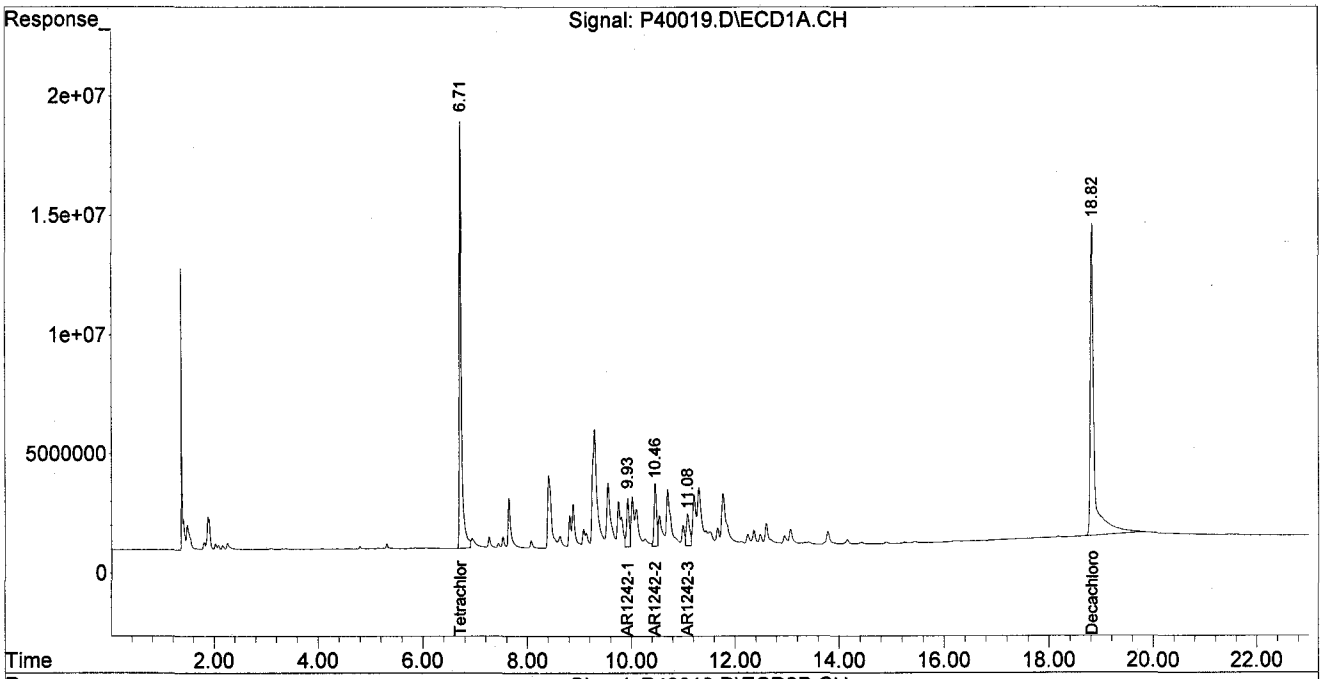
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date 1/4/14

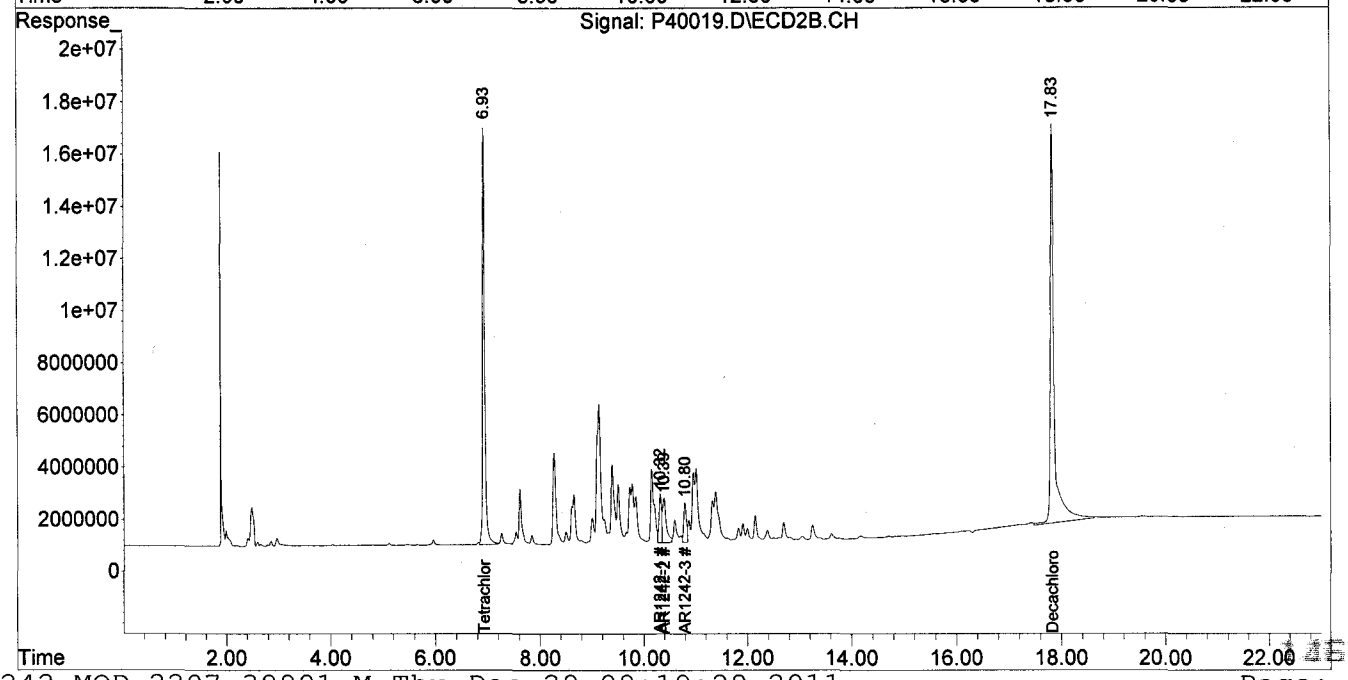
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40019.D(Signal #1) P40019.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/29/11 00:19 (Signal #1); 12/29/11 00:49 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1242361 (Sig #1); AR1242362 (Sig #2)
Misc : AR1242361 (Sig #1); AR1242362 (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:26:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 15:49:57 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Continuing Calibration Report P-6890

Method Path : C:\MSDCHEM\1\METHODS\
Method File : AR1254-MOD-2207-39890.M
Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
Last Update : Thu Dec 29 09:19:37 2011
Response Via : Initial Calibration

CC Data File: P40020.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	25.387	24.930	E6	1.8	100
2		AR1254-1	958.391	966.571	E3	-0.9	98
3		AR1254-2	726.340	726.898	E3	-0.1	96
4		AR1254-3	757.953	781.086	E3	-3.1	100
5	S	Decachlorobiphenyl	18.629	15.887	E6	14.7	90

Signal #2
CC Data File: P40020.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	Tetrachloro-m-xylene	20.607	22.653	E6	-9.9	117
2		AR1254-1	721.706	754.194	E3	-4.5	110
3		AR1254-2	1.107	0.989	E6	10.7	92
4		AR1254-3	939.616	976.821	E3	-4.0	108
5	s	Decachlorobiphenyl	19.210	17.504	E6	8.9	97

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40020.D(Signal #1)           P40020.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/29/11 00:49 (Signal #1); 12/29/11 01:20 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AR1254361 (Sig #1); AR1254362 (Sig #2)
Misc      : AR1254361 (Sig #1); AR1254362 (Sig #2)
ALS Vial  : 66   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:26:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	6.72	6.93	498.6E6	453.1E6	19.640	21.986
	Spiked Amount 60.000 Range 18 - 90			Recovery =		32.73%	36.64%
5) s	Decachlorobiphen	18.82	17.83	635.5E6	700.2E6	34.111	36.448
	Spiked Amount 120.000			Recovery =		28.43%	30.37%
	Target Compounds						
2)	AR1254-1	11.29	11.91	193.3E6	150.8E6	201.707	209.003
3)	AR1254-2	12.36	12.70	145.4E6	197.8E6	200.154	178.619
4)	AR1254-3	13.41	13.05	156.2E6	195.4E6	206.104	207.919

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

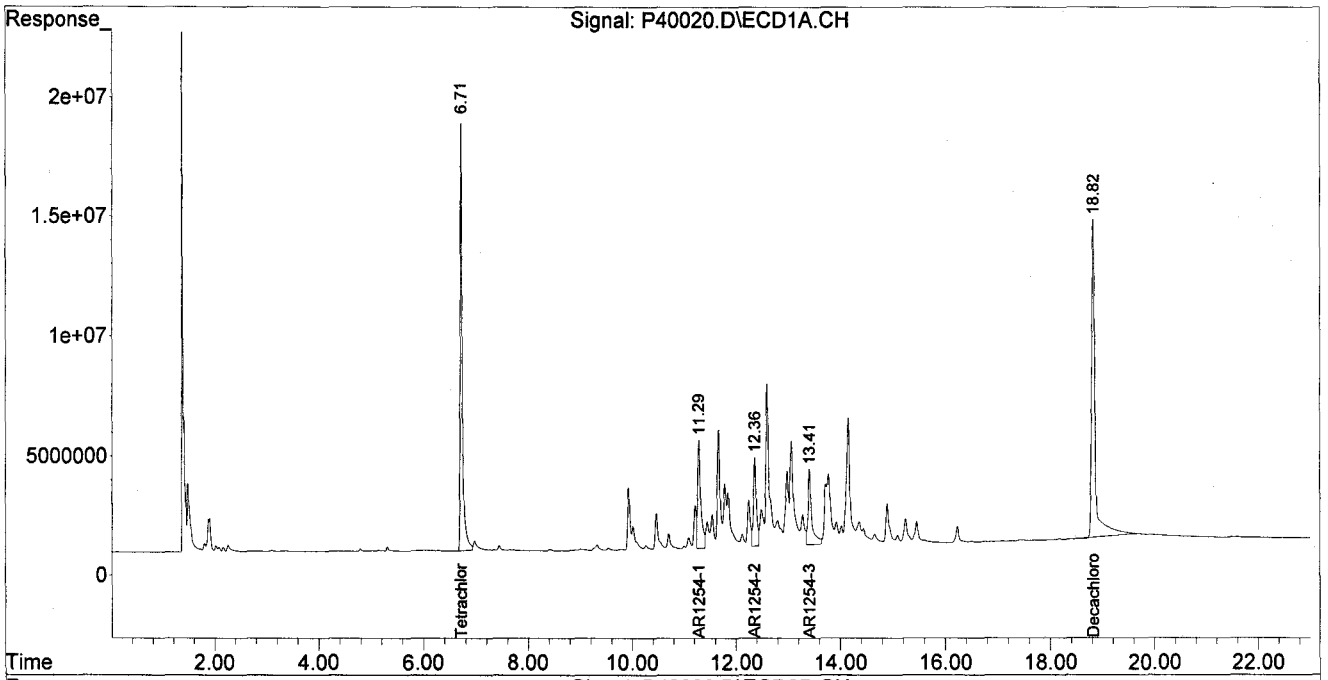
ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date [illegible]

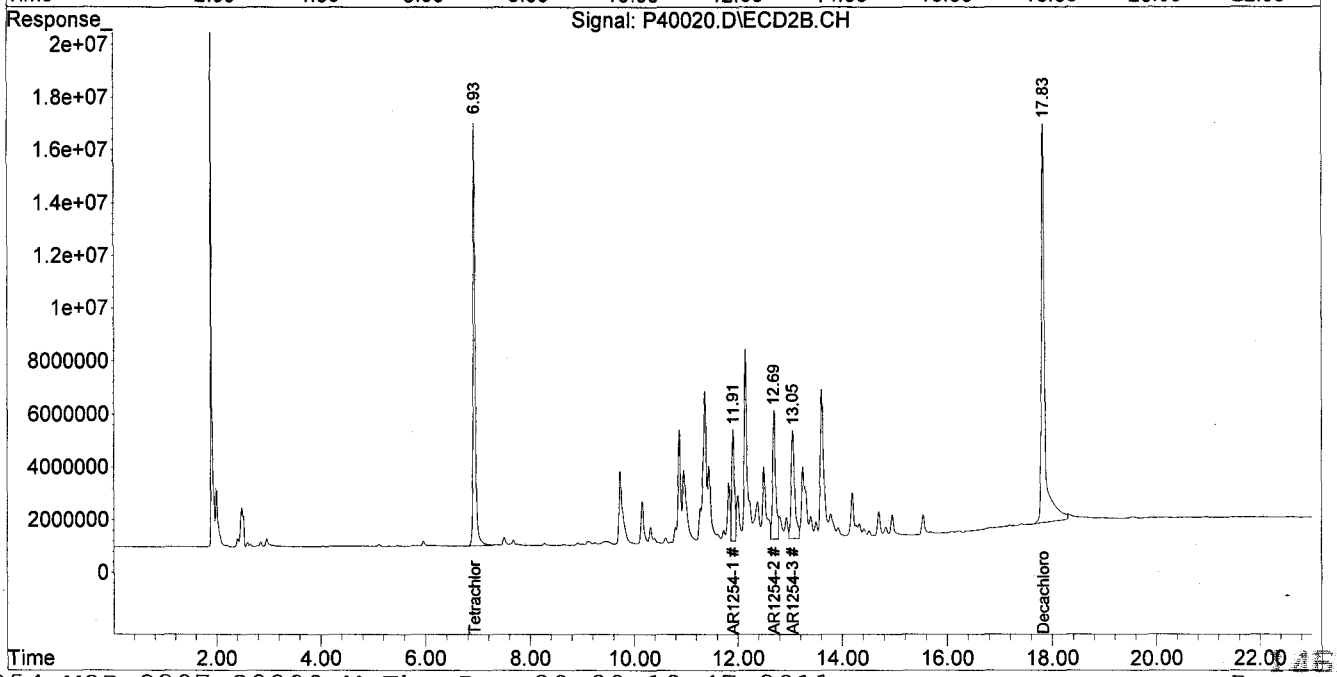
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40020.D(Signal #1) P40020.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/29/11 00:49 (Signal #1); 12/29/11 01:20 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AR1254361 (Sig #1); AR1254362 (Sig #2)
Misc : AR1254361 (Sig #1); AR1254362 (Sig #2)
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 08:26:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:59:19 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLK56(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: ABLK56

Sample wt/vol: 30.00 (g/mL) G Lab File ID: P39962

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.6	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	6.6	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.6	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39962.D(Signal #1) P39962.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 16:45 (Signal #1); 12/27/11 17:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : ABLK56 (Sig #1); ABLK56 (Sig #2)
Misc : ABLK56 30.0G/10.0ML (Sig #1); ABLK56 30.0G/10.0ML (Sig #2)
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:00:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1385.8E6	1178.1E6	55.876	55.894
Spiked Amount 60.000	Range 18 - 90		Recovery =		93.13%#	93.16%#
8) s Decachlorobiphen	18.81	17.85	1841.3E6	2307.1E6	105.261	122.071
Spiked Amount 120.000			Recovery =		87.72%	101.73%
Target Compounds						

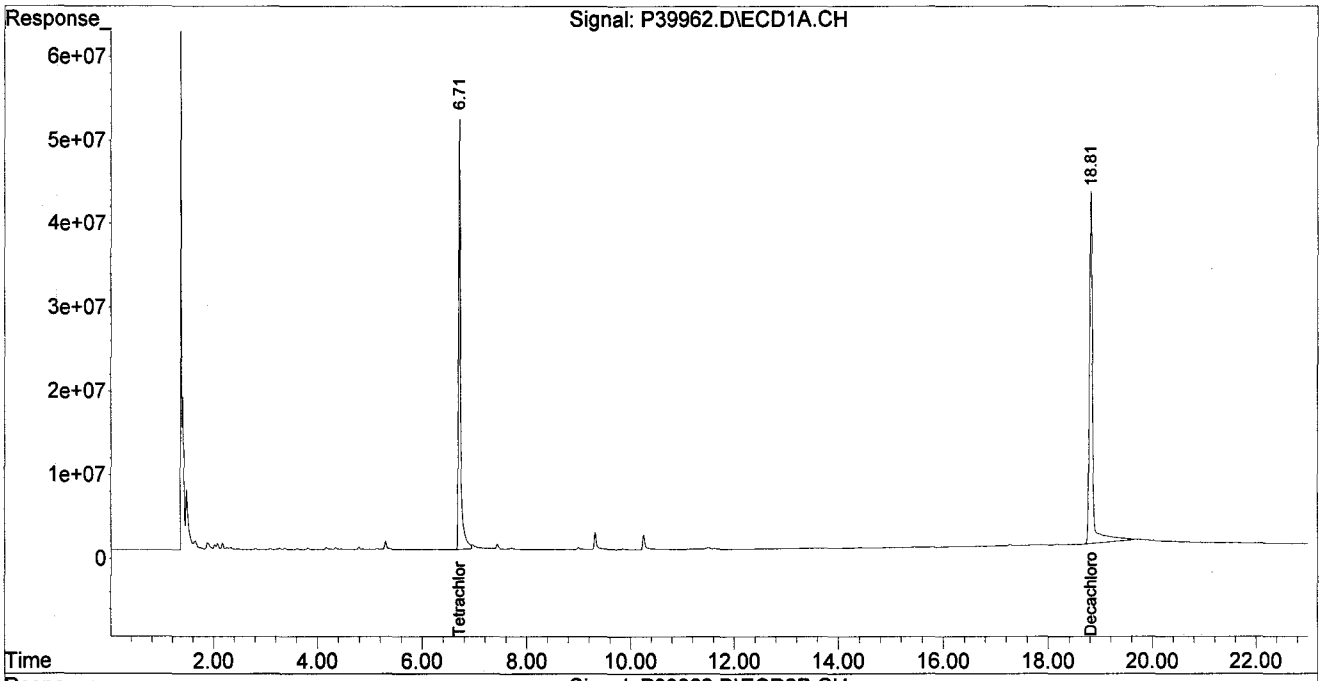
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

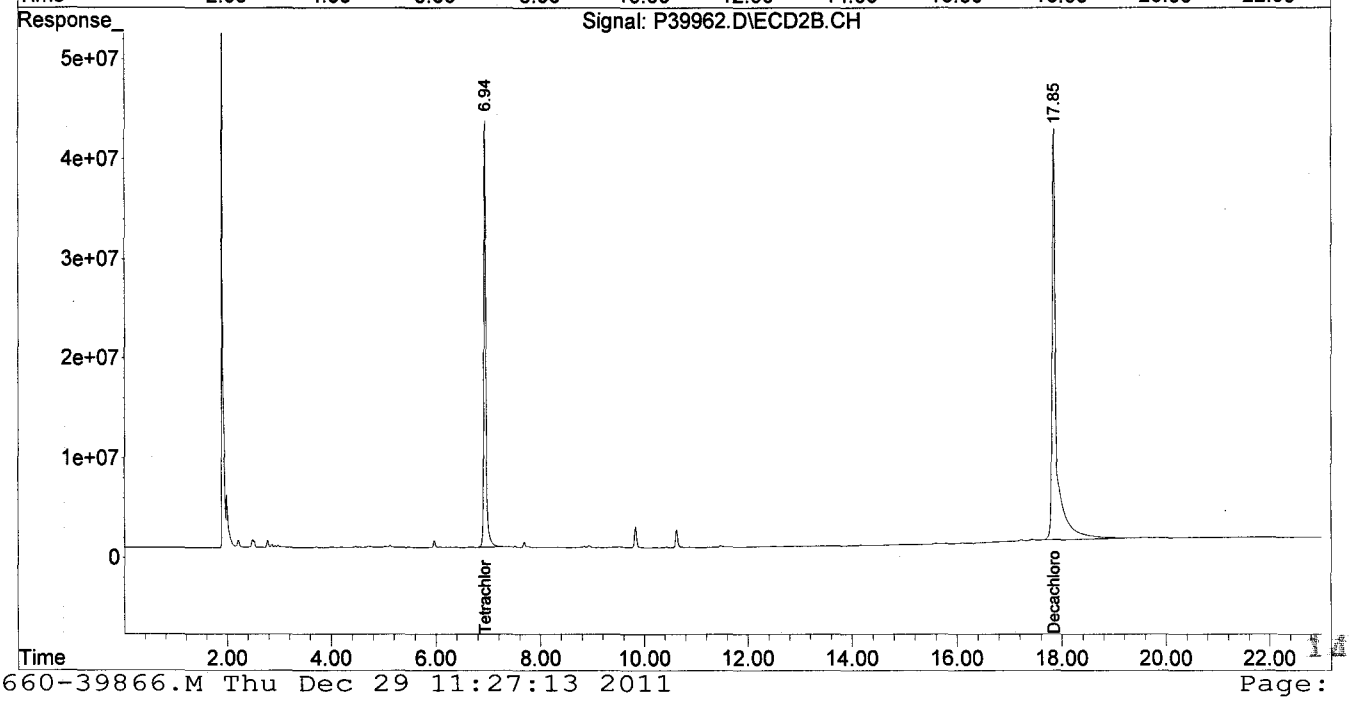
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39962.D(Signal #1) P39962.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 16:45 (Signal #1); 12/27/11 17:14 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : ABLK56 (Sig #1); ABLK56 (Sig #2)
Misc : ABLK56 30.0G/10.0ML (Sig #1); ABLK56 30.0G/10.0ML (Sig #2)
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 15:00:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:51:24 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK11(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39876

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/22/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AIBLK12(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39876

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/22/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39876.D(Signal #1) P39876.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 07:52 (Signal #1); 12/22/11 08:22 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK11 (Sig #1); AIBLK12 (Sig #2)
Misc : AIBLK11 (Sig #1); AIBLK12 (Sig #2)
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:14:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.72	6.94	449.2E6	376.9E6	18.111	17.879
Spiked Amount 60.000 Range 18 - 90 Recovery =					30.19%	29.80%
8) s Decachlorobiphen	18.83	17.86	490.4E6	646.6E6	28.036	34.211
Spiked Amount 120.000 Recovery =					23.36%	28.51%

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode P-4460 init/date [illegible]

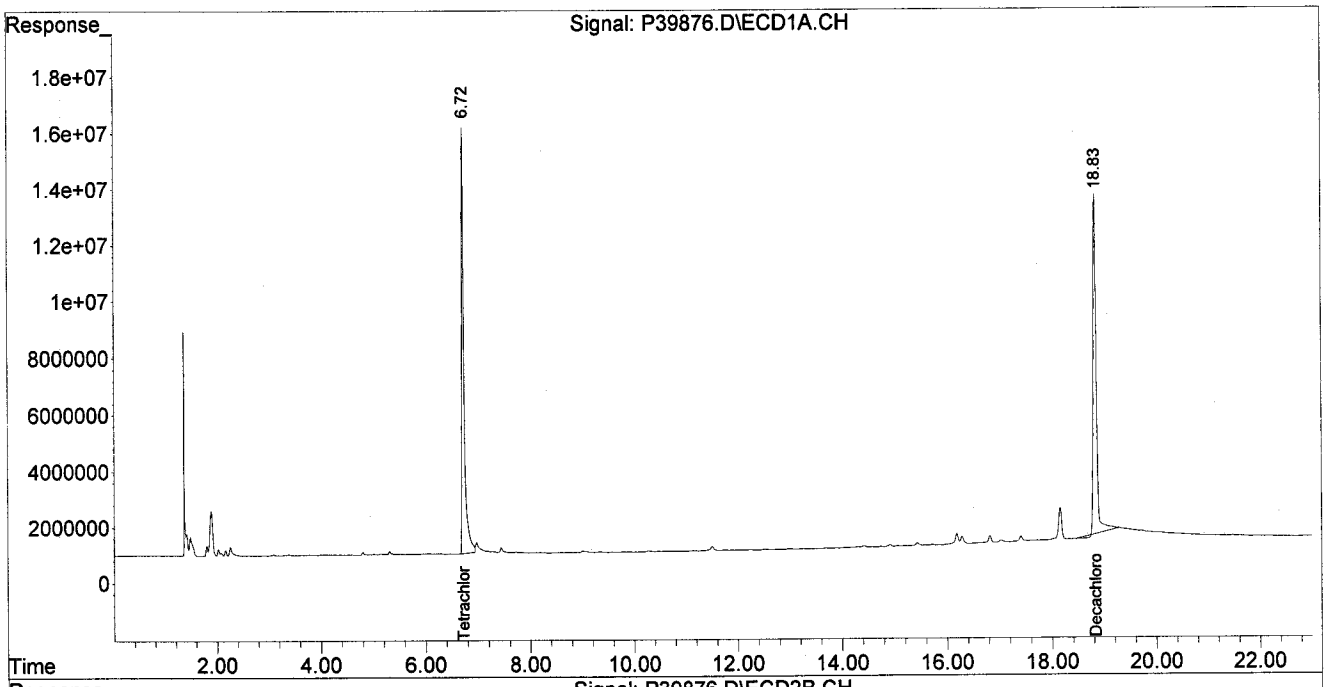
1474

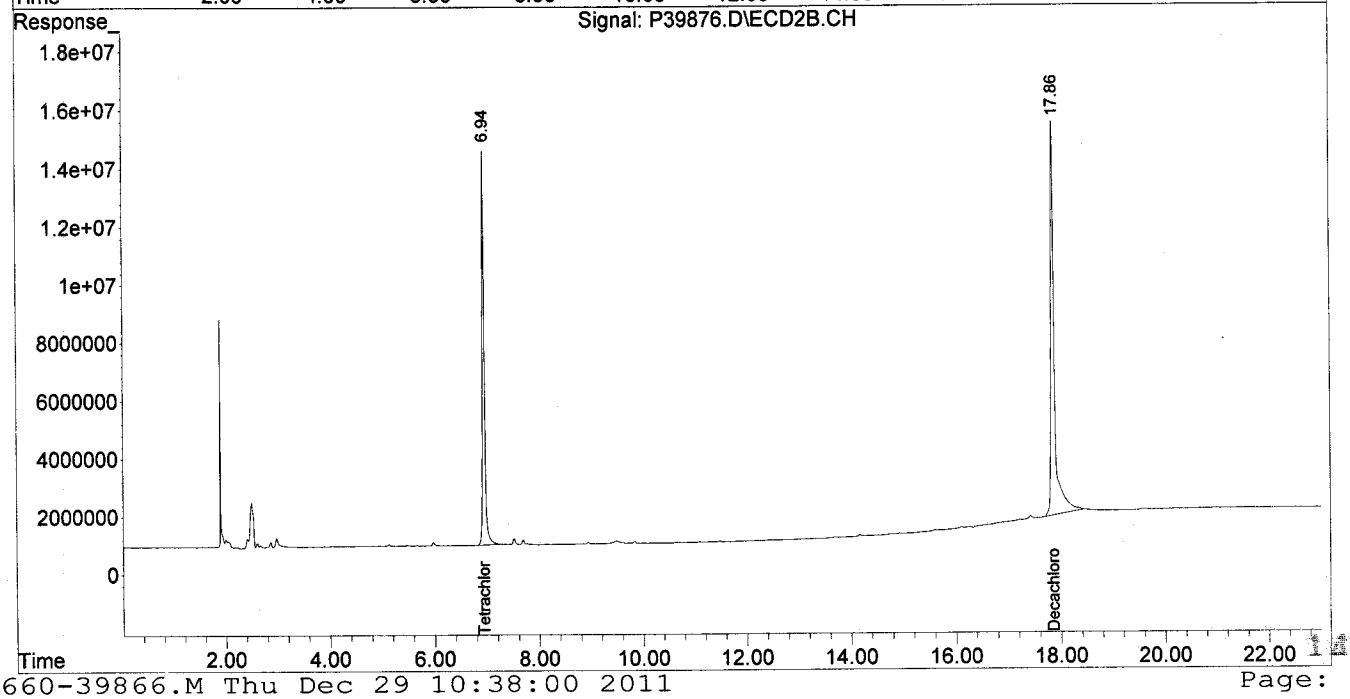
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39876.D(Signal #1) P39876.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/22/11 07:52 (Signal #1); 12/22/11 08:22 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK11 (Sig #1); AIBLK12 (Sig #2)
Misc : AIBLK11 (Sig #1); AIBLK12 (Sig #2)
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 26 11:14:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK31(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK31

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39955

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK32(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK32

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39955

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39955.D(Signal #1)           P39955.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/27/11 13:11 (Signal #1); 12/27/11 13:42 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AIBLK31 (Sig #1); AIBLK32 (Sig #2)
Misc      : AIBLK31 (Sig #1); AIBLK32 (Sig #2)
ALS Vial  : 66   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:51:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Wed Dec 28 14:48:00 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	574.3E6	485.9E6	23.158	23.051
Spiked Amount 60.000 Range 18 - 90 Recovery =					38.60%	38.42%
8) s Decachlorobiphen	18.82	17.85	668.0E6	780.8E6	38.187	41.311
Spiked Amount 120.000 Recovery =					31.82%	34.43%

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode S-4460 init/date [illegible]

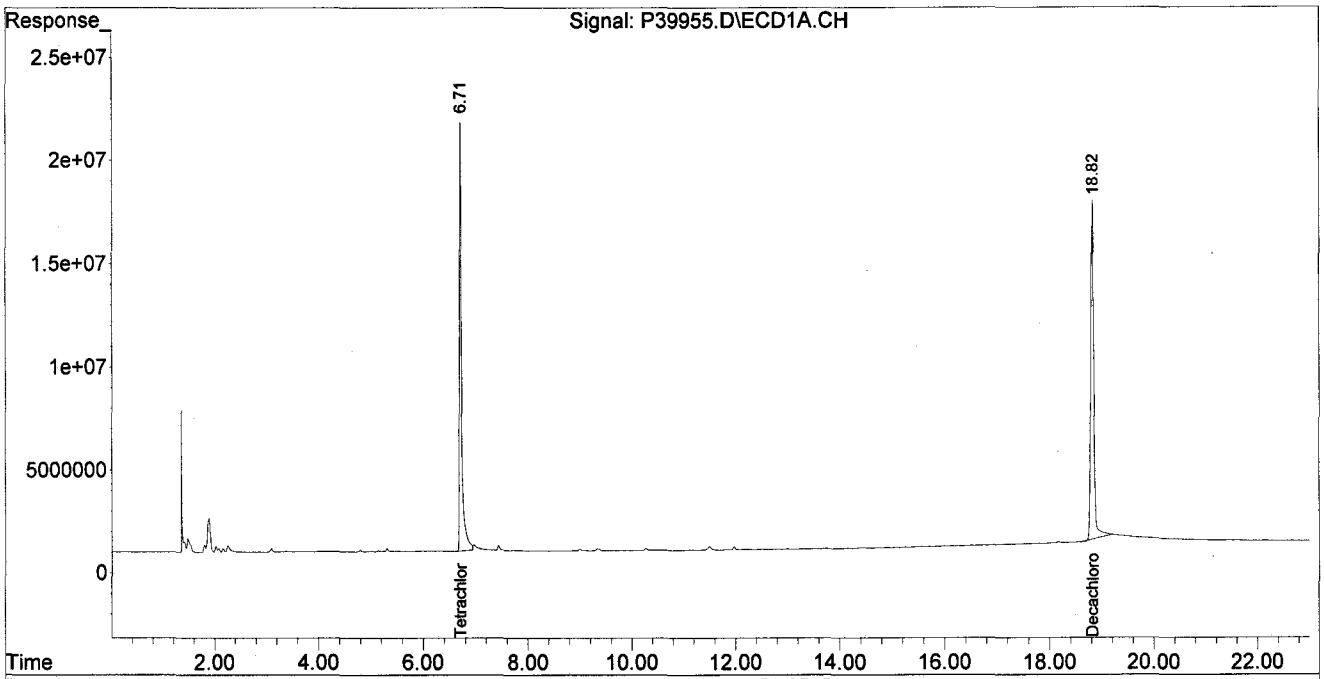
1478

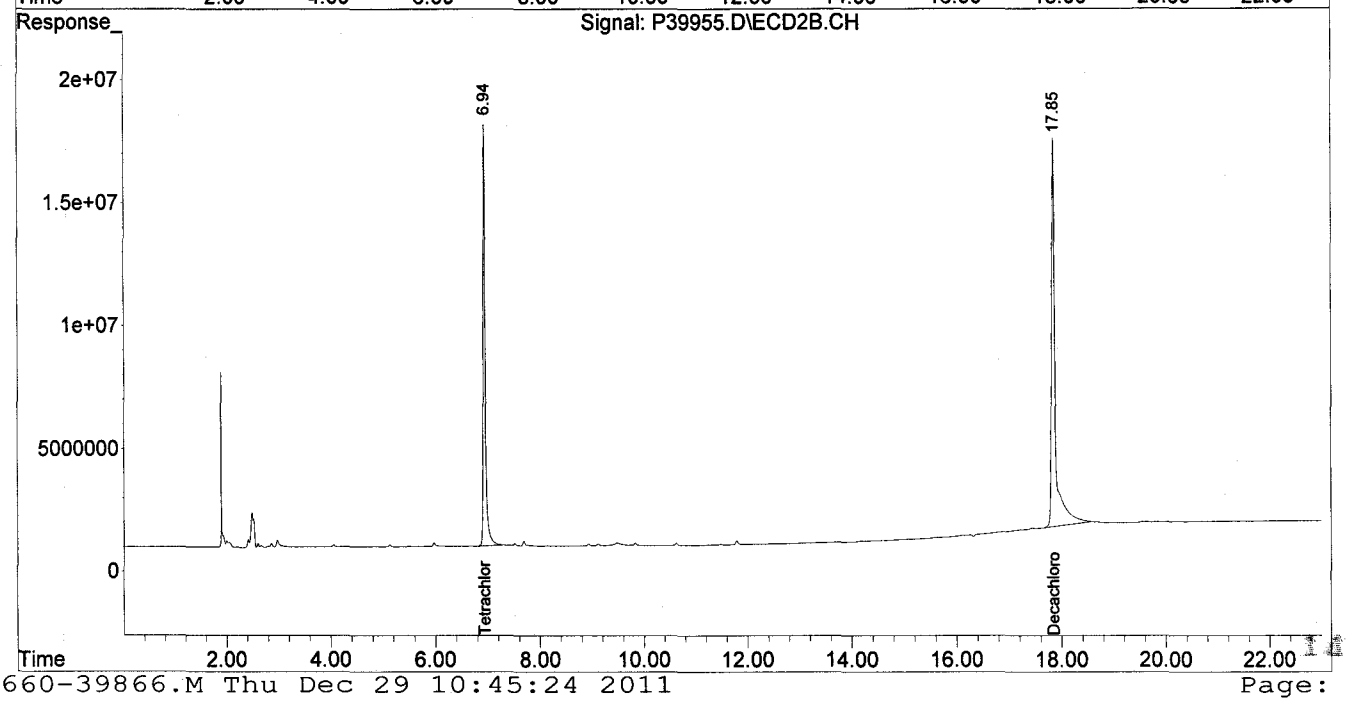
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39955.D(Signal #1) P39955.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 13:11 (Signal #1); 12/27/11 13:42 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK31 (Sig #1); AIBLK32 (Sig #2)
Misc : AIBLK31 (Sig #1); AIBLK32 (Sig #2)
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 14:51:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Wed Dec 28 14:48:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK41(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK41

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39976

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK42(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK42

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39976

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Quantitation Report (QT Reviewed)

```
Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39976.D(Signal #1)           P39976.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
InstName  : P-6890A(Signal #1)            P-6890B(Signal # 2)
Acq On    : 12/27/11 23:49 (Signal #1); 12/28/11 00:20 (Signal #2)
Operator  : KVR(Signal #1)  KVR(Signal #2)
Sample    : AIBLK41 (Sig #1); AIBLK42 (Sig #2)
Misc      : AIBLK41 (Sig #1); AIBLK42 (Sig #2)
ALS Vial  : 87   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 09:03:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title  : CLP  PCB'S  ANALYSIS BY CLP  SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     : 1uL
Signal #1 Phase : Rtx-CLP2          Signal #2 Phase: Rtx-CLP
Signal #1 Info  : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D
```

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	480.4E6	434.4E6	19.368	20.608
Spiked Amount 60.000 Range 18 - 90 Recovery =					32.28%	34.35%
8) s Decachlorobiphen	18.82	17.85	519.6E6	693.8E6	29.702	36.708
Spiked Amount 120.000 Recovery =					24.75%	30.59%

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ORIGINAL
Case 42040 SDG F4XP0
Episode J-4460 init/date [illegible]

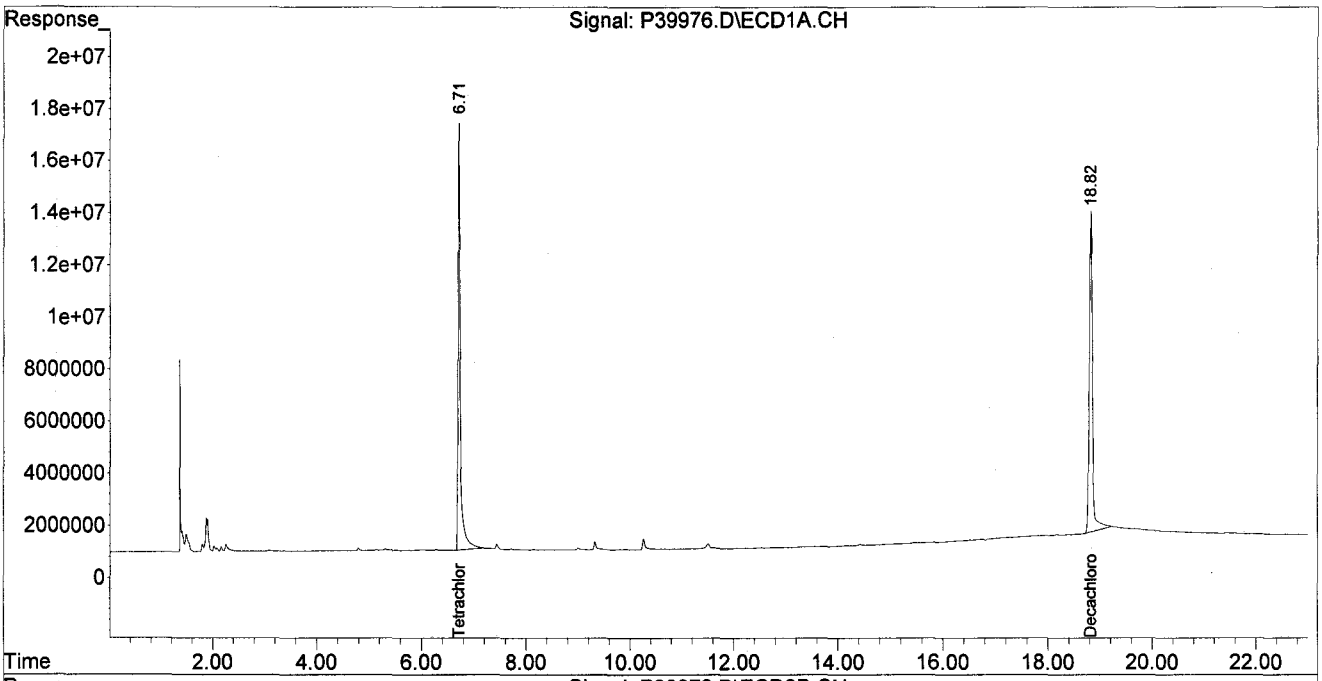
1482

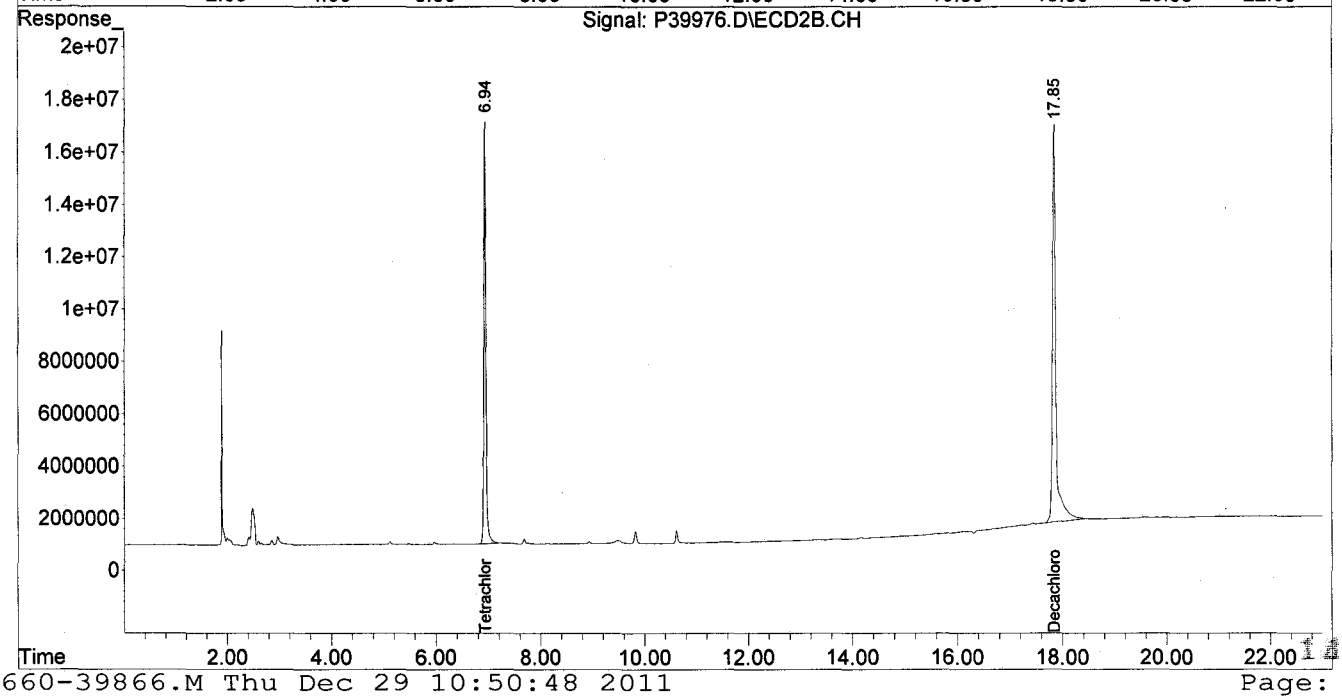
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39976.D(Signal #1) P39976.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 23:49 (Signal #1); 12/28/11 00:20 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK41 (Sig #1); AIBLK42 (Sig #2)
Misc : AIBLK41 (Sig #1); AIBLK42 (Sig #2)
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 09:03:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK51(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK51

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39995

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK52(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK52

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P39995

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39995.D(Signal #1) P39995.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 12:07 (Signal #1); 12/28/11 12:38 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK51 (Sig #1); AIBLK52 (Sig #2)
Misc : AIBLK51 (Sig #1); AIBLK52 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 13:58:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	531.7E6	478.8E6	21.438	22.714
Spiked Amount 60.000	Range 18 - 90		Recovery =		35.73%	37.86%
8) s Decachlorobiphen	18.82	17.85	594.4E6	682.6E6	33.980	36.116
Spiked Amount 120.000			Recovery =		28.32%	30.10%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

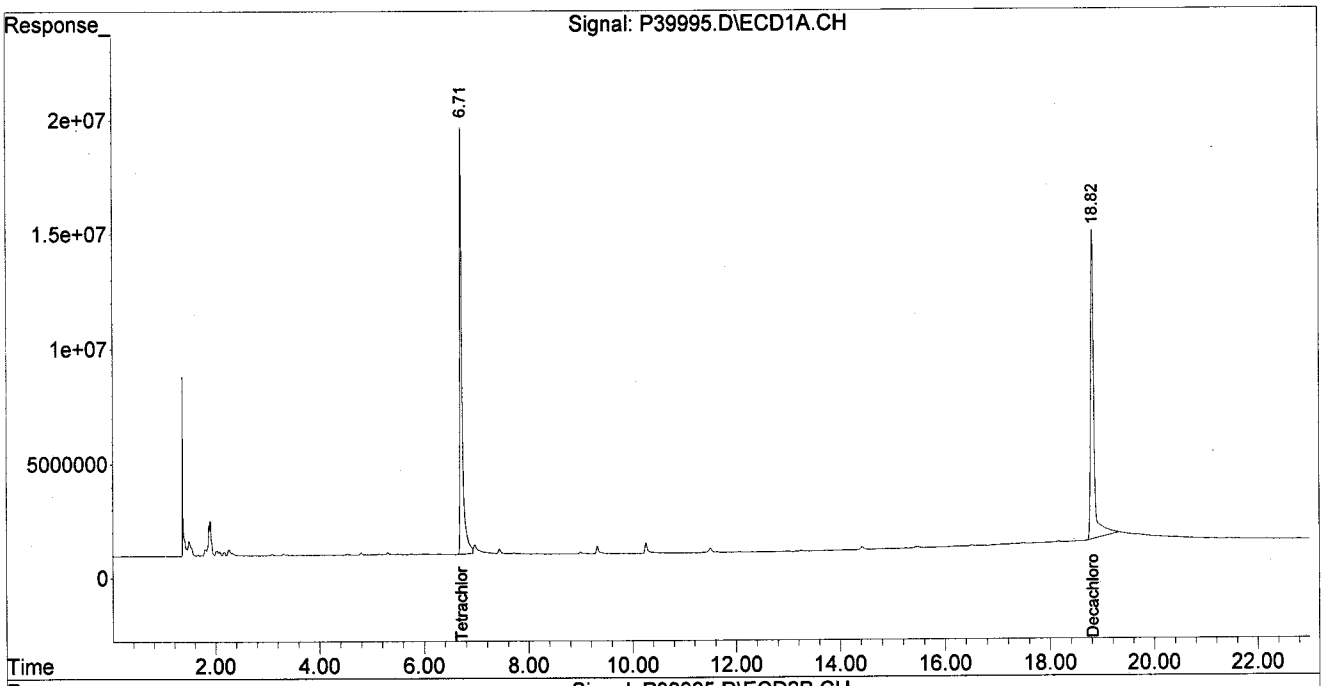
ORIGINAL
Case 42040 SDG FUXP0
Episode 54460 Init/date

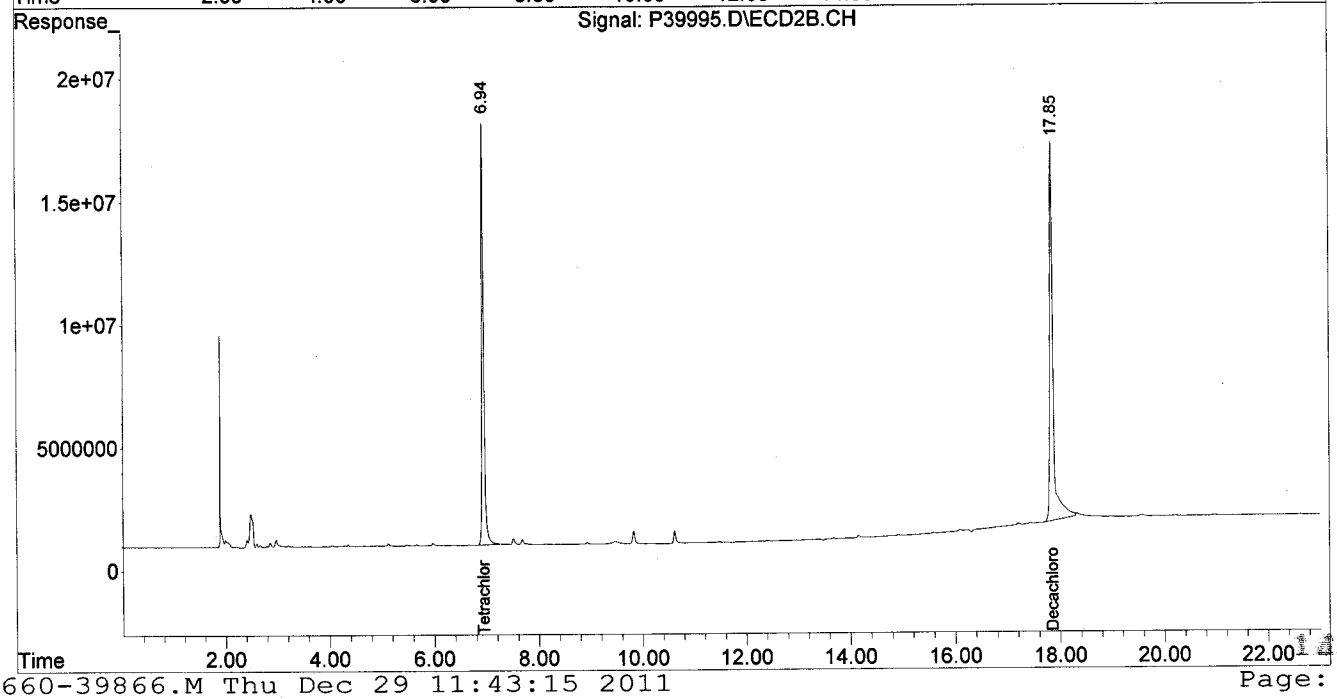
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39995.D(Signal #1) P39995.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 12:07 (Signal #1); 12/28/11 12:38 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK51 (Sig #1); AIBLK52 (Sig #2)
Misc : AIBLK51 (Sig #1); AIBLK52 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 28 13:58:52 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Sun Dec 25 20:45:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK61(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK61

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P40016

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLK62(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLK62

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P40016

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

Extraction: (Type) SEPF Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40016.D(Signal #1) P40016.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 22:47 (Signal #1); 12/28/11 23:18 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK61 (Sig #1); AIBLK62 (Sig #2)
Misc : AIBLK61 (Sig #1); AIBLK62 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:14:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.72	6.93	523.3E6	486.2E6	21.100	23.065
Spiked Amount 60.000	Range 18 - 90		Recovery =		35.17%	38.44%
8) s Decachlorobiphen	18.82	17.83	600.2E6	735.6E6	34.313	38.920
Spiked Amount 120.000			Recovery =		28.59%	32.43%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

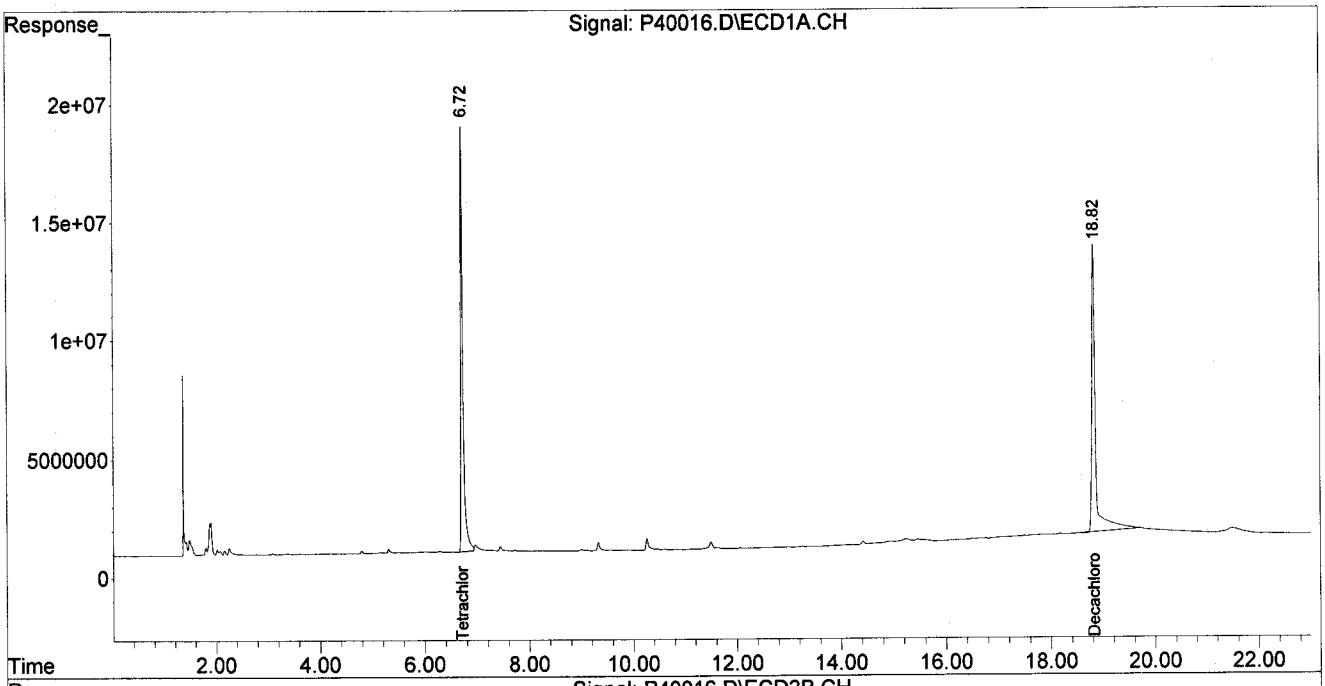
ORIGINAL
Case 42040 SDG F4x120
Episode P4460 Init/date DVH 1/4

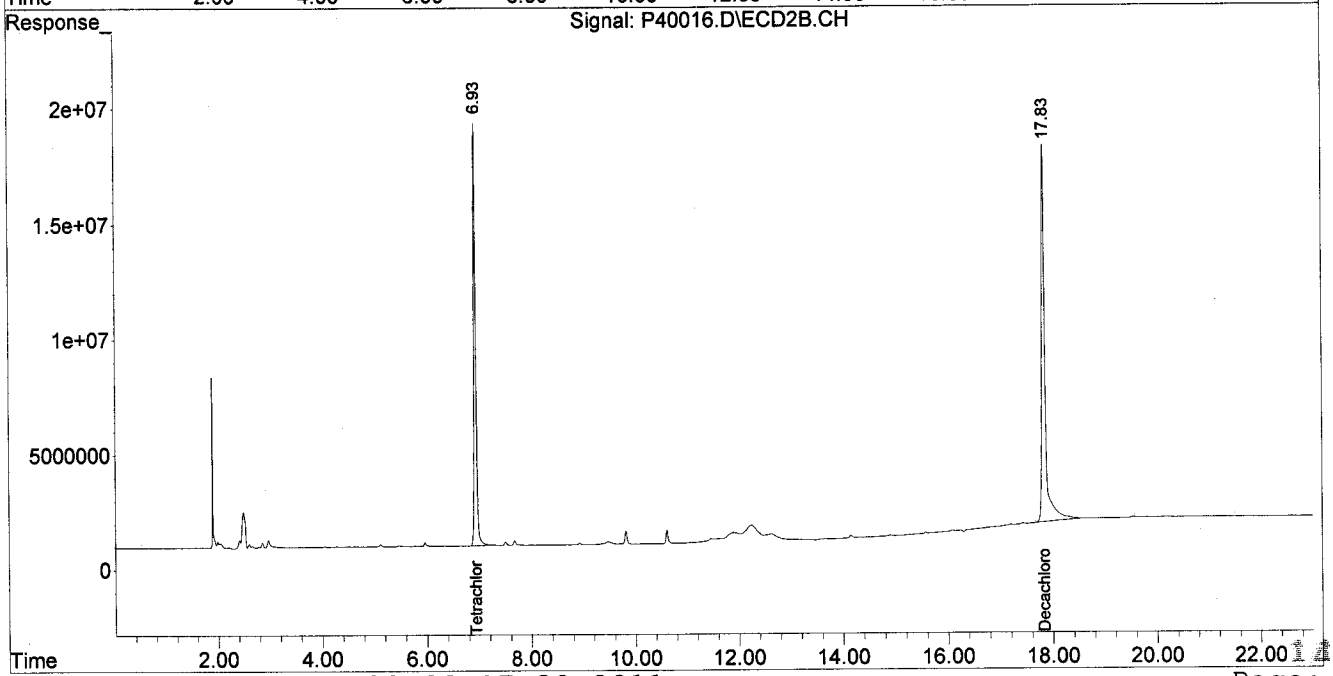
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40016.D(Signal #1) P40016.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 22:47 (Signal #1); 12/28/11 23:18 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : AIBLK61 (Sig #1); AIBLK62 (Sig #2)
Misc : AIBLK61 (Sig #1); AIBLK62 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:14:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 50.30 (g/mL) G Lab File ID: P40013

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	74	
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MS(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MS

Sample wt/vol: 50.30 (g/mL) G Lab File ID: P40013

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	86	
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40013.D(Signal #1) P40013.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:16 (Signal #1); 12/28/11 21:46 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MS (Sig #1); F4XP2MS (Sig #2)
Misc : S-4460.03MS 50.3G/10.0ML (Sig #1); S-4460.03MS 50.3G/10.0ML (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:12:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.71	6.94	1404.0E6	1323.2E6	56.608	62.774
Spiked Amount 60.000	Range 18 - 90		Recovery =		94.35%#	104.62%#
8) s Decachlorobiphen	18.82	17.84	1773.4E6	1957.3E6	101.381	103.564
Spiked Amount 120.000			Recovery =		84.48%	86.30%
Target Compounds						

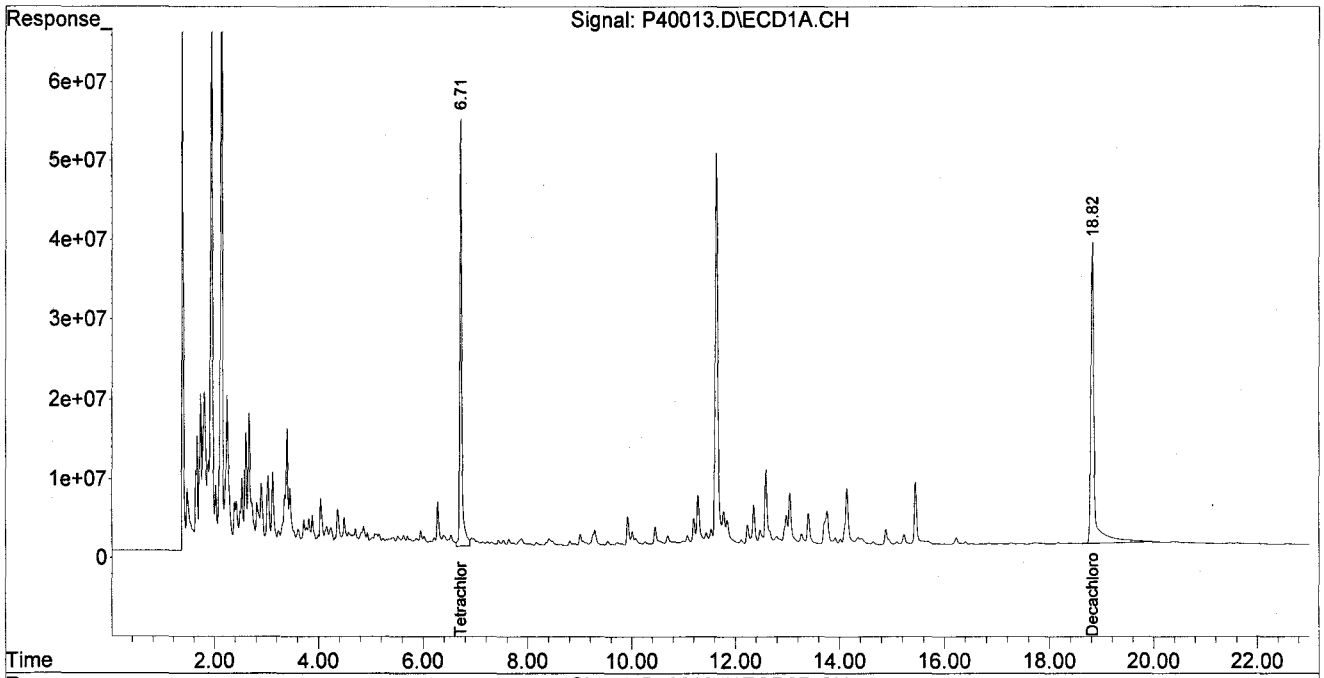
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

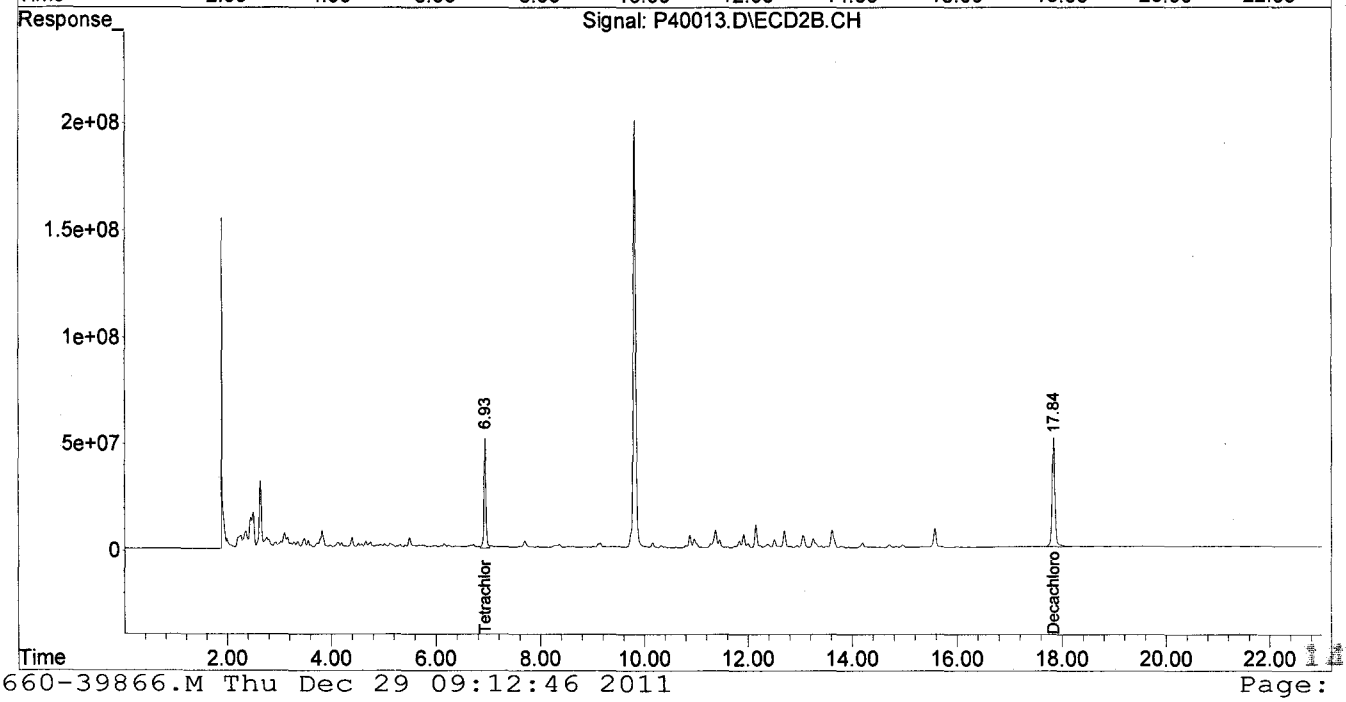
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40013.D(Signal #1) P40013.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:16 (Signal #1); 12/28/11 21:46 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MS (Sig #1); F4XP2MS (Sig #2)
Misc : S-4460.03MS 50.3G/10.0ML (Sig #1); S-4460.03MS 50.3G/10.0ML (Sig
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:12:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40013.D(Signal #1) P40013.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:16 (Signal #1); 12/28/11 21:46 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MS (Sig #1); F4XP2MS (Sig #2)
Misc : S-4460.03MS 50.3G/10.0ML (Sig #1); S-4460.03MS 50.3G/10.0ML (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:12:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1404.0E6	1323.6E6	55.302	64.230
	Spiked Amount 60.000	Range 18 - 90		Recovery =		92.17%#	107.05%#
5)	s Decachlorobiphen	18.82	17.84	1773.4E6	1966.8E6	95.196	102.387
	Spiked Amount 120.000			Recovery =		79.33%	85.32%
	Target Compounds						
2)	AR1254-1	11.28	11.91	234.5E6	212.4E6	244.695	294.307
3)	AR1254-2	12.35	12.70	174.1E6	266.0E6	239.749	240.203
4)	AR1254-3	13.40	13.06	151.5E6	238.0E6	199.932	253.259 #

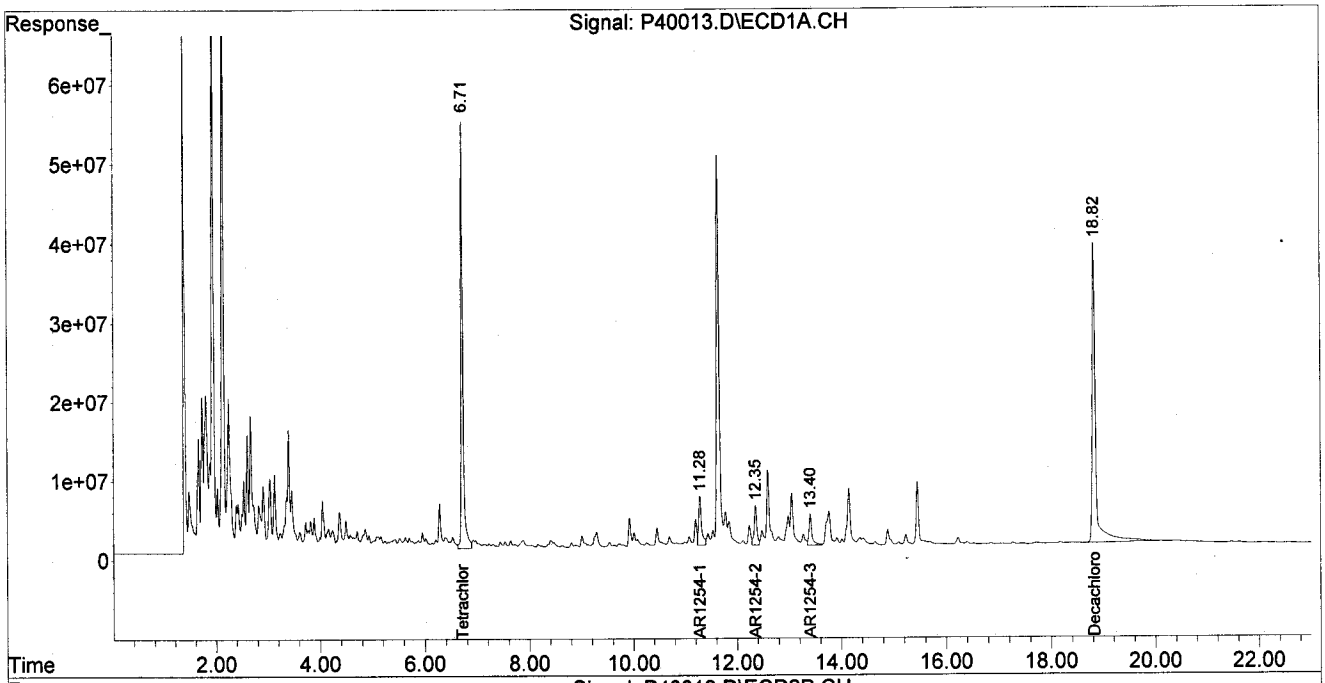
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

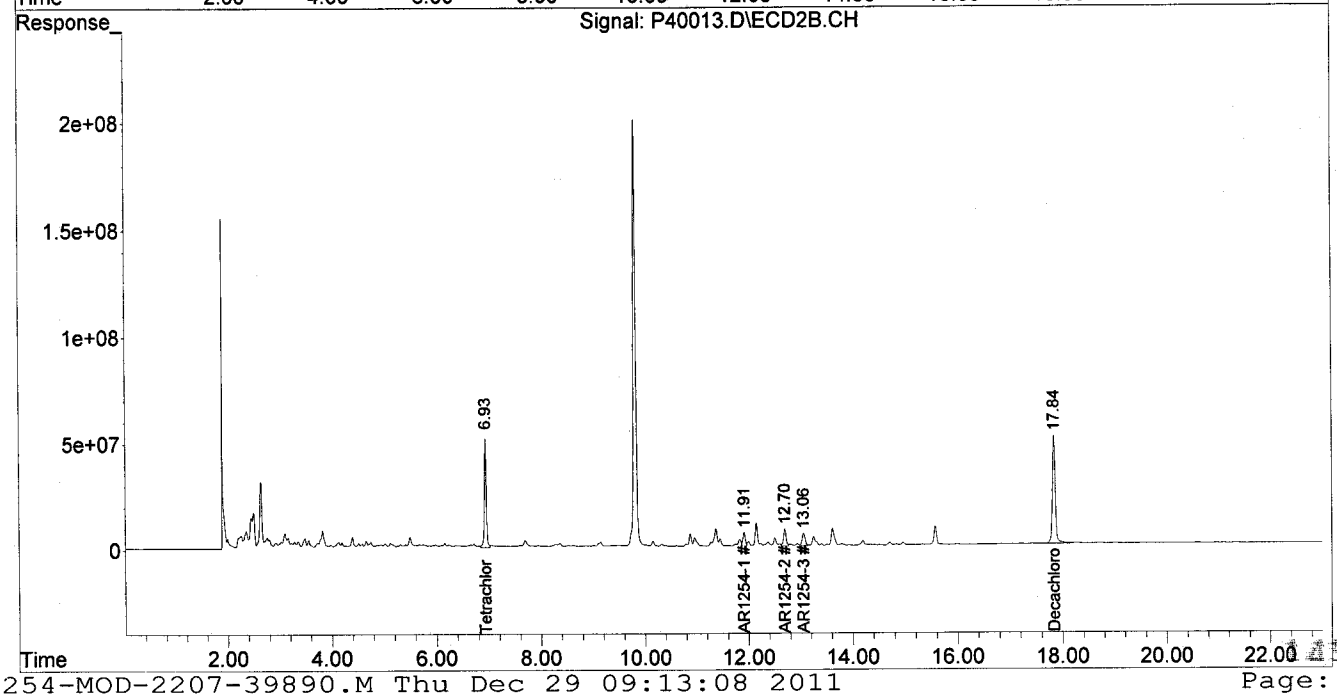
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40013.D(Signal #1) P40013.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:16 (Signal #1); 12/28/11 21:46 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MS (Sig #1); F4XP2MS (Sig #2)
Misc : S-4460.03MS 50.3G/10.0ML (Sig #1); S-4460.03MS 50.3G/10.0ML (Sig
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:12:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P40014

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	78	
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F4XP2MSD(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-4460.03MSD

Sample wt/vol: 50.10 (g/mL) G Lab File ID: P40014

% Moisture: 39 Decanted: (Y/N) N Date Received: 12/07/2011

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	6.5	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	6.5	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	84	
11096-82-5	Aroclor-1260	32	U
37324-23-5	Aroclor-1262	32	U
11100-14-4	Aroclor-1268	32	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40014.D(Signal #1) P40014.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:46 (Signal #1); 12/28/11 22:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MSD (Sig #1); F4XP2MSD (Sig #2)
Misc : S-4460.03MSD 50.1G/10.0ML (Sig #1); S-4460.03MSD 50.1G/10.0ML (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:13:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	6.72	6.94	1297.0E6	1273.2E6	52.295	60.405
Spiked Amount 60.000	Range 18 - 90		Recovery =		87.16%	100.68%#
8) s Decachlorobiphen	18.82	17.85	1725.8E6	1873.3E6	98.659	99.120
Spiked Amount 120.000			Recovery =		82.22%	82.60%
Target Compounds						

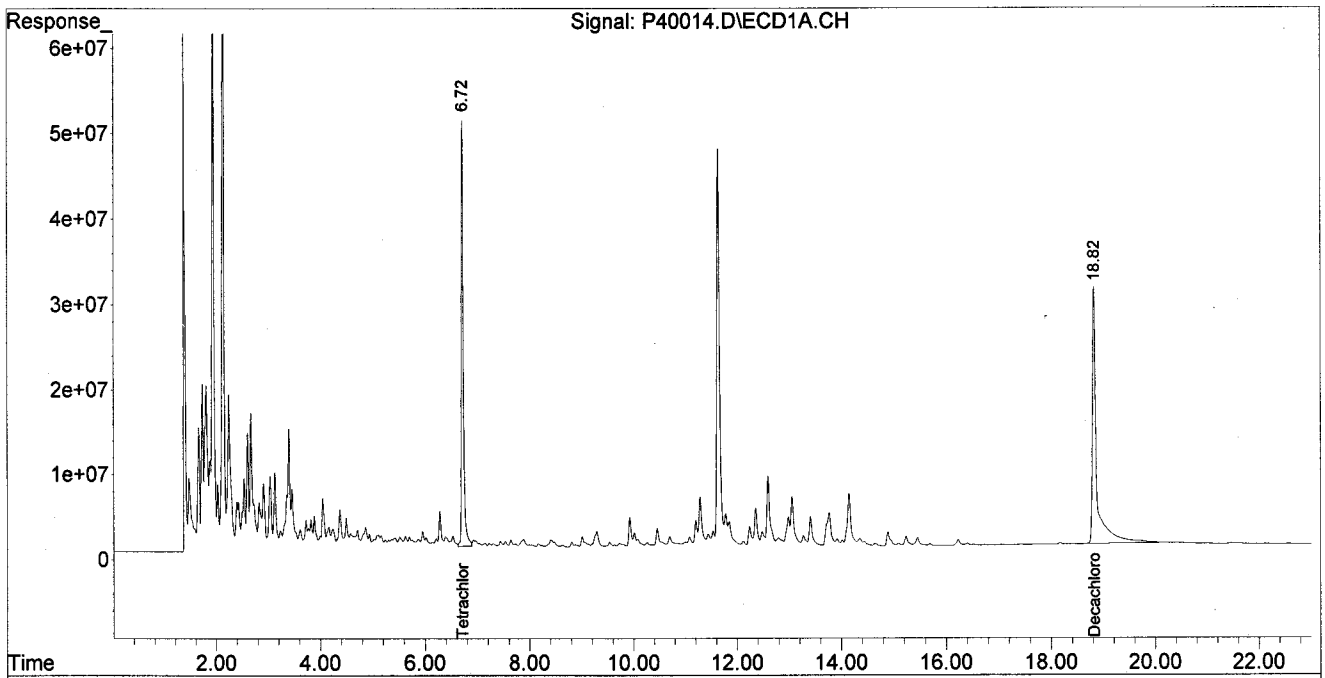
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

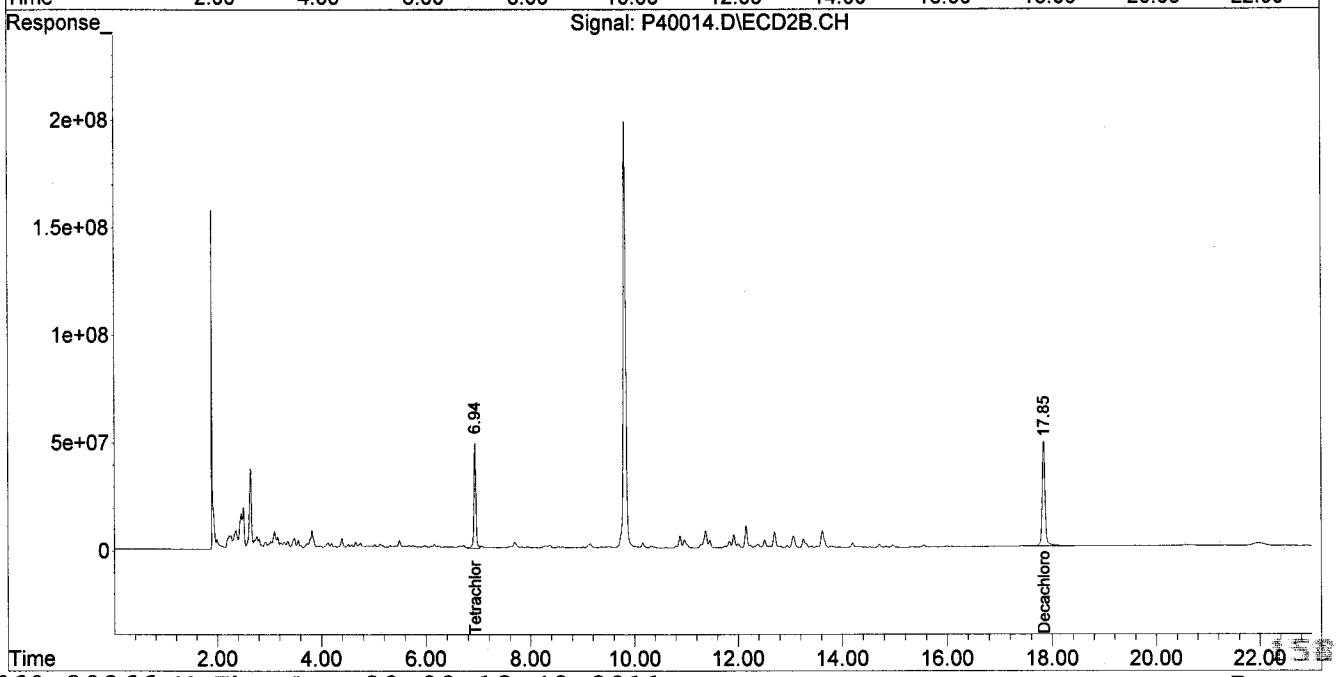
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40014.D(Signal #1) P40014.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:46 (Signal #1); 12/28/11 22:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MSD (Sig #1); F4XP2MSD (Sig #2)
Misc : S-4460.03MSD 50.1G/10.0ML (Sig #1); S-4460.03MSD 50.1G/10.0ML (S:
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:13:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1660-39866.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:52:10 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40014.D(Signal #1) P40014.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:46 (Signal #1); 12/28/11 22:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MSD (Sig #1); F4XP2MSD (Sig #2)
Misc : S-4460.03MSD 50.1G/10.0ML (Sig #1); S-4460.03MSD 50.1G/10.0ML (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:13:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.72	6.94	1297.0E6	1285.8E6	51.089	62.399
	Spiked Amount 60.000	Range 18 - 90		Recovery =		85.15%	104.00%#
5)	s Decachlorobiphen	18.82	17.85	1725.8E6	1880.7E6	92.640	97.904
	Spiked Amount 120.000			Recovery =		77.20%	81.59%
	Target Compounds						
2)	AR1254-1	11.29	11.92	248.3E6	207.5E6	259.109	287.578
3)	AR1254-2	12.36	12.70	177.4E6	255.9E6	244.216	231.098
4)	AR1254-3	13.40	13.06	159.9E6	234.2E6	211.017	249.231

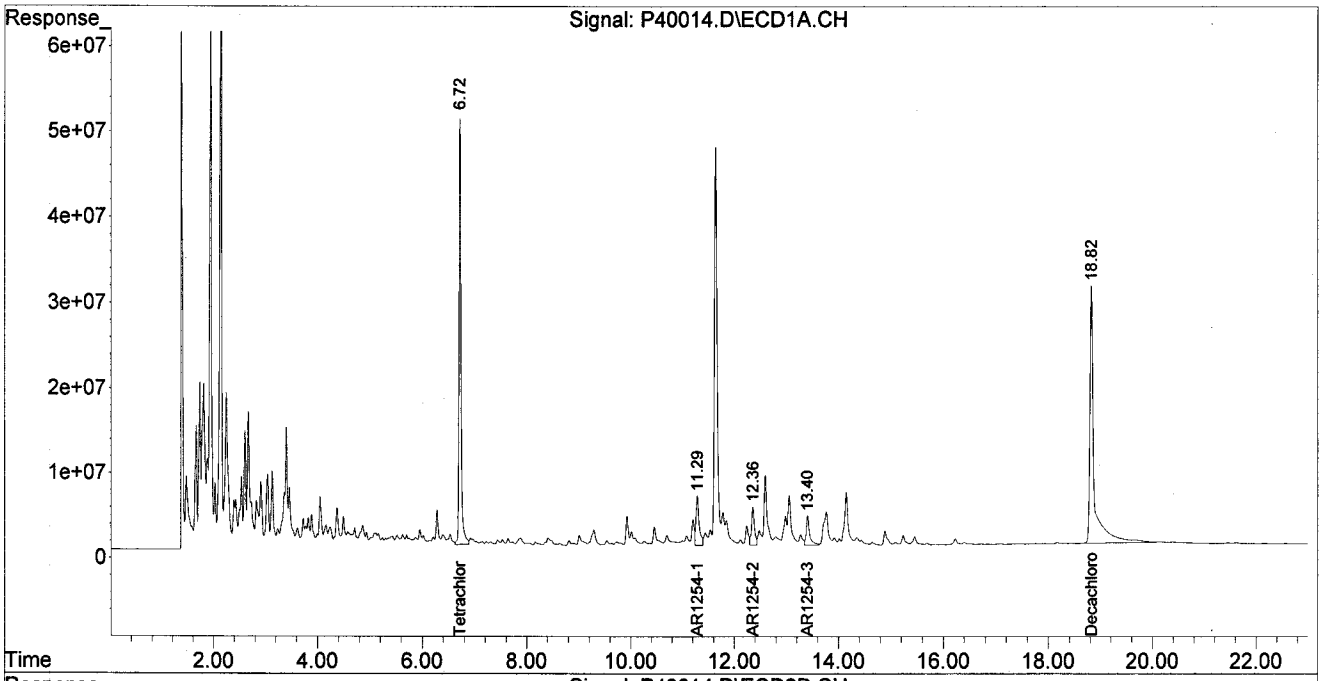
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

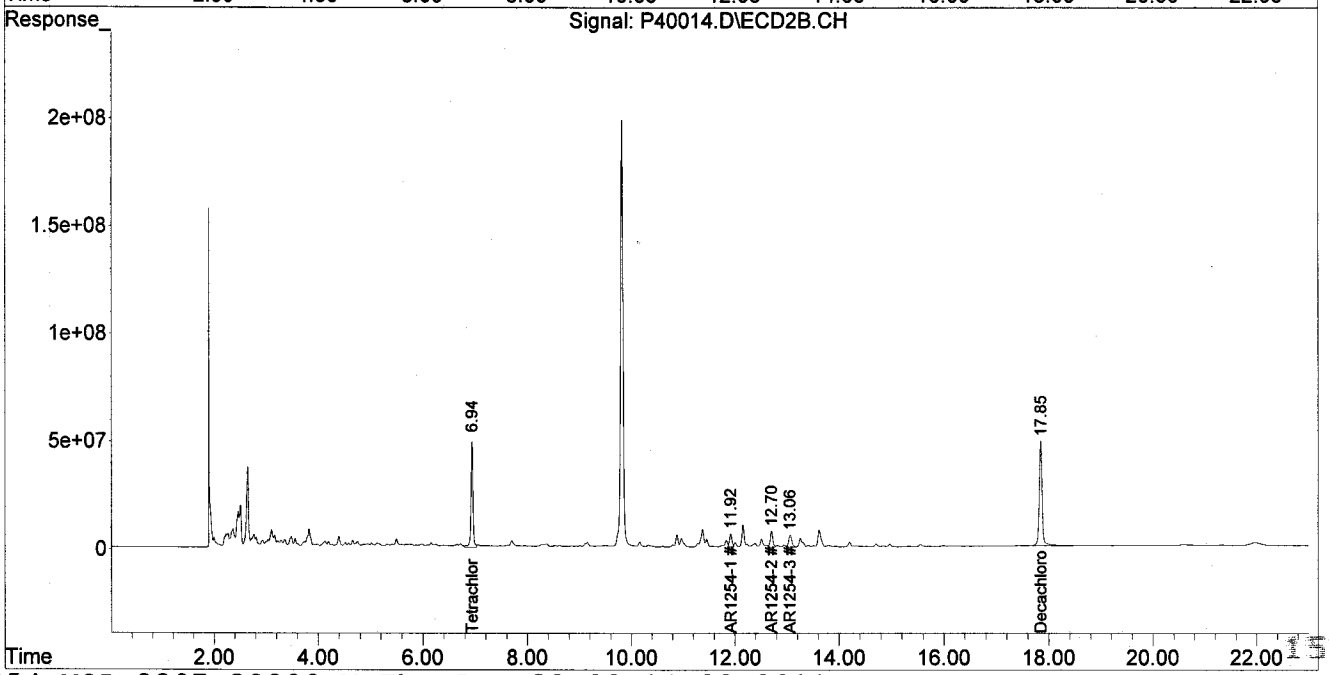
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P40014.D(Signal #1) P40014.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/28/11 21:46 (Signal #1); 12/28/11 22:17 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : F4XP2MSD (Sig #1); F4XP2MSD (Sig #2)
Misc : S-4460.03MSD 50.1G/10.0ML (Sig #1); S-4460.03MSD 50.1G/10.0ML (S:
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 29 09:13:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1254-MOD-2207-39890.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Thu Dec 29 08:54:44 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D





1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS56(1)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: ALCS56

Sample wt/vol: 30.00 (g/mL) G Lab File ID: P39963

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.6	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	9.5	
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.6	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS56(2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 42040 Mod. Ref No.: 2207.0 SDG No.: F4XP0

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: ALCS56

Sample wt/vol: 30.00 (g/mL) G Lab File ID: P39963

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 12/14/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/2011

Injection Volume: 1.0 (uL) GPC Factor: _____ Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	6.6	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	13	
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	6.6	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39963.D(Signal #1) P39963.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 17:14 (Signal #1); 12/27/11 17:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : ALCS56 (Sig #1); ALCS56 (Sig #2)
Misc : ALCS56 30.0.0G/10.0ML (Sig #1); ALCS56 30.0.0G/10.0ML (Sig #2)
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 18:32:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	6.71	6.94	1201.3E6	1034.7E6	46.712	46.599
	Spiked Amount 60.000	Range 18 - 90		Recovery =		77.85%	77.66%
5)	s Decachlorobiphen	18.81	17.85	1584.0E6	1816.3E6	96.471	145.180 #
	Spiked Amount 120.000			Recovery =		80.39%	120.98%
	Target Compounds						
2)	AR1242-1	9.92	10.33	9442530	8826020	31.245	32.399
3)	AR1242-2	10.45	10.41	11146587	15121196	27.288	36.170 #
4)	AR1242-3	11.08	10.81	6968133	9852133	26.546m	44.037 #

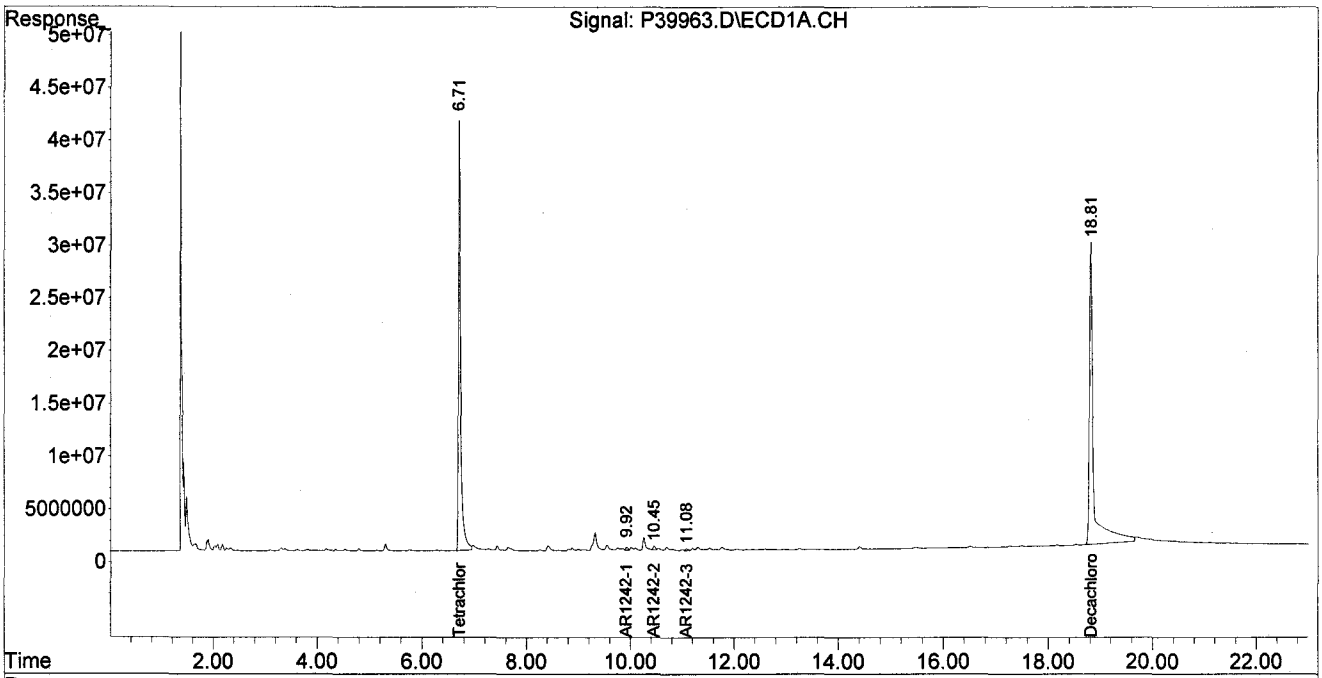
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

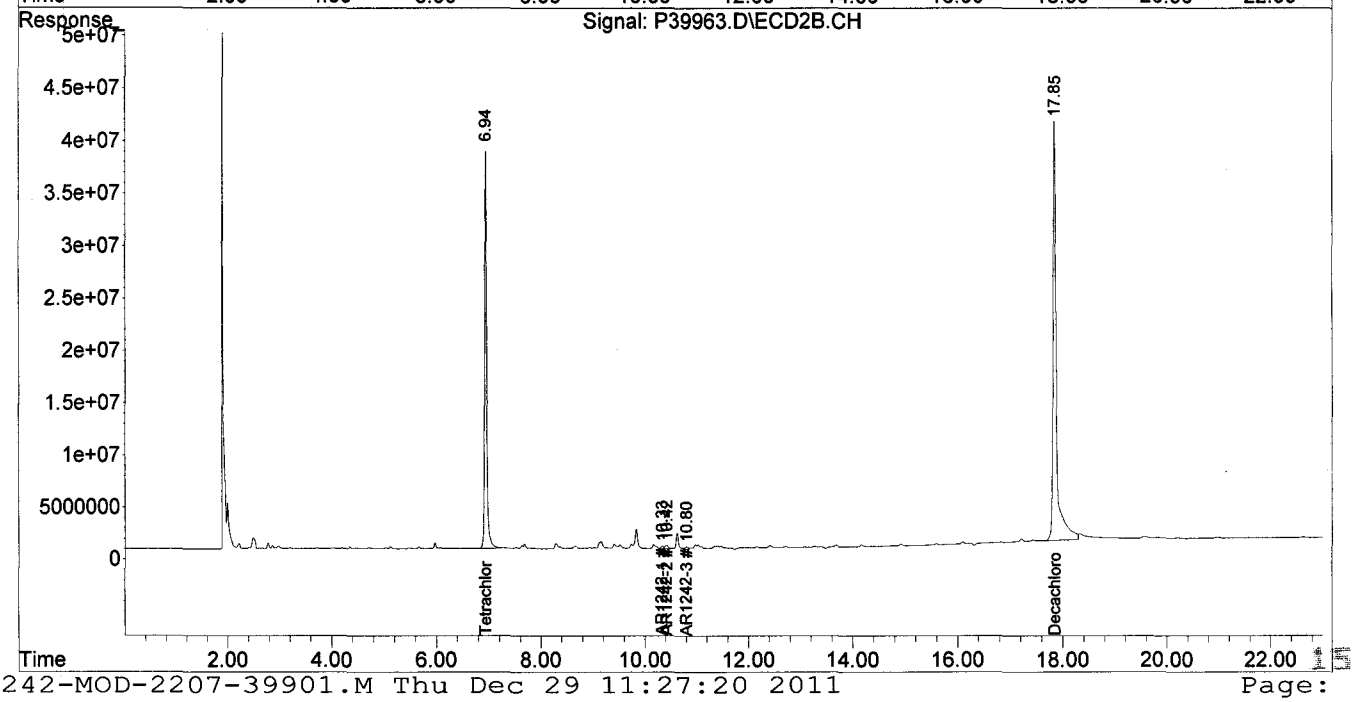
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39963.D(Signal #1) P39963.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 17:14 (Signal #1); 12/27/11 17:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : ALCS56 (Sig #1); ALCS56 (Sig #2)
Misc : ALCS56 30.0.0G/10.0ML (Sig #1); ALCS56 30.0.0G/10.0ML (Sig #2)
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 18:32:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



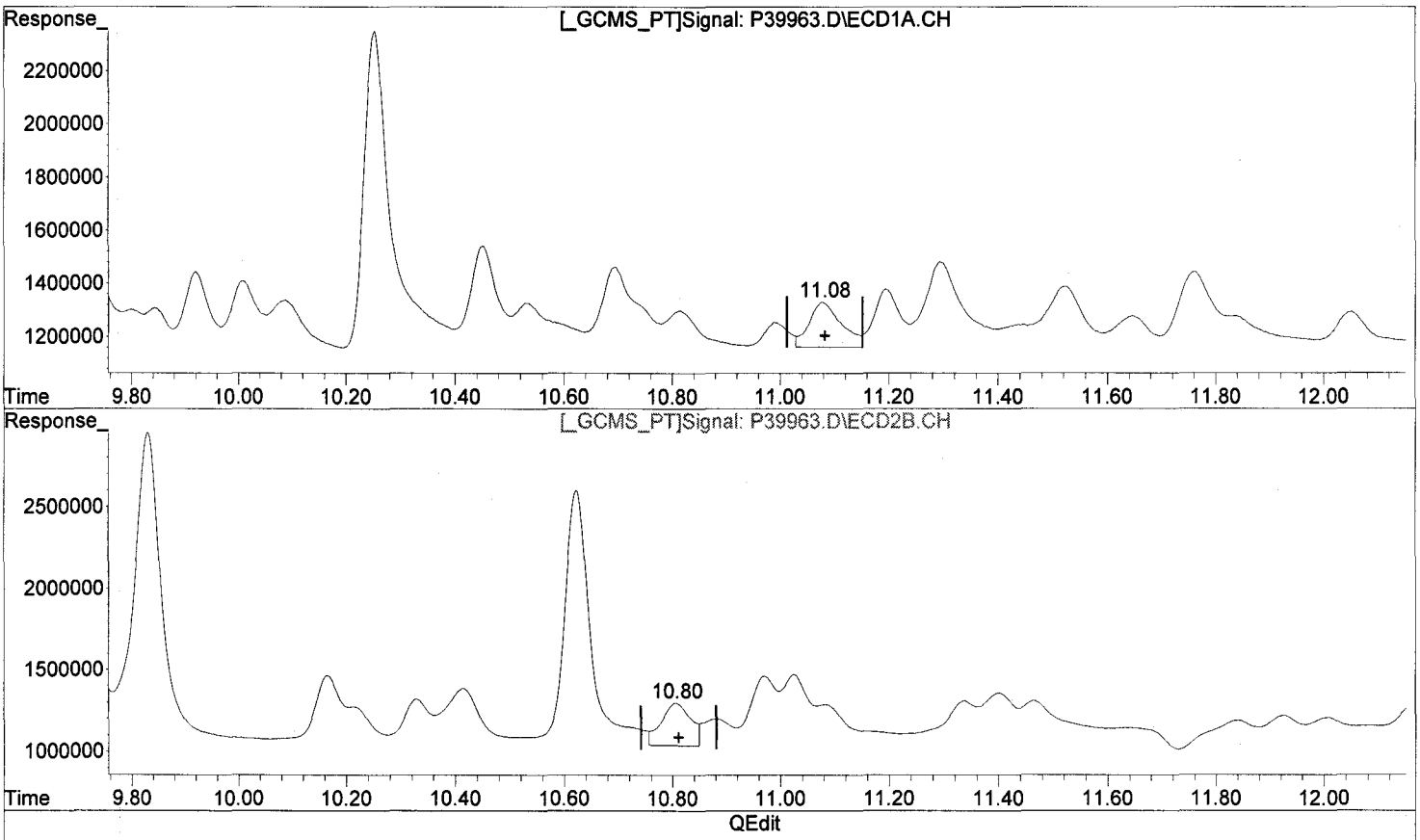


Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\data\(Signal #1) C:\MSDChem\1\data\(Signal #2)
Data File : P39963.D(Signal #1) P39963.D(Signal #2)
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
InstName : P-6890A(Signal #1) P-6890B(Signal # 2)
Acq On : 12/27/11 17:14 (Signal #1); 12/27/11 17:44 (Signal #2)
Operator : KVR(Signal #1) KVR(Signal #2)
Sample : ALCS56 (Sig #1); ALCS56 (Sig #2)
Misc : ALCS56 30.0.0G/10.0ML (Sig #1); ALCS56 30.0.0G/10.0ML (Sig #2)
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 27 18:32:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\AR1242-MOD-2207-39901.M
Quant Title : CLP PCB'S ANALYSIS BY CLP SOM1.1
QLast Update : Mon Dec 26 09:57:21 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal #1 Phase : Rtx-CLP2 Signal #2 Phase: Rtx-CLP
Signal #1 Info : 30m Len,0.53mmI.D Signal #2 Info : 30m Len, 0.53mm I.D



(4) AR1242-3
11.08min 26.546ng/mL m
response 6968133

(4) AR1242-3 #2
10.81min 44.037ng/mL
response 9852133

(+) = Expected Retention Time

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 325-1111

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: C-5975

MAINTENANCE: —

TUNE FILE ID: C14871 DATE: 12/09/2011

METHOD FILES: CLPCPAH14875 INETRNAL STD. ID: 375.152.01

ANALYTICAL METHOD: Soml.2 STANDARD ID : ↓ 02

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	COMMENTS
C14871	DFTPPYJ	DFTPPYJ	—	1	1X	1.0mL	
72	SSTD001YJ	SSTD001YJ		2			
73	0.8YJ	0.8YJ		3			
74	0.4YJ	0.4YJ		4			
75	0.2YJ	0.2YJ		5			
76	0.1YJ	0.1YJ		6			
77	GPCBLK66	GPCBLK66	10mL/mL	7			
78	SBLK66	SBLK66	30.0g/0.5mL	8			
79	↓ 86	↓ 86	10000mL/1mL	9			
80	XOP95	S-4451.09	29.94/0.5mL	10			
81	90	.04	10000mL/1mL	11			
82	95DL	.09DL	29.94/0.5mL	12	2X		
83	90DL	.04DL	10000mL/1mL	13	5X		
84	SSTD0.4YK	SSTD0.4YK	—	14	-		

NOTES: —

ANALYST: [signature] REVIEWER: KVR

1509

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KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 325-1111

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: C-5975

MAINTENANCE: —

TUNE FILE ID: C14914 DATE: 12/15/11

METHOD FILEs: CLPCPAH14875 INETRNAL STD. ID: 275-152-01

ANALYTICAL METHOD: Som 1.2 STANDARD ID : ↓ 02

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	COMMENTS
C14914	DFTPPYP	DFTPPYP	—	1	1X	1.0ul	
15	SSTD04YP	SSTD04YP	—	2			
16	GPCBLK67	GPCBLK67	10ml/1ml	3			
17	SBLK67	SBLK67	3R 30g/0.5ml	4			
18	F4XPO	S-4460-01	60.4	5			
19	P1	02	60.8	6			
20	P2	03	60.6	7			
21	P3	04	60.8	8			
22	P4	05	60.3	9			
23	P5	06	60.7	10			
24	P6	07	60.8	11			
25	Q5	08	60.9	12			
26	P7	S-4465-01	60.1	13			
27	P8	02	60.8	14			
28	SSTD04YQ	SSTD04YQ	—	16			

NOTES: _____

ANALYST: _____ REVIEWER: KUR 1510

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 325-1111

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: C-5975

MAINTENANCE: —

TUNE FILE ID: C14929 DATE: 12/19/11

METHOD FILEs: CLPCPAH14875 INETRNAL STD. ID: 275.152.01

ANALYTICAL METHOD: 8270D STANDARD ID : ↓ 02

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	COMMENTS
C14929	DFTPPYR	DFTPPYR	—	1	1X	1.0ul	
30	SSTD04YR	SSTD04YR	—	2			
31	F4XP9	S-4465.03	60.3G/0.5ml	3			
32	06	↓ 04	60.6	4			
33	80	S-4476.01	80.6	5			
34	81	02	80.3	6			
35	82	03	60.7	7			
36	83	04	60.4	8			
37	84	05	60.8	9			
38	P2MS	S-4460.03MS	60.3	10			
39	P2MSD	↓ 03MSD	60.1	11			
40	SSTD04YS	SSTD04YS	—	12			
41	F4X07	S-4476.06	60.3G/0.5ml	13			
42	08	07	80.7	14			
43	09	08	60.6	15			
44	SSTD04YS	SSTD04YS	—	16			

NOTES: _____

ANALYST: _____ REVIEWER: KVR

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 325-1111

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: C-5975

MAINTENANCE: —

TUNE FILE ID: C14945 DATE: 12/20/11

METHOD FILEs: CLPCPAH14875 INETRNAL STD. ID: 275.152.01

ANALYTICAL METHOD: Som 12 STANDARD ID : ↓ 02

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	COMMENTS
C14945	DFTPPYT	DFTPPYT	—	1	1X	1.0ul	
46	SSTD0.4YT	SSTD0.4YT	—	2	↓		
47	F4XP5DL	S-4460.06DL	60.7g/0.5ml	3	5X		
48	G6DL	S-4465.04DL	60.6	4			
49	G3DL	S-4476.04DL	60.4	5			
50	G7DL	↓ 06DL	60.3 ↓	6	↓		
51	SBLK94	SBLK94	1000ml/1ml	7	1X		
52	B9X24	S-4488.01		8			
53	16	S-4491.01		9			
54	17	↓ 02		10			
55	↓ 25	↓ 03	↓	11			
56	SSTD0.4YU	SSTD0.4YU	—	12			
57	B9X27	S-4491.05	1000ml/1ml	13			
58	28	06		14			
59	29	07		15			
60	30	08		16			
61	31	09		17			
62	↓ 32	↓ 10	↓	18			
↓ 63	SSTD0.4YU	SSTD04YU	—	19	↓	↓	

NOTES: —

ANALYST: [signature] REVIEWER: KVR

KAP TECHNOLOGIES, INC.
Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 297-0611

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: D-5973

MAINTENANCE: —

TUNE FILE ID: D054 77 DATE: 12/13/11

METHOD FILES: CLPBD054 80 INETRNAL STD. ID: 275.150.01

ANALYTICAL METHOD: SOM1.2 ↓ 02

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	STANDARDS ID & COMMENTS
D054 77	DFTPP8S	DFTPP8S	—	1	1X	1.0ul	
78	SSTD0808S	SSTD0808S	—	2			
79	408S	408S	—	3			
80	208S	208S	—	4			
81	108S	108S	—	5			
82	058S	058S	—	6			

NOTES: —

ANALYST: [signature] REVIEWER: KVR 1513

KAP TECHNOLOGIES, INC.
Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 297-0611

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: D-5973

MAINTENANCE: —

TUNE FILE ID: D05483 DATE: 12/14/11

METHOD FILEs: CLPBD05480 INETRNAL STD. ID: 275·150·01 ↓ 02

ANALYTICAL METHOD: SOM1·2

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	STANDARDS ID & COMMENTS
D05483	DFTPP8T	DFTPP8T	—	1	1X	1.0ul	—
84	SSTD0208T	SSTD0208T	—	2			
85	GPCBLK67	GPCBLK67	10ml/1ml	3			
86	SBLK67	SBLK67	3R 60g/0.5ml	4			
87	F4XP0	S-4460·01	60.4	5			
88	P1	02	60.8	6			
89	P2	03	60.6	7			
90	P3	04	60.8	8			
91	P4	05	60.3	9			
92	P5	06	60.7	10			
93	P6	07	60.8	11			
94	↓ Q5	↓ 08	60.9 ↓	12			↓
95	SSTD0208U	SSTD0208U	—	15			X
96	F4XP7	S-4465·01	60.1 g/0.5ml	13			—
97	↓ P8	↓ 02	60.8 ↓	14			—
98	SSTD0208U	SSTD0208U	—	15	↓	↓	—

NOTES: —

ANALYST: [signature] REVIEWER: KVR 1514

KAP TECHNOLOGIES, INC.
Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 297-0611

INSTRUMENT RUNLOG – GC/MS EXTRACTABLES
INSTRUMENT ID: D-5973

MAINTENANCE: —

TUNE FILE ID: D05499 DATE: 12/15/11

METHOD FILEs: CLPBD054.80 INETRNAL STD. ID: 275-150-01 ↓ 02

ANALYTICAL METHOD: SOM1-2

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	STANDARDS ID & COMMENTS
D05499	DFTPP8V	DFTPP8V	—	1	1X	1.0ul	
D05500	SSTD0208V	SSTD0208V	—	2			
01	F4XP9	S-4465.03	60.3	3			
02	G6	↓ 04	60.6	4			
03	G0	S-4476.01	80.6	5			
04	G1	02	80.3	6			
05	G2	03	60.7	7			
06	G3	04	60.4	8			
07	G4	05	60.8	9			
08	G7	06	60.3	10			
09	G8	07	80.7	11			
10	G9	↓ 08	60.6	12			
11	P2MS	S-4460.03MS	60.3	13			
12	P2MSD	↓ 03MSD	60.6	14			
13	SSTD0208W	SSTD0208W	—	16			

NOTES: _____

ANALYST: _____ REVIEWER: KVR 1515

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 301-0611

SVOA - ORGANIC EXTRACTION LOG

FRACTION:

Extr. Start Date/Time: 12.13.2011 11.15
Extr. Complete Date/Time: 12.14.2011 ~~17.55~~ 11.55 R
Method: —

SVOA: ✓
GPC Date/Time: 12.13.2011 12.43

EXTRACTION PROCEDURE:

SEP. FUNNEL — SONIC. ✓ OTHER —
CONT. LIQ/LIQ — SOXHLET —
SOP: —

Lab Sample ID	Client Sample ID	Date Rec'd	Matrix	Sample Amount (g/ml)	Solvent Added (ml)	Conc. Volume (ml)	Vol. for GPC (ml)	GPC Elute Vol. (ml)	GPC Final Conc. Vol.(ml)	Matrix Spike Added (ul)	Surr Added (ul)	Remarks
SBLK CT	SBLK CT		SOIC	~~30.0~~ 38.0 ~~60.0~~	300	10mL	5mL	200mL	0.5mL	NA	1000	
S-HH60-01	F4XP0	12-07-11		60.4								
-02	P1	"		60.8								
-03	P2	"		60.6								
-04	P3	"		60.8								
-05	P4	"		60.3								
-06	P5	"		60.7								
-07	P6	"		60.8								
-08	P7	↓		60.9								
S-HH65-01	P7	12-08-11		60.1								
-02	P8	"		60.8								
-03	P9	"		60.3								
-04	Q6	"		60.6								

Methy. Chloride Lot No.: OE575
Acetone Lot No.: 1105464
H_2SO_4 Lot No.: —

Surrogate Sol. ID: 275-134-01
LCS/Matrix Spike Sol. ID: 131-02
Other: 131-03

Initials of Extraction Leader RMy Assistants
Initials of Sample Cleanup Leader K Assistants
Initials of Surrogate/Matrix Spiker K Verifier

NOTES: —

RECEIVED FOR ANALYSIS BY: K DATE: 12/14/11 TIME: 12.00 COMMENTS: —

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 301-0611

SVOA - ORGANIC EXTRACTION LOG

FRACTION:

Extr. Start Date/Time: 12.13.2011 11:15
Extr. Complete Date/Time: 12.14.2011 11:55
Method: —

SVOA: _____
GPC Date/Time: 12.13.11 12:43

EXTRACTION PROCEDURE:

SEP. FUNNEL — SONIC. ✓ OTHER —
CONT. LIQ/LIQ — SOXHLET —
SOP: —

Lab Sample ID	Client Sample ID	Date Rec'd	Matrix	Sample Amount (g/ml)	Solvent Added (ml)	Conc. Volume (ml)	Vol. for GPC (ml)	GPC Elute Vol. (ml)	GPC Final Conc. Vol.(ml)	Matrix Spike Added (ul)	Surr Added (ul)	Remarks
S-4476.01	F4XQD	12.9.11	SOIL	80.6	300	10mL	5mL	200mL	0.5mL	NA	1000	
.02	Q1			80.3								
.03	Q2			60.7								
.04	Q3			60.4								
.05	Q4			60.8								
.06	Q7			60.3								
.07	Q8			80.7								
.08	Q9			60.6								
S-4460.03 MS	P2 MS	12.07.11		60.3						1000		
.03 MSD	P2 MSD			60.6								BNA
.03 MS	P2MS			60.3								
.03 MSD	P2MSD			60.1								SIM

Methy. Chloride Lot No.: DE575
Acetone Lot No.: 110564
H_2SO_4 Lot No.: —
NOTES: —

Surrogate Sol. ID: 275-134-01
LCS/Matrix Spike Sol. ID: 131-02
Other: ↓ 131-03

Initials of Extraction Leader RAm Assistants
Initials of Sample Cleanup Leader K Assistants
Initials of Surrogate/Matrix Spiker K Verifier

RECEIVED FOR ANALYSIS BY: K DATE: 12/14/11 TIME: 12:00 COMMENTS: —

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 275-1210

ANALYST: SV

DILUTION SOLVENT/ Lot No.: Methylene Chloride lot# 10071683

PREP DATE: 12/8/11

EXPIRATION DATE: 6/8/12

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
CLP BNA ISTD	275-150-01	002 - 1185	2000	500	1000	1000
CLP BNA STK STD	↓ 02	1208	1000	160	160	↓
		1209	↓	↓	↓	↓
		1188	2000	80	↓	↓
		1189	↓	↓	↓	↓

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED N/A

REVIEWER: R

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 275-1210

ANALYST: SV

DILUTION SOLVENT/ Lot No.: Methylene Chloride lot # 10071683

PREP DATE: 12/8/11

EXPIRATION DATE: 6/8/12

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
CLP BNA STD-1	275.151.01	275.150.01	1000	20	20	1000
		02	160	31.2	5	
CLP BNA STD-2	275.151.02	01	1000	20	20	
		02	160	62.4	10	
CLP BNA STD-3	275.151.03	01	1000	20	20	
		02	160	125	20	
CLP BNA STD-4	275.151.04	01	1000	20	20	
		02	160	250	40	
CLP BNA STD-5	275.151.05	01	1000	20	20	
		02	160	500	80	

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER: [illegible]

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 275-1210

ORGANICS STANDARD PREP LOGBOOK

ANALYST: SV

DILUTION SOLVENT/ Lot No.: Methylene Chloride lot # 10071683

PREP DATE: 12/8/11

EXPIRATION DATE: 6/8/11

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
CLP SIM INT STD	275·152·01	002 – 1185	2000	20	40	1000
CLP SIM STK STD	↓ 02	1207	500	4	2	↓
		1095	1000	2	↓	
		1096	↓	↓		
		1000				

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED _____

REVIEWER: R

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 275-1210

ANALYST: SV

DILUTION SOLVENT/ Lot No.: Methylene Chloride / lot # 10071683

PREP DATE: 12/8/11

EXPIRATION DATE: 6/8/11

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
CLP SIM STD-1	275.153.01	275.152.01	40	5	0.4	500
		02	2	25	0.1	
CLP SIM STD-2	275.153.02	01	40	5	0.4	
		02	2	50	0.2	
CLP SIM STD-3	275.153.03	01	40	5	0.4	
		02	2	100	0.4	
CLP SIM STD-4	275.153.04	01	40	5	0.4	
		02	2	200	0.8	
CLP SIM STD-5	275.153.05	01	40	5	0.4	
		02	2	250	1.0	

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER:

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 304-0611

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: H-7890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 07/31/2011
DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: A10-PEST-3486.M
ANALYTICAL METHOD: SOM1.2 Cal. Std. ID's: 310-001-01 to 12

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
H3477	21	RESEY1	RESEY1	—	—	1µL	—
78	22	PEMY1	PEMY1				
79	23	TOXAPHIY1	TOXAPHIY1				
80	24	2Y1	2Y1				
81	25	3Y1	3Y1				
82	26	4Y1	4Y1				
83	27	5Y1	5Y1				
84	28	INDC1Y1	INDC1Y1				
85	29	2Y1	2Y1				
86	30	3Y1	3Y1				
87	31	4Y1	4Y1				
88	32	5Y1	5Y1				
89	33	PIBLKY1	PIBLKY1				
90	34	PEMZ1	PEMZ1				
91	35	FLOK02599	FLOK02599				
92	36	PIBLKZ1	PIBLKZ1				
93	37	INDC3Z1	INDC3Z1				
94	38	INDC3X1	INDC3X1				NOT used

NOTES:

ANALYST: K.V. Rao REVIEWER:

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 304-0611

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: H-7890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/26/2011
DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: CLPEST-5250.M
ANALYTICAL METHOD: SOM1.2 Cal. Std. ID's: 310-67-01 to 2

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
H5241	1	RESC11	RESC11			1µL	
42	2	PEM11	PEM11				
43	3	TOXAPH11	TOXAPH111				
44	4	21	21				
45	5	31	31				
46	6	41	41				
47	7	511	511				
48	8	INDC111	INDC111				
49	9	21	21				
50	10	311	311				
51	11	411	411				
52	12	511	511				
53	13	PIB2IC11	PIB2IC11				
54	14	PEM21	PEM21				
55	15	~~GPCB2KS7~~	GPCB2KS7				
56	16	GPCPEST57	GPCPEST57				
57	17	PB2IC57	PB2IC57	30.0G/5.0ML			
58	18	P2CS57	P2CS57	↓			
59	19	PB2K03	PB2K03	1000ML/10ML			
60	20	P2CS03	P2CS03	↓			
61	21	COAA5	S-4468.01	1000ML/10ML			
62	22	A6	.02	↓			
63	23	A6MS	.02MS	500ML/10ML			

NOTES:

ANALYST: C.V. Rao REVIEWER: R

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 304-0611

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: H-7890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/27/2011
DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: CLP-PEST-5950.M
ANALYTICAL METHOD: SOM1.2 Cal. Std. ID's: 310-67-01&02

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
H5264	24	COAA6MSD	S-4468.02MSD	30.0/10.0ML	—	1µL	—
65	25	22222	22222	—			
66	26	PIB2R1	PIB2R1	—			
67	27	INDC321	INDC321	—			
68	28	INDC331	INDC331	—			Not used.
69	29	FUXPO	S-4460.01	30.1 G/5ML			
70	31	P1	.02	30.3			
71	32	P2	.03	29.9			
72	33	P3	.04	30.1			
73	34	P4	.05	30.3			
74	35	P5	.06	30.2			
75	36	P6	.07	30.4			
76	37	Q5	.08	30.1			
77	38	P7	S-4465.01	30.3			
78	39	P8	.02	30.1			
79	40	P9	.03	30.0			
80	41	Q6	.04	30.3			
81	42	Q0	S-4476.01	30.1			
82	43	Q1	.02	29.9			
83	44	Q2	.03	30.2			
84	45	Q3	.04	30.1			
85	46	Q4	.05	30.3			
86	47	Q7	.06	30.1			

NOTES: —

ANALYST: Q.V.Rao REVIEWER: R

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 304-0611

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: H-7890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/28/2011
DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: CLPPEST5250.M
ANALYTICAL METHOD: SOM1.2 Cal. Std. ID's: 310-67-01 to 12

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
H5287	48	FUX Q8	S-4476.07	30.3 g/5mL	—	1uL	
88	49	Q9	.08	30.1 g/5mL			
89	50	P2MS	S-4460.03MS	30.0 g/5mL			
90	51	P2MSD	.03MSD	30.1 g/5mL			
91	52	ZZZZZ	—	—			
92	53	P1B2R31	P1B2R31	—			
93	54	PEM31	PEM31	—			
~~94~~	~~55~~	~~PEM41~~	~~PEM41~~				~~No [illegible]~~

NOTES:

ANALYST: K.V. [illegible] REVIEWER: [illegible]

Page: 1525

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 317-0911

ORGANIC EXTRACTION LOG - SOIL

Extr. Start Date/Time: 12.14 2011 13.10
Extr. Complete Date/Time: 12.15.2011 16.45

FRACTION
PEST ✓ PCB —

GPC Date/Time: 12.14.2011 14.15

EXTRACTION PROCEDURE
SEP. FUNNEL — SONIC. ✓ OTHER —
CONT. LIQ/LIQ —

Lab Sample ID	Client Sample ID	Date Rec'd	Matrix	Sample Amount (g/ml)	Solvent Added (ml)	Conc. Volume (ml)	Vol. for GPC (ml)	GPC Elute Vol. (ml)	GPC Final Conc. Vol.(ml)	Vol. for Flori.(ml)	Florl.Final Vol. (ml)	Acid Clenup Y/N	Sulfur Cleanup Y/N	Matrix Spike Added (ul)	Surr. Added (ul)
PBLK57	PBLK57	—	SOIL	30.0	300	10mL	5mL	200mL	5mL	2mL	2mL	NA	NA	NA	1000
PLCS57	PLCS57	—		30.6										1000	
S-4460.01	F4XP0	12.7.11		30.1										NA	
.02	P1			30.3											
.03	P2			29.9											
.04	P3			30.1											
.05	P4			30.3											
.06	P5			30.2											
.07	P6			30.4											
.08	Q5			30.1											
S-4465.01	P7	12.8.11		30.3											
.02	P8			30.1											
.03	P9			30.0											

Methy. Chloride Lot No.: DE 575
Hexane Lot No.: 1011247
Acetone Lot No.: 1105464
Ether Lot No.: —

Surrogate Sol. ID: ~~DE 575~~ 310.54.01
LCS/Matrix Spike Sol. ID: 310.54.04 / 310.54.05
Florisil Lot ID: K02599
H_2SO_4 Lot No.: —

Initials of Extraction Leader RAM Assistants
Initials of Sample Cleanup Leader ___ Assistants
Initials of Surrogate Spiker ___ Verifier
Initials of Matrix Spike Spiker ___ Verifier

Comments: —

RECEIVED FOR ANALYSIS BY: RV Rao DATE: 12/15/11 TIME: 16.55 COMMENTS: —

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 317-0911

ORGANIC EXTRACTION LOG - SOIL

FRACTION: PEST ✓ PCB —

EXTRACTION PROCEDURE: SEP. FUNNEL — SONIC. ✓ OTHER —

Extr. Start Date/Time: 12.14.2011 13.10

Extr. Complete Date/Time: 12.15.2011 16.45

GPC Date/Time: 12.14.2011 14.15

CONT. LIQ/LIQ —

Lab Sample ID	Client Sample ID	Date Rec'd	Matrix	Sample Amount (g/ml)	Solvent Added (ml)	Conc. Volume (ml)	Vol. for GPC (ml)	GPC Elute Vol. (ml)	GPC Final Conc. Vol.(ml)	Vol. for Flori.(ml)	Florl.Final Vol. (ml)	Acid Clenup Y/N	Sulfur Cleanup Y/N	Matrix Spike Added (ul)	Surr. Added (ul)
S-4465.4	F4X06	12.8.11	Soil	30.3	300	10mL	5mL	200mL	5mL	2mL	2mL	NA	NA	NA	1000
S-4476.01	Q0	12.9.11		30.1											
.02	Q1			29.9											
.03	Q2			30.4											
.04	Q3			30.1											
.05	Q4			30.3											
.06	Q7			30.1											
.07	Q8			30.3											
.08	Q9			30.1											
S-4460.03MSD	P2MS	12.7.11		30.1										1000	
.03MSD	P2MSD			30.3											

Methy. Chloride Lot No.: DE575

Hexane Lot No.: 1011247

Acetone Lot No.: 1105464

Ether Lot No.: —

Surrogate Sol. ID: 310.54.01

LCS/Matrix Spike Sol. ID: 310.54.04, 310.54.05

Florisil Lot ID: K02599

H_2SO_4 Lot No.: —

Initials of Extraction Leader RAm. Assistants

Initials of Sample Cleanup Leader — Assistants

Initials of Surrogate Spiker — Verifier

Initials of Matrix Spike Spiker — Verifier

Comments: —

RECEIVED FOR ANALYSIS BY: [illegible] DATE: 12/15/11 TIME: 16.55 COMMENTS: —

F4X06

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: K.V.RAO

DILUTION SOLVENT/ Lot No.: Hexane:

PREP DATE: 07/28/2011

EXPIRATION DATE: 01/27/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
TOXAPH-5	310-001-01	002-0648	1000	80.0	8.0	10,000
↓	↓	002-1023	200	4.0	0.08	↓
↓	↓	002-1024	200	8.0	0.16	↓
TOXAPH-4	310-001-02	310-001-01	8.0	5000	4.0	10,000
↓ -3	↓ -03	↓ -02	4.0	5000	2.0	10,000
↓ -2	↓ -04	↓ -03	2.0	4000	1.0	8000
↓ -1	↓ -05	↓ -04	1.0	3000	0.5	6000
INDC-5 (FLO)	310-001-06	002-0214	1000	2.5	0.25	10,000
↓	↓	002-0816	80-80.0	100.0	0.08-0.8	↓
↓	↓	002-1023	200	4.0	0.08	↓

Dilution 07/28/11

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER: K

Page:

0001

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: K.V.RAO

DILUTION SOLVENT/ Lot No.: Hexane :

PREP DATE: 07/28/2011

EXPIRATION DATE: 01/27/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
INDC-5(Flo)	310-001-06	002-1024	200	8.0	0.16	10,000
-4	310-001-07	310-001-06	0.08-0.8	6000	0.04-0.4	12000
-3	-08	-07	0.04-0.4	8000	0.02-0.2	16000
-2	-09	-08	0.01-0.2	4000	0.01-0.1	8000
-1	-10	-09	0.01-0.1	2000	0.005-0.05	4000
PIBLK	310-001-011	002-1023	200	1.0	0.02	10,000
↓	↓	002-1024	200	2.0	0.04	↓
PEM	310-001-12	002-0817	1-25	100	0.01-0.25	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	~~1.0~~ 1.0	0.02	↓

Q'Lab 07/28/11

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER:

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: K.V.RAO

DILUTION SOLVENT/ Lot No.: Acetone - 1105454

PREP DATE: 08/02/2011

EXPIRATION DATE: 02/01/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
Surrogate (PEST-PCB)	310-006-01	002-1023	200	1500	0.6	500,000
↓	↓	002-1024	200	3000	1.2	↓
PCB-LCS	310-006-02	002-0651	1000	100.0	1.0	100,000
PCB-Matrix	310-006-03	002-0651	1000	400.0	4.0	100,000
PEST-LCS	310-006-04	002-0650	10-20	250.0	0.05-1.0	~~500,000~~ 50,000
PEST-Matrix	310-006-05	002-0714	25-50	2000	0.5-1.0	100,000
CPC-PEST	310-006-06	002-0714	25-50	400	0.2-0.4	50,000
TCLP-LCS (PEST	310006-07	002-0936	8-80	125.0	0.05-0.5	20,000
TCLP-Matrix(PEST)	310-006-08	002-0936	8-80	1000	0.4-4.0	20,000

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER: K

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: C.V. RAO

DILUTION SOLVENT/ Lot No.: Acetone - 110549P

PREP DATE: 11/04/2011

EXPIRATION DATE: 05/03/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
Surrogate (PEST-PCB)	310-54-01	002-1023	200	1500	0.6	500,000
↓	↓	002-1024	200	3000	1.2	↓
PCB-LCS	310-54-02	002-0651	1000	100.0	1.0	100,000
PCBS-Matrix	310-054-03	002-0651	1000	400.0	4.0	100,000
PEST-LCS	310-54-04	002-0650	10-20	250	0.05-1.0	50,000
PEST-Matrix	310-54-05	002-0714	25-50	2000	0.5-1.0	100,000
GPC-PEST	310-54-06	002-0714	25-50	400	0.2-0.4	50,000
PEST-TCLP-LCS	310-54-07	002-0936	8-80	125.0	0.05-0.5	20,000
PEST-TCLP-Matrix	310-054-08	002-0936	8-80	1000	0.4-4.0	20,000

11/4/2011

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER:

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: ICV Rao

DILUTION SOLVENT/ Lot No.: HEXAE 1011247

PREP DATE: 11/26/2011

EXPIRATION DATE: 05/25/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
TOXAPH -5	310-67-01	002-0648	1000	80.0	8.0	10,000
↓		002-1023	200	4.0	0.08	↓
↓		002-1024	200	8.0	0.16	↓
TOXAPH -4	310-67-02	310-67-01	8.0	5000	4.0	10,000
-3	-03	-02	4.0	5000	2.0	10,000
-2	-04	-03	2.0	4000	1.0	8000
-1	-05	-04	1.0	3000	0.5	6000
INDC -5	310-67-06	002-0923	8.80	100.0	0.08-0.8	10,000
↓	↓	002-1023	200	4.0	0.08	↓
↓	↓	002-1024	200	8.0	0.16	↓

11/26/11

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER:

Page:

0067

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: KVRAO

DILUTION SOLVENT/ Lot No.: HEXANE - 1011247

PREP DATE: 11/26/2011

EXPIRATION DATE: 05/25/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
INDC -4	310-67-07	310-67-06	0.08-0.8	6000	0.04-0.4	12000
-3	-08	-07	0.04-0.4	8000	0.02-0.2	16000
-2	-09	-08	0.02-0.2	4000	0.01-0.1	8000
-1	-10	-09	0.01-0.1	2000	0.005-0.05	4000
PIB2K	310-67-11	002-1023	200	2.0	0.02	20,000
		002-1024	200	4.0	0.04	
PEM	310-67-12	002-0851	1-25	100.0	0.01-0.25	10,000
		002-1023	200	1.0	0.02	
		002-1024	200	1.0	0.02	

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER: [illegible]

Page:

0068

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/22/11

DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: AR1660-SS866.M

ANALYTICAL METHOD: SOM1.2 AR mod 2207 Cal. Std. ID's: 310.61-01 to 13

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P39864	66	AR1660 111	AR1660 111			1µL	
65	67	211	211				
66	68	311	311				
67	69	411	411				
68	70	511	511				
69	71	AR1221 311	AR1221 311				
70	72	32311	32311				
71	73	42311	42311				
72	74	48311	48311				
73	75	54311	54311				
74	76	62311	62311				
75	77	68311	68311				
76	78	A1B2C 11	A1B2C 11				
77	79	AR1660321	AR1660321				
78	80	AR1221 111	AR1221 111				
79	81	211	211				
80	82	321	321				
81	83	411	411				
82	84	511	511				
83	85	AR1242 111	AR1242 111				→ I col fields
84	86	24	24				
85	87	321	321				
86	88	411	411				

NOTES: AR1221 ; AR ~~1254~~ 1242 and AR1254 ~~5 points~~
I col under mod 2207.

ANALYST: K.V. Rao REVIEWER: d

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/22/14

DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: AR1660-3P866.M

ANALYTICAL METHOD: SOM1.2 AFOMod2207 Cal. Std. ID's: 310-61-01to03

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P3P887	8P	AR1242511	AR1242511			1µL	Icalfailed
88	P0	AR1254111	AR1254111				
8P	P1	24	241				
P0	P2	321	321				
P1	P3	411	411				
P2	P4	511	511				
P3	P5	A1B2F21	A1B2K21				

NOTES: AR1221; AR1242 & AR1254 Icals Mod2207.

ANALYST: KV Rao REVIEWER: R

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: **ECD** COLUMN A: RTX-CLP II DATE: 12/22/14

DETECTOR B: **ECD** COLUMN B : RTX-CLP METHOD FILES: AR1660-3P866.M

ANALYTICAL METHOD: SOM1.2 Mod 220D Cal. Std. ID's: 310-61-01A013

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P39899	81	AR124211	AR124211			1µL	
900	82	211	211				
01	83	321	321				→ Ical used.
02	84	411	411				
03	85	511	511				
04	86	AR124111	AR124111				
05	87	211	211				
06	88	321	321				Ical → failed.
07	89	411	411				
08	90	511	511				
09	91	A1B2KC21	A10LK21				

NOTES: AR1221 – Ical failed.

ANALYST: DV Rao REVIEWER:

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/22/14
DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: AR1660-39866.M
ANALYTICAL METHOD: SO M1.2 AR1660 2207 Cal. Std. ID's: 310-61-01 to 13

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P39950	1	AR1221111	AR1221111			1uL	
P39951	2	211	211				
52	3	321	321				
53	4	411	411				
54	5	511	511				
55	66	A1BLK31	A1BLK31				
56	67	AR1660331	AR1660331				
57	68	AR1221331	AR1221331				
58	69	AR1242331	AR124231				
59	70	AR1254331	AR1254331				
60	71	ABLK42	ABLK42	1000mL/10mL			
61	72	ZZZZZ	ZZZZZ				
62	73	ABLK56	ABLK56	30.0G/10mL			
63	74	ALCS56	ALCS56	30.0G/10mL			
64	75	ALCS42	ALCS42	1000mL/10mL			
65	76	FUXRO	S-4475.01				
66	77	R1	.02				
67	78	R2	.03				
68	79	P0	S-4460.01	46.1 G/10mL			AR1260 Hit
69	80	P1	.02	49.9			
70	81	P2	.03	50.3			AR1254 Hit
71	82	P3	.04	50.1			
72	83	P4	.05	48.1			

NOTES:

ANALYST: Q.V. Rao REVIEWER: R

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: **ECD** COLUMN A: RTX-CLP II DATE: 12/22/14

DETECTOR B: **ECD** COLUMN B : RTX-CLP METHOD FILES: AR1660 - 73866.07

ANALYTICAL METHOD: Soml:2 ARO mod 2207 Cal. Std. ID's: 310-61-01 7013

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P38873	84	FGX P5	L-4460.06	45.2g/10mL	—	1µL	
74	85	↓ P6	↓ .07	30.3g/10mL			1254
75	86	ZZZZZ	ZZZZZ	—			—
76	87	AIBLK41	AIBLK41				
77	88	AR1660J41	AR1660J41				
78	89	AR1221J41	AR1221J41				
79	90	AR1242J41	AR1242J41				
80	91	AR1254J41	AR1254J41				

NOTES:

ANALYST: K.V. Rao REVIEWER: K

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: ECD COLUMN A: RTX-CLP II DATE: 12/28/4
DETECTOR B: ECD COLUMN B : RTX-CLP METHOD FILES: AR1660-39866.M
ANALYTICAL METHOD: Som 1.2 Mod ARO 2207 Cal. Std. ID's: 310.61 - 017013

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P39995	1	AIBLK51	AIBLK51			1 ml	
96	2	AR1660351	AR1660351				
97	3	AR1221351	AR1221351				
98	4	AR1224351	AR1224351				
99	5	AR1254351	AR1254351				
P40000	6	FBLK05	S-4460.08	48.1g/10mL			1254
01	7	P7	S-4465-01	50.1			1254
02	8	P8	.02	50.2			R ~~1254~~
03	9	P9	.03	50.1			1254
04	10	BL6	.04	48.4			
05	11	BL0	S-4476.01	50.1			
06	12	BL1	.02	50.3			
07	13	BL2	.03	50.1			1242 - 1254
08	14	BL3	.04	50.3			
09	15	BL4	.05	50.1			
10	16	BL7	.06	48.1			
11	17	BL8	.07	50.3			1254
12	18	BL9	.08	50.1			1242 - 1254
13	19	P2MS	S-4460.03MS	50.3			1254MS
14	20	P2MSD	.03MSD	50.1			1254MSD
15	21	ZZZZZ	ZZZZZ	-			
16	22	AIBLK61	AIBLK61				
17	23	AR1660361	AR1660361				

NOTES:

ANALYST: R.V.Rao REVIEWER:

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 316-0811

INSTRUMENT RUN LOG – GC EXTRACTABLES
INSTRUMENT ID: P-6890

DETECTOR A: **ECD** COLUMN A: RTX-CLP II DATE: 12/28/14

DETECTOR B: **ECD** COLUMN B : RTX-CLP METHOD FILES: AR1660-38866.M

ANALYTICAL METHOD: Sonic 2 mod ARO 2207 Cal. Std. ID's: _____

FILE ID	SAMPLE POSITION	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	DIL	INJ. VOL	STANDARDS ID & COMMENTS
P40018	24	AR12a1361	AR1221361	—	—	1ML	—
19	25	AR12[illegible]2361	AR1242361	↓	↓	↓	↓
20	66	AR1254361	AR1254361				

NOTES: _____

ANALYST: R.V. Rao REVIEWER: _____

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 317-0911

ORGANIC EXTRACTION LOG - SOIL

FRACTION

Extr. Start Date/Time: 12.14.2011 9.10
Extr. Complete Date/Time: 12.14.2011 13.35

PEST — PCB ✓
GPC Date/Time: —

EXTRACTION PROCEDURE

SEP. FUNNEL — SONIC. ✓ OTHER —
CONT. LIQ/LIQ —

MOD 2207

Lab Sample ID	Client Sample ID	Date Rec'd	Matrix	Sample Amount (g/ml)	Solvent Added (ml)	Conc. Volume (ml)	Vol. for GPC (ml)	GPC Elute Vol. (ml)	GPC Final Conc. Vol.(ml)	Vol. for Flori.(ml)	Flori.Final Vol. (ml)	Acid Clenup Y/N	Sulfur Cleanup Y/N	Matrix Spike Added (ul)	Surr. Added (ul)
ABLK 56	ABLK56	—	SOIL	30.0	300	10mL	NA	NA	NA	NA	NA	yes	NA	NA	1000
ALCS 56	ALCS56	—		30.0										1000	
S-4460.01	F4XPD	12.7.11		46.1										NA	
.02	P1			49.9											
.03	P2			50.3											
.04	P3			50.1											
.05	P4			48.1											
.06	P5			45.2											
.07	P6			50.3											
.08	Q5			48.1											
S-4465.01	P7	12.8.11		50.1											
.02	P8			50.2											
.03	P9			50.1											

Methy. Chloride Lot No.: DE 575
Hexane Lot No.: 1011247
Acetone Lot No.: 110546A
Ether Lot No.: —

Surrogate Sol. ID: 310.54.01
LCS/Matrix Spike Sol. ID: 310.76.01, 310.76.02
Florisil Lot ID: —
H_2SO_4 Lot No.: E1210

Initials of Extraction Leader RGm. Assistants
Initials of Sample Cleanup Leader — Assistants
Initials of Surrogate Spiker — Verifier
Initials of Matrix Spike Spiker — Verifier

Comments: AR1242 LCS; AR1254 MS & MSD.

RECEIVED FOR ANALYSIS BY: [illegible] DATE: 12/14/11 TIME: 15.30 COMMENTS: —

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 317-0911

ORGANIC EXTRACTION LOG - SOIL

FRACTION

Extr. Start Date/Time: 12.14.2011 9.10 PEST — PCB ✓

Extr. Complete Date/Time: 12.14.2011 13.35 GPC Date/Time: —

EXTRACTION PROCEDURE

SEP. FUNNEL — SONIC. ✓ OTHER —

CONT. LIQ/LIQ —

MOD 2207

Lab Sample ID	Client Sample ID	Date Rec'd	Matrix	Sample Amount (g/ml)	Solvent Added (ml)	Conc. Volume (ml)	Vol. for GPC (ml)	GPC Elute Vol. (ml)	GPC Final Conc. Vol.(ml)	Vol. for Flori.(ml)	Flori.Final Vol. (ml)	Acid Clenup Y/N	Sulfur Cleanup Y/N	Matrix Spike Added (ul)	Surr. Added (ul)
S-4465.4	FHXQ6	12.8.11	SOIL	48.4	300	10mL	NA	NA	NA	NA	NA	Yes	NA	NA	1000
S-4476.01	Q0	12.9.11		51.1											
.02	Q1			51.3											
.03	Q2			50.0											
.04	Q3			50.3											
.05	Q4			50.1											
.06	Q7			48.1											
.07	Q8			50.3											
.08	Q9			50.1											
S-4460.3MS	P2MS	12.07.11		50.3										1000	
.03MSD	P2MSD			50.1											

Methy. Chloride Lot No.: DE575

Hexane Lot No.: 1011247

Acetone Lot No.: 1105464

Ether Lot No.: —

Surrogate Sol. ID: 310.54.01

LCS/Matrix Spike Sol. ID: 310.76.01, 310.76.02

Florisil Lot ID: —

H_2SO_4 Lot No.: E1210

Initials of Extraction Leader RAy. Assistants

Initials of Sample Cleanup Leader M Assistants

Initials of Surrogate Spiker A Verifier

Initials of Matrix Spike Spiker A Verifier

Comments: AR1242 LCS; MS & MSD AR1254.

RECEIVED FOR ANALYSIS BY: C Wood DATE: 12/14/11 TIME: 15.80 COMMENTS:

51

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: C.V. RAO

DILUTION SOLVENT/ Lot No.: Acetone - 110549P

PREP DATE: 11/04/2011

EXPIRATION DATE: 05/03/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
Surrogate (PEST-PCB)	310-54-01	002-1023	200	1500	0.6	500,000
↓	↓	002-1024	200	3000	1.2	↓
PCB-LCS	310-54-02	002-0651	1000	100.0	1.0	100,000
PCBS-Matrix	310-054-03	002-0651	1000	400.0	4.0	100,000
PEST-LCS	310-54-04	002-0650	10-20	250	0.05-1.0	50,000
PEST-Matrix	310-54-05	002-0714	25-50	2000	0.5-1.0	100,000
GPC-PEST	310-54-06	002-0714	25-50	400	0.2-0.4	50,000
PEST-TCLP-LCS	310-54-07	002-0936	8-80	125.0	0.05-0.5	20,000
PEST-TCLP-Matrix	310-054-08	002-0936	8-80	1000	0.4-4.0	20,000

CV 11/4/2011

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

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Page:

0054

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: KVRAO

DILUTION SOLVENT/ Lot No.: Hexane 101247

PREP DATE: 11/04/2011

EXPIRATION DATE: 05/03/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR1660 - 5	310-61-01	002-0651	1000	16.0	1.6	10,000
	↓	002-1023	200	4.0	0.08	↓
	↓	002-1024	200	8.0	0.16	↓
AR1660-4	310-61-02	310-61-01	1.6	6000	0.8	12,000
↓ -3	↓ -03	↓ -02	0.8	8000	0.4	16,000
↓ -2	↓ -04	↓ -03	0.4	3000	0.2	6000
↓ -1	↓ -05	↓ -04	0.2	2000	0.1	4000
AR1221 - 3	310-61-06	002-0355	1000	4.0	0.4	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	2.0	0.04	↓

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

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Page:

0061

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 310-0711

ORGANICS STANDARD PREP LOGBOOK

ANALYST: ICV RAO

DILUTION SOLVENT/ Lot No.: Hexane 101247

PREP DATE: 11/04/2010

EXPIRATION DATE: 05/03/2011

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR 1239 - 3	310-61-07	002-0297	1000	4.0	0.4	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	2.0	0.04	↓
AR 1242 - 3	310-61-08	002-0296	1000	4.0	0.4	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	2.0	0.04	↓
AR 1248 - 3	310-61-09	002-0357	1000	4.0	0.4	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	2.0	0.04	↓
AR 1254 - 3	310-61-10	002-0356	1000	4.0	0.4	10,000

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER: R

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: KVRAO

DILUTION SOLVENT/ Lot No.: Hexane hex-10/1247

PREP DATE: 11/4/2011

EXPIRATION DATE: 05/03/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR1254-3	310-61-10	002-1023	200	1.0	0.02	10,000
	↓	↓1024	200	2.0	0.04	↓
AR1262-3	310-61-11	002-0353	1000	4.0	0.4	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	2.0	0.04	↓
AR1268-3	310-61-12	002-0537	1000	4.0	0.4	10,000
↓	↓	002-1023	200	1.0	0.02	↓
↓	↓	002-1024	200	2.0	0.04	↓
AIBHK	310-61-13	002-1023	200	1.0	0.02	10,000
	↓	002-1024	200	2.0	0.04	↓

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED _____

REVIEWER: K

Page:

0063

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: RV Rao

DILUTION SOLVENT/ Lot No.: Acetone 110564

PREP DATE: 12/08/2011

EXPIRATION DATE: 06/07/2012 AROmod 2207.

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR1242-LCS	310-76-01	002-0296	1000	20.0	0.4	50,000
AR1254-MS&MSD	310-76-02	002-0356	1000	200	2.0	100,000
AIBLK stock	310-76-03	002-1023	200	0.5	0.05	20,000
	↓	002-1024	200	1.0	0.10	↓
AR1221-MDL-Spike	310-76-04	002-0355	1000	8.0	0.4	20,000
AR1242-MDL-Spike	310-76-05	002-0296	1000	8.0	0.4	20,000
AR1254-MDL-Spike	310-76-06	002-0356	1000	8.0	0.4	20,000

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED

REVIEWER: [illegible]

Page:

0076

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 310-0711

ORGANICS STANDARD PREP LOGBOOK

ANALYST: KV Rao

DILUTION SOLVENT/ Lot No.: Hexane 110112427

PREP DATE: 12/08/2011

EXPIRATION DATE: 06/07/2012

AROmod 2207

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR1221 — 5	310-77-01	002-03555	1000	8.0	0.8	10,000
		002-1023	200	4.0	0.08	
		002-1024	200	8.0	0.16	
AR1221 — 4	310-77-02	310-77-01	0.8	6000	0.4	12,000
— 3	-03	-02	0.4	8000	0.2	16,000
— 2	-04	-03	0.2	3000	0.1	6000
— 1	-05	-04	0.1	1000	0.02	(1000 + 3000 ABLK Spk) 5000

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED AIBLK Spks 310-76-03

AR1221 — 1 (1000 uL + AROmod 1000uL + AIBLK Spk 3000uL) = 5000 uL)

REVIEWER: R

Page:

0077

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: CV Rao

DILUTION SOLVENT/ Lot No.: Hexane 110 11247

PREP DATE: 12/08/2011

EXPIRATION DATE: 06/07/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR1242-5	310-78-01	002-02996	1000	8.0	0.8	10,000
↓	↓	002-1023	200	4.0	0.08	↓
↓	↓	002-1024	200	8.0	0.16	↓
AR1242-4	310-77-02	310-78-01	0.8	6000	0.4	12,000
↓ -3	↓ -03	↓ -02	0.4	8000	0.2	16,000
↓ -2	↓ -04	↓ -03	0.2	3000	0.1	6000
↓ -1	↓ -05	↓ -04	0.1	1000	0.02	5000

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED A1BAK Stock 310-76-03 (3000 uL) used to dilute AR1242-L-1. (310-77-05). and n hexane 1000 uL

REVIEWER: R

Page:

0078

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

ORGANICS STANDARD PREP LOGBOOK

RCN: 310-0711

ANALYST: K.V. Rao

DILUTION SOLVENT/ Lot No.: Hexane. 110 11247

PREP DATE: 12/08/2011

EXPIRATION DATE: 06/07/2012

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
AR1254 - 5	310-79-01	002-0356	1000	8.0	0.8	10,000
↓	↓ -~~02~~ 01	002-1023	200	4.0	0.08	↓
↓	↓ -~~03~~ 01	002-1024	200	8.0	0.16	↓
AR1254 - 4	310-79-02	310-79-01	0.8	6000	0.4	12,000
↓ -3	↓ -03	↓ -02	0.4	12,000	0.2	16,000
↓ -2	↓ -04	↓ -03	0.2	3000	0.1	6000
↓ -1	↓ -05	↓ -04	0.1	1000	0.02	5000

12/08/11

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED AIBLK stock 310-76-03;
AR1254-L-1 (310-79-04 1000 uL + n Hexane 1000 uL + 3000 uL stock (310-76-03).

REVIEWER: R

Page:

0079

ARO (MA-2207)

MDL'S

1549A

KAP TECHNOLOGIES INC., SOM1.2- PCBS MDL MOD 2207 STUDY (MED SOIL)

INST P-6890A 12/21/2011 COLUMN-1

Compound Name	MDL#1	MDL#2	MDL#3	MDL#4	MDL#5	MDL#6	MDL# 7	MDL(ug/L)	CRQL	Amount Spiked(ug/L)	Factor
AR1221-1	10.66	11.45	11.69	10.83	11.93	12.78	10.13	2.795	6.667	13.3	4.8
AR1221-2	10.01	10.95	11.52	10.63	10.87	12.43	9.78	2.823	6.667	13.3	4.7
AR1221-3	11.16	12.01	12.35	11.45	12.45	13.46	10.74	2.883	6.667	13.3	4.6
AR1221	**31.827**	**34.413**	**35.563**	**32.913**	**35.247**	**38.673**	**30.647**	**2.834**	**6.667**	**13.3**	**4.7**
	MDL#1	**MDL#2**	**MDL#3**	**MDL#4**	**MDL#5**	**MDL#6**	**MDL# 7**				
AR1221-1	31.99	34.36	35.07	32.48	35.78	38.35	30.39				
AR1221-2	30.02	32.86	34.57	31.9	32.61	37.28	29.34				
AR1221-3	33.47	36.02	37.05	34.36	37.35	40.39	32.21				

File Name	*P39820*	*P39821*	*P39822*	*P39823*	*P39825*	*P39826*	*P39835*

KAP TECHNOLOGIES INC., SOM1.2- PCBS MDL MOD 2207 STUDY (MED SOIL)

INST P-6890B 12/21/2011 COLUMN-2

Compound Name	MDL#1	MDL#2	MDL#3	MDL#4	MDL#5	MDL#6	MDL# 7	MDL(ug/L)	CRQL	Amount Spiked(ug/L)	Factor
AR1221-1	10.45	10.06	9.33	10.15	10.73	11.62	9.73	2.329	6.667	13.3	5.7
AR1221-2	13.07	12.81	12.81	12.41	14.39	12.91	13.42	2.011	6.667	13.3	6.6
AR1221-3	13.37	13.35	12.50	13.57	13.05	14.38	11.71	2.656	6.667	13.3	5.0
AR1221	**36.891**	**36.224**	**34.641**	**36.125**	**38.177**	**38.911**	**34.860**	**2.332**	**6.667**	**13.3**	**5.7**
	MDL#1	**MDL#2**	**MDL#3**	**MDL#4**	**MDL#5**	**MDL#6**	**MDL# 7**				
AR1221-1	31.36	30.19	27.98	30.44	32.2	34.85	29.19				
AR1221-2	39.203	38.423	38.433	37.226	43.18	38.744	40.27				
AR1221-3	40.11	40.06	37.51	40.71	39.15	43.14	35.12				

KAP TECHNOLOGIES INC., SOM1.2- PCBS MDL MOD 2207 STUDY (MED SOIL)

INST P-6890A 12/20/2011 COLUMN-1

Compound Name	MDL#1	MDL#2	MDL#3	MDL#4	MDL#5	MDL#6	MDL# 7	MDL(ug/L)	CRQL	Amount Spiked(ug/L)	Factor
AR1242-1	12.56	14.12	12.46	14.33	13.41	13.48	11.42	3.219	6.667	13.3	4.1
AR1242-2	13.04	12.15	12.10	12.80	12.05	13.25	12.37	1.540	6.667	13.3	8.7
AR1242-3	11.39	11.05	12.05	12.21	11.61	11.97	10.68	1.771	6.667	13.3	7.5
AR1242	**36.990**	**37.317**	**36.613**	**39.337**	**37.077**	**38.707**	**34.470**	**2.177**	**6.667**	**13.3**	**6.1**
	MDL#1	**MDL#2**	**MDL#3**	**MDL#4**	**MDL#5**	**MDL#6**	**MDL# 7**				
AR1242-1	37.68	42.36	37.38	42.98	40.24	40.44	34.27				
AR1242-2	39.13	36.44	36.31	38.4	36.16	39.76	37.11				
AR1242-3	34.16	33.15	36.15	36.63	34.83	35.92	32.03				
File Name	***P39800***	***P39801***	***P39802***	***P39803***	***P39804***	***P39805***	***P39806***				

KAP TECHNOLOGIES INC., SOM1.2- PCBS MDL MOD 2207 STUDY (MED SOIL)

INST P-6890B 12/20/2011 COLUMN-2

Compound Name	MDL#1	MDL#2	MDL#3	MDL#4	MDL#5	MDL#6	MDL# 7	MDL(ug/L)	CRQL	Amount Spiked(ug/L)	Factor
AR1242-1	11.54	11.60	11.80	12.59	12.86	10.65	12.73	2.522	6.667	13.3	5.3
AR1242-2	11.07	11.19	11.49	12.32	12.50	10.27	11.67	2.403	6.667	13.3	5.5
AR1242-3	11.46	12.82	11.59	12.29	12.94	11.24	12.80	2.265	6.667	13.3	5.9
AR1242	**34.067**	**35.613**	**34.877**	**37.197**	**38.300**	**32.157**	**37.203**	**2.397**	**6.667**	**13.3**	**5.6**
	MDL#1	**MDL#2**	**MDL#3**	**MDL#4**	**MDL#5**	**MDL#6**	**MDL# 7**				
AR1242-1	34.61	34.81	35.41	37.77	38.59	31.94	38.2				
AR1242-2	33.2	33.56	34.46	36.96	37.5	30.8	35.02				
AR1242-3	34.39	38.47	34.76	36.86	38.81	33.73	38.39				

KAP TECHNOLOGIES INC., SOM1.2- PCBS MDL MOD-2207 STUDY (MED SOIL)

INST P-6890A 12/21/2011 COLUMN-1

Compound Name	MDL#1	MDL#2	MDL#3	MDL#4	MDL#5	MDL#6	MDL# 7	MDL(ug/L)	CRQL	Amount Spiked(ug/L)	Factor
AR1254-1	10.39	12.53	10.85	11.30	9.88	10.29	11.68	2.886	6.667	13.3	4.6
AR1254-2	9.65	10.80	9.67	9.28	8.71	9.38	10.12	2.078	6.667	13.3	6.4
AR1254-3	8.26	8.47	7.25	6.94	7.29	7.94	7.44	1.794	6.667	13.3	7.4
AR1254	**28.293**	**31.797**	**27.777**	**27.520**	**25.873**	**27.617**	**29.243**	**2.252**	**6.667**	**13.3**	**5.9**
	MDL#1	**MDL#2**	**MDL#3**	**MDL#4**	**MDL#5**	**MDL#6**	**MDL# 7**				
AR1254-1	31.16	37.6	32.55	33.89	29.63	30.88	35.04				
AR1254-2	28.95	32.39	29.02	27.85	26.13	28.15	30.36				
AR1254-3	24.77	25.4	21.76	20.82	21.86	23.82	22.33				
File Name	***P39847***	***P39848***	***P39849***	***P39850***	***P39851***	***P39852***	***P39853***				

KAP TECHNOLOGIES INC., SOM1.2- PCBS MDL MOD-2207 STUDY (MED SOIL)

INST P-6890B 12/21/2011 COLUMN-2

Compound Name	MDL#1	MDL#2	MDL#3	MDL#4	MDL#5	MDL#6	MDL# 7	MDL(ug/L)	CRQL	Amount Spiked(ug/L)	Factor
AR1254-1	13.51	10.40	13.14	12.22	12.02	12.07	11.45	3.249	6.667	13.3	4.1
AR1254-2	12.94	11.30	12.33	11.45	11.36	12.16	12.12	1.911	6.667	13.3	7.0
AR1254-3	13.38	11.99	12.91	12.14	11.97	14.15	11.40	3.015	6.667	13.3	4.4
AR1254	**39.820**	**33.680**	**38.383**	**35.807**	**35.347**	**38.373**	**34.963**	**2.725**	**6.667**	**13.3**	**4.9**
	MDL#1	**MDL#2**	**MDL#3**	**MDL#4**	**MDL#5**	**MDL#6**	**MDL# 7**				
AR1254-1	40.52	31.19	39.43	36.67	36.05	36.2	34.34				
AR1254-2	38.81	33.89	36.98	34.34	34.07	36.47	36.36				
AR1254-3	40.13	35.96	38.74	36.41	35.92	42.45	34.19				

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A-2
The Woodlands, TX 77380

RCN: 307-0711

pH ANALYSIS LOGBOOK

CIRCLE METHOD: SM 4500 H+ B / 9045

CALIBRATION BUFFER 1: (4.0) 4.04

BUFFER 2: (10.0) 9.99

DATE: 12/8/11

CAL CHECK: (7+/- 0.1) _____

SLOPE: 98.0

Lab Sample ID	Client Sample ID	pH (SU)	Comments
S-4459.01	F4XRO	6.7	Water
S-4462.01	CY4T5	6.9	Water
.02	T6	5.7	
.03	T7	7.0	
.05	T9	6.7	
.06	WO	8.8	
S-4460.01	F4XPO	8.0	Soil
.02	P1	7.5	
.03	P2	6.9	
.04	P3	7.2	
.05	P4	7.6	
.06	P5	7.2	
.07	P6	6.9	
.08	Q5	7.3	
S-4463 .01	E4KRO	7.9	Soil
.02	R2	8.4	

NFH 12/8/11

Analyst: [signature]

Reviewed by: NFH

Date: 12/8/11

KAP Technologies, Inc.
9391 Grogans Mill Rd. Suite A-2
The Woodlands, TX 77380

RCN: 307-0711

pH ANALYSIS LOGBOOK

NLH 12/14/11

CIRCLE METHOD: SM 4500 H+ B (9045)

DATE: 12/14/11

CALIBRATION
BUFFER 1: (4.0) ~~4.03~~ 3.97
BUFFER 2: (10.0) 9.91
CAL CHECK: (7+/- 0.1) 7.12
SLOPE: 9.73

Lab Sample ID	Client Sample ID NLH 12/14/11	pH (SU)	Comments
S-4465.01	F4 ~~PX7~~ XP7	8.1	
.02	F4 XP8	7.6	
.03	XP9	8.3	
.04	XQ6	7.7	
S-4476.01	F4XQ0	8.1	
.02	Q1	7.9	
.03	Q2	7.6	
.04	Q3	7.4	
.05	Q4	7.4	
.06	Q7	8.4	
.07	Q8	8.2	
.08	Q9	8.5	

NLH 12/14/11

Analyst: NLH

Reviewed by: LDW

Date: 12-14-11

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 306-0711

RUNLOG – PERCENT MOISTURE

DATE IN: 12/12/11 **DATE OUT:** 12-13-11

TIME IN: 15:00 **TEMP IN:** 105°C **TIME OUT:** 9:00 **TEMP OUT:** 105

	Sample ID	Pan Weight (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample wt (g)	Dry Sample wt (g)	% Moisture	% Solids
H	S-4460.01	1.3221	10.7749	7.5516	9.4528	6.2295	34%	
6	.02	1.3242	10.4554	6.9758	9.1312	5.6516	38%	
18	.03	1.3114	11.9738	7.8132	10.6624	6.5018	39%	
X	.04	1.3151	10.0807	6.6173	8.7656	5.3022	40%	
G	.05	1.3337	10.2048	6.8892	8.8711	5.5555	37%	
A	.06	1.3324	10.2673	7.3541	8.9349	6.0217	33%	
25	.07	1.3454	10.3765	5.9844	9.0311	4.6390	49%	
16	.08	1.3621	10.7711	7.3897	9.4090	6.0276	36%	
S	S-4465.01	1.3437	10.2091	6.1094	8.8654	4.7657	46%	
8	.02	1.3353	11.0634	6.8064	9.7281	5.4711	44%	
7A	.03	1.3455	10.7513	6.9776	9.4058	5.6321	40%	
12	.04	1.3929	11.7076	7.8916	10.3147	6.4987	37%	
15	S-4476.01	1.3280	10.8994	5.6233	9.5714	4.2953	55%	
Z	.02	1.3236	10.1520	4.9541	8.8284	3.6305	59%	
10	.03	1.3748	11.9221	7.4611	10.5473	6.0863	42%	
M	.04	1.3368	11.7251	6.8626	10.3883	5.5258	47%	
RK	.05	1.3492	11.1345	6.3163	9.7853	4.9671	49%	
2	.06	1.4076	10.2954	7.0503	8.8878	5.6427	37%	
N	.07	1.3800	10.1416	4.6863	8.7616	3.3063	62%	
9	.08	1.3343	10.1297	6.1654	8.7954	4.8311	45%	

NLH 12/13/11

Analyst: NLH

Reviewer: CDW
12-13-11

0096
1555

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 314-0811

SAMPLE CUSTODY LOGBOOK
COOLER - F

Sample Custodian Checkin: Episode: S-4460

SAMPLE ID	CONTAINER TYPE	DATE/ TIME SIGNED IN		SIGNED IN BY	FRACTION	NO. OF CONTAINERS
.01, .02 .04-.08	8oz Jar	12/7/11	13:15	AEN	SVOA/SVSIM	2
.03	↓	↓	↓	↓	↓	4
						AEN 12/7/11

Analyst Checkout/Checkin:

SAMPLE ID	CONTAINER TYPE	No. OF CONTAINERS	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
S-4460-01|08	8oz Jaw	8	RAM	12.13.2011 8.30	BNA	RAM	12.13.11 13.10	
S-4460-01|68	8oz Jaw	8	RAM	12.14.2011 8.10	ARO	RAM	12.14.11 16.10	
S-4460-01|608	8oz Jaw	8	RAM	12.14.2011 8.10	PEST	RAM	↓	

Container type: 40ml, 2oz, 4oz, 8oz, 16oz, 32oz, 1L Amber, 1L Poly, 16 Poly, Other.

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.

Reviewed by: [signature]

Date: 12/16/11

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 314-0811

SAMPLE CUSTODY LOGBOOK
COOLER - F

Sample Custodian Checkin: Episode: S-4465

SAMPLE ID	CONTAINER TYPE	DATE/ TIME SIGNED IN	SIGNED IN BY	FRACTION	NO. OF CONTAINERS
.01-04	80z Jar	12/8/11 11:20	AEN	SVOA/SIM	2
					12/8/11

Analyst Checkout/Checkin:

SAMPLE ID	CONTAINER TYPE	No. OF CONTAINERS	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
S-4465-01&04	8oz Jar	4	RAM	12.13.11 8:30	BNA	RAM	12.13.11 13:10	
S-4465-01&04	8oz Jar	4	RAM	12.14.11 8:10	ARO	RAM	12.14.11 16:10	
S-4465-01&04	8oz Jar	4	RAM	↓	PEST	RAM	↓	

Container type: 40ml, 2oz, 4oz, 8oz, 16oz, 32oz, 1L Amber, 1L Poly, 16 Poly, Other.

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.

Reviewed by: [signature]

Date: 12/16/11

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 314-0811

SAMPLE CUSTODY LOGBOOK
COOLER - F

Sample Custodian Checkin: Episode: S-4476

SAMPLE ID	CONTAINER TYPE	DATE/ TIME SIGNED IN	SIGNED IN BY	FRACTION	NO. OF CONTAINERS
.01-.08	8oz Jar	12/9/11 14:30	AZoN	SVOA/S in Pest/ARO	2
					12/9/11

Analyst Checkout/Checkin:

SAMPLE ID	CONTAINER TYPE	No. OF CONTAINERS	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
S-4476-01|08	8oz Jar	8	RAM	12.13.2011 8.30	BNA	RAM	12.13.11 13.10	
S-4476-01|608	8oz Jar	8	RAM	12.14.2011 8.10	ARO	RAM	12.14.11 16.10	
S-4476-01|608	8oz Jar	8	RAM	12.14.2011 8.10	PEST	RAM	↓	

Container type: 40ml, 2oz, 4oz, 8oz, 16oz, 32oz, 1L Amber, 1L Poly, 16 Poly, Other.

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.

Reviewed by:

Date: 12/16/11

From: (360) 324-0229 Origin ID: JMDA
Sheena Styger
EA Engineering, Science, & Tec
405 STATE HWY 121 BYP STE C100

LEWISVILLE, TX 75067

FedEx Express

J112011080502 25

Ship Date: 06DEC11
ActWgt: 60.0 LB
CAD: 1247365/INET3210

Dims: 28 X 15 X 15 IN

Delivery Address Bar Code

Ref # 1434279 B 9
Invoice #
PO #
Dept #

SHIP TO: (281) 367-0065 BILL SENDER

Vishnu Davlapur
KAP
9391 GROGANS MILL RD STE A2

THE WOODLANDS, TX 77380

WED - 07 DEC A1
PRIORITY OVERNIGHT

TRK# 7954 7732 7083
0201

77380
TX-US
IAH

43 MIFA

12/7/11
11:30

50FG1/859F/F5F4

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1559

From: (360) 324-0229 Origin ID: JMDA
Sheena Styger
EA Engineering, Science, & Tec
405 STATE HWY 121 BYP STE C100

LEWISVILLE, TX 75067

FedEx Express

J11201108050225

Ship Date: 06DEC11
ActWgt: 60.0 LB
CAD: 1247365/INET3210
Dims: 28 X 15 X 15 IN

Delivery Address Bar Code

Ref # 1434279 B 9
Invoice #
PO #
Dept #

SHIP TO: (281) 367-0065 BILL SENDER

Vishnu Davlapur
KAP
9391 GROGANS MILL RD STE A2

THE WOODLANDS, TX 77380

WED - 07 DEC A1
PRIORITY OVERNIGHT

TRK# 7978 0777 7903
0201

43 MIFA

77380
TX-US
IAH

12/7/11 11:30

50FG1/859F/F5F4

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1568

From: (360) 324-0229 Origin ID: JMDA
Sheena Styger
EA Engineering, Science, & Tec
405 STATE HWY 121 BYP STE C100

LEWISVILLE, TX 75067

FedEx Express

J11201108050225

Ship Date: 07DEC11
ActWgt: 60.0 LB
CAD: 1247365/INET3210

Dims: 28 X 15 X 15 IN

Delivery Address Bar Code

Ref # 1434279 B 9
Invoice #
PO #
Dept #

SHIP TO: (281) 367-0065 BILL SENDER

Vishnu Davlapur
KAP
9391 GROGANS MILL RD STE A2

THE WOODLANDS, TX 77380

THU - 08 DEC A1
PRIORITY OVERNIGHT

TRK# 7954 8232 1669
0201

43 MIFA

77380
TX-US
IAH

12/8/11 10:25

50FG1/859F/F5F4

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1561

From: (360) 324-0229 Origin ID: JMDA
Sheena Styger
EA Engineering, Science, & Tec
405 STATE HWY 121 BYP STE C100

LEWISVILLE, TX 75067

FedEx Express

J11201108050225

Ship Date: 08DEC11
ActWgt: 60.0 LB Dims: 28 X 15 X 15 IN
CAD: 1247365/INET3210

Delivery Address Bar Code

Ref # 1434279 B 9
Invoice #
PO #
Dept #

SHIP TO: (281) 367-0065 BILL SENDER

Vishnu Davlapur
KAP
9391 GROGANS MILL RD STE A2

THE WOODLANDS, TX 77380

FRI - 09 DEC A1
PRIORITY OVERNIGHT

TRK# 7954 8809 5307
0201

77380
TX-US
IAH

43 MIFA

12/9/11
10:20

50FG1/859F/F5F4

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1562

From: (360) 324-0229 Origin ID: JMDA
Sheena Styger
EA Engineering, Science, & Tec
405 STATE HWY 121 BYP STE C100

LEWISVILLE, TX 75067

FedEx Express

J112011080502 25

Ship Date: 08DEC11
ActWgt: 60.0 LB
CAD: 1247365/INET3210

Dims: 28 X 15 X 15 IN

Delivery Address Bar Code

Ref # 1434279 B 9
Invoice #
PO #
Dept #

SHIP TO: (281) 367-0065 BILL SENDER

Vishnu Davlapur
KAP
9391 GROGANS MILL RD STE A2

THE WOODLANDS, TX 77380

FRI - 09 DEC A1
PRIORITY OVERNIGHT

TRK# 7954 8837 7410
0201

77380
TX-US
IAH

43 MIFA

12/9/11
10:20

50FG1/859F/F5F4

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1563

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	
SDG No:	F4XP0 L

Date Shipped:	12/6/2011
Carrier Name:	FedEx
Airbill:	7954 7732 7083
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[signature]	12/6/11 1900		
2				
3			[signature]	
4				12/7/11 11:30

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No:	EPW11031
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XP0	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499101 (Ice Only), 6-499102 (Ice Only) (2)	N-SD5-1	S: 12/5/2011	10:35		S-4460.01 .02 .03
F4XP1	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499079 (Ice Only), 6-499080 (Ice Only) (2)	L-SD5-1	S: 12/5/2011	11:30		
F4XP2	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445851 (Ice Only), 6-445852 (Ice Only), 6-445853 (Ice Only), 6-445854 (Ice Only) (4)	G-SD5-1	S: 12/5/2011	12:05		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F4XP2	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: .08°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120611-0002

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
SDG No: F4XP0 L

Date Shipped:	12/6/2011
Carrier Name:	FedEx
Airbill:	7978 0777 7903
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[signature]	12/6/11 1901		
2				
3			[signature]	12/7/11 11:30
4				

Sampler Signature: [signature]

For Lab Use Only
Lab Contract No: EPW11031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XP3	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499074 (Ice Only), 6-499075 (Ice Only) (2)	F-SD5-1	S: 12/5/2011	15:05	S-4460-04	
F4XP4	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-499037 (Ice Only), 6-499038 (Ice Only) (2)	F-SD5-1 D	S: 12/5/2011	15:05	-05	
F4XP5	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445855 (Ice Only), 6-445856 (Ice Only) (2)	P-SD5-1	S: 12/5/2011	16:30	-06	
F4XP6	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445857 (Ice Only), 6-445858 (Ice Only) (2)	D-SD5-1	S: 12/6/2011	10:15	-07	
F4XQ5	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445875 (Ice Only), 6-445876 (Ice Only) (2)	E-SD5-1	S: 12/6/2011	9:30	-08	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.0°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

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TR Number: 6-574702950-120611-0006

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	42040
DAS No:	
SDG No:	F4XP0

L

Date Shipped:	12/7/2011
Carrier Name:	FedEx
Airbill:	7954 8232 1669
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record		Sampler Signature:	
Relinquished By	(Date / Time)	Received By	(Date / Time)
1	12/7/11 1900		
2			
3			12/8/11 10:25
4			

For Lab Use Only

Lab Contract No: EPW11031

Unit Price:

Transfer To:

Lab Contract No:

Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XP7	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445859 (Ice Only), 6-445860 (Ice Only) (2)	C-SD5-1	S: 12/6/2011	11:45	S-4465.01	
F4XP8	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445861 (Ice Only), 6-445862 (Ice Only) (2)	B-SD5-1	S: 12/6/2011	12:30	.02	
F4XP9	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445863 (Ice Only), 6-445864 (Ice Only) (2)	K-SD5-1	S: 12/6/2011	15:00	.03	
F4XQ6	Sediment/ JASON STROUP	L/G	SVSIM/P/A (21)	6-445877 (Ice Only), 6-445878 (Ice Only) (2)	J-SD5-1	S: 12/6/2011	8:45	.04	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 0.9°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120711-0004

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
SDG No: F4XP0 L

Date Shipped:	12/8/2011
Carrier Name:	FedEx
Airbill:	7954 8837 7410
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[signature]	12/8/11 1400		
2				
3			[signature]	
4				12/9/11 10:20

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: EPW11031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XQ0	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445865 (Ice Only), 6-445866 (Ice Only) (2)	Q-SD5-1	S: 12/7/2011	9:00	S-4476.01	
F4XQ2	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445869 (Ice Only), 6-445870 (Ice Only) (2)	O-SD5-1	S: 12/7/2011	10:30	.03	
F4XQ8	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445881 (Ice Only), 6-445882 (Ice Only) (2)	R-SD5-1	S: 12/7/2011	15:10	.07	
F4XQ9	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445883 (Ice Only), 6-445884 (Ice Only) (2)	S-SD5-1	S: 12/7/2011	15:35	.08	

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:** 1.3°C	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Custody Seal Intact?** Y	**Shipment Iced?** Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120811-0008

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 42040
DAS No:
SDG No: F4XPO L

Date Shipped:	12/8/2011
Carrier Name:	FedEx
Airbill:	7954-8809 5307
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	12/8/11 1400		
2			
3			
4			12/9/11 10:20

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW11031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
F4XQ1	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445867 (Ice Only), 6-445868 (Ice Only) (2)	M-SD5-1	S: 12/7/2011	9:45	S-4476.02	
F4XQ3	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445871 (Ice Only), 6-445872 (Ice Only) (2)	A-SD5-1	S: 12/7/2011	11:45	.04	
F4XQ4	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445873 (Ice Only), 6-445874 (Ice Only) (2)	A-SD5-1 D	S: 12/7/2011	11:45	.05	
F4XQ7	Sediment/ DUANE THOMAS	L/G	SVSIM/P/A (21)	6-445879 (Ice Only), 6-445880 (Ice Only) (2)	H-SD5-1	S: 12/7/2011	14:35	.06	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.4°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

SVSIM/P/A = SVOA/SVOASIM + Pest + ARO (MA#2207.0)

TR Number: 6-574702950-120811-0006

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Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/6/11	1015		

Tag Number: 6- 445858

Station Location:

Samplers (Signatures):

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Remarks:

Case No: 42040
Sample No: F4XP6
Station Location: D-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445858

GSA U.S. GOVERNMENT PRIN

6-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/6/11	930		

Tag Number: 6- 445876

Station Location:

Samplers (Signatures):

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Remarks:

Case No: 42040
Sample No: F4XQ5
Station Location: E-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445876

GSA U.S. GOVERNMENT PRI

2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/6/11	930 845		

Tag Number: 6- 445875

Station Location:

Samplers (Signatures):

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Remarks:

Case No: 42040
Sample No: F4XQ5
Station Location: E-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445875

GSA U.S. GOVERNMENT PRINTING OFFICE: 2009-54

1569

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/5/11	1505		

Tag Number 6- 499037

Station Location

Samplers (Signatures)

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP4
Station Location: F-SD5-1 D
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499037

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number 6- 445856

Station Location

Samplers (Signatures)

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP5
Station Location: P-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445856

GPO U.S. GOVERNMENT PRINTING

Tag Number 445855

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP5
Station Location: P-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445855

U.S. GOVERNMENT PRINTING

Tag Number 445857

Concentration: ☐ L

Remarks:

Case No: 42040
Sample No: F4XP6
Station Location: D-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445857

GOVERNMENT PRINTING OFFICE: 2009-546-

1578

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/5/11	1205		

Tag Number: 6- 445852
Station Location:
Samplers (Signatures):
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XP2
Station Location: G-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445852

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number: 499074
Lab Sample No.
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XP3
Station Location: F-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499074

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number: 499075
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XP3
Station Location: F-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499075

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number: 499038
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XP4
Station Location: F-SD5-1 D
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499038

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/5/11	1130		

Station Location

Samplers (Signatures)

Tag Number 6- 499079

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP1
Station Location: L-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499079

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number 445851

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP2
Station Location: G-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445851

U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number 445853

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP2
Station Location: G-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445853

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number 445854

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP2
Station Location: G-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445854

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/5/11	1035		

Station Location | Samplers (Signatures)

Tag Number: 6- 499101

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case No: 42040
Sample No: F4XP0
Station Location: N-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499101

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/5/11	1035		

Station Location | Samplers (Signatures)

Tag Number: 6- 499102

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case No: 42040
Sample No: F4XP0
Station Location: N-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499102

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/5/11	1130		

Station Location | Samplers (Signatures)

Tag Number: 6- 499080

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case No: 42040
Sample No: F4XP1
Station Location: L-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-499080

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		12/6/11	1230		

Tag Number: 6- 445861
Station Location:
Samplers (Signatures):
Concentration: ☐ L ☐ M ☐ H
Lab Sample No.: S-4465,02
Remarks:

Case No: 42040
Sample No: F4XP8
Station Location: B-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445861

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Number: 445862
Concentration: ☐ L ☐ M ☐ H
Lab Sample No.: S-4465,03
Remarks:

Case No: 42040
Sample No: F4XP8
Station Location: B-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445862

U.S. GOVERNMENT PRINTING

g Number: 445859
Concentration: ☐ L ☐ M ☐ H
Lab Sample No.: S-4465,01
Remarks:

Case No: 42040
Sample No: F4XP7
Station Location: C-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445859

GPO: U.S. GOVERNMENT PRINTING

imber: 445860
Concentration: ☐ L ☐ M ☐ H
Lab Sample No.: S-4465,01
Remarks:

Case No: 42040
Sample No: F4XP7
Station Location: C-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445860

S. GOVERNMENT PRINTING OFFICE: 2009-546

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/6/11	845		

Station Location

Samplers (Signatures)

Tag Number 6- 445877

Lab Sa... S--4465,04

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XQ6
Station Location: J-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445877

G:O U.S. GOVERNMENT PRINTING ...2009-546-765

Station Location

Samplers (Signatures)

Tag Number 6- 445878

S--4465,04

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XQ6
Station Location: J-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445878

G:O U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

umber 445863

S--4465,03

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP9
Station Location: K-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445863

U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

g Number - 445864

S--4465

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XP9
Station Location: K-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445864

G:O U.S. GOVERNMENT PRINTING OFFICE:2009-

CLP Case No.

12/7/11 945 Comp. Grab

Tag Number 6- 445868

Station Location

Samplers (Signature)

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XQ1
Station Location: M-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445868

20-4476-S

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number 6- 445867

Station Location

Samplers (Signatures)

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XQ1
Station Location: M-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445867

20-4476-S

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Tag Number 445865

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Case No: 42040
Sample No: F4XQ0
Station Location: Q-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445865

S--4476.01

U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

12/7/11 400 Comp. Grab

Tag Number 6- 445866

Station Location

Samplers (Signatures)

Lab Sample

Concentration: ☐ L ☐ M ☐

Remarks:

Case No: 42040
Sample No: F4XQ0
Station Location: Q-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445866

S--4476.01

GPO U.S. GOVERNMENT PRINTING OFFICE: 200

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/7/11	1145		

Tag Number: 6- 445872

Station Location:

Samplers (Signatures):

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Remarks:

Case No: 42040
Sample No: F4XQ3
Station Location: A-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445872

S--4476.04

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1030		

Tag Number: 6- 445869

Station Location:

Samplers (Signatures):

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Remarks:

Case No: 42040
Sample No: F4XQ2
Station Location: O-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445869

S--4476.03

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1030		

Tag Number: 6- 445870

Station Location:

Samplers (Signatures):

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Remarks:

Case No: 42040
Sample No: F4XQ2
Station Location: O-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445870

S--4476,03

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

1578

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/7/11	1145		

Tag Number 6- 445873

Station Location

Samplers (Signatures)

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case No: 42040
Sample No: F4XQ4
Station Location: A-SD5-1 D
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445873

S--4476,05

GSA U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/7/11	1145		

Tag Number 6- 445874

Station Location

Samplers (Signatures)

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case No: 42040
Sample No: F4XQ4
Station Location: A-SD5-1 D
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445874

S--4476,05

GSA U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/7/11	1145		

Tag Number 6- 445871

Station Location

Samplers (Signatures)

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Remarks:

Case No: 42040
Sample No: F4XQ3
Station Location: A-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445871

S--4476,04

GSA U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/7/11	1510		

Tag Number: 6- 445882
Station Location:
Samplers (Signatures):
Lab Sample No.:
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XQ8
Station Location: R-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445882

S--4476,07

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1435		

Tag Number: 6- 445879
Station Location:
Samplers (Signatures):
Lab Sample No.:
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XQ7
Station Location: H-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445879

S--4476,06

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1435		

Tag Number: 6- 445880
Station Location:
Samplers (Signatures):
Lab Sample No.:
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XQ7
Station Location: H-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445880

S--4476,06

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-

1588

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1535		

Tag Number: 6- 445884
Station Location:
Samplers (Signatures):
Lab Sample No.:
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XQ9
Station Location: S-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445884

S--4476.08

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1535		

Tag Number: 6- 445883
Station Location:
Samplers (Signatures):
Lab Sample No.:
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XQ9
Station Location: S-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445883

S--4476.08

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		12/07/11	1510		

Tag Number: 6- 445881
Station Location:
Samplers (Signatures):
Lab Sample No.:
Concentration: ☐ L ☐ M ☐ H
Remarks:

Case No: 42040
Sample No: F4XQ8
Station Location: R-SD5-1
Sample Type: Grab
Preservative: Ice Only
Analysis: SVOA/SVOASIM + Pest + ARO (MA#2207.0) per SOM01.2
Concentration: L
Tag No: 6-445881

S--4476.07

GPO: U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name	KAP TECHNOLOGIES, INC.	Page 1 of 1
Received By (Print Name)	Aundra Noe	Log-in Date 12/7/11
Received By (Signature)	Aundra Noe	
Case Number 42040	Sample Delivery Group No. F4XP0	Mod. Ref. No. 2207.0

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F4XP0	6-499101-102	S4460.01	Intact 2-8oz jars
2. Custody Seal Nos.	—	P1	079, 080	.02	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	P2	6-445851-54	.03	4-8oz jars
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	795477327083				
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	.08°				
10. Does information on TR/COCs and sample tags agree?	Yes / No*				
11. Date Received at Laboratory	12/7/11				
12. Time Received	11:30				

Sample Transfer

Fraction SVOA/Pest/ARO SVSIM	Fraction				
Area # Cooler F	Area #				
By [signature]	By				
On 12/7/11	On				

* Contact SMO and attach record of resolution

Reviewed By	[signature] 12/7/11	Logbook No.	1581
Date		Logbook Page No.	

SOM01.1 (5/2005)

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name	KAP TECHNOLOGIES, INC.	Page 1 of 1
Received By (Print Name)	Aundra Noe	Log-in Date 12/7/11
Received By (Signature)	Aundra Noe	
Case Number 42040	Sample Delivery Group No. F4XP0	Mod. Ref. No. 2207.0

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F4XP3	6-499074, 75	S-4460.04	Intact 2-8oz Jars
2. Custody Seal Nos.	—	P4	37, 38	.05	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	P5	6-443855, 56	.06	
4. Airbill	Airbill/Sticker Present/Absent*	P6	57, 58	.07	
5. Airbill No.	797807777903	Q5	75, 76	.08	
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	1.0°C				
10. Does information on TR/COCs and sample tags agree?	Yes / No*				
11. Date Received at Laboratory	12/7/11				
12. Time Received	11:30				

Sample Transfer	
Fraction Pest/ARO/ SVOA/SVSIM	Fraction
Area # Cooler F	Area #
By [signature]	By
On 12/7/11	On

* Contact SMO and attach record of resolution

Reviewed By [signature]	Logbook No.
Date 12/7/11	Logbook Page No. 1582

SOM01.1 (5/2005)

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name	KAP TECHNOLOGIES, INC.	Page 1 of 1
Received By (Print Name)	Aundra Noe	Log-in Date 12/8/11
Received By (Signature)	Aundra Noe	
Case Number 42040	Sample Delivery Group No. F4XP0	Mod. Ref. No. 2207-0

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F4XP7	6-445859, 60	S-4465.01	Intact 2-8oz Jars
2. Custody Seal Nos.	—	P8	61, 62	.02	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	P9	63, 64	.03	
4. Airbill	Airbill/Sticker Present/Absent*	Q6	77, 78	.04	
5. Airbill No.	795482321669				
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	0.9°C				
10. Does information on TR/COCs and sample tags agree?	Yes / No*				
11. Date Received at Laboratory	12/8/11				
12. Time Received	10:25				

Sample Transfer					
Fraction ARO PEST SVOA/SVSIM	Fraction				
Area # Cooler F	Area #				
By [signature]	By				
On 12/8/11	On				

* Contact SMO and attach record of resolution

Reviewed By	[signature]	Logbook No.	1583
Date	12/8/11	Logbook Page No.	

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name	KAP TECHNOLOGIES, INC.	Page 1 of 1
Received By (Print Name)	Aundra Noe	Log-in Date 12/9/11
Received By (Signature)	Aundra Noe	
Case Number 42040	Sample Delivery Group No. F4XP0	Mod. Ref. No. 2207.0

Remarks:

		Corresponding		
	EPA Sample #	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s) (Present/Absent*) (Intact/Broken)	F4XQ0	6-44586 3, 66	S-4476.01	Intact 2-802 x5
2. Custody Seal Nos.	Q2	69, 70	.03	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists (Present/Absent*)	Q8	81, 82	.07	
4. Airbill (Airbill/Sticker Present/Absent*)	Q9	83, 84	.08	
5. Airbill No. 785488377410				
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: 1.3°C				
10. Does information on TR/COCs and sample tags agree? (Yes / No*): Yes				
11. Date Received at Laboratory: 12/9/11				
12. Time Received: 10:20				

Sample Transfer			
Fraction: SVOA/SVOA Perf/8270	Fraction		
Area #: Cooler F	Area #		
By:	By		
On: 12/5/11	On		

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	1581
Date	12/9/11	Logbook Page No.	

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name	KAP TECHNOLOGIES, INC.	Page 1 of 1
Received By (Print Name)	Aundra Noe	Log-in Date 12/9/11
Received By (Signature)	Aundra Noe	
Case Number 42040	Sample Delivery Group No. F4XP0	Mod. Ref. No. 2307.0

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F4XQ1	64458 67, 68	S-4476.02	Intact 2-802 Svrs
2. Custody Seal Nos.	—	Q3	71, 72	.04	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	Q4	73, 74	.05	
4. Airbill	~~Airbill~~/Sticker Present/Absent*	Q7	79, 80	.06	
5. Airbill No.	794588095307				
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	1.4c				
10. Does information on TR/COCs and sample tags agree?	Yes / No*				
11. Date Received at Laboratory	12/9/11				
12. Time Received	10:20				

Sample Transfer

Fraction	SVOA/Pest/ SVOA/Aro	Fraction	
Area #	Cooler F	Area #	
By		By	
On	12/9/11	On	

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	1585
Date	12/9/11	Logbook Page No.	

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/7/2011

SOW : SOM01.2 **Date Received :** 12/7/2011
SDG # : F4XP0 **Time Received :** 11:30:00 AM
Case # : 42040 **Date Logged :** 12/7/2011
Contract # : EPW11031 **Rush :** No

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4460.01	F4XP0	2	Soil	12/5/2011	10:35	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4460.02	F4XP1	2	Soil	12/5/2011	11:30	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4460.03	F4XP2	2	Soil	12/5/2011	12:05	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4460.04	F4XP3	2	Soil	12/5/2011	15:05	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4460.05	F4XP4	2	Soil	12/5/2011	15:05	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4460.06	F4XP5	2	Soil	12/5/2011	16:30	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	

NJH — **Approved By**

CLP Coord. — **Title**

12/9/11 — **Approval Date**

1586

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/7/2011

SOW : SOM01.2 **Date Received :** 12/7/2011
SDG # : F4XP0 **Time Received :** 11:30:00 AM
Case # : 42040 **Date Logged :** 12/7/2011
Contract # : EPW11031 **Rush :** No

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4460.07	F4XP6	2	Soil	12/6/2011	10:15	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4460.08	F4XQ5	2	Soil	12/6/2011	9:30	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4465.01	F4XP7	2	Soil	12/6/2011	11:45	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4465.02	F4XP8	2	Soil	12/6/2011	12:30	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4465.03	F4XP9	2	Soil	12/6/2011	15:00	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4465.04	F4XQ6	2	Soil	12/6/2011	8:45	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	

NJH — **Approved By**

CLP Coord. — **Title**

12/9/11 — **Approval Date**

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/9/2011

SOW : SOM01.2 **Date Received :** 12/9/2011
SDG # : F4XP0 **Time Received :** 10:20:00 AM
Case # : 42040 **Date Logged :** 12/9/2011
Contract # : EPW11031 **Rush :** **No**

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4476.01	F4XQ0	2	Soil	12/7/2011	9:00	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4476.02	F4XQ1	2	Soil	12/7/2011	9:45	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4476.03	F4XQ2	2	Soil	12/7/2011	10:30	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4476.04	F4XQ3	2	Soil	12/7/2011	11:45	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4476.05	F4XQ4	2	Soil	12/7/2011	11:45	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4476.06	F4XQ7	2	Soil	12/7/2011	14:35	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	

Approved By	Title	Approval Date
[signature]	CLP coord.	12/9/11

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/9/2011

SOW : SOM01.2 **Date Received :** 12/9/2011
SDG # : F4XP0 **Time Received :** 10:20:00 AM
Case # : 42040 **Date Logged :** 12/9/2011
Contract # : EPW11031 **Rush :** No

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4476.07	F4XQ8	2	Soil	12/7/2011	15:10	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	
S-4476.08	F4XQ9	2	Soil	12/7/2011	15:35	6-574702950-12		
	Tests Required							
	-SOM01.0-Pesticides						12/30/2011	
	-SOM01.0-SemiVolatiles						12/30/2011	
	-SOM01.0-SemiVolatiles-SIM						12/30/2011	

Instructions to Lab:

MH — **Approved By**

Cer Coord. — **Title**

12/9/11 — **Approval Date**

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/7/2011

SOW : SOM01.2 **Date Received :** 12/7/2011
SDG # : F4XP0 **Time Received :** 11:30:00 AM
Case # : 42040 **Date Logged :** 12/7/2011
Contract # : EPW11031 **Rush :** No

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4460.01	F4XP0	1	Soil	12/5/2011	10:35	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.02	F4XP1	1	Soil	12/5/2011	11:30	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.03	F4XP2	1	Soil	12/5/2011	12:05	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.04	F4XP3	1	Soil	12/5/2011	15:05	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.05	F4XP4	1	Soil	12/5/2011	15:05	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.06	F4XP5	1	Soil	12/5/2011	16:30	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.07	F4XP6	1	Soil	12/6/2011	10:15	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4460.08	F4XQ5	1	Soil	12/6/2011	9:30	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4465.01	F4XP7	1	Soil	12/6/2011	11:45	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	

MH — **Approved By**

CEP Coord. — **Title**

12/9/11 — **Approval Date**

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/8/2011

SOW : SOM01.2
SDG # : F4XP0
Case # : 42040
Contract # : EPW11031

Date Received : 12/8/2011
Time Received : 10:25:00 AM
Date Logged : 12/8/2011
Rush : **No**

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4465.02	F4XP8	1	Soil	12/6/2011	12:30	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4465.03	F4XP9	1	Soil	12/6/2011	15:00	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4465.04	F4XQ6	1	Soil	12/6/2011	8:45	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.01	F4XQ0	1	Soil	12/7/2011	9:00	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.02	F4XQ1	1	Soil	12/7/2011	9:45	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.03	F4XQ2	1	Soil	12/7/2011	10:30	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.04	F4XQ3	1	Soil	12/7/2011	11:45	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.05	F4XQ4	1	Soil	12/7/2011	11:45	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.06	F4XQ7	1	Soil	12/7/2011	14:35	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	

NJH — **Approved By**

CLP Coord. — **Title**

12/9/11 — **Approval Date**

KAP Technolgies, Inc.
9391 Grogans Mill Road , Suite A2, The Woodlands, TX 77380

Sample Login Report

Logged By : Vishnu Davlapur **Report Date :** 12/9/2011

SOW : SOM01.2
SDG # : F4XP0
Case # : 42040
Contract # : EPW11031

Date Received : 12/9/2011
Time Received : 10:20:00 AM
Date Logged : 12/9/2011
Rush : **No**

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain of Custody No.	Analyst Due Date	Remarks
S-4476.07	F4XQ8	1	Soil	12/7/2011	15:10	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	
S-4476.08	F4XQ9	1	Soil	12/7/2011	15:35	6-574702950-1		2207.0
	Tests Required -SOM01.0-Aroclors						12/30/2011	

Instructions to Lab:

NM — **Approved By**

CEP Coord. — **Title**

12/9/11 — **Approval Date**

1592

CUSTODY SEAL

[redacted]

EA EST

Date: 12/6/11

Signature: [signature]

CUSTODY SEAL

[redacted]

EA EST

Date: 12/6/11

Signature: [signature]

CUSTODY SEAL

[redacted] EA EST

Date: 12/6/11

Signature: [signature]

CUSTODY SEAL

[redacted] EA EST

Date: 12/6/11

Signature: [signature]

1595

CUSTODY SEAL

[redacted]

[redacted]

Date: 12/7/11

Signature: [signature]

CUSTODY SEAL

[redacted]

[redacted]

Date: 12/7/11

Signature: [signature]

CUSTODY SEAL

EA Engineering

Date: 12/8/11

Signature:

[redacted]

ENVIRONMENTAL SAMPLING SUPPLY

[redacted] CA 800-233-8425

CUSTODY SEAL

EA Engineering

Date: 12/8/11

Signature:

[redacted]

[redacted] CA 800-233-8425

9551

1597

CUSTODY SEAL

[redacted]

9601 San Leandro St., Oakland, CA 800-233-8425

EA
EST

Date: 12/8/11

Signature: JA

CUSTODY SEAL

[redacted]

9601 San Leandro St., Oakland, CA 800-233-8425

EA
EST

Date: 12/8/11

Signature: JA