Integrated Analytical Laboratories LLC

ANALYTICAL DATA REPORT

JMC Environmental Consultants
2109 Bridge Avenue
Building B
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**
IAL Case Number: **E13-12226**

These data have been reviewed and accepted by:

Michael H. Leffin, Ph.D.
Laboratory Director

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IAL is a NELAC New Jersey Certified Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Rhode Island (00126), Pennsylvania (68-00773) and in the Department of Navy IR QA Program

Sample Summary

IAL Case No.

E13-12226

Client JMC Environmental Consultants

Project ARSYNCO

Received On 12/ 9/2013@16:25

Lab ID	Client Sample ID	Depth Top/Bottom	Sampling Time	Matrix	# of Container
12226-001	KK-43 (0-1.0)	n/a	12/ 9/2013@11:13	Soil	1
12226-002	KK-43 (1.0-2.0)	n/a	12/ 9/2013@11:15	Soil	1
12226-003	KK-43 (2.0-3.0)	n/a	12/ 9/2013@11:17	Soil	1
12226-004	KK-42 (0-1.0)	n/a	12/ 9/2013@11:36	Soil	1
12226-005	KK-42 (1.0-2.0)	n/a	12/ 9/2013@11:38	Soil	1
12226-006	KK-42 (2.0-3.0)	n/a	12/ 9/2013@11:40	Soil	1
12226-007	LL-42 (0-1.0)	n/a	12/ 9/2013@12:10	Soil	1
12226-008	LL-42 (1.0-2.0)	n/a	12/ 9/2013@12:11	Soil	1
12226-009	LL-42 (2.0-3.0)	n/a	12/ 9/2013@12:13	Soil	1
12226-010	MM-42 (0-1.0)	n/a	12/ 9/2013@14:05	Soil	1
12226-011	MM-42 (1.0-2.0)	n/a	12/ 9/2013@14:07	Soil	1
12226-012	MM-42 (2.0-3.0)	n/a	12/ 9/2013@14:09	Soil	1
12226-013	FB-42	n/a	12/ 9/2013@15:05	Aqueous	2

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on January 29, 2014

* Methodology is included in the IAL Project Information Page

DEFINITIONS / QUALIFIERS

DATA QUALIFIERS

B Indicates the analyte was found in the associated method blank as well as in the sample. It indicates probable laboratory contamination.

C Indicates analyte is a common laboratory contaminant.

D Indicates analyte was reported from diluted analysis.

E Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument.

J Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL or for qualification of tentatively identified compounds.

N Presumptive evidence of a compound from the use of GC/MS library search.

X Indicates samples analyzed for total and dissolved metals differ at ≤20% RPD.

Z Indicates internal standard failure. Sample results are either biased high or biased low.

REPORTING DEFINITIONS

RL Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.

MDL Method Detection Limit as determined according to 40CFR Part 136 Appendix B.

PQL Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.

ND Indicates analyte was analyzed for but not detected above the MDL.

DF Dilution Factor

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate

DUP Duplicate

CONFORMANCE / NON-CONFORMANCE SUMMARIES

INTEGRATED ANALYTICAL LABORATORIES, LLC.

CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received one (1) aqueous and twelve (12) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-12226, Project: ARSYNCO) on December 9, 2013 for the analysis of:

(8) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Reviewed by

1/28/14
Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-12226

PCB By 8082A

Batch ID: 131213-08	**Matrix: Aqueous**

QC

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 013

E13-12226

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for sample 013.

12/16/2013

Signature Date

E13-12226 0004

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-12226

PCB By 8082A

Batch ID: 131210-08	**Matrix: Soil**

QC

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery did not meet QC criteria. Surrogate did not pass QC limits due to matrix interference for samples 004,005,007,008,010, MS,MSD.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery did not meet QC criteria. due to matrix interference.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012

E13-12226

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for samples 001,002,004,005,007-010.

12/12/2013

Signature Date

E13-12226 0005

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-12226

Lab ID:	12226-013		
Client ID:	FB-42		
Matrix:	Aqueous		
Sampled Date	12/9/13		
PARAMETER(Units)	Conc	Q	MDL
PCB's (Units)	*(mg/L)*		
Aroclor-1016	ND		0.00002
Aroclor-1221	ND		0.00002
Aroclor-1232	ND		0.00002
Aroclor-1242	ND		0.00002
Aroclor-1248	ND		0.00002
Aroclor-1254	ND		0.00002
Aroclor-1260	ND		0.00002
Aroclor-1262	ND		0.00002
Aroclor-1268	ND		0.00002
PCBs	ND		

Lab ID:	12226-001			12226-002			12226-003			12226-004		
Client ID:	KK-43 (0-1.0)			KK-43 (1.0-2.0)			KK-43 (2.0-3.0)			KK-42 (0-1.0)		
Matrix:	Soil			Soil			Soil			Soil		
Sampled Date	12/9/13			12/9/13			12/9/13			12/9/13		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
Aroclor-1016	ND		0.025	ND		0.040	~		~	ND		0.058
Aroclor-1221	ND		0.025	ND		0.040	~		~	ND		0.058
Aroclor-1232	ND		0.025	ND		0.040	~		~	ND		0.058
Aroclor-1242	ND		0.025	ND		0.040	~		~	ND		0.058
Aroclor-1248	0.086		0.025	4.18		0.040	~		~	10.1		0.058
Aroclor-1254	ND		0.025	2.78		0.040	~		~	11.9		0.058
Aroclor-1260	ND		0.025	ND		0.040	~		~	ND		0.058
Aroclor-1262	ND		0.025	ND		0.040	~		~	ND		0.058
Aroclor-1268	ND		0.025	ND		0.040	~		~	ND		0.058
PCBs	0.086			6.96			~		~	22.0		

Lab ID:	12226-005			12226-006			12226-007			12226-008		
Client ID:	KK-42 (1.0-2.0)			KK-42 (2.0-3.0)			LL-42 (0-1.0)			LL-42 (1.0-2.0)		
Matrix:	Soil			Soil			Soil			Soil		
Sampled Date	12/9/13			12/9/13			12/9/13			12/9/13		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
Aroclor-1016	ND		0.089	~		~	ND		0.086	ND		0.086
Aroclor-1221	ND		0.089	~		~	ND		0.086	ND		0.086
Aroclor-1232	ND		0.089	~		~	ND		0.086	ND		0.086
Aroclor-1242	ND		0.089	~		~	ND		0.086	ND		0.086
Aroclor-1248	8.74		0.089	~		~	1.73		0.086	4.09		0.086
Aroclor-1254	6.28		0.089	~		~	2.02		0.086	3.26		0.086
Aroclor-1260	ND		0.089	~		~	ND		0.086	ND		0.086
Aroclor-1262	ND		0.089	~		~	ND		0.086	ND		0.086
Aroclor-1268	ND		0.089	~		~	ND		0.086	ND		0.086
PCBs	15.0			~		~	3.75			7.35		

ND = Analyzed for but Not Detected at the MDL
~ Sample not analyzed for

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-12226

Lab ID:	**12226-009**			**12226-010**			**12226-011**			**12226-012**	
Client ID:	**LL-42 (2.0-3.0)**			**MM-42 (0-1.0)**			**MM-42 (1.0-2.0)**			**MM-42 (2.0-3.0)**	
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**	
Sampled Date	**12/9/13**			**12/9/13**			**12/9/13**			**12/9/13**	
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
Aroclor-1016	~		~	ND		0.099	~		~	~		~
Aroclor-1221	~		~	ND		0.099	~		~	~		~
Aroclor-1232	~		~	ND		0.099	~		~	~		~
Aroclor-1242	~		~	ND		0.099	~		~	~		~
Aroclor-1248	~		~	5.15		0.099	~		~	~		~
Aroclor-1254	~		~	ND		0.099	~		~	~		~
Aroclor-1260	~		~	ND		0.099	~		~	~		~
Aroclor-1262	~		~	ND		0.099	~		~	~		~
Aroclor-1268	~		~	ND		0.099	~		~	~		~
PCBs	~		~	5.15			~		~	~		~

ND = Analyzed for but Not Detected at the MDL
~ Sample not analyzed for

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-001
Client ID: KK-43_(0
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5847.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.51g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 42.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.064	0.025
Aroclor-1221	ND		0.064	0.025
Aroclor-1232	ND		0.064	0.025
Aroclor-1242	ND		0.064	0.025
Aroclor-1248	0.086		0.064	0.025
Aroclor-1254	ND		0.064	0.025
Aroclor-1260	ND		0.064	0.025
Aroclor-1262	ND		0.064	0.025
Aroclor-1268	ND		0.064	0.025
PCBs	0.086		0.064	0.025

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0010

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-002
Client ID: KK-43_(1
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5848.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.29g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 62.2

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.100	0.040
Aroclor-1221	ND		0.100	0.040
Aroclor-1232	ND		0.100	0.040
Aroclor-1242	ND		0.100	0.040
Aroclor-1248	4.18		0.100	0.040
Aroclor-1254	2.78		0.100	0.040
Aroclor-1260	ND		0.100	0.040
Aroclor-1262	ND		0.100	0.040
Aroclor-1268	ND		0.100	0.040
PCBs	6.96		0.100	0.040

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0011

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-004
Client ID: KK-42_(0
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5850.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.04g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 72.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.144	0.058
Aroclor-1221	ND		0.144	0.058
Aroclor-1232	ND		0.144	0.058
Aroclor-1242	ND		0.144	0.058
Aroclor-1248	10.1		0.144	0.058
Aroclor-1254	11.9		0.144	0.058
Aroclor-1260	ND		0.144	0.058
Aroclor-1262	ND		0.144	0.058
Aroclor-1268	ND		0.144	0.058
PCBs	22.0		0.144	0.058

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0012

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-005
Client ID: KK-42_(1
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5851.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.26g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 82.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.222	0.089
Aroclor-1221	ND		0.222	0.089
Aroclor-1232	ND		0.222	0.089
Aroclor-1242	ND		0.222	0.089
Aroclor-1248	8.74		0.222	0.089
Aroclor-1254	6.28		0.222	0.089
Aroclor-1260	ND		0.222	0.089
Aroclor-1262	ND		0.222	0.089
Aroclor-1268	ND		0.222	0.089
PCBs	15.0		0.222	0.089

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0013

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-007
Client ID: LL-42_(0
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5853.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.26g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 82.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.216	0.086
Aroclor-1221	ND		0.216	0.086
Aroclor-1232	ND		0.216	0.086
Aroclor-1242	ND		0.216	0.086
Aroclor-1248	1.73		0.216	0.086
Aroclor-1254	2.02		0.216	0.086
Aroclor-1260	ND		0.216	0.086
Aroclor-1262	ND		0.216	0.086
Aroclor-1268	ND		0.216	0.086
PCBs	3.75		0.216	0.086

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E — Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0014

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-008
Client ID: LL-42_(1
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5854.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.12g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 81.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.216	0.086
Aroclor-1221	ND		0.216	0.086
Aroclor-1232	ND		0.216	0.086
Aroclor-1242	ND		0.216	0.086
Aroclor-1248	4.09		0.216	0.086
Aroclor-1254	3.26		0.216	0.086
Aroclor-1260	ND		0.216	0.086
Aroclor-1262	ND		0.216	0.086
Aroclor-1268	ND		0.216	0.086
PCBs	7.35		0.216	0.086

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0015

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-010
Client ID: MM-42_(0
Date Received: 12/09/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5856.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.31g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 84.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.248	0.099
Aroclor-1221	ND		0.248	0.099
Aroclor-1232	ND		0.248	0.099
Aroclor-1242	ND		0.248	0.099
Aroclor-1248	5.15		0.248	0.099
Aroclor-1254	ND		0.248	0.099
Aroclor-1260	ND		0.248	0.099
Aroclor-1262	ND		0.248	0.099
Aroclor-1268	ND		0.248	0.099
PCBs	5.15		0.248	0.099

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0016

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-12226-013
Client ID: FB-42
Date Received: 12/09/2013
Date Extracted: 12/13/2013
Date Analyzed: 12/16/2013
Data file: Y3530.D

GC Column: DB-5/DB1701P
Sample wt/vol: 1000ml
Matrix-Units: Aqueous-mg/L (ppm)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0017

PCB DATA

PCB QC SUMMARY

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 12/11/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKS131210-08	SOIL	104		89		126		102	
PCB	LCSS131210-08	SOIL	106		119		125		107	
SS02-PX_	E13-12100-002	SOIL	111		97		128		109	
SS01-PX_	E13-12100-003	SOIL	113		95		130		108	
SS01-PX_	E13-12100-004	SOIL	107		100		124		115	
SS01-PX_	E13-12100-005	SOIL	106		92		122		103	
KK-43_(0	E13-12226-001	SOIL	120		103		140		123	
KK-43_(1	E13-12226-002	SOIL	120		112		138		119	
KK-43_(2	E13-12226-003	SOIL	144		128		170	M	135	
KK-42_(0	E13-12226-004	SOIL	141		118		161	M	142	
KK-42_(1	E13-12226-005	SOIL	142		119		164	M	142	
KK-42_(2	E13-12226-006	SOIL	131		109		149		145	
LL-42_(0	E13-12226-007	SOIL	148		135		171	M	148	
LL-42_(1	E13-12226-008	SOIL	137		123		162	M	133	
LL-42_(2	E13-12226-009	SOIL	124		106		146		126	
MM-42_(0	E13-12226-010	SOIL	139		133		165	M	146	
MM-42_(1	E13-12226-011	SOIL	141		121		169	M	137	
MM-42_(2	E13-12226-012	SOIL	145		129		170	M	137	
EH-7/0.5	E13-12164-005	SOIL	103		108		119		106	
EH-8/0.5	E13-12164-006	SOIL	99		96		114		112	
EH-15A/0	E13-12164-007	SOIL	104		96		120		110	
EH-3/0.5	E13-12164-004	SOIL	100		101		117		115	
PCB	12226-012MS	SOIL	149		135		177	M	136	
PCB	12226-012MSD	SOIL	150		134		175	M	139	

Surrogate QC Limits	Soil	Aqueous/Leachate
TCMX = Tetrachloro-m-xylene	30-150	30-150
DCB = Decachlorobiphenyl	30-150	30-150

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
M Matrix interference

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 12/16/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKA131213-08	AQUEOUS	123		77		132		82	
PCB	LCSA131213-08	AQUEOUS	116		82		121		77	
WEIR_STA	E13-12252-001	AQUEOUS	85		65		89		70	
PCB	12252-001MS	AQUEOUS	100		75		106		74	
PCB	12252-001MSD	AQUEOUS	102		73		107		72	
FB-42	E13-12226-013	AQUEOUS	117		75		124		82	
DRUM	E13-12236-001	AQUEOUS	112		84		118		90	
FB	E13-12314-011	AQUEOUS	126		80		134		81	
FB-43	E13-12303-019	AQUEOUS	117		74		124		75	
FB	E13-12261-015	AQUEOUS	126		80		132		81	

Surrogate QC Limits	Soil	Aqueous/Leachate
TCMX = Tetrachloro-m-xylene	30-150	30-150
DCB = Decachlorobiphenyl	30-150	30-150

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
M Matrix interference

SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSS131210-08

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	492.0	98	40 - 140
Aroclor-1260	500.0	0.0	601.2	120	40 - 140

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

* Values outside of QC limits

NC Non calculable

Spike Recovery: __0___ out of __2__ outside limits

AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA131213-08

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	480.8	96	40 - 140
Aroclor-1260	500.0	0.0	466.7	93	40 - 140

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

* Values outside of QC limits

NC Non calculable

Spike Recovery: __0___ out of __2__ outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-12226-012

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC	#	QC LIMITS REC.
Aroclor-1016	500.0	0.0	770.2	154	*	40 - 140
Aroclor-1260	500.0	0.0	800.6	160	*	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	#	MSD % REC	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	746.9	*	149	3		50	40 - 140
Aroclor-1260	0.0	786.1	*	157	2		50	40 - 140

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

* Values outside of QC limits

NC Non calculable

RPD: __0___ out of __2__ outside limits

Spike Recovery: __4___ out of __4__ outside limits

AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-12252-001

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	481.3	96	40 - 140
Aroclor-1260	500.0	0.0	484.8	97	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD % # REC	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	450.8	90	6	50	40 - 140
Aroclor-1260	0.0	451.0	90	7	50	40 - 140

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

* Values outside of QC limits

NC Non calculable

RPD: __0___ out of __2__ outside limits

Spike Recovery: __0___ out of __4__ outside limits

PCB METHOD BLANK SUMMARY

Lab File ID: R5840.D

Instrument ID: GC-R

Date Extracted: 12/10/2013

Matrix: SOIL

Date Analyzed: 12/11/2013

Time Analyzed: 10:35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131210-08	12/11/2013	10:52
SS02-PX_	E13-12100-002	12/11/2013	11:09
SS01-PX_	E13-12100-003	12/11/2013	11:27
SS01-PX_	E13-12100-004	12/11/2013	11:44
SS01-PX_	E13-12100-005	12/11/2013	12:02
KK-43_(0	E13-12226-001	12/11/2013	12:37
KK-43_(1	E13-12226-002	12/11/2013	12:54
KK-43_(2	E13-12226-003	12/11/2013	13:11
KK-42_(0	E13-12226-004	12/11/2013	13:29
KK-42_(1	E13-12226-005	12/11/2013	13:46
KK-42_(2	E13-12226-006	12/11/2013	14:04
LL-42_(0	E13-12226-007	12/11/2013	14:21
LL-42_(1	E13-12226-008	12/11/2013	14:38
LL-42_(2	E13-12226-009	12/11/2013	14:56
MM-42_(0	E13-12226-010	12/11/2013	15:13
MM-42_(1	E13-12226-011	12/11/2013	15:31
MM-42_(2	E13-12226-012	12/11/2013	15:48
EH-7/0.5	E13-12164-005	12/11/2013	16:06
EH-8/0.5	E13-12164-006	12/11/2013	16:23
EH-15A/0	E13-12164-007	12/11/2013	16:40
EH-3/0.5	E13-12164-004	12/11/2013	16:58
PCB	12226-012MS	12/11/2013	17:15
PCB	12226-012MSD	12/11/2013	17:33

PCB METHOD BLANK SUMMARY

Lab File ID:	Y3525.D	Instrument ID:	GC-Y
Date Extracted:	12/13/2013	Matrix:	AQUEOUS
Date Analyzed:	12/16/2013	Time Analyzed:	10:54

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA131213-08	12/16/2013	11:11
WEIR_STA	E13-12252-001	12/16/2013	11:28
PCB	12252-001MS	12/16/2013	11:46
PCB	12252-001MSD	12/16/2013	12:03
FB-42	E13-12226-013	12/16/2013	12:20
DRUM	E13-12236-001	12/16/2013	12:38
FB	E13-12314-011	12/16/2013	12:55
FB-43	E13-12303-019	12/16/2013	13:12
FB	E13-12261-015	12/16/2013	13:30

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WI NDOW FROM	TO
Aroclor-1016	3.20	3.20	3.20	3.20	3.20	3.20	3.13	3.27
Aroclor-1016 {2}	4.03	4.03	4.03	4.03	4.03	4.03	3.96	4.10
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.58	4.59	4.52	4.66
Aroclor-1016 {4}	5.09	5.09	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.11				2.04	2.18
Aroclor-1221 {2}			3.00				2.93	3.07
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.20				3.13	3.27
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.20				3.13	3.27
Aroclor-1232 {2}			4.03				3.96	4.10
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.03				3.96	4.10
Aroclor-1242 {2}			4.97				4.90	5.04
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.43				4.35	4.51
Aroclor-1248 {2}			4.97				4.89	5.05
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.28				6.20	6.36
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.30				8.21	8.39
Aroclor-1260	8.30	8.30	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.97	8.97	8.96	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.46	9.45	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.95	9.94	9.94	9.94	9.93	9.94	9.04	10.84
Aroclor-1260 {5}	11.01	11.01	11.00	11.00	11.00	11.00	10.10	11.90

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	226522	225900	208941	204235	196721	212464	6.25
Aroclor-1016 {2}	301744	306063	286681	283097	272863	290090	4.71
Aroclor-1016 {3}	376785	388550	364042	361858	352041	368655	3.85
Aroclor-1016 {4}	196738	198531	181033	176324	168237	184173	7.13
Aroclor-1016 {5}	287663	297856	289520	290067	283943	289810	1.76
Aroclor-1221			107435				
Aroclor-1221 {2}			161651				
Aroclor-1221 {3}			108933				
Aroclor-1221 {4}			380419				
Aroclor-1221 {5}			81581				
Aroclor-1232			279612				
Aroclor-1232 {2}			164483				
Aroclor-1232 {3}			136840				
Aroclor-1232 {4}			155000				
Aroclor-1232 {5}			198834				
Aroclor-1242			250324				
Aroclor-1242 {2}			154706				
Aroclor-1242 {3}			216074				
Aroclor-1242 {4}			339013				
Aroclor-1242 {5}			289518				
Aroclor-1248			589562				
Aroclor-1248 {2}			342010				
Aroclor-1248 {3}			444855				
Aroclor-1248 {4}			728971				
Aroclor-1248 {5}			493033				
Aroclor-1254			672283				
Aroclor-1254 {2}			411226				
Aroclor-1254 {3}			788025				
Aroclor-1254 {4}			792494				
Aroclor-1254 {5}			712563				
Aroclor-1260	669375	737670	772093	790110	790981	752046	6.78
Aroclor-1260 {2}	332948	339012	359129	346598	357351	347008	3.27
Aroclor-1260 {3}	820066	889329	911436	921093	926473	893679	4.87
Aroclor-1260 {4}	389368	422481	446723	456445	470068	437017	7.28
Aroclor-1260 {5}	188497	209732	214850	213008	212807	207779	5.26
						Average %RSD	5.12

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WI NDOW FROM	TO
Aroclor-1016	3.36	3.36	3.36	3.36	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.93	3.93	3.93	3.93	3.94	3.93	3.86	4.00
Aroclor-1016 {3}	4.64	4.65	4.64	4.65	4.66	4.65	4.58	4.72
Aroclor-1016 {4}	4.84	4.84	4.84	4.85	4.86	4.85	4.78	4.92
Aroclor-1016 {5}	5.01	5.01	5.01	5.01	5.02	5.01	4.94	5.08
Aroclor-1221			2.16				2.09	2.23
Aroclor-1221 {2}			3.07				3.00	3.14
Aroclor-1221 {3}			3.28				3.21	3.35
Aroclor-1221 {4}			3.37				3.30	3.44
Aroclor-1221 {5}			4.65				4.58	4.72
Aroclor-1232			3.36				3.29	3.43
Aroclor-1232 {2}			4.29				4.22	4.36
Aroclor-1232 {3}			4.84				4.77	4.91
Aroclor-1232 {4}			5.01				4.94	5.08
Aroclor-1232 {5}			5.59				5.52	5.66
Aroclor-1242			4.29				4.22	4.36
Aroclor-1242 {2}			5.01				4.94	5.08
Aroclor-1242 {3}			5.60				5.53	5.67
Aroclor-1242 {4}			5.75				5.68	5.82
Aroclor-1242 {5}			6.29				6.22	6.36
Aroclor-1248			4.64				4.56	4.72
Aroclor-1248 {2}			5.21				5.13	5.29
Aroclor-1248 {3}			5.59				5.51	5.67
Aroclor-1248 {4}			5.75				5.67	5.83
Aroclor-1248 {5}			6.09				6.01	6.17
Aroclor-1254			6.58				6.50	6.66
Aroclor-1254 {2}			7.15				7.07	7.23
Aroclor-1254 {3}			7.58				7.49	7.67
Aroclor-1254 {4}			7.77				7.68	7.86
Aroclor-1254 {5}			8.58				8.49	8.67
Aroclor-1260	7.34	7.33	7.33	7.33	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.58	7.58	7.59	7.59	7.59	7.59	6.69	8.49
Aroclor-1260 {3}	9.17	9.17	9.17	9.17	9.17	9.17	8.27	10.07
Aroclor-1260 {4}	9.68	9.68	9.68	9.68	9.68	9.68	8.78	10.58
Aroclor-1260 {5}	10.27	10.27	10.27	10.27	10.27	10.27	9.37	11.17

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	458311	460630	416614	400325	378539	422884	8.52
Aroclor-1016 {2}	1034186	983316	854289	823661	777298	894550	12.22
Aroclor-1016 {3}	2070883	2027148	1846278	1813463	1743179	1900190	7.46
Aroclor-1016 {4}	875093	844939	780394	749139	728194	795552	7.87
Aroclor-1016 {5}	669763	645248	597675	581408	564504	611720	7.24
Aroclor-1221			212048				
Aroclor-1221 {2}			337253				
Aroclor-1221 {3}			206598				
Aroclor-1221 {4}			754595				
Aroclor-1221 {5}			139067				
Aroclor-1232			558305				
Aroclor-1232 {2}			214379				
Aroclor-1232 {3}			449439				
Aroclor-1232 {4}			346191				
Aroclor-1232 {5}			490383				
Aroclor-1242			322149				
Aroclor-1242 {2}			524799				
Aroclor-1242 {3}			698289				
Aroclor-1242 {4}			576589				
Aroclor-1242 {5}			1096145				
Aroclor-1248			1224010				
Aroclor-1248 {2}			1866655				
Aroclor-1248 {3}			1322324				
Aroclor-1248 {4}			1188759				
Aroclor-1248 {5}			633775				
Aroclor-1254			1416771				
Aroclor-1254 {2}			1114656				
Aroclor-1254 {3}			835746				
Aroclor-1254 {4}			1016291				
Aroclor-1254 {5}			1484111				
Aroclor-1260	814856	791655	777302	766870	638238	757784	9.13
Aroclor-1260 {2}	1208926	1162133	1015530	982249	934022	1060572	11.21
Aroclor-1260 {3}	887622	881615	814484	806877	799338	837987	5.13
Aroclor-1260 {4}	1867398	1962576	1809886	1806877	1784259	1846199	3.90
Aroclor-1260 {5}	1393024	1390244	1294429	1280361	1287553	1329122	4.31
					Average %RSD		7.70

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WI NDOW FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.17				10.05	10.29
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WI NDOW FROM	TO
Aroclor-1262			9.17				9.05	9.29
Aroclor-1262 {2}			9.68				9.56	9.80
Aroclor-1262 {3}			10.17				10.05	10.29
Aroclor-1262 {4}			10.26				10.14	10.38
Aroclor-1262 {5}			10.85				10.73	10.97
Aroclor-1268			10.17				10.05	10.29
Aroclor-1268 {2}			10.25				10.13	10.37
Aroclor-1268 {3}			10.49				10.37	10.61
Aroclor-1268 {4}			10.64				10.52	10.76
Aroclor-1268 {5}			11.72				11.60	11.84

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013 **Instrument ID:** GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			375092				
Aroclor-1262 {2}			1372820				
Aroclor-1262 {3}			509572				
Aroclor-1262 {4}			633134				
Aroclor-1262 {5}			474740				
Aroclor-1268			1301015				
Aroclor-1268 {2}			1488781				
Aroclor-1268 {3}			1131524				
Aroclor-1268 {4}			319375				
Aroclor-1268 {5}			3566996				

GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			1244890				
Aroclor-1262 {2}			2848395				
Aroclor-1262 {3}			887890				
Aroclor-1262 {4}			2004736				
Aroclor-1262 {5}			370824				
Aroclor-1268			2570716				
Aroclor-1268 {2}			2915321				
Aroclor-1268 {3}			2249766				
Aroclor-1268 {4}			636367				
Aroclor-1268 {5}			6939711				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/11/2013 **Instrument ID:** GC-R

Data File: R5839.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.20	3.13	3.27	212464	196442	7.54
Aroclor-1016 {2}	4.03	3.96	4.10	290090	257690	11.17
Aroclor-1016 {3}	4.59	4.52	4.66	368655	324974	11.85
Aroclor-1016 {4}	5.09	5.02	5.16	184173	157354	14.56
Aroclor-1016 {5}	5.49	5.42	5.56	289810	248562	14.23
Aroclor-1260	8.30	7.39	9.19	752046	642605	14.55
Aroclor-1260 {2}	8.97	8.07	9.87	347008	287114	17.26
Aroclor-1260 {3}	9.45	8.55	10.35	893679	763375	14.58
Aroclor-1260 {4}	9.94	9.04	10.84	437017	389509	10.87
Aroclor-1260 {5}	11.00	10.10	11.90	207779	212336	2.19

Data File: R5839.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.37	3.30	3.44	422884	471783	11.56
Aroclor-1016 {2}	3.93	3.86	4.00	894550	941720	5.27
Aroclor-1016 {3}	4.65	4.58	4.72	1900190	2045502	7.65
Aroclor-1016 {4}	4.85	4.78	4.92	795552	835919	5.07
Aroclor-1016 {5}	5.02	4.94	5.08	611720	635876	3.95
Aroclor-1260	7.34	6.44	8.24	757784	743456	1.89
Aroclor-1260 {2}	7.59	6.69	8.49	1060572	961391	9.35
Aroclor-1260 {3}	9.17	8.27	10.07	837987	758117	9.53
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	1750603	5.18
Aroclor-1260 {5}	10.26	9.37	11.17	1329122	1320730	0.63

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/11/2013 **Instrument ID:** GC-R

Data File: R5846.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.20	3.13	3.27	212464	210264	1.04
Aroclor-1016 {2}	4.03	3.96	4.10	290090	278067	4.14
Aroclor-1016 {3}	4.59	4.52	4.66	368655	361459	1.95
Aroclor-1016 {4}	5.09	5.02	5.16	184173	176176	4.34
Aroclor-1016 {5}	5.49	5.42	5.56	289810	276179	4.70
Aroclor-1260	8.30	7.39	9.19	752046	719080	4.38
Aroclor-1260 {2}	8.97	8.07	9.87	347008	331146	4.57
Aroclor-1260 {3}	9.46	8.55	10.35	893679	869926	2.66
Aroclor-1260 {4}	9.94	9.04	10.84	437017	443738	1.54
Aroclor-1260 {5}	11.00	10.10	11.90	207779	199187	4.14

Data File: R5846.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.36	3.30	3.44	422884	501939	18.69
Aroclor-1016 {2}	3.92	3.86	4.00	894550	994455	11.17
Aroclor-1016 {3}	4.64	4.58	4.72	1900190	2184312	14.95
Aroclor-1016 {4}	4.84	4.78	4.92	795552	914988	15.01
Aroclor-1016 {5}	5.01	4.94	5.08	611720	696508	13.86
Aroclor-1260	7.33	6.44	8.24	757784	845189	11.53
Aroclor-1260 {2}	7.58	6.69	8.49	1060572	1107663	4.44
Aroclor-1260 {3}	9.17	8.27	10.07	837987	879157	4.91
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	2066610	11.94
Aroclor-1260 {5}	10.26	9.37	11.17	1329122	1539480	15.83

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/11/2013 **Instrument ID:** GC-R

Data File: R5865.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.20	3.13	3.27	212464	205769	3.15
Aroclor-1016 {2}	4.03	3.96	4.10	290090	272636	6.02
Aroclor-1016 {3}	4.59	4.52	4.66	368655	352581	4.36
Aroclor-1016 {4}	5.09	5.02	5.16	184173	178268	3.21
Aroclor-1016 {5}	5.49	5.42	5.56	289810	271640	6.27
Aroclor-1260	8.30	7.39	9.19	752046	704774	6.29
Aroclor-1260 {2}	8.97	8.07	9.87	347008	318459	8.23
Aroclor-1260 {3}	9.46	8.55	10.35	893679	834137	6.66
Aroclor-1260 {4}	9.95	9.04	10.84	437017	414983	5.04
Aroclor-1260 {5}	11.00	10.10	11.90	207779	198890	4.28

Data File: R5865.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.36	3.30	3.44	422884	492857	16.55
Aroclor-1016 {2}	3.92	3.86	4.00	894550	972020	8.66
Aroclor-1016 {3}	4.64	4.58	4.72	1900190	2104820	10.77
Aroclor-1016 {4}	4.84	4.78	4.92	795552	886176	11.39
Aroclor-1016 {5}	5.01	4.94	5.08	611720	677829	10.81
Aroclor-1260	7.33	6.44	8.24	757784	809450	6.82
Aroclor-1260 {2}	7.58	6.69	8.49	1060572	1088360	2.62
Aroclor-1260 {3}	9.17	8.27	10.07	837987	854424	1.96
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	1962038	6.27
Aroclor-1260 {5}	10.26	9.37	11.17	1329122	1371551	3.19

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.22	3.23	3.22	3.23	3.23	3.23	3.16	3.30
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.60	4.60	4.60	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.50	5.50	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.03				2.96	3.10
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.23				3.16	3.30
Aroclor-1221 {5}			3.82				3.75	3.89
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.45				4.37	4.53
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.99				6.90	7.08
Aroclor-1254 {4}			7.43				7.34	7.52
Aroclor-1254 {5}			8.27				8.18	8.36
Aroclor-1260	8.27	8.27	8.27	8.27	8.27	8.27	7.37	9.17
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.94	8.94	8.04	9.84
Aroclor-1260 {3}	9.41	9.41	9.41	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.89	9.89	9.89	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.95	10.95	10.95	10.95	10.95	10.05	11.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	381993	405255	331321	332399	322462	354686	10.34
Aroclor-1016 {2}	597044	576339	449929	455007	443641	504392	14.99
Aroclor-1016 {3}	779042	737558	574505	581516	568072	648138	15.70
Aroclor-1016 {4}	386225	387113	291563	290047	280172	327024	16.70
Aroclor-1016 {5}	612649	607629	479999	485156	475797	532246	13.38
Aroclor-1221			196817				
Aroclor-1221 {2}			306095				
Aroclor-1221 {3}			197030				
Aroclor-1221 {4}			658703				
Aroclor-1221 {5}			158761				
Aroclor-1232			491067				
Aroclor-1232 {2}			302367				
Aroclor-1232 {3}			265204				
Aroclor-1232 {4}			297882				
Aroclor-1232 {5}			376155				
Aroclor-1242			447563				
Aroclor-1242 {2}			293232				
Aroclor-1242 {3}			406125				
Aroclor-1242 {4}			598272				
Aroclor-1242 {5}			521091				
Aroclor-1248			1042028				
Aroclor-1248 {2}			614053				
Aroclor-1248 {3}			792948				
Aroclor-1248 {4}			1251799				
Aroclor-1248 {5}			969090				
Aroclor-1254			1248236				
Aroclor-1254 {2}			821943				
Aroclor-1254 {3}			1505148				
Aroclor-1254 {4}			1645156				
Aroclor-1254 {5}			1505748				
Aroclor-1260	1912490	1764001	1433890	1466047	1443949	1604075	13.74
Aroclor-1260 {2}	930520	900281	698944	703442	683608	783359	15.48
Aroclor-1260 {3}	2226532	2121606	1758234	1798763	1765997	1934226	11.51
Aroclor-1260 {4}	1237666	1154444	955432	974958	942565	1053013	12.76
Aroclor-1260 {5}	521300	509963	521371	468229	448417	493856	6.78
						Average %RSD	13.14

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.75	3.75	3.75	3.75	3.75	3.75	3.68	3.82
Aroclor-1016 {2}	4.34	4.35	4.35	4.35	4.35	4.35	4.28	4.42
Aroclor-1016 {3}	5.09	5.09	5.10	5.09	5.09	5.10	5.03	5.17
Aroclor-1016 {4}	5.30	5.30	5.31	5.30	5.30	5.30	5.23	5.37
Aroclor-1016 {5}	5.48	5.48	5.48	5.48	5.48	5.48	5.41	5.55
Aroclor-1221			2.43				2.36	2.50
Aroclor-1221 {2}			3.43				3.36	3.50
Aroclor-1221 {3}			3.66				3.59	3.73
Aroclor-1221 {4}			3.75				3.68	3.82
Aroclor-1221 {5}			5.09				5.02	5.16
Aroclor-1232			3.75				3.68	3.82
Aroclor-1232 {2}			4.73				4.66	4.80
Aroclor-1232 {3}			5.30				5.23	5.37
Aroclor-1232 {4}			5.47				5.40	5.54
Aroclor-1232 {5}			6.07				6.00	6.14
Aroclor-1242			4.73				4.66	4.80
Aroclor-1242 {2}			5.48				5.41	5.55
Aroclor-1242 {3}			6.07				6.00	6.14
Aroclor-1242 {4}			6.23				6.16	6.30
Aroclor-1242 {5}			6.77				6.70	6.84
Aroclor-1248			5.09				5.01	5.17
Aroclor-1248 {2}			5.68				5.60	5.76
Aroclor-1248 {3}			6.07				5.99	6.15
Aroclor-1248 {4}			6.23				6.15	6.31
Aroclor-1248 {5}			6.57				6.49	6.65
Aroclor-1254			7.07				6.99	7.15
Aroclor-1254 {2}			7.65				7.57	7.73
Aroclor-1254 {3}			8.26				8.17	8.35
Aroclor-1254 {4}			8.49				8.40	8.58
Aroclor-1254 {5}			9.08				8.99	9.17
Aroclor-1260	7.83	7.83	7.83	7.83	7.83	7.83	6.93	8.73
Aroclor-1260 {2}	8.08	8.09	8.09	8.09	8.09	8.09	7.19	8.99
Aroclor-1260 {3}	9.67	9.67	9.67	9.67	9.67	9.67	8.77	10.57
Aroclor-1260 {4}	10.18	10.18	10.18	10.18	10.18	10.18	9.28	11.08
Aroclor-1260 {5}	10.76	10.77	10.77	10.76	10.76	10.76	9.86	11.66

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	860655	813577	654633	632126	593235	710845	16.67
Aroclor-1016 {2}	1644649	1627507	1473570	1217303	1138097	1420225	16.40
Aroclor-1016 {3}	4038356	3818311	3268753	3184546	3016267	3465247	12.68
Aroclor-1016 {4}	1767077	1694291	1444570	1432266	1365836	1540808	11.54
Aroclor-1016 {5}	1314650	1281908	1126879	1129198	1087058	1187939	8.65
Aroclor-1221			361918				
Aroclor-1221 {2}			556567				
Aroclor-1221 {3}			373401				
Aroclor-1221 {4}			1311496				
Aroclor-1221 {5}			290062				
Aroclor-1232			988844				
Aroclor-1232 {2}			387514				
Aroclor-1232 {3}			953594				
Aroclor-1232 {4}			747855				
Aroclor-1232 {5}			1033723				
Aroclor-1242			575426				
Aroclor-1242 {2}			1115177				
Aroclor-1242 {3}			1465418				
Aroclor-1242 {4}			1240354				
Aroclor-1242 {5}			2415057				
Aroclor-1248			2462116				
Aroclor-1248 {2}			3669721				
Aroclor-1248 {3}			2614777				
Aroclor-1248 {4}			2270134				
Aroclor-1248 {5}			1343297				
Aroclor-1254			3208782				
Aroclor-1254 {2}			2587156				
Aroclor-1254 {3}			2606959				
Aroclor-1254 {4}			1514854				
Aroclor-1254 {5}			3788493				
Aroclor-1260	1642788	1563638	1354897	1354734	1285946	1440400	10.68
Aroclor-1260 {2}	2471106	2310926	1969748	1950863	1832873	2107103	12.83
Aroclor-1260 {3}	2073757	2088673	1866029	1870201	1764721	1932676	7.35
Aroclor-1260 {4}	4560896	4747637	4338376	4372429	4260007	4455869	4.42
Aroclor-1260 {5}	3126583	3677020	3172866	3206926	3119370	3260553	7.22
					Average %RSD		10.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1262			8.56				8.44	8.68
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.95				10.83	11.07
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.13				10.01	10.25
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1262			9.76				9.64	9.88
Aroclor-1262 {2}			10.18				10.06	10.30
Aroclor-1262 {3}			10.76				10.64	10.88
Aroclor-1262 {4}			10.76				10.64	10.88
Aroclor-1262 {5}			11.36				11.24	11.48
Aroclor-1268			10.67				10.55	10.79
Aroclor-1268 {2}			10.75				10.63	10.87
Aroclor-1268 {3}			11.01				10.89	11.13
Aroclor-1268 {4}			12.22				12.10	12.34
Aroclor-1268 {5}			12.45				12.33	12.57

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			1433565				
Aroclor-1262 {2}			2833448				
Aroclor-1262 {3}			1118465				
Aroclor-1262 {4}			1277177				
Aroclor-1262 {5}			1094682				
Aroclor-1268			2722859				
Aroclor-1268 {2}			2944095				
Aroclor-1268 {3}			2384133				
Aroclor-1268 {4}			7164207				
Aroclor-1268 {5}			4098749				

GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			1414958				
Aroclor-1262 {2}			7470096				
Aroclor-1262 {3}			5440071				
Aroclor-1262 {4}			5440071				
Aroclor-1262 {5}			1151667				
Aroclor-1268			7568857				
Aroclor-1268 {2}			7967148				
Aroclor-1268 {3}			6653841				
Aroclor-1268 {4}			19401131				
Aroclor-1268 {5}			11263170				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/16/2013 **Instrument ID:** GC-Y

Data File: Y3524.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.23	3.16	3.30	354686	368889	4.00
Aroclor-1016 {2}	4.05	3.98	4.12	504392	500967	0.68
Aroclor-1016 {3}	4.60	4.53	4.67	648138	638037	1.56
Aroclor-1016 {4}	5.11	5.03	5.17	327024	353843	8.20
Aroclor-1016 {5}	5.50	5.42	5.56	532246	530939	0.25
Aroclor-1260	8.27	7.37	9.17	1604075	1473234	8.16
Aroclor-1260 {2}	8.95	8.04	9.84	783359	673458	14.03
Aroclor-1260 {3}	9.42	8.51	10.31	1934226	1630353	15.71
Aroclor-1260 {4}	9.90	8.99	10.79	1053013	863926	17.96
Aroclor-1260 {5}	10.96	10.05	11.85	493856	411642	16.65

Data File: Y3524.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.76	3.68	3.82	710845	818497	15.14
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1662330	17.05
Aroclor-1016 {3}	5.10	5.03	5.17	3465247	3852391	11.17
Aroclor-1016 {4}	5.31	5.23	5.37	1540808	1672772	8.56
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1336631	12.52
Aroclor-1260	7.84	6.93	8.73	1440400	1559645	8.28
Aroclor-1260 {2}	8.10	7.19	8.99	2107103	2224200	5.56
Aroclor-1260 {3}	9.68	8.77	10.57	1932676	1855612	3.99
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4042476	9.28
Aroclor-1260 {5}	10.77	9.86	11.66	3260553	2793817	14.31

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/16/2013 **Instrument ID:** GC-Y

Data File: Y3535.D **GC Column (1st):** DB-5

Compound	RT	RT WINDOW FROM	RT WINDOW TO	Avg CF	CC CF	%D
Aroclor-1016	3.23	3.16	3.30	354686	352274	0.68
Aroclor-1016 {2}	4.05	3.98	4.12	504392	482010	4.44
Aroclor-1016 {3}	4.60	4.53	4.67	648138	613933	5.28
Aroclor-1016 {4}	5.11	5.03	5.17	327024	329799	0.85
Aroclor-1016 {5}	5.50	5.42	5.56	532246	512910	3.63
Aroclor-1260	8.27	7.37	9.17	1604075	1488463	7.21
Aroclor-1260 {2}	8.95	8.04	9.84	783359	691868	11.68
Aroclor-1260 {3}	9.42	8.51	10.31	1934226	1718137	11.17
Aroclor-1260 {4}	9.90	8.99	10.79	1053013	907711	13.80
Aroclor-1260 {5}	10.96	10.05	11.85	493856	435217	11.87

Data File: Y3535.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WINDOW FROM	RT WINDOW TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.68	3.82	710845	729863	2.68
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1405993	1.00
Aroclor-1016 {3}	5.10	5.03	5.17	3465247	3671556	5.95
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1609724	4.47
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1284483	8.13
Aroclor-1260	7.84	6.93	8.73	1440400	1540771	6.97
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	2207687	4.77
Aroclor-1260 {3}	9.68	8.77	10.57	1932676	1946022	0.69
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4311268	3.25
Aroclor-1260 {5}	10.77	9.86	11.66	3260553	3007166	7.77

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-R **Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1 2.74 **DCB 1** 12.09 **TCMX 2** 2.56 **DCB 2** 11.94

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKS131210-08	12/11/2013	10:35	2.74		12.09		2.56		11.94	
PCB	LCSS131210-08	12/11/2013	10:52	2.74		12.09		2.56		11.93	
SS02-PX_	E13-12100-002	12/11/2013	11:09	2.74		12.08		2.56		11.93	
SS01-PX_	E13-12100-003	12/11/2013	11:27	2.74		12.08		2.56		11.93	
SS01-PX_	E13-12100-004	12/11/2013	11:44	2.74		12.08		2.56		11.93	
SS01-PX_	E13-12100-005	12/11/2013	12:02	2.74		12.08		2.56		11.93	
KK-43_(0	E13-12226-001	12/11/2013	12:37	2.74		12.08		2.56		11.93	
KK-43_(1	E13-12226-002	12/11/2013	12:54	2.74		12.08		2.56		11.93	
KK-43_(2	E13-12226-003	12/11/2013	13:11	2.74		12.08		2.56		11.93	
KK-42_(0	E13-12226-004	12/11/2013	13:29	2.74		12.08		2.56		11.93	
KK-42_(1	E13-12226-005	12/11/2013	13:46	2.74		12.08		2.56		11.93	
KK-42_(2	E13-12226-006	12/11/2013	14:04	2.74		12.09		2.56		11.93	
LL-42_(0	E13-12226-007	12/11/2013	14:21	2.74		12.08		2.56		11.93	
LL-42_(1	E13-12226-008	12/11/2013	14:38	2.74		12.08		2.56		11.93	
LL-42_(2	E13-12226-009	12/11/2013	14:56	2.74		12.08		2.56		11.93	
MM-42_(0	E13-12226-010	12/11/2013	15:13	2.74		12.08		2.56		11.93	
MM-42_(1	E13-12226-011	12/11/2013	15:31	2.74		12.08		2.56		11.93	
MM-42_(2	E13-12226-012	12/11/2013	15:48	2.74		12.08		2.56		11.93	
EH-7/0.5	E13-12164-005	12/11/2013	16:06	2.74		12.08		2.56		11.93	
EH-8/0.5	E13-12164-006	12/11/2013	16:23	2.74		12.08		2.56		11.93	
EH-15A/0	E13-12164-007	12/11/2013	16:40	2.74		12.08		2.56		11.93	
EH-3/0.5	E13-12164-004	12/11/2013	16:58	2.74		12.08		2.56		11.93	
PCB	12226-012MS	12/11/2013	17:15	2.74		12.08		2.56		11.93	
PCB	12226-012MSD	12/11/2013	17:33	2.74		12.08		2.56		11.93	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene (± 0.10 Minutes)

DCB = Decachlorobiphenyl (± 0.10 Minutes)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-Y **Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1 2.77 **DCB 1** 12.05 **TCMX 2** 2.88 **DCB 2** 12.45

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKA131213-08	12/16/2013	10:54	2.77		12.05		2.88		12.45	
PCB	LCSA131213-08	12/16/2013	11:11	2.77		12.05		2.88		12.45	
WEIR_STA	E13-12252-001	12/16/2013	11:28	2.77		12.05		2.88		12.45	
PCB	12252-001MS	12/16/2013	11:46	2.77		12.05		2.88		12.45	
PCB	12252-001MSD	12/16/2013	12:03	2.77		12.05		2.88		12.45	
FB-42	E13-12226-013	12/16/2013	12:20	2.77		12.05		2.88		12.45	
DRUM	E13-12236-001	12/16/2013	12:38	2.77		12.05		2.88		12.45	
FB	E13-12314-011	12/16/2013	12:55	2.77		12.05		2.88		12.45	
FB-43	E13-12303-019	12/16/2013	13:12	2.77		12.05		2.88		12.45	
FB	E13-12261-015	12/16/2013	13:30	2.77		12.05		2.88		12.45	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene (± 0.10 Minutes)

DCB = Decachlorobiphenyl (± 0.10 Minutes)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
M Matrix interference

PCB SAMPLE DATA

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5847.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 12:37
Operator : JS
Sample : KK-43_(0,E13-12226-001,S,5.51g,42.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 16:05:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2760.6E6	6671.4E6	239.378	279.141
Spiked Amount 200.000			Recovery	=	119.69%	139.57%
2) S DCB	12.08	11.93	677.0E6	1550.8E6	206.634	245.251
Spiked Amount 200.000			Recovery	=	103.32%	122.63%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	4663088	9825907	7.909	8.028
24) L6 Aroclor-1248 {2}	4.97	5.20	5370772	31588508	15.704	16.923
25) L6 Aroclor-1248 {3}	5.30	5.59	8733026	23494707	19.631m	17.768
26) L6 Aroclor-1248 {4}	6.00	5.74	11373710	13935972	15.602	11.723
27) L6 Aroclor-1248 {5}	6.29	6.09	5016158	8481320	10.174	13.382 #
Sum Aroclor-1248			35156754	87326414	69.021	67.823
Average Aroclor-1248					13.804	13.565
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

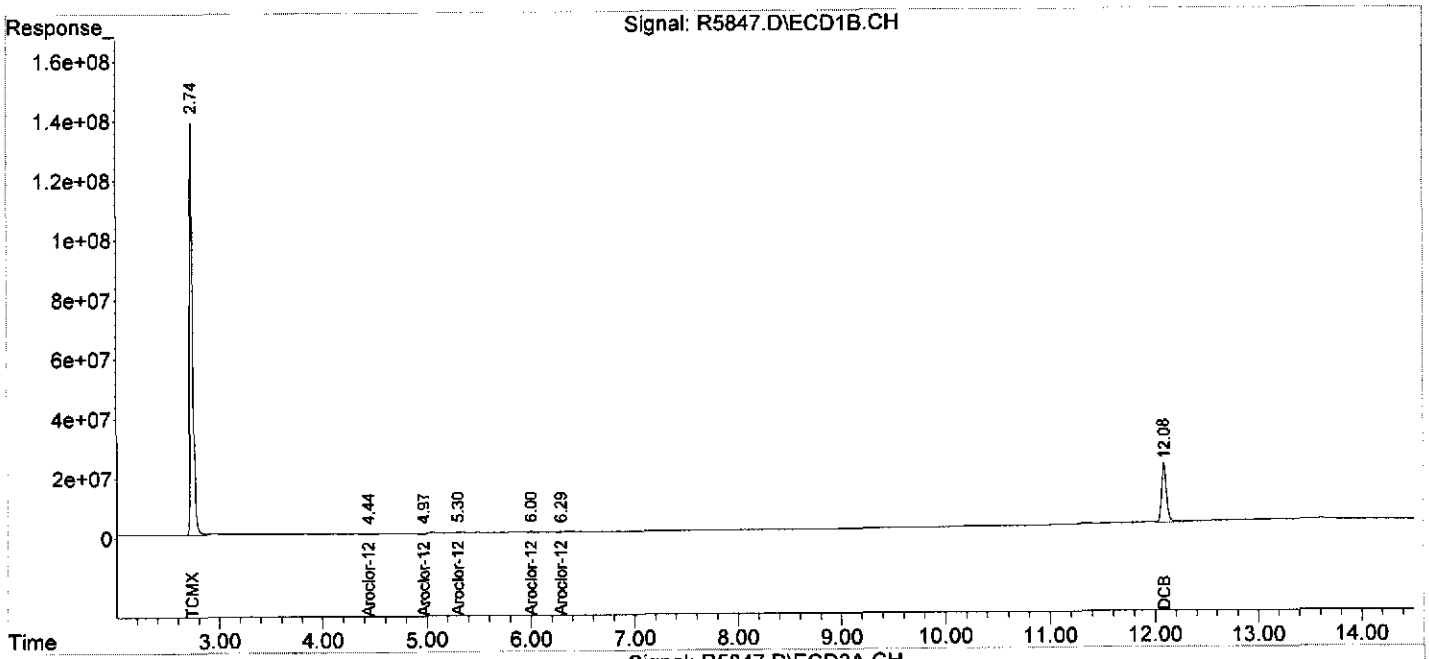
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

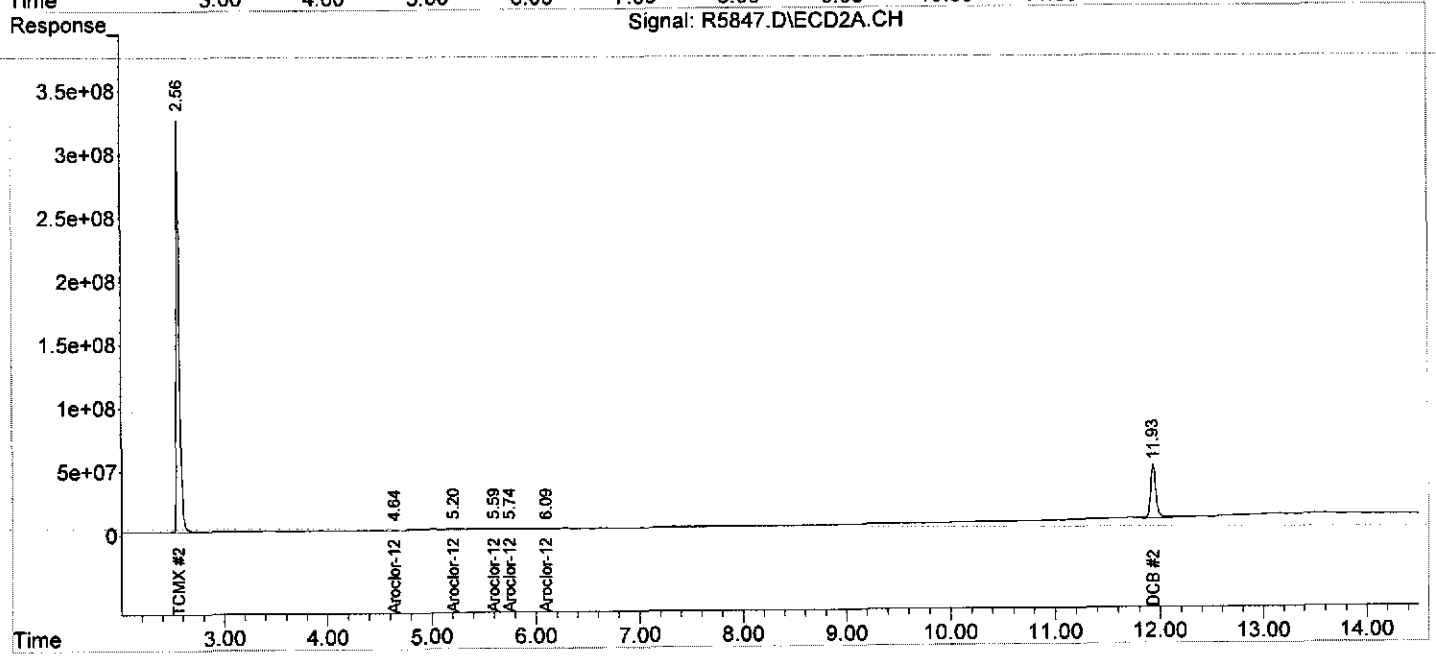
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5847.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 12:37
Operator : JS
Sample : KK-43_(0,E13-12226-001,S,5.51g,42.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 16:05:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5848.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 12:54
Operator : JS
Sample : KK-43_(1,E13-12226-002,S,5.29g,62.2,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:01:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2772.1E6	6597.3E6	240.372	276.041
Spiked Amount 200.000			Recovery =		120.19%	138.02%
2) S DCB	12.08	11.93	730.8E6	1501.8E6	223.051	237.498
Spiked Amount 200.000			Recovery =		111.53%	118.75%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	120.5E6	259.9E6	204.409	212.345
24) L6 Aroclor-1248 {2}	4.97	5.20	169.3E6	1049.0E6	494.873	561.987
25) L6 Aroclor-1248 {3}	5.30	5.59	255.5E6	798.8E6	574.358	604.107
26) L6 Aroclor-1248 {4}	6.00	5.74	378.8E6	447.7E6	519.586	376.602 #
27) L6 Aroclor-1248 {5}	6.27	6.09	243.7E6	213.6E6	494.335	337.019 #
Sum Aroclor-1248			1167.8E6	2769.1E6	2287.562	2092.059
Average Aroclor-1248					457.512	418.412
28) L7 Aroclor-1254	6.39	6.57	140.1E6	204.1E6	208.349	144.095 #
29) L7 Aroclor-1254 {2}	6.84	7.15	169.2E6	435.8E6	411.480	390.936
30) L7 Aroclor-1254 {3}	7.00	7.58	217.1E6	205.0E6	275.516	245.256
31) L7 Aroclor-1254 {4}	7.45	7.76	163.0E6	366.2E6	205.716	360.343m#
32) L7 Aroclor-1254 {5}	8.24	8.57	206.4E6	416.6E6	289.719m	280.702
Sum Aroclor-1254			895.9E6	1627.7E6	1390.780	1421.332
Average Aroclor-1254					278.156	284.266
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5848.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 12:54
Operator : JS
Sample : KK-43_(1,E13-12226-002,S,5.29g,62.2,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:01:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2

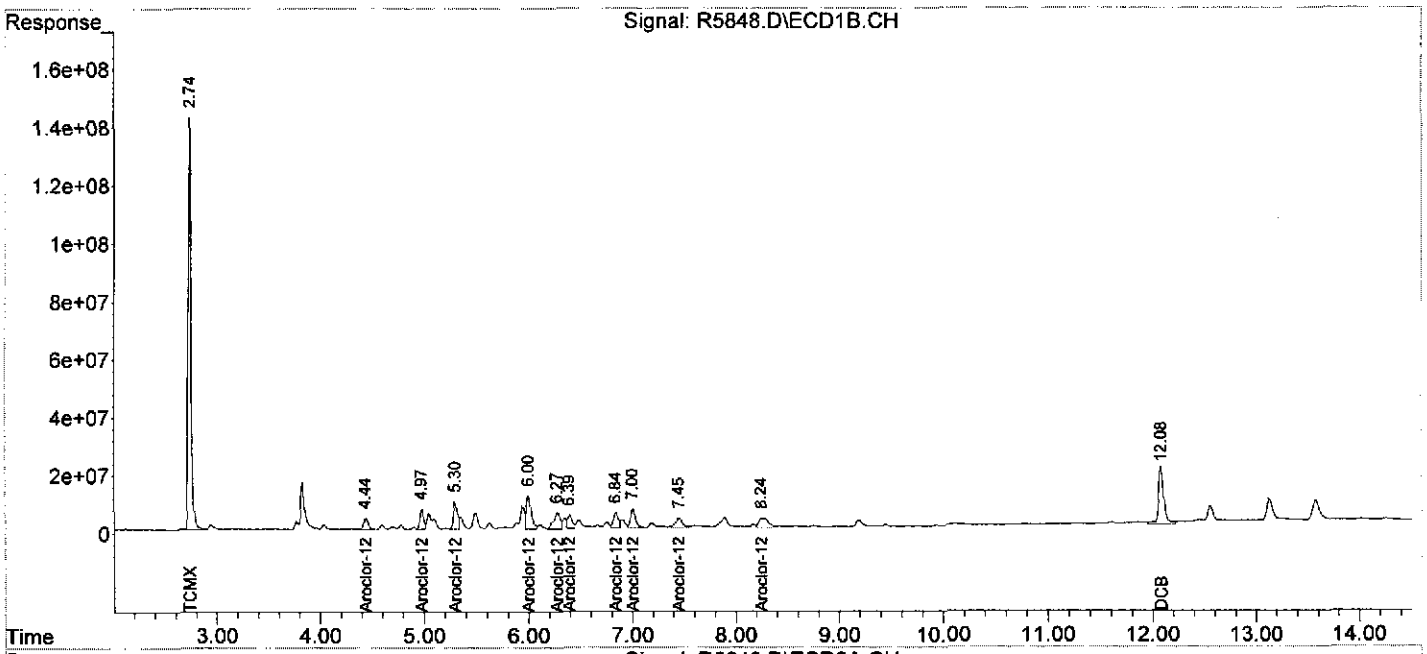
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

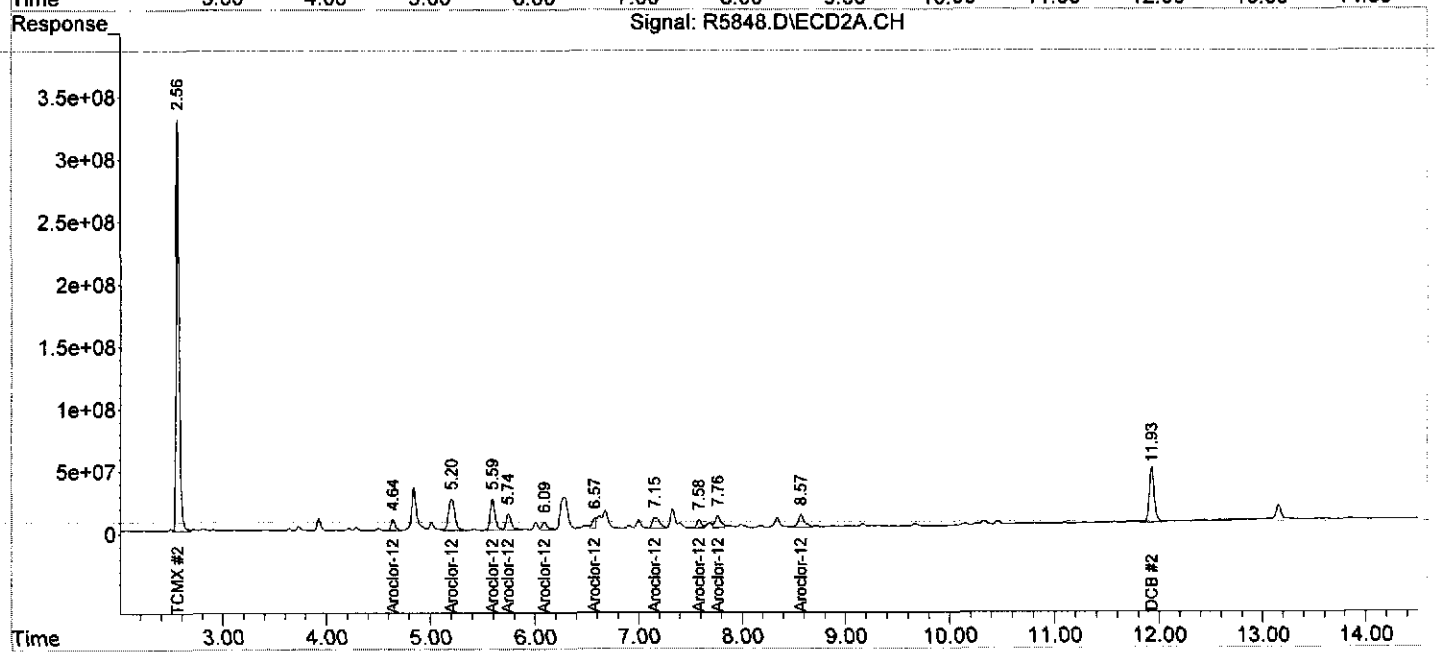
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5848.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 12:54
Operator : JS
Sample : KK-43_(1,E13-12226-002,S,5.29g,62.2,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:01:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5850.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 13:29
Operator : JS
Sample : KK-42_(0,E13-12226-004,S,5.04g,72.5,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 14:51:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3255.0E6	7716.6E6	282.250	322.874
Spiked Amount 200.000			Recovery	=	141.13%	161.44%
2) S DCB	12.08	11.93	773.9E6	1727.2E6	236.213	273.148m
Spiked Amount 200.000			Recovery	=	118.11%	136.57%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	114.1E6	261.1E6	193.590	213.275
24) L6 Aroclor-1248 {2}	4.97	5.20	347.1E6	2105.1E6	1014.804	1127.718
25) L6 Aroclor-1248 {3}	5.29	5.59	450.8E6	1607.9E6	1013.298	1215.946
26) L6 Aroclor-1248 {4}	6.00	5.74	801.7E6	683.4E6	1099.746	574.882 #
27) L6 Aroclor-1248 {5}	6.27	6.09	220.4E6	227.2E6	447.021m	358.481
Sum Aroclor-1248			1934.1E6	4884.6E6	3768.458	3490.301
Average Aroclor-1248					753.692	698.060
28) L7 Aroclor-1254	6.39	6.57	344.4E6	581.7E6	512.313	410.604
29) L7 Aroclor-1254 {2}	6.83	7.15	435.9E6	1179.8E6	1060.034	1058.415
30) L7 Aroclor-1254 {3}	7.00	7.58	571.7E6	629.1E6	725.528	752.737
31) L7 Aroclor-1254 {4}	7.44	7.76	459.1E6	801.8E6	579.274	788.987 #
32) L7 Aroclor-1254 {5}	8.24	8.56	885.0E6	1735.7E6	1242.021	1169.507
Sum Aroclor-1254			2696.2E6	4928.1E6	4119.170	4180.250
Average Aroclor-1254					823.834	836.050
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5850.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 13:29
Operator : JS
Sample : KK-42_(0,E13-12226-004,S,5.04g,72.5,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 14:51:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2

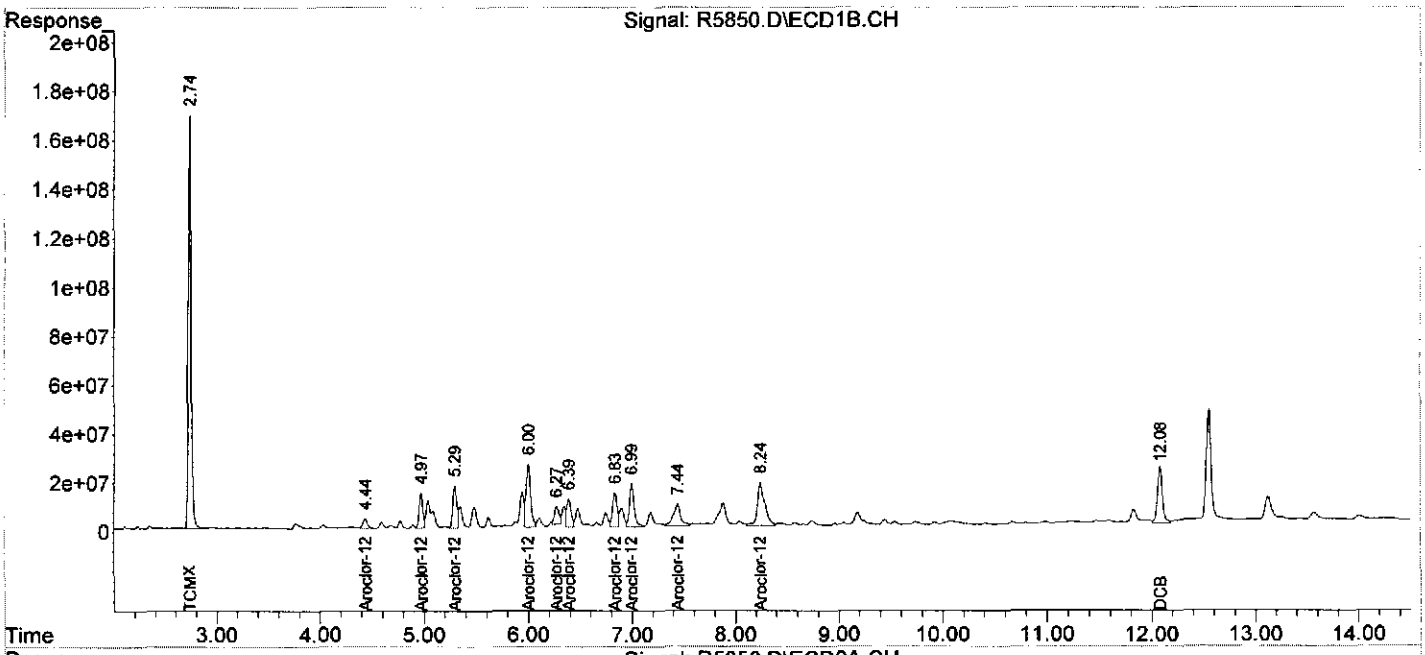
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

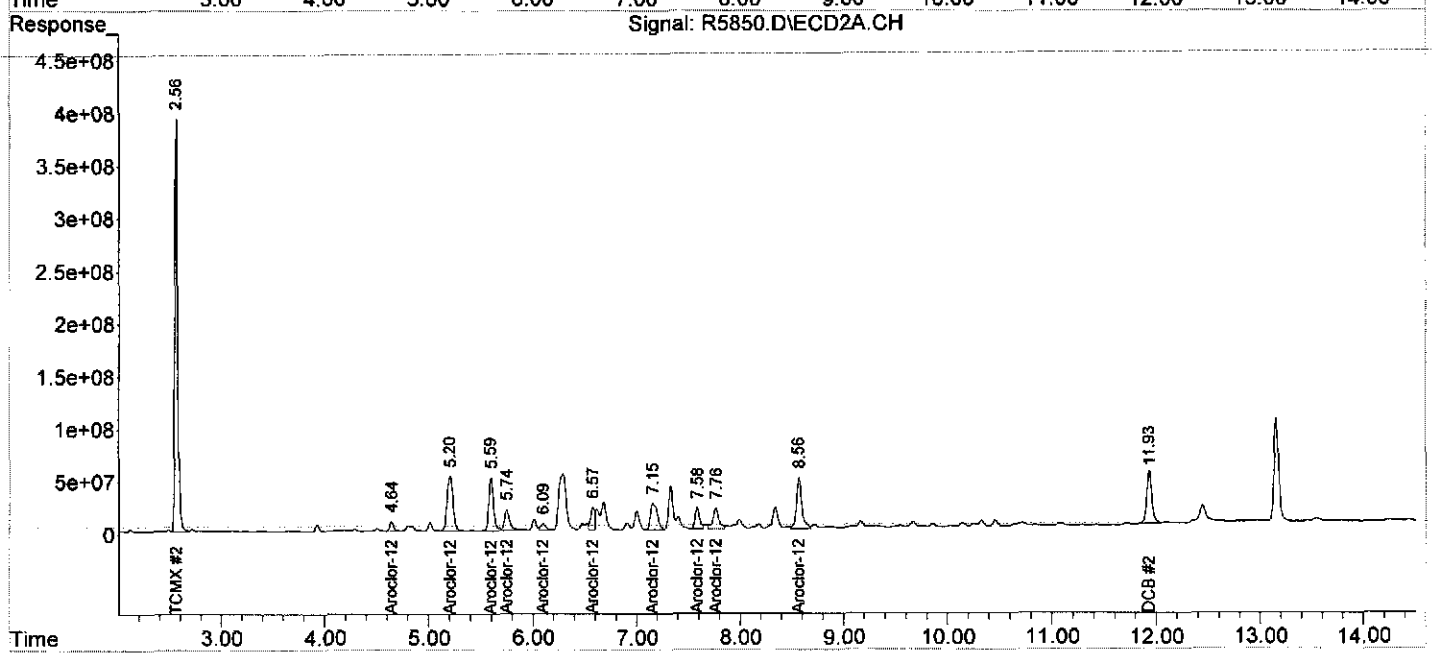
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5850.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 13:29
Operator : JS
Sample : KK-42_(0,E13-12226-004,S,5.04g,72.5,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 14:51:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5851.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 13:46
Operator : JS
Sample : KK-42_(1,E13-12226-005,S,5.26g,82.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3270.7E6	7858.5E6	283.614	328.811
Spiked Amount 200.000			Recovery	=	141.81%	164.41%
2) S DCB	12.08	11.93	782.2E6	1800.0E6	238.739	284.656
Spiked Amount 200.000			Recovery	=	119.37%	142.33%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	110.7E6	234.5E6	187.694	191.560
24) L6 Aroclor-1248 {2}	4.97	5.20	160.3E6	970.2E6	468.638	519.741
~~25) L6 Aroclor-1248 {3}~~	~~5.29~~	~~5.59~~	~~230.1E6~~	~~746.0E6~~	~~517.351~~	~~564.149~~
26) L6 Aroclor-1248 {4}	6.00	5.74	326.5E6	430.0E6	447.863	361.748
27) L6 Aroclor-1248 {5}	6.27	6.09	191.5E6	208.0E6	388.395	328.144
Sum Aroclor-1248			1019.1E6	2588.6E6	2009.942	1965.342
Average Aroclor-1248					401.988	393.068
28) L7 Aroclor-1254	6.39	6.57	126.4E6	200.2E6	187.962	141.290
29) L7 Aroclor-1254 {2}	6.84	7.15	197.5E6	417.6E6	480.295	374.634
30) L7 Aroclor-1254 {3}	7.00	7.58	201.6E6	194.0E6	255.783	232.110
31) L7 Aroclor-1254 {4}	7.44	7.76	134.1E6	393.8E6	169.270	387.536 #
32) L7 Aroclor-1254 {5}	8.24	8.57	226.6E6	425.5E6	317.950	286.700
Sum Aroclor-1254			886.1E6	1631.1E6	1411.261	1422.271
Average Aroclor-1254					282.252	284.454
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5851.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 13:46
Operator : JS
Sample : KK-42_(1,E13-12226-005,S,5.26g,82.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2

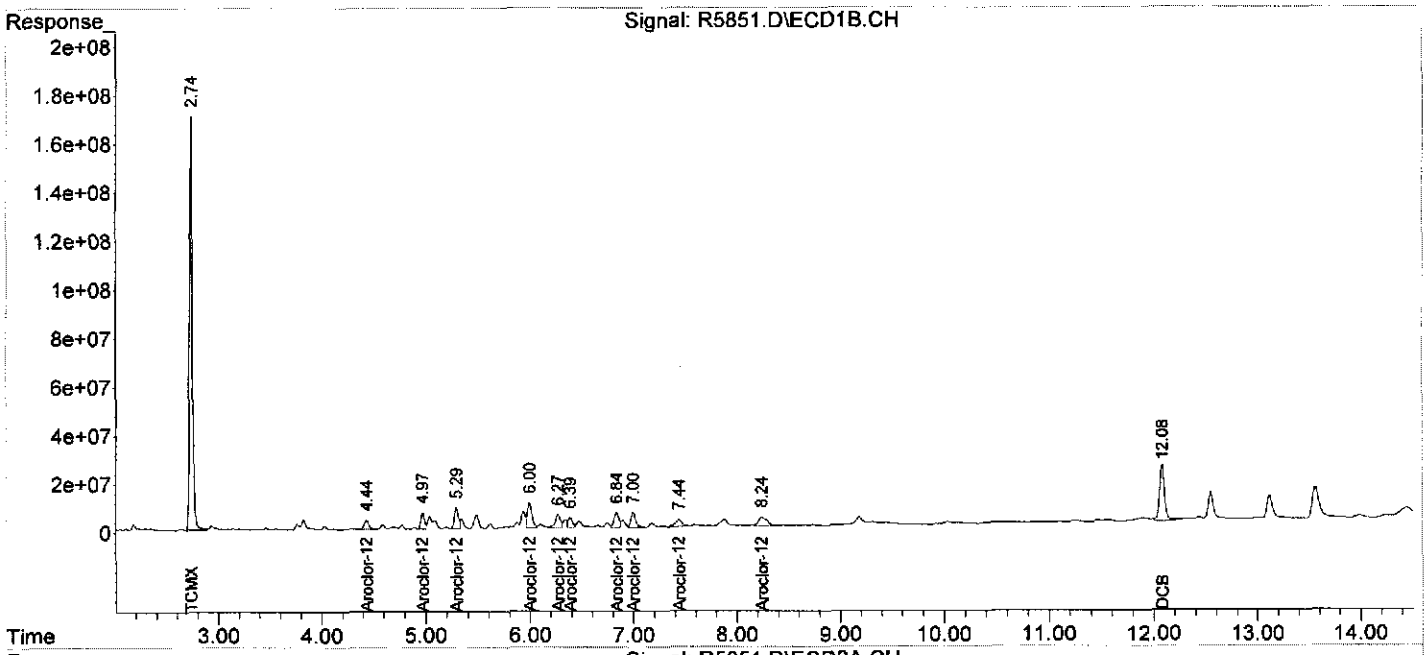
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

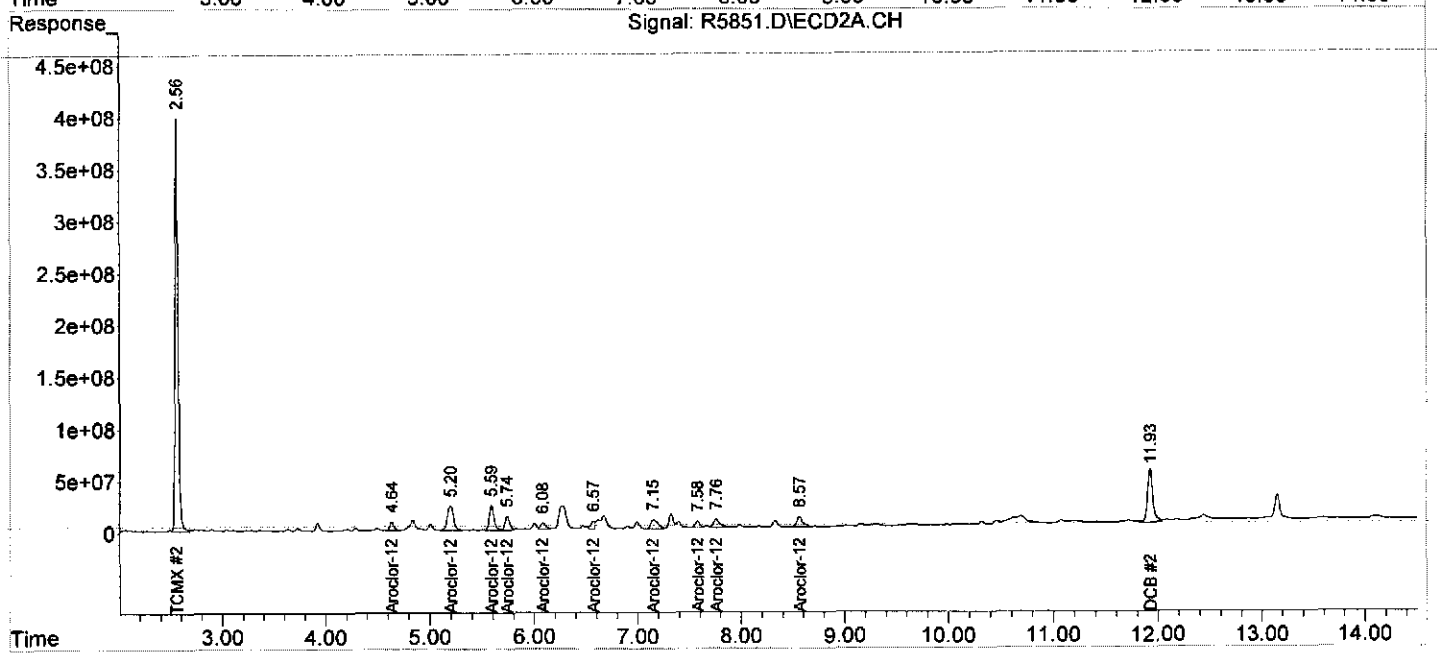
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5851.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 13:46
Operator : JS
Sample : KK-42_(1,E13-12226-005,S,5.26g,82.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:06:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5853.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 14:21
Operator : JS
Sample : LL-42_(0,E13-12226-007,S,5.26g,82.4,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 14:53:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3408.0E6	8191.7E6	295.517	342.752
Spiked Amount 200.000			Recovery	=	147.76%	171.38%
2) S DCB	12.08	11.93	882.7E6	1877.1E6	269.420	296.853
Spiked Amount 200.000			Recovery	=	134.71%	148.43%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	14256439	50416400	24.181	41.190 #
24) L6 Aroclor-1248 {2}	4.97	5.19	42850961	241.9E6	125.292	129.607
25) L6 Aroclor-1248 {3}	5.30	5.59	42030440	152.2E6	94.481	115.067
26) L6 Aroclor-1248 {4}	6.00	5.74	87538402	52277096	120.085	43.976 #
27) L6 Aroclor-1248 {5}	6.28	6.09	34560512	44360673	70.098	69.994
Sum Aroclor-1248			221.2E6	541.1E6	434.137	399.834
Average Aroclor-1248					86.827	79.967
28) L7 Aroclor-1254	6.39	6.57	49689363	77126308	73.911	54.438 #
29) L7 Aroclor-1254 {2}	6.84	7.16	57066286	155.9E6	138.771	139.906
30) L7 Aroclor-1254 {3}	7.00	7.58	68088461	90768794	86.404	108.608 #
31) L7 Aroclor-1254 {4}	7.45	7.76	67673046	133.8E6	85.392	131.650 #
32) L7 Aroclor-1254 {5}	8.29	8.57	59660466	114.3E6	83.727m	77.014
Sum Aroclor-1254			302.2E6	571.9E6	468.205	511.616
Average Aroclor-1254					93.641	102.323
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5853.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 14:21
Operator : JS
Sample : LL-42_(0,E13-12226-007,S,5.26g,82.4,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 14:53:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2

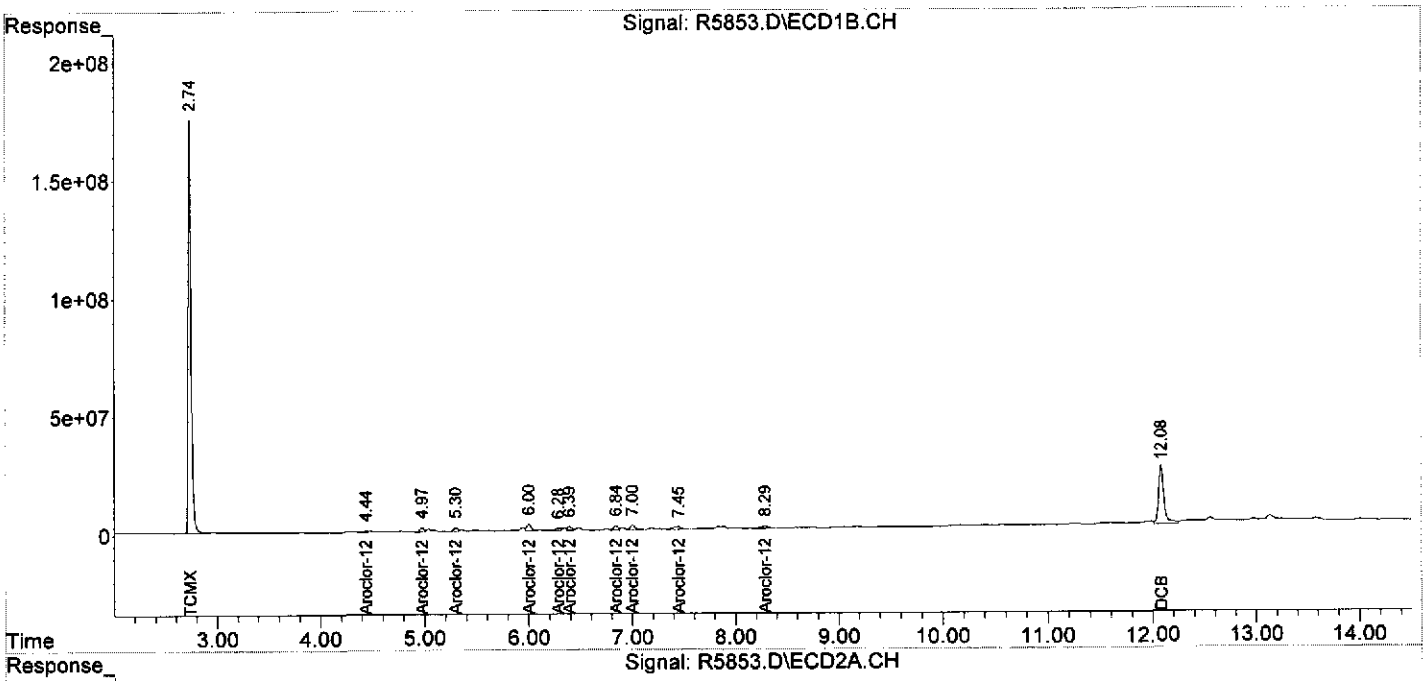
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

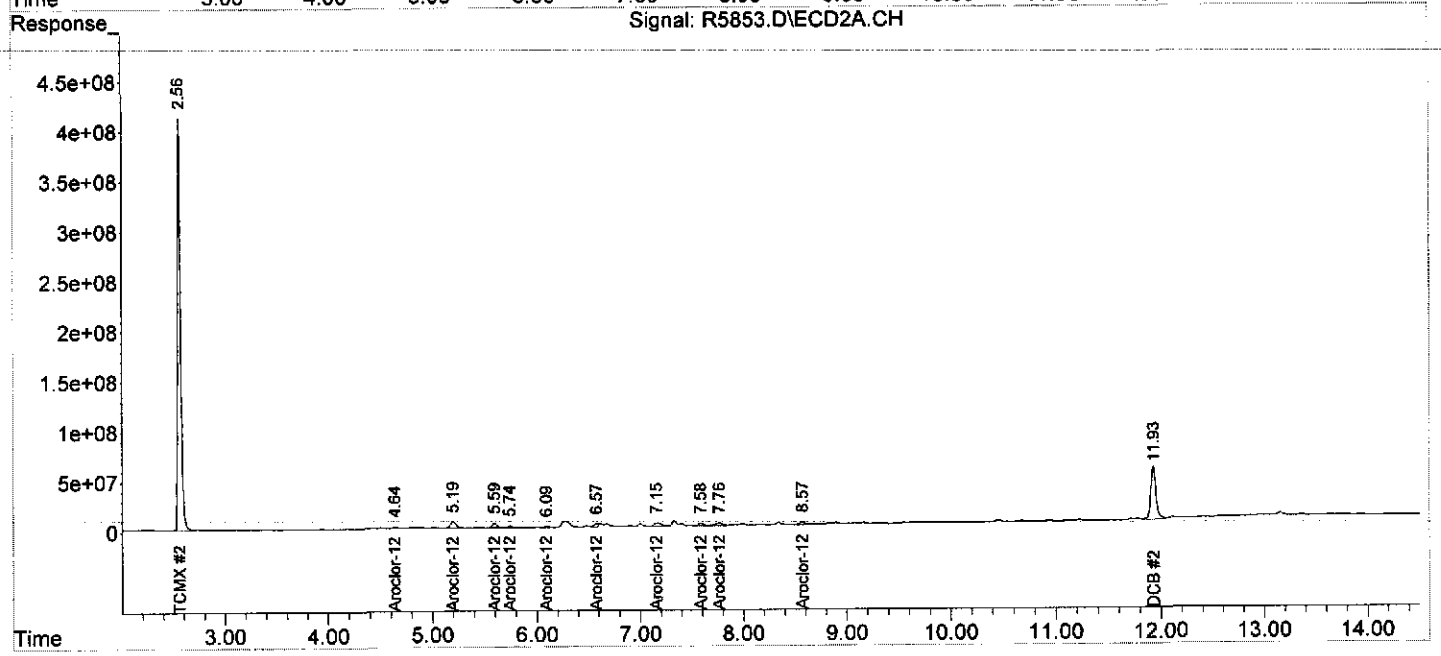
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5853.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 14:21
Operator : JS
Sample : LL-42_(0,E13-12226-007,S,5.26g,82.4,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 14:53:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5854.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 14:38
Operator : JS
Sample : LL-42_(1,E13-12226-008,S,5.12g,81.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:12:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3167.3E6	7760.1E6	274.647	324.694
Spiked Amount 200.000			Recovery	=	137.32%	162.35%
2) S DCB	12.08	11.93	804.5E6	1735.8E6	245.545	274.509
Spiked Amount 200.000			Recovery	=	122.77%	137.25%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	51831735	121.5E6	87.916	99.243
24) L6 Aroclor-1248 {2}	4.97	5.20	69098953	430.6E6	202.038	230.707
25) L6 Aroclor-1248 {3}	5.30	5.59	184.9E6	326.5E6	415.671	246.878 #
26) L6 Aroclor-1248 {4}	6.00	5.74	135.1E6	188.3E6	185.285	158.377
27) L6 Aroclor-1248 {5}	6.27	6.09	74394361	134.8E6	150.891	212.711 #
Sum Aroclor-1248			515.3E6	1201.7E6	1041.801	947.917
Average Aroclor-1248					208.360	189.583
28) L7 Aroclor-1254	6.39	6.61	68565690	317.8E6	101.989	224.311 #
29) L7 Aroclor-1254 {2}	6.84	7.15	91186369	179.0E6	221.743	160.598 #
30) L7 Aroclor-1254 {3}	7.00	7.58	119.0E6	113.4E6	151.007	135.722
31) L7 Aroclor-1254 {4}	7.44	7.76	83885556	347.2E6	105.850	341.608 #
32) L7 Aroclor-1254 {5}	8.29	8.57	124.6E6	162.3E6	174.918m	109.331 #
Sum Aroclor-1254			487.3E6	1119.7E6	755.508	971.570
Average Aroclor-1254					151.102	194.314
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5854.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 14:38
Operator : JS
Sample : LL-42_(1,E13-12226-008,S,5.12g,81.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:12:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2

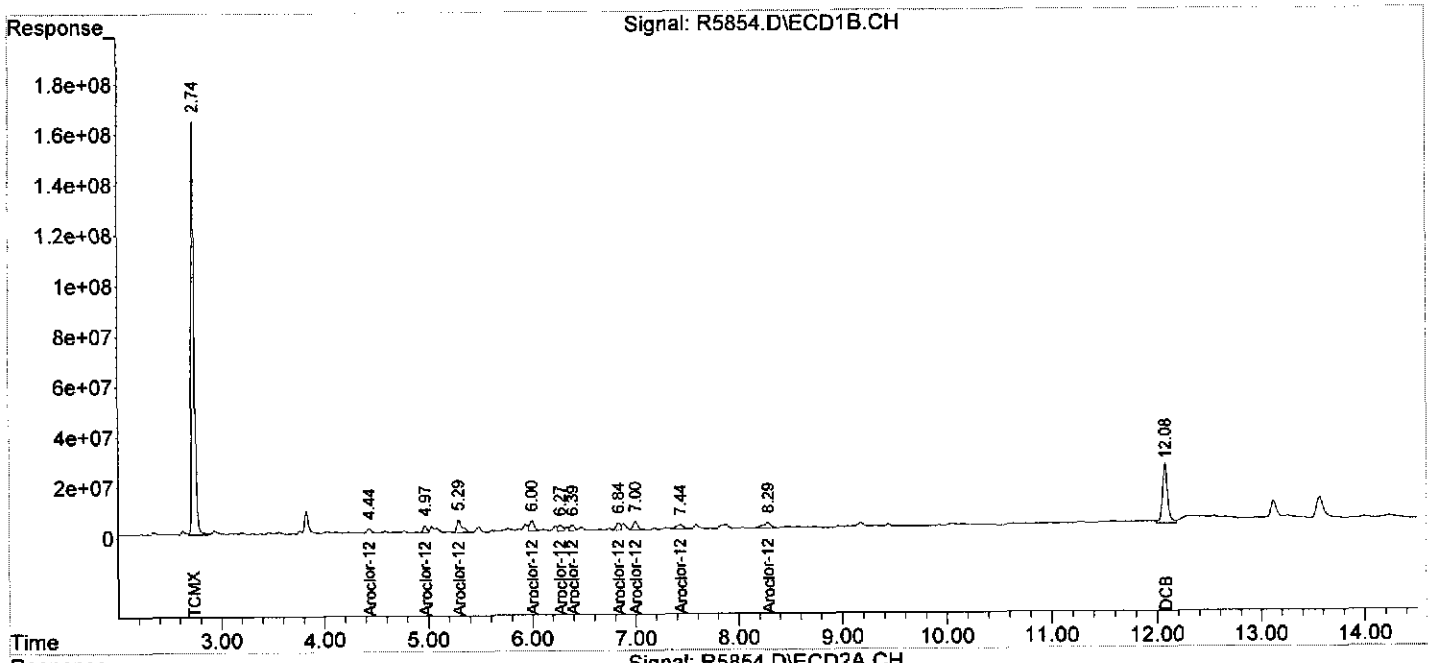
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

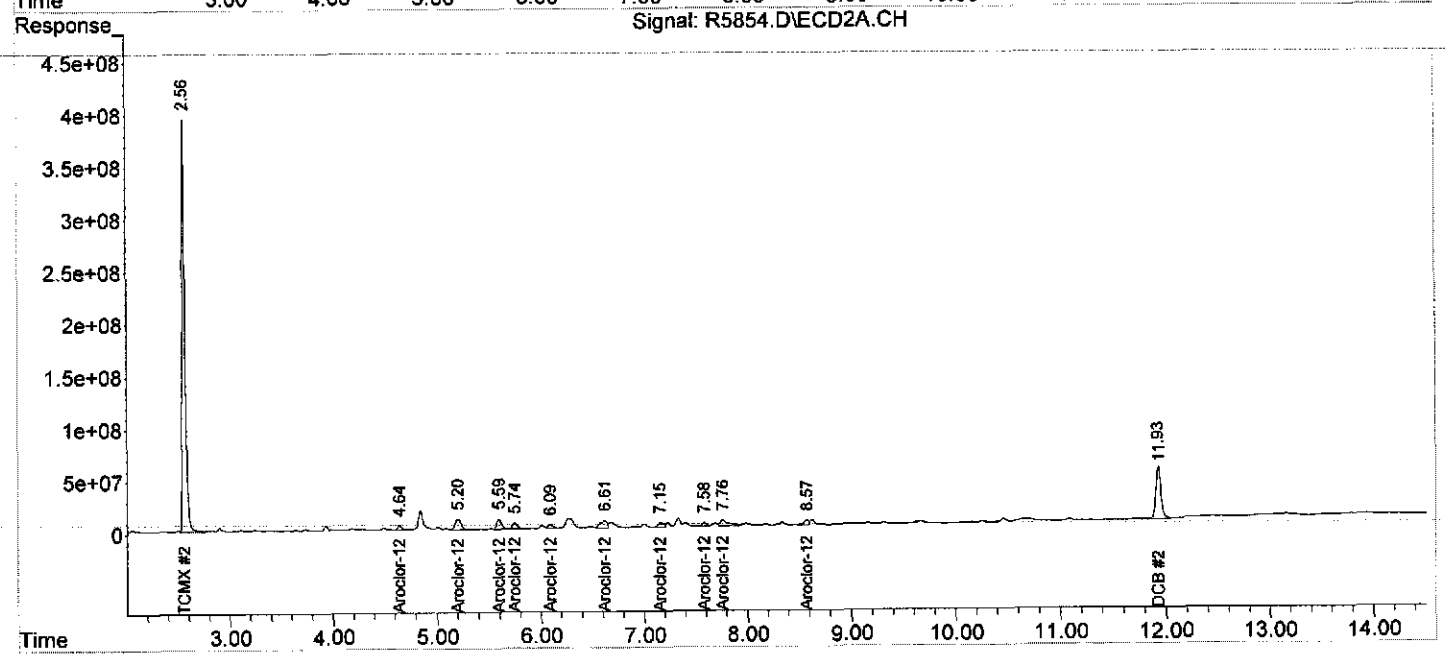
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5854.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 14:38
Operator : JS
Sample : LL-42_(1,E13-12226-008,S,5.12g,81.9,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 15:12:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5856.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 15:13
Operator : JS
Sample : MM-42_(0,E13-12226-010,S,5.31g,84.8,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 16:24:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	3200.4E6	7897.7E6	277.519	330.451
Spiked Amount 200.000			Recovery	=	138.76%	165.23%
2) S DCB	12.08	11.93	873.7E6	1844.7E6	266.681	291.730m
Spiked Amount 200.000			Recovery	=	133.34%	145.87%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.64	89361671	208.9E6	151.573	170.639
24) L6 Aroclor-1248 {2}	4.97	5.20	70182119	436.3E6	205.205	233.715
25) L6 Aroclor-1248 {3}	5.30	5.59	116.6E6	354.7E6	262.177	268.216
26) L6 Aroclor-1248 {4}	6.00	5.74	145.4E6	252.0E6	199.434	212.010
27) L6 Aroclor-1248 {5}	6.27	6.09	108.7E6	149.2E6	220.440	235.346
Sum Aroclor-1248			530.2E6	1401.0E6	1038.829	1119.926
Average Aroclor-1248					207.766	223.985
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

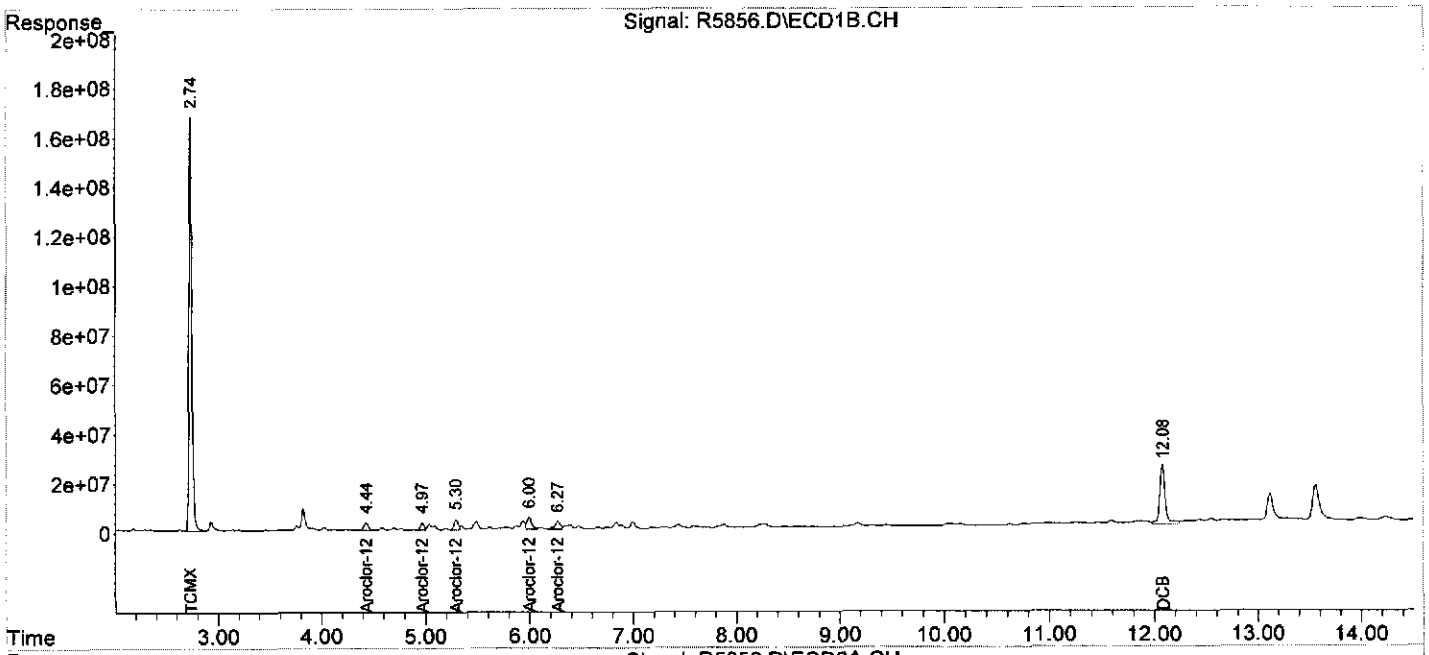
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

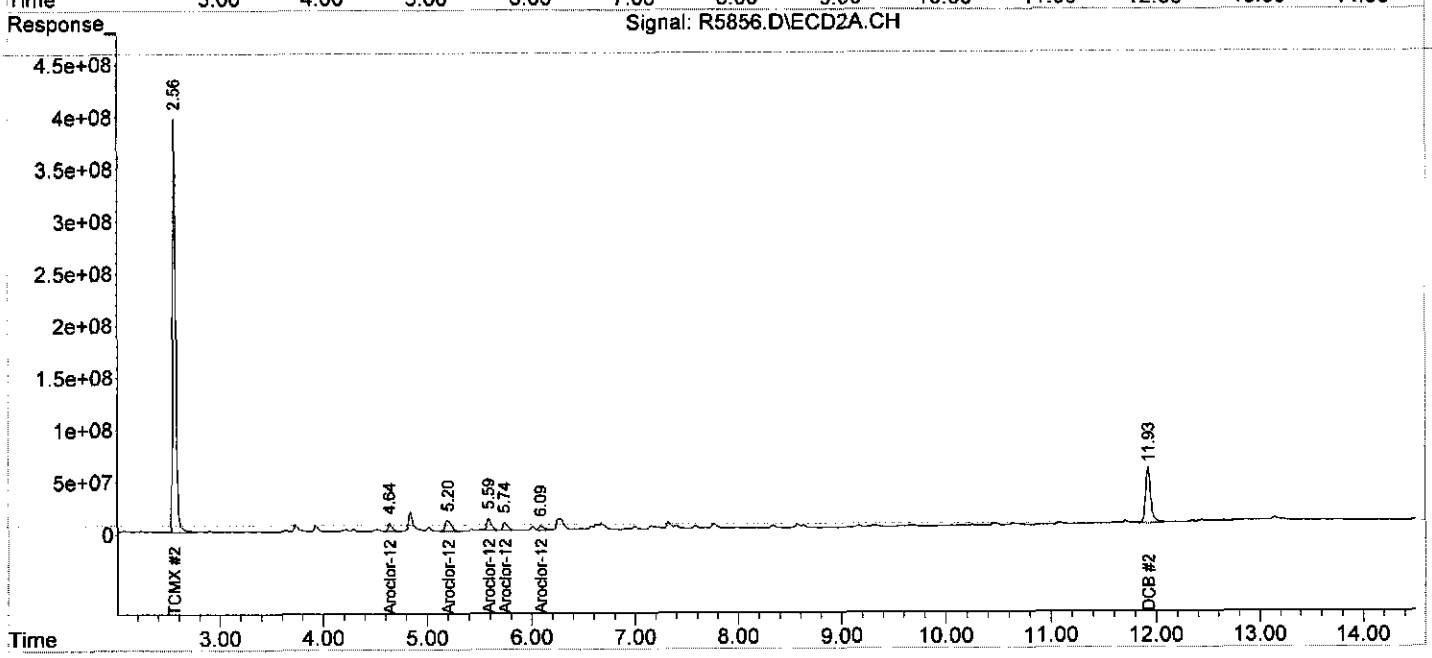
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5856.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 15:13
Operator : JS
Sample : MM-42_(0,E13-12226-010,S,5.31g,84.8,20
Misc : 131210-08,12/10/13,12/09/13,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 16:24:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-16-13\
Data File : Y3530.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 16 Dec 2013 12:20
Operator : JS
Sample : FB-42,E13-12226-013,A,1000ml,100,5
Misc : 131213-08,12/13/13,12/09/13,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 16 15:18:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Fri Dec 13 09:53:34 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	3955.1E6	8576.0E6	234.130	248.878
Spiked Amount 200.000			Recovery	=	117.07%	124.44%
2) S DCB	12.05	12.45	1027.4E6	2790.9E6	150.492	163.067
Spiked Amount 200.000			Recovery	=	75.25%	81.53%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

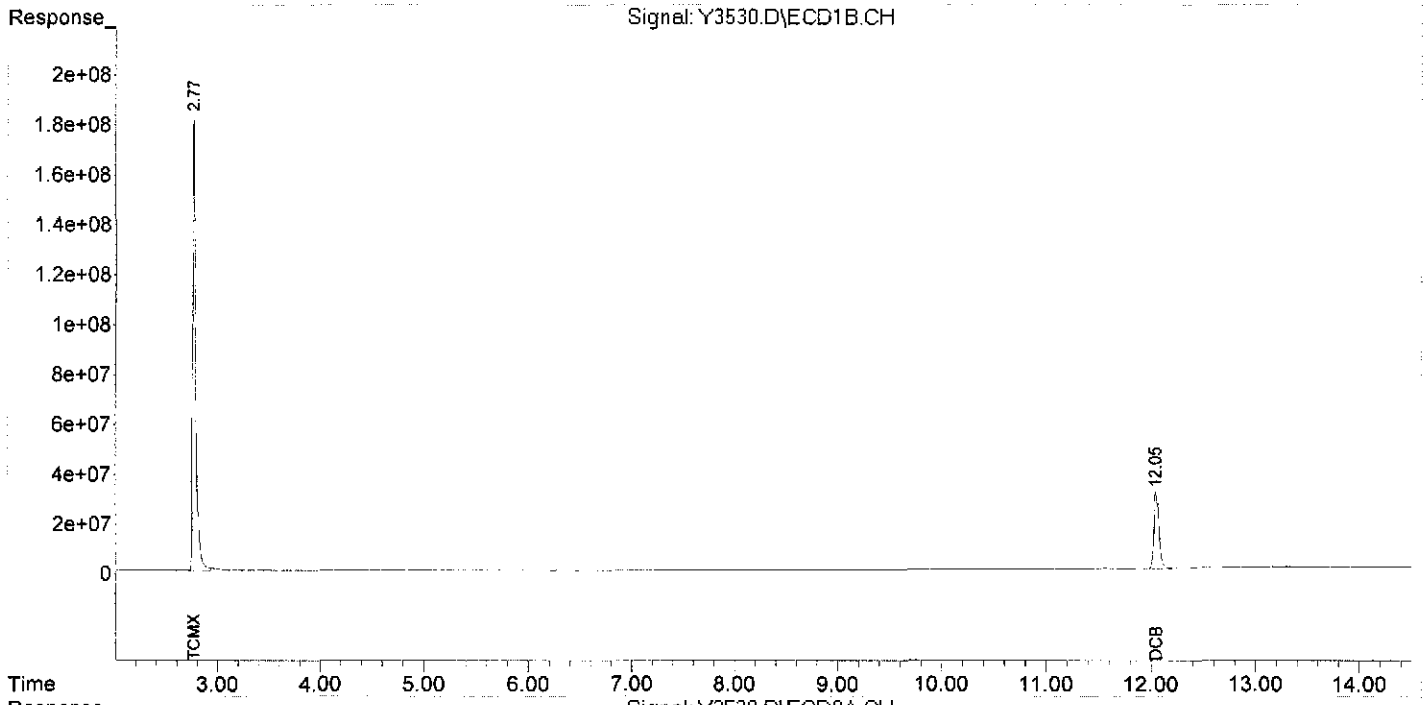
E13-12226 0067

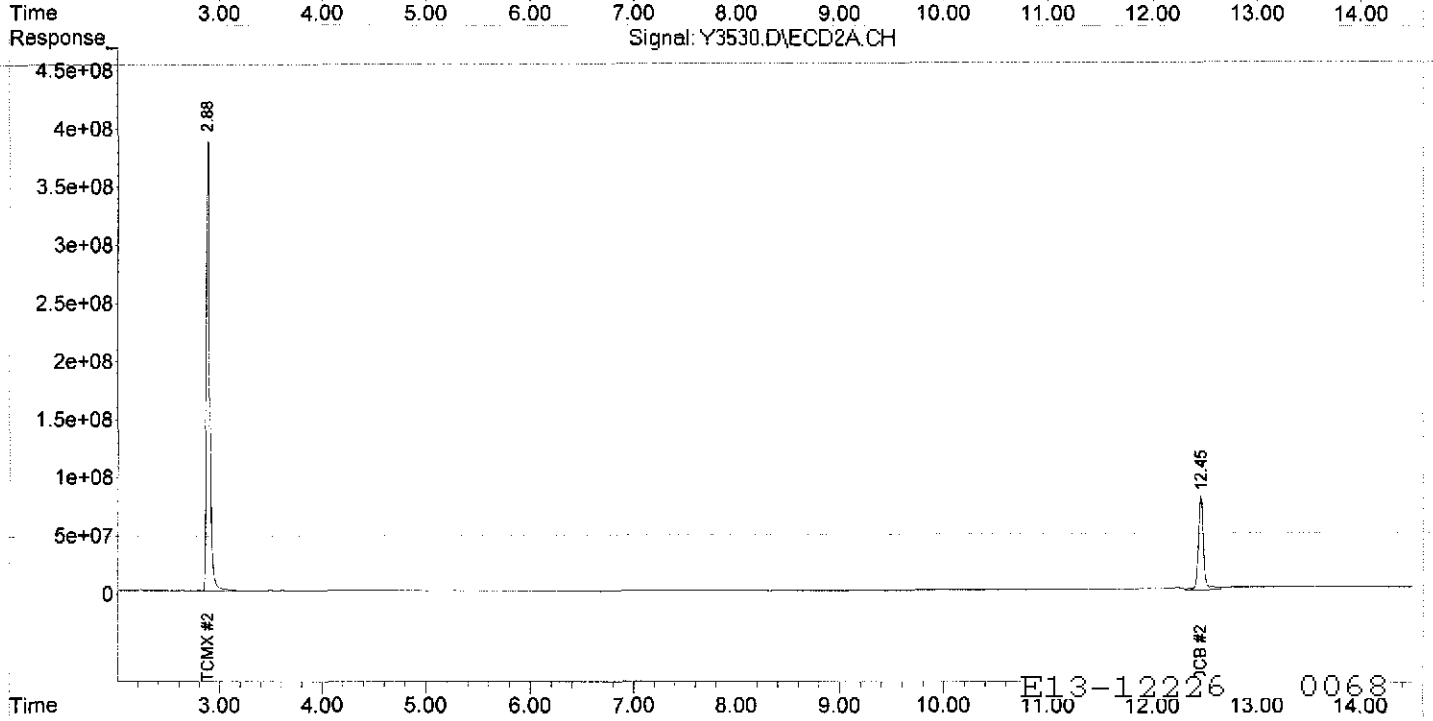
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-16-13\
Data File : Y3530.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 16 Dec 2013 12:20
Operator : JS
Sample : FB-42,E13-12226-013,A,1000ml,100.5
Misc : 131213-08,12/13/13,12/09/13,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 16 15:18:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Fri Dec 13 09:53:34 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKS131210-08
Client ID: PCB
Date Received: NA
Date Extracted: 12/10/2013
Date Analyzed: 12/11/2013
Data file: R5840.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed
J --- Value Less than RL & great than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0069

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5840.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 10:35
Operator : JS
Sample : PCB,BLKS131210-08,S,5g,0,20
Misc : NA,12/10/13,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 15:36:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2395.6E6	6008.4E6	207.732	251.397
Spiked Amount 200.000			Recovery	=	103.87%	125.70%
2) S DCB	12.09	11.94	585.6E6	1283.2E6	178.731m	202.930m
Spiked Amount 200.000			Recovery	=	89.37%	101.47%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

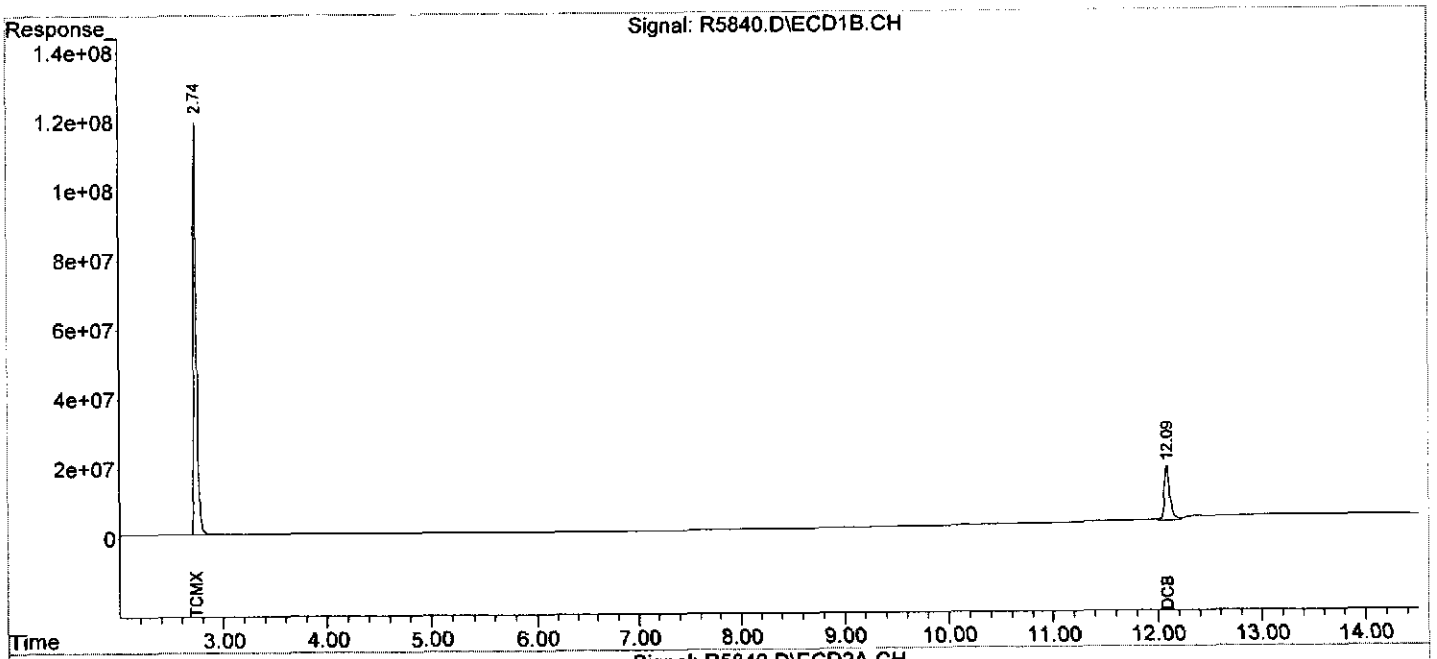
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

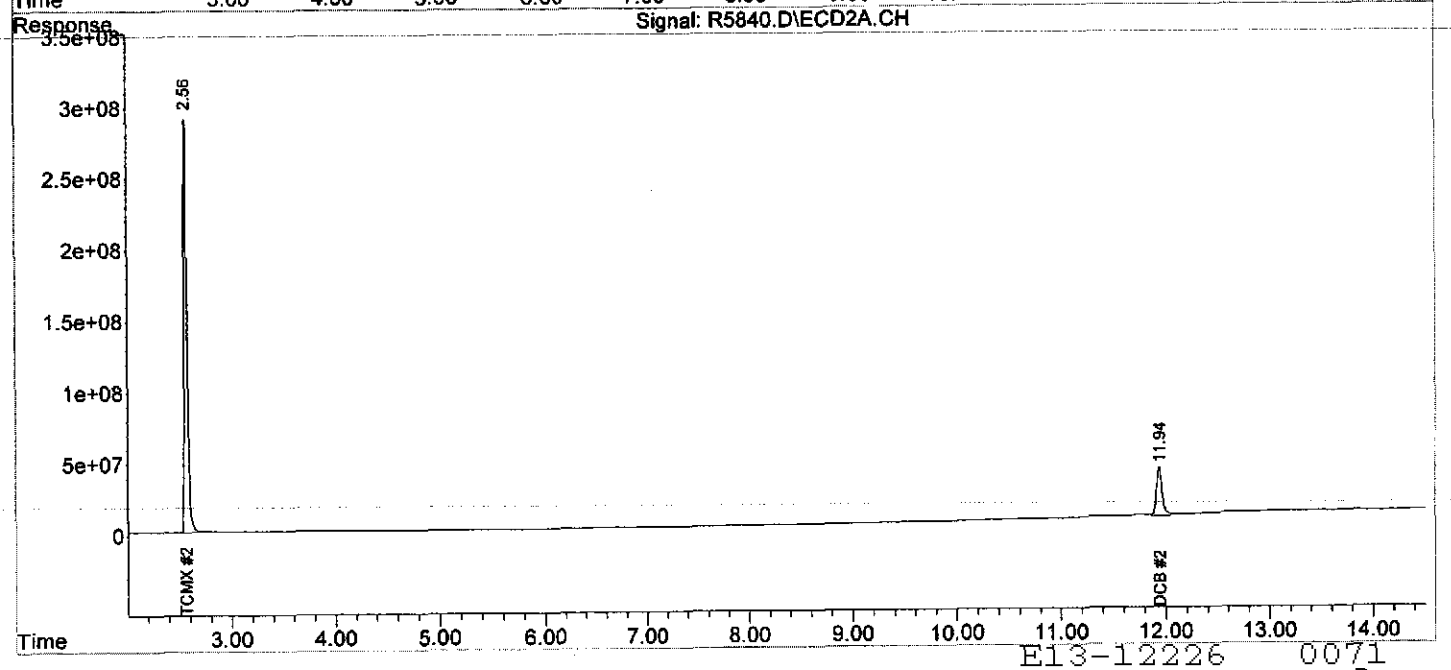
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : R5840.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 10:35
Operator : JS
Sample : PCB,BLKS131210-08,S,5g,0,20
Misc : NA,12/10/13,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 15:36:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





E13-12226 0071

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKA131213-08
Client ID: PCB
Date Received: NA
Date Extracted: 12/13/2013
Date Analyzed: 12/16/2013
Data file: Y3525.D

GC Column: DB-5/DB1701P
Sample wt/vol: 1000ml
Matrix-Units: Aqueous-µg/L (ppb)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

E13-12226 0072

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-16-13\
Data File : Y3525.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 16 Dec 2013 10:54
Operator : JS
Sample : PCB,BLKA131213-08,A,1000ml,100,5
Misc : NA,12/13/13,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 16 15:16:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Fri Dec 13 09:53:34 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	4170.7E6	9067.2E6	246.897	263.134
Spiked Amount 200.000			Recovery	=	123.45%	131.57%
2) S DCB	12.05	12.45	1054.1E6	2818.4E6	154.405	164.673
Spiked Amount 200.000			Recovery	=	77.20%	82.34%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

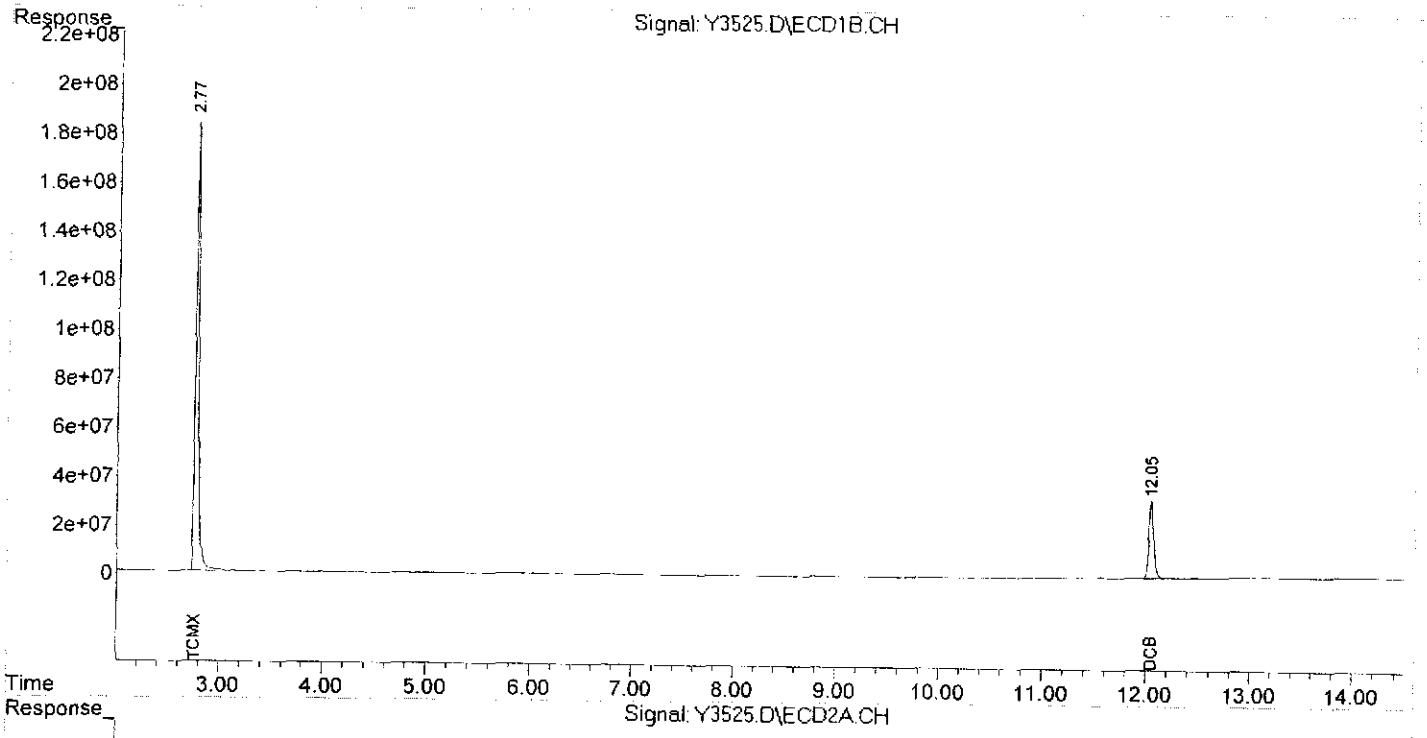
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

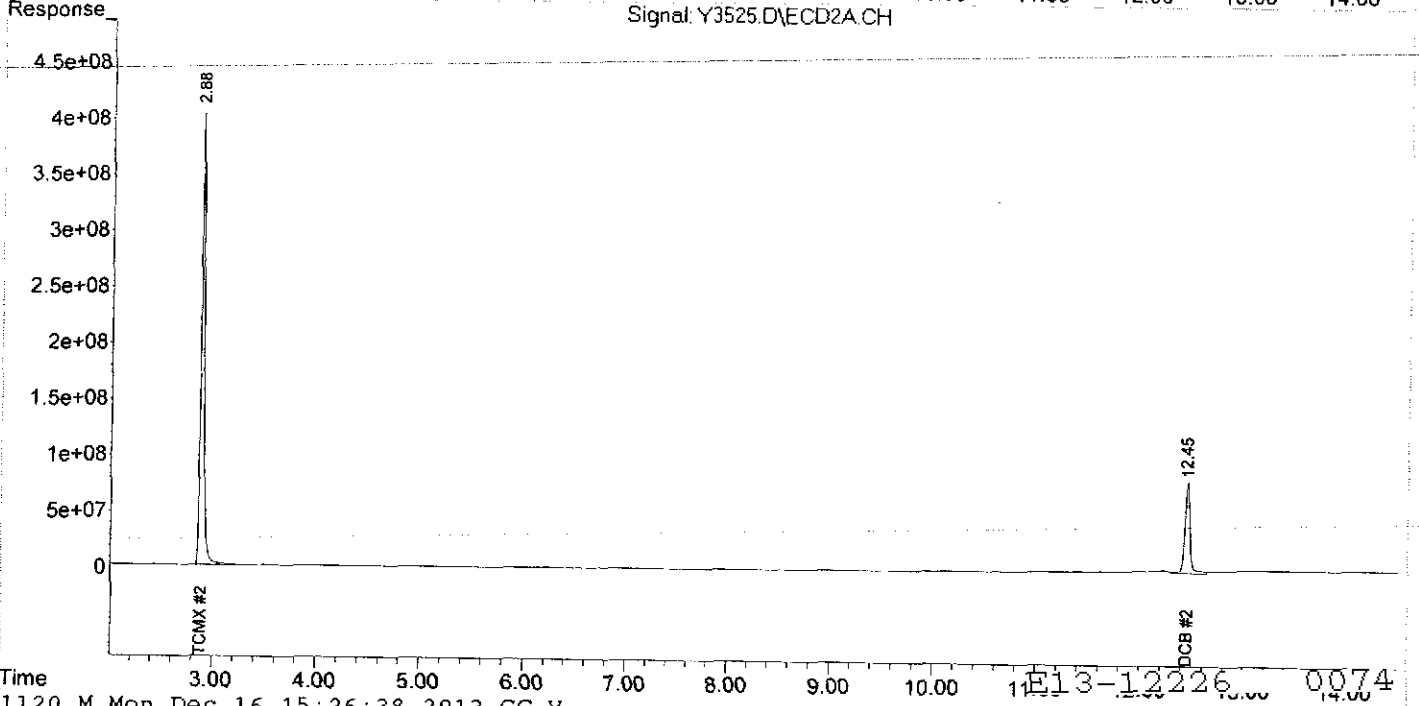
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-16-13\
Data File : Y3525.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 16 Dec 2013 10:54
Operator : JS
Sample : PCB,BLKA131213-08,A,1000ml,100,5
Misc : NA,12/13/13,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 16 15:16:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Fri Dec 13 09:53:34 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





SAMPLE TRACKING

IAL Integrated Analytical Laboratories LLC

Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

Contact Us: 973 361-4252
fax: 973 989-5288
Web: www.ialonline.com

CUSTOMER INFO	REPORTING INFO
Company: JMC Environmental Consultants, Inc.	REPORT TO: James Clabby
Address: 2109 Bridge Ave., Bldg. B	Address: same
Point Pleasant, NJ 08742	
Telephone #: (732) 295-2144	Attn:
Fax #: (732) 295-2150	FAX # (732) 295-2150
Project Manager: James Clabby	INVOICE TO: Aceto Corp.
EMAIL Address: jclabby@jmcenvironmental.com	Address: 4 Tri Harbor Court
Sampler: Steve Kosch, Chris Cho	Port Washington, NY 11050
Project Name: Arsynco	(with copy to: JMC Environmental (attn.: J. Clabby))
Project Location (State): NJ	Attn: Ed Kelly
Bottle Order #:	PO # 22126
Quote # : SR#41205	

Turnaround Time (starts the following day if samples rec'd at lab > 5PM)

*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE

PHC - MUST CHOOSE

NJ EPH DRO (5 day TAT) — NJ EPH Fractionated (5 day TAT)
NJ EPH - C40 (5 day TAT)
DRO-8015 (3-5 day TAT) — QAM025 (5 day TAT)

Verbal/Fax: Std 2 wk unless otherwise specified
24 hr** 48 hr** 72 hr** 96 hr** 1 wk**
Other** (specify):

Hard Copy: Std 3 week * — Other - call for price

Rush TAT Charge **: 24 hr - 100%.... 48 hr - 75%.... 72 hr - 50%.... 96 hr - 35%.... 5 day - 25%.... 6-9 day 10%

Report Format: Results Only — Reduced — Regulatory - 15% Surcharge applies — Other (describe)

EDDs: SRP format — lab approved custom EDD — NO EDD/CD REQ'D

Cooler Temp 4 °C

SAMPLE INFORMATION

Sample Matrix: DW - Drinking Water AQ - Aqueous WW - Waste Water OI - Oil LIQ - Liquid (Specify) OT - Other (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe

ANALYTICAL PARAMETERS

BOTTLES & PRESERVATIVES

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCL PCB (8082)	TCL PCB Extract Hold	HCL	HNO3	MeOH	H2SO4	NAOH/ZnAc	Sterile
KK-43 (0-1.0)		12/9/13	11:13	S	1	1	X							
KK-43 (1.0-2.0)			11:15	S	1	2	X							
KK-43 (2.0-3.0)			11:17	S	1	3		X						
KK-42 (0-1.0)			11:36	S	1	4	X							
KK-42 (1.0-2.0)			11:38	S	1	5	X							
KK-42 (2.0-3.0)			11:40	S	1	6		X						
LL-42 (0-1.0)			12:10	S	1	7	X							
LL-42 (1.0-2.0)			12:11	S	1	8	X							

Known Hazard: Yes or No Describe: Conc. Expected: Low Med High

MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one): _____ IAL Courier _____ Client Courier _____ FedEx/UPS

	Signature/Company	Date	Time		Signature/Company	Date	Time
Relinquished:		12/9/13	15:15	Received by:		12/9/13	15:15
Relinquished:	IAL	12/9/13	16:25	Received by:		12/9/13	1625
Relinquished:				Received by:			
Relinquished:				Received by:			
Relinquished:				Received by:			

Comments:

Lab Case # 12226

PAGE: 1 of 2

LAB COPIE... WHITE & YELLOW; CLIENT COPY - PINK

10/2010 rev

IAL
Integrated Analytical Laboratories LLC

Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

Contact Us: 973 361-4252
fax: 973 989-5288
Web: www.ialonline.com

CUSTOMER INFO	REPORTING INFO
Company: JMC Environmental Consultants, Inc.	REPORT TO: James Clabby
Address: 2109 Bridge Ave., Bldg. B	Address: same
Point Pleasant, NJ 08742	
Telephone #: (732) 295-2144	Attn:
Fax #: (732) 295-2150	FAX # (732) 295-2150
Project Manager: James Clabby	INVOICE TO: Aceto Corp.
EMAIL Address: jclabby@jmcenvironmental.com	Address: 4 Tri Harbor Court
Sampler: Steve Kosch, Chris Cho	Port Washington, NY 11050
Project Name: Arsynco	(with copy to: JMC Environmental (attn.: J. Clabby))
Project Location (State): NJ	Attn: Ed Kelly
Bottle Order #:	PO # 22126
Quote # : SR041205	

Turnaround Time (starts the following day if samples rec'd at lab > 5PM)

*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE

PHC - MUST CHOOSE

NJ EPH DRO (5 day TAT) NJ EPH Fractionated (5 day TAT)
NJ EPH - C40 (5 day TAT)
DRO-8015 (3-5 day TAT) QAM025 (5 day TAT)

Verbal/Fax: Std 2 wk unless otherwise specified
24 hr** 48 hr** 72 hr** 96 hr** 1 wk**
Other** (specify):

Hard Copy: Std 3 week * Other - call for price

Rush TAT Charge **: 24 hr - 100%.... 48 hr - 75%.... 72 hr - 50%.... 96 hr - 35%.... 5 day - 25%.... 6-9 day 10%

Report Format: Results Only; Reduced; Regulatory - 15% Surcharge applies; Other (describe)

EDDs: SRP format; lab approved custom EDD; NO EDD/CD REQ'D

Cooler Temp 4 °C

SAMPLE INFORMATION

Sample Matrix: DW - Drinking Water AQ - Aqueous WW - Waste Water OI - Oil LIQ - Liquid (Specify) OT - Other (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe

ANALYTICAL PARAMETERS / # BOTTLES & PRESERVATIVES

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCL PCB (8082)	TCL PCB Extract +Hold	HCL	HNO3	MeOH	H2SO4	NAOH/ZNAc	Sterile
LL-42 (2.0-3.0)		12/9/13	12:13	S	1	9	X							
MM-42 (0-1.0)			2:05	S	1	10	X							
MM-42 (1.0-2.0)			2:07	S	1	11	X	X						
MM-42 (2.0-3.0)			2:09	S	1	12	X	X						
FB-42			3:05	aq	2	13	X							
							X							
							X							
							X							

Known Hazard: Yes or No Describe:

Conc. Expected: Low Med High

MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one): _____ IAL Courier _____ Client Courier _____ FedEx/UPS

	Signature/Company	Date	Time		Signature/Company	Date	Time
Relinquished	[signature]	12/9/13	15:15	Received by	[signature] IAL	12/9/13	15:15
Relinquished	[signature] IAL	12/9/13	1625	Received by	[signature]	12/9/13	1625
Relinquished				Received by:			
Relinquished				Received by:			
Relinquished				Received by:			

Comments:

Lab Case # 12226

PAGE: 2 of 2

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

IAL
Integrated Analytical Laboratories LLC

PROJECT INFORMATION

E13-12226: ARSYNCO

To: Jim Clabby
JMC Environmental Consultants
Fax: 1(732) 295-2150
EMail: jclabby@jmcenvironmental.com; ah

Report To

JMC Environmental Consultants
2109 Bridge Avenue
Building B
Point Pleasant, NJ 08742
Attn: Jim Clabby

Bill To

JMC Environmental Consultants
Aceto Corp.
4 Tri Harbor Court
Port Washington, NY 11050
Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced		Dec 09, 2013 @ 16:25	NA	Dec 23, 2013	Dec 31, 2013 *

* Any ***Conditional or Hold*** status will delay final hardcopy report sent date.

Diskette Req. SRP TXT

**** QC Requirement (must meet):** NJ SRS

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
12226-001	KK-43 (0-1.0)	NA	12/09/13@11:13	Soil	mg/Kg (ppm)	
12226-002	KK-43 (1.0-2.0)	NA	12/09/13@11:15	Soil	mg/Kg (ppm)	
12226-003	KK-43 (2.0-3.0)	NA	12/09/13@11:17	Soil	mg/Kg (ppm)	
12226-004	KK-42 (0-1.0)	NA	12/09/13@11:36	Soil	mg/Kg (ppm)	
12226-005	KK-42 (1.0-2.0)	NA	12/09/13@11:38	Soil	mg/Kg (ppm)	
12226-006	KK-42 (2.0-3.0)	NA	12/09/13@11:40	Soil	mg/Kg (ppm)	
12226-007	LL-42 (0-1.0)	NA	12/09/13@12:10	Soil	mg/Kg (ppm)	
12226-008	LL-42 (1.0-2.0)	NA	12/09/13@12:11	Soil	mg/Kg (ppm)	
12226-009	LL-42 (2.0-3.0)	NA	12/09/13@12:13	Soil	mg/Kg (ppm)	
12226-010	MM-42 (0-1.0)	NA	12/09/13@14:05	Soil	mg/Kg (ppm)	
12226-011	MM-42 (1.0-2.0)	NA	12/09/13@14:07	Soil	mg/Kg (ppm)	
12226-012	MM-42 (2.0-3.0)	NA	12/09/13@14:09	Soil	mg/Kg (ppm)	
12226-013	FB-42	NA	12/09/13@15:05	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013
003	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/23/2013
	TCL PCB	Cancel	8082A	STD/2 WKS	12/23/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013
006	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/23/2013
	TCL PCB	Cancel	8082A	STD/2 WKS	12/23/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013
008	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013

273 Franklin Road
Randolph, NJ 07869
Phone: 973 361 4252
Fax: 973 989 5288

IAL is a NELAP New Jersey Accredited Lab (14251) and maintains certification [illegible] Pennsylvania (68-00773) and West Virginia TO-15 and Method 18

IAL
Integrated Analytical Laboratories LLC

PROJECT INFORMATION

E13-12226: ARSYNCO

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
009	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/23/2013
	TCL PCB	Cancel	8082A	STD/2 WKS	12/23/2013
010	TCL PCB	Analyze	8082A	STD/2 WKS	12/23/2013
011	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/23/2013
	TCL PCB	Cancel	8082A	STD/2 WKS	12/23/2013
012	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/23/2013
	TCL PCB	Cancel	8082A	STD/2 WKS	12/23/2013
013	TCL PCB	Analyze	8082A	STD/2 WKS	12/16/2013

Project Notes:

REV 1 taken by kim on 12/11/2013 01:59
Sample 12226-009 (LL-42 (2.0-3.0)) should be an Extract & Hold (PCB) sample, per Chris Cho.

REV 2 taken by Evan on 01/20/2014 03:16
As per Jim Clabby, cancel TCL PCB for sample # 3,6,9,11,12

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INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: **E 13** **12226** CLIENT: JMC

COOLER TEMPERATURE: 2° - 6°C: ✓ (See Chain of Custody)

Comments

COC: (COMPLETE) / INCOMPLETE

KEY

✓ **= YES/NA**
✗ **= NO**

VOA received: (check one) ☐ Encore ☐ IGW - Methanol ☐ Terra Core ☐ No Preservative

✓ Bottles Intact
✓ no-Missing Bottles
✓ no-Extra Bottles

✓ Sufficient Sample Volume
✓ no-headspace/bubbles in VOs
✓ Labels intact/correct
✓ pH Check (exclude VOs)[1]
✓ Correct bottles/preservative
✓ Sufficient Holding/Prep Time[1]
☐ Multiphasic Sample
☐ Sample to be Subcontracted
✓ **Chain of Custody is Clear**

[1] All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL [signature] DATE 12/9/13

CORRECTIVE ACTION REQUIRED: **YES** ☐ (SEE BELOW) **NO** ☐

If COC is **NOT** clear, ***STOP*** until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES ☐ Date/ Time: _____ NO ☐

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL KG DATE 12/9/13

E13-12226 0080

REV 03/2013

Laboratory Custody Chronicle

IAL Case No.

E13-12226

Client JMC Environmental Consultants

Project ARSYNCO

Received On 12/ 9/2013@16:25

Department: GC

			Prep. Date	***Analyst***	***Analysis Date***	***Analyst***
TCL PCB	12226-001	Soil	12/10/13	Archimede	12/11/13	Justyna
"	-002	"	12/10/13	Archimede	12/11/13	Justyna
"	-004	"	12/10/13	Archimede	12/11/13	Justyna
"	-005	"	12/10/13	Archimede	12/11/13	Justyna
"	-007	"	12/10/13	Archimede	12/11/13	Justyna
"	-008	"	12/10/13	Archimede	12/11/13	Justyna
"	-010	"	12/10/13	Archimede	12/11/13	Justyna
"	-013	Aqueous	12/13/13	Archimede	12/16/13	Nicole

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