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: **E13-10361**

These data have been reviewed and accepted by:

Michael H. Leffin, Ph.D.
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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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.

E13-10361

Client JMC Environmental Consultants

Project ARSYNCO

Received On 10/17/2013@18:15

Lab ID	Client Sample ID	Depth Top/Bottom	Sampling Time	Matrix	# of Container
10361-001	X-44N (3.0-4.0)	3/4	10/17/2013@11:55	Soil	1
10361-002	Z-43N(1) (5.0-6.0)	5/6	10/17/2013@12:15	Soil	1
10361-003	Y-43S (6.0-7.0)	6/7	10/17/2013@12:43	Soil	1
10361-004	Z-43 (4.0-5.0)	4/5	10/17/2013@13:05	Soil	1
10361-005	X-47 (0-1.0)	0/1	10/17/2013@13:53	Soil	1
10361-006	X-47 (1.0-2.0)	1/2	10/17/2013@13:54	Soil	1
10361-007	W-48 (0-1.0)	0/1	10/17/2013@14:25	Soil	1
10361-008	W-48 (1.0-2.0)	1/2	10/17/2013@14:26	Soil	1
10361-009	BB-43 (4.0-5.0)	4/5	10/17/2013@14:55	Soil	1
10361-010	FB-24	n/a	10/17/2013@15:15	Aqueous	2

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on November 04, 2013

* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

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 nine (9) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-10361, Project: ARSYNCO) on October 17, 2013 for the analysis of:

(10) 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

11/03/13
Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-10361

PCB By 8082A

Batch ID: 131023-07	**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: 010
- The following samples were cleaned up using method 3665A: 010

E13-10361

- 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 10361 -010.

Nicole Cobb 10/24/2013

Signature Date

E13-10361 0004

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-10361

PCB By 8082A

Batch ID: 131023-05	**Matrix: Soil**

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: 001, 002, 003, 004, 005, 006, 007, 008, 009

E13-10361

- 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 10361 -001 through -009.

10/25/2013

Signature Date

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-10361

Lab ID:	**10361-010**		
Client ID:	**FB-24**		
Matrix:	**Aqueous**		
Sampled Date	**10/17/13**		
PARAMETER(Units)	Conc	Q	MDL
PCB's (Units)	*(mg/L-ppm)*		
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:	**10361-001**			**10361-002**			**10361-003**			**10361-004**	
Client ID:	**X-44N (3.0-4.0)**			**Z-43N(1) (5.0-6.0)**			**Y-43S (6.0-7.0)**			**Z-43 (4.0-5.0)**	
Depth:	**3/4**			**5/6**			**6/7**			**4/5**	
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**	
Sampled Date	**10/17/13**			**10/17/13**			**10/17/13**			**10/17/13**	
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	*(mg/Kg-ppm)*			*(mg/Kg-ppm)*			*(mg/Kg-ppm)*			*(mg/Kg-ppm)*	
Aroclor-1016	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1221	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1232	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1242	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1248	0.037	J	0.023	0.316		0.018	ND		0.018	0.482		0.021
Aroclor-1254	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1260	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1262	ND		0.023	ND		0.018	ND		0.018	ND		0.021
Aroclor-1268	ND		0.023	ND		0.018	ND		0.018	ND		0.021
PCBs	0.037	J		0.316			ND			0.482		

ND = Analyzed for but Not Detected at the MDL
J = The concentration was detected at a value below the RL and above the MDL

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-10361

Lab ID:	**10361-005**			**10361-006**			**10361-007**			**10361-008**		
Client ID:	**X-47 (0-1.0)**			**X-47 (1.0-2.0)**			**W-48 (0-1.0)**			**W-48 (1.0-2.0)**		
Depth:	**0/1**			**1/2**			**0/1**			**1/2**		
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**		
Sampled Date	**10/17/13**			**10/17/13**			**10/17/13**			**10/17/13**		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	*(mg/Kg-ppm)*			*(mg/Kg-ppm)*			*(mg/Kg-ppm)*			*(mg/Kg-ppm)*		
Aroclor-1016	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1221	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1232	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1242	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1248	9.60		0.089	0.794		0.103	9.91		0.095	0.533		0.064
Aroclor-1254	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1260	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1262	ND		0.089	ND		0.103	ND		0.095	ND		0.064
Aroclor-1268	ND		0.089	ND		0.103	ND		0.095	ND		0.064
PCBs	9.60			0.794			9.91			0.533		

Lab ID:	**10361-009**		
Client ID:	**BB-43 (4.0-5.0)**		
Depth:	**4/5**		
Matrix:	**Soil**		
Sampled Date	**10/17/13**		
PARAMETER(Units)	Conc	Q	MDL
PCB's (Units)	*(mg/Kg-ppm)*		
Aroclor-1016	ND		0.019
Aroclor-1221	ND		0.019
Aroclor-1232	ND		0.019
Aroclor-1242	1.08		0.019
Aroclor-1248	ND		0.019
Aroclor-1254	ND		0.019
Aroclor-1260	ND		0.019
Aroclor-1262	ND		0.019
Aroclor-1268	ND		0.019
PCBs	1.08		

ND = Analyzed for but Not Detected at the MDL

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-001
Client ID: X-44N_(3
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2462.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.25g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 32.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.057	0.023
Aroclor-1221	ND		0.057	0.023
Aroclor-1232	ND		0.057	0.023
Aroclor-1242	ND		0.057	0.023
Aroclor-1248	0.037	J	0.057	0.023
Aroclor-1254	ND		0.057	0.023
Aroclor-1260	ND		0.057	0.023
Aroclor-1262	ND		0.057	0.023
Aroclor-1268	ND		0.057	0.023
PCBs	0.037	J	0.057	0.023

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

E13-10361 0010

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-002
Client ID: Z-43N(1)
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2463.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.86g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 23.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.044	0.018
Aroclor-1221	ND		0.044	0.018
Aroclor-1232	ND		0.044	0.018
Aroclor-1242	ND		0.044	0.018
Aroclor-1248	0.316		0.044	0.018
Aroclor-1254	ND		0.044	0.018
Aroclor-1260	ND		0.044	0.018
Aroclor-1262	ND		0.044	0.018
Aroclor-1268	ND		0.044	0.018
PCBs	0.316		0.044	0.018

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

E13-10361 0011

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-003
Client ID: Y-43S_(6
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2464.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.27g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 17.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.046	0.018
Aroclor-1221	ND		0.046	0.018
Aroclor-1232	ND		0.046	0.018
Aroclor-1242	ND		0.046	0.018
Aroclor-1248	ND		0.046	0.018
Aroclor-1254	ND		0.046	0.018
Aroclor-1260	ND		0.046	0.018
Aroclor-1262	ND		0.046	0.018
Aroclor-1268	ND		0.046	0.018
PCBs	ND		0.046	0.018

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

E13-10361 0012

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-004
Client ID: Z-43_(4.
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2465.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.09g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 24.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.052	0.021
Aroclor-1221	ND		0.052	0.021
Aroclor-1232	ND		0.052	0.021
Aroclor-1242	ND		0.052	0.021
Aroclor-1248	0.482		0.052	0.021
Aroclor-1254	ND		0.052	0.021
Aroclor-1260	ND		0.052	0.021
Aroclor-1262	ND		0.052	0.021
Aroclor-1268	ND		0.052	0.021
PCBs	0.482		0.052	0.021

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

E13-10361 0013

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-005
Client ID: X-47_(0-
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2466.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.38g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 83.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.223	0.089
Aroclor-1221	ND		0.223	0.089
Aroclor-1232	ND		0.223	0.089
Aroclor-1242	ND		0.223	0.089
Aroclor-1248	9.60		0.223	0.089
Aroclor-1254	ND		0.223	0.089
Aroclor-1260	ND		0.223	0.089
Aroclor-1262	ND		0.223	0.089
Aroclor-1268	ND		0.223	0.089
PCBs	9.60		0.223	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

E13-10361 0014

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-006
Client ID: X-47_(1.
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2467.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.24g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 85.2

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.258	0.103
Aroclor-1221	ND		0.258	0.103
Aroclor-1232	ND		0.258	0.103
Aroclor-1242	ND		0.258	0.103
Aroclor-1248	0.794		0.258	0.103
Aroclor-1254	ND		0.258	0.103
Aroclor-1260	ND		0.258	0.103
Aroclor-1262	ND		0.258	0.103
Aroclor-1268	ND		0.258	0.103
PCBs	0.794		0.258	0.103

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

E13-10361 0015

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-007
Client ID: W-48_(0-
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2468.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.08g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 83.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.237	0.095
Aroclor-1221	ND		0.237	0.095
Aroclor-1232	ND		0.237	0.095
Aroclor-1242	ND		0.237	0.095
Aroclor-1248	9.91		0.237	0.095
Aroclor-1254	ND		0.237	0.095
Aroclor-1260	ND		0.237	0.095
Aroclor-1262	ND		0.237	0.095
Aroclor-1268	ND		0.237	0.095
PCBs	9.91		0.237	0.095

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

E13-10361 0016

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-008
Client ID: W-48_(1.
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2469.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.19g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 76.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.161	0.064
Aroclor-1221	ND		0.161	0.064
Aroclor-1232	ND		0.161	0.064
Aroclor-1242	ND		0.161	0.064
Aroclor-1248	0.533		0.161	0.064
Aroclor-1254	ND		0.161	0.064
Aroclor-1260	ND		0.161	0.064
Aroclor-1262	ND		0.161	0.064
Aroclor-1268	ND		0.161	0.064
PCBs	0.533		0.161	0.064

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

E13-10361 0017

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-009
Client ID: BB-43_(4
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2470.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.39g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 19.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.046	0.019
Aroclor-1221	ND		0.046	0.019
Aroclor-1232	ND		0.046	0.019
Aroclor-1242	1.08		0.046	0.019
Aroclor-1248	ND		0.046	0.019
Aroclor-1254	ND		0.046	0.019
Aroclor-1260	ND		0.046	0.019
Aroclor-1262	ND		0.046	0.019
Aroclor-1268	ND		0.046	0.019
PCBs	1.08		0.046	0.019

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

E13-10361 0018

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10361-010
Client ID: FB-24
Date Received: 10/17/2013
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: R4959.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 & great than MDL
E --- Exceeds upper level of Calibration curve

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

PCB DATA

PCB QC SUMMARY

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/23/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKS131023-05	SOIL	91		66		96		78	
PCB	LCSS131023-05	SOIL	93		76		96		82	
13-179-C	E13-10450-001	SOIL	88		58		109		75	
PCB	10450-001MS	SOIL	88		69		94		81	
PCB	10450-001MSD	SOIL	88		64		94		87	
13-179-C	E13-10450-002	SOIL	88		63		95		86	
13-179-C	E13-10450-003	SOIL	91		64		97		85	
13-179-C	E13-10450-004	SOIL	98		81		106		97	
SW-2B	E13-10345-006	SOIL	91		67		96		84	
SW-3B	E13-10345-007	SOIL	93		68		99		85	
SW-4B	E13-10345-008	SOIL	93		72		100		90	
B-5B	E13-10345-009	SOIL	95		70		101		87	
X-44N_(3	E13-10361-001	SOIL	103		82		111		96	
Z-43N(1)	E13-10361-002	SOIL	106		78		114		109	
Y-43S_(6	E13-10361-003	SOIL	98		71		105		97	
Z-43_(4.	E13-10361-004	SOIL	97		71		104		88	
X-47_(0-	E13-10361-005	SOIL	120		88		132		115	
X-47_(1.	E13-10361-006	SOIL	121		92		137		113	
W-48_(0-	E13-10361-007	SOIL	116		87		127		110	
W-48_(1.	E13-10361-008	SOIL	120		92		134		107	
BB-43_(4	E13-10361-009	SOIL	96		68		105		88	

Surrogate QC Limits	Soil	Aqueous
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: 10/22/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKA131021-17	AQUEOUS	88		79		95		90	
PCB	LCSA131021-17	AQUEOUS	85		85		90		88	
OUTFALL	E13-10256-001	WASTE WATER	71		69		75		100	
FB-21	E13-10192-011	AQUEOUS	88		75		94		88	
FB-22	E13-10227-014	AQUEOUS	91		75		97		103	
PCB	E13-10256-001MS	WASTE WATER	78		85		84		103	
PCB	E13-10256-001MS	WASTE WATER	74		74		80		93	

Surrogate QC Limits	Soil	Aqueous
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: 10/23/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKA131023-07	AQUEOUS	99		79		87		62	
PCB	LCSA131023-07	AQUEOUS	99		79		85		64	
ES-PTCB-	E13-10415-001	AQUEOUS	83		72		72		64	
ES-PTCB-	E13-10415-002	AQUEOUS	77		70		66		61	
FB-23	E13-10300-009	AQUEOUS	93		68		80		58	
TW-13/22	E13-10410-012	AQUEOUS	75		61		63		47	
FB-24	E13-10361-010	AQUEOUS	94		73		81		54	
EFFLUENT	E13-10376-001	AQUEOUS	66		68		57		64	

Surrogate QC Limits	Soil	Aqueous
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: LCSS131023-05

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	481.3	96	40 - 140
Aroclor-1260	500.0	0.0	499.6	100	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: LCSA131023-07

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	357.0	71	40 - 140
Aroclor-1260	500.0	0.0	367.9	74	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: E13-10450-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	448.9	90	40 - 140
Aroclor-1260	500.0	0.0	462.4	92	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	453.0	91	1	50	40 - 140
Aroclor-1260	0.0	440.3	88	4	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

AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-10256-001

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	412.4	82	40 - 140
Aroclor-1260	500.0	0.0	447.4	89	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD % # REC	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	383.8	77	6	50	40 - 140
Aroclor-1260	0.0	426.8	85	5	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: Y2449.D

Instrument ID: GC-Y

Date Extracted: 10/23/2013

Matrix: SOIL

Date Analyzed: 10/23/2013

Time Analyzed: 15:28

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131023-05	10/23/2013	15:46
13-179-C	E13-10450-001	10/23/2013	16:14
PCB	10450-001MS	10/23/2013	16:32
PCB	10450-001MSD	10/23/2013	16:49
13-179-C	E13-10450-002	10/23/2013	17:06
13-179-C	E13-10450-003	10/23/2013	17:24
13-179-C	E13-10450-004	10/23/2013	17:41
SW-2B	E13-10345-006	10/23/2013	19:08
SW-3B	E13-10345-007	10/23/2013	19:25
SW-4B	E13-10345-008	10/23/2013	19:43
B-5B	E13-10345-009	10/23/2013	20:00
X-44N_(3	E13-10361-001	10/23/2013	20:18
Z-43N(1)	E13-10361-002	10/23/2013	20:35
Y-43S_(6	E13-10361-003	10/23/2013	20:52
Z-43_(4.	E13-10361-004	10/23/2013	21:10
X-47_(0-	E13-10361-005	10/23/2013	21:27
X-47_(1.	E13-10361-006	10/23/2013	22:02
W-48_(0-	E13-10361-007	10/23/2013	22:19
W-48_(1.	E13-10361-008	10/23/2013	22:54
BB-43_(4	E13-10361-009	10/23/2013	23:11

PCB METHOD BLANK SUMMARY

Lab File ID: Y2409.D

Instrument ID: GC-Y

Date Extracted: 10/21/2013

Matrix: AQUEOUS

Date Analyzed: 10/22/2013

Time Analyzed: 21:25

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA131021-17	10/22/2013	21:43
OUTFALL	E13-10256-001	10/22/2013	22:00
FB-21	E13-10192-011	10/22/2013	22:17
FB-22	E13-10227-014	10/22/2013	22:35
PCB	E13-10256-001MS	10/22/2013	22:52
PCB	E13-10256-001MSD	10/22/2013	23:09

PCB METHOD BLANK SUMMARY

Lab File ID: R4953.D

Instrument ID: GC-R

Date Extracted: 10/23/2013

Matrix: AQUEOUS

Date Analyzed: 10/23/2013

Time Analyzed: 13:58

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA131023-07	10/23/2013	14:16
ES-PTCB-	E13-10415-001	10/23/2013	14:41
ES-PTCB-	E13-10415-002	10/23/2013	14:59
FB-23	E13-10300-009	10/23/2013	15:16
TW-13/22	E13-10410-012	10/23/2013	15:34
FB-24	E13-10361-010	10/23/2013	15:51
EFFLUENT	E13-10376-001	10/23/2013	16:08

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

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

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.23	3.23	3.23	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}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.22				3.15	3.29
Aroclor-1221 {5}			3.81				3.74	3.88
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}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
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}			5.99				5.91	6.07
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}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.26	8.26	8.26	8.26	8.26	7.36	9.16
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.93	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: 09/25/2013 **Instrument ID:** GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	464323	441679	382895	349177	333589	394332	14.46
Aroclor-1016 {2}	631313	643566	521731	477189	458454	546451	15.79
Aroclor-1016 {3}	806143	774449	662509	606621	589177	687780	14.26
Aroclor-1016 {4}	363540	363516	332688	305606	289774	331025	10.09
Aroclor-1016 {5}	628860	642038	551930	503774	487757	562872	12.52
Aroclor-1221			199877				
Aroclor-1221 {2}			313557				
Aroclor-1221 {3}			198732				
Aroclor-1221 {4}			681302				
Aroclor-1221 {5}			164392				
Aroclor-1232			508390				
Aroclor-1232 {2}			304333				
Aroclor-1232 {3}			272852				
Aroclor-1232 {4}			292921				
Aroclor-1232 {5}			379208				
Aroclor-1242			445331				
Aroclor-1242 {2}			289404				
Aroclor-1242 {3}			394283				
Aroclor-1242 {4}			595594				
Aroclor-1242 {5}			525307				
Aroclor-1248			1072563				
Aroclor-1248 {2}			618287				
Aroclor-1248 {3}			795414				
Aroclor-1248 {4}			1263310				
Aroclor-1248 {5}			998553				
Aroclor-1254			1250957				
Aroclor-1254 {2}			821044				
Aroclor-1254 {3}			1480779				
Aroclor-1254 {4}			1606933				
Aroclor-1254 {5}			1429697				
Aroclor-1260	1799563	1887490	1561779	1407648	1377152	1606726	14.27
Aroclor-1260 {2}	884011	896189	732678	641350	641368	759119	16.51
Aroclor-1260 {3}	2064481	2110924	1815054	1604501	1536563	1826305	14.25
Aroclor-1260 {4}	982911	1147466	964107	838195	828743	952284	13.64
Aroclor-1260 {5}	415694	477377	462681	369882	339327	412992	14.28
						Average %RSD	14.01

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

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

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.76	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.36	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.39
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.77				3.70	3.84
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.24				6.17	6.31
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.24				6.16	6.32
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.09				7.01	7.17
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.29				8.20	8.38
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.85	7.85	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.11	8.11	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.20	10.20	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

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

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	840261	856585	714298	646843	597927	731183	15.71
Aroclor-1016 {2}	1833596	1816776	1547682	1378645	1353928	1586125	14.54
Aroclor-1016 {3}	4371716	4236799	3569561	3258945	3150851	3717574	15.04
Aroclor-1016 {4}	1871668	1849704	1597815	1454198	1410182	1636714	13.20
Aroclor-1016 {5}	1442767	1421476	1238979	1138128	1115123	1271295	12.13
Aroclor-1221			340703				
Aroclor-1221 {2}			617655				
Aroclor-1221 {3}			417322				
Aroclor-1221 {4}			1522237				
Aroclor-1221 {5}			291032				
Aroclor-1232			973678				
Aroclor-1232 {2}			425526				
Aroclor-1232 {3}			940006				
Aroclor-1232 {4}			735287				
Aroclor-1232 {5}			1002709				
Aroclor-1242			611221				
Aroclor-1242 {2}			1032956				
Aroclor-1242 {3}			1271440				
Aroclor-1242 {4}			1106793				
Aroclor-1242 {5}			2184386				
Aroclor-1248			2396754				
Aroclor-1248 {2}			3539345				
Aroclor-1248 {3}			2550731				
Aroclor-1248 {4}			2230079				
Aroclor-1248 {5}			1294923				
Aroclor-1254			2883717				
Aroclor-1254 {2}			2180898				
Aroclor-1254 {3}			1865030				
Aroclor-1254 {4}			1138169				
Aroclor-1254 {5}			2980480				
Aroclor-1260	1380266	1597791	1348190	1285120	1250722	1372418	9.90
Aroclor-1260 {2}	2170235	2320146	1904498	1826388	1764884	1997230	11.90
Aroclor-1260 {3}	1830758	1876902	1742155	1590179	1579596	1723918	7.88
Aroclor-1260 {4}	3775292	4234437	3909868	3531301	3570473	3804274	7.51
Aroclor-1260 {5}	2569926	3071676	2828424	2567649	2559367	2719408	8.36
						Average %RSD	11.62

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

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

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1262			8.55				8.43	8.67
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}			10.12				10.00	10.24
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: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1262			9.70				9.58	9.82
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.70				10.58	10.82
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.04				10.92	11.16
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013 **Instrument ID:** GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			1292916				
Aroclor-1262 {2}			2408782				
Aroclor-1262 {3}			950819				
Aroclor-1262 {4}			1039798				
Aroclor-1262 {5}			871465				
Aroclor-1268			2329028				
Aroclor-1268 {2}			2439244				
Aroclor-1268 {3}			1975765				
Aroclor-1268 {4}			5596247				
Aroclor-1268 {5}			3165388				

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			2532606				
Aroclor-1262 {2}			5716193				
Aroclor-1262 {3}			2058727				
Aroclor-1262 {4}			4020600				
Aroclor-1262 {5}			980018				
Aroclor-1268			5861773				
Aroclor-1268 {2}			6124826				
Aroclor-1268 {3}			5049165				
Aroclor-1268 {4}			14509441				
Aroclor-1268 {5}			8286384				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013 **Instrument ID:** GC-Y

Data File: Y2448.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	394332	375654	4.74
Aroclor-1016 {2}	4.05	3.98	4.12	546451	512756	6.17
Aroclor-1016 {3}	4.60	4.53	4.67	687780	636252	7.49
Aroclor-1016 {4}	5.10	5.03	5.17	331025	353280	6.72
Aroclor-1016 {5}	5.49	5.42	5.56	562872	526500	6.46
Aroclor-1260	8.27	7.36	9.16	1606726	1443587	10.15
Aroclor-1260 {2}	8.94	8.04	9.84	759119	673023	11.34
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1631907	10.64
Aroclor-1260 {4}	9.90	8.99	10.79	952284	863934	9.28
Aroclor-1260 {5}	10.95	10.05	11.85	412992	362182	12.30

Data File: Y2448.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WINDOW FROM	RT WINDOW TO	Avg CF	CC CF	%D
Aroclor-1016	3.77	3.69	3.83	731183	819552	12.09
Aroclor-1016 {2}	4.37	4.29	4.43	1586125	1680587	5.96
Aroclor-1016 {3}	5.12	5.04	5.18	3717574	3821709	2.80
Aroclor-1016 {4}	5.33	5.25	5.39	1636714	1652372	0.96
Aroclor-1016 {5}	5.50	5.42	5.56	1271295	1299932	2.25
Aroclor-1260	7.87	6.95	8.75	1372418	1478374	7.72
Aroclor-1260 {2}	8.12	7.21	9.01	1997230	2101393	5.22
Aroclor-1260 {3}	9.71	8.80	10.60	1723918	1823928	5.80
Aroclor-1260 {4}	10.21	9.30	11.10	3804274	3996237	5.05
Aroclor-1260 {5}	10.80	9.89	11.69	2719408	2783304	2.35

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013 **Instrument ID:** GC-Y

Data File: Y2457.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	394332	359112	8.93
Aroclor-1016 {2}	4.05	3.98	4.12	546451	484558	11.33
Aroclor-1016 {3}	4.60	4.53	4.67	687780	612785	10.90
Aroclor-1016 {4}	5.10	5.03	5.17	331025	326997	1.22
Aroclor-1016 {5}	5.50	5.42	5.56	562872	508540	9.65
Aroclor-1260	8.27	7.36	9.16	1606726	1433152	10.80
Aroclor-1260 {2}	8.94	8.04	9.84	759119	670121	11.72
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1650173	9.64
Aroclor-1260 {4}	9.89	8.99	10.79	952284	871339	8.50
Aroclor-1260 {5}	10.95	10.05	11.85	412992	425014	2.91

Data File: Y2457.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.76	3.69	3.83	731183	730872	0.04
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1432099	9.71
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3696406	0.57
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1615865	1.27
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1265770	0.43
Aroclor-1260	7.85	6.95	8.75	1372418	1342153	2.21
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1947997	2.47
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1841207	6.80
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4144417	8.94
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2973607	9.35

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/24/2013 **Instrument ID:** GC-Y

Data File: Y2471.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	394332	363061	7.93
Aroclor-1016 {2}	4.05	3.98	4.12	546451	491411	10.07
Aroclor-1016 {3}	4.60	4.53	4.67	687780	623812	9.30
Aroclor-1016 {4}	5.10	5.03	5.17	331025	335985	1.50
Aroclor-1016 {5}	5.50	5.42	5.56	562872	519335	7.73
Aroclor-1260	8.27	7.36	9.16	1606726	1477737	8.03
Aroclor-1260 {2}	8.94	8.04	9.84	759119	689367	9.19
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1711259	6.30
Aroclor-1260 {4}	9.89	8.99	10.79	952284	903758	5.10
Aroclor-1260 {5}	10.95	10.05	11.85	412992	447604	8.38

Data File: Y2471.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.76	3.69	3.83	731183	759259	3.84
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1460028	7.95
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3804444	2.34
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1667998	1.91
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1310258	3.06
Aroclor-1260	7.85	6.95	8.75	1372418	1400005	2.01
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2053163	2.80
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1933900	12.18
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4362429	14.67
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3093221	13.75

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013 **Instrument ID:** GC-Y

Data File: Y2408.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	394332	326823	17.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	447291	18.15
Aroclor-1016 {3}	4.60	4.53	4.67	687780	560616	18.49
Aroclor-1016 {4}	5.10	5.03	5.17	331025	292250	11.71
Aroclor-1016 {5}	5.50	5.42	5.56	562872	463278	17.69
Aroclor-1260	8.27	7.36	9.16	1606726	1321724	17.74
Aroclor-1260 {2}	8.94	8.04	9.84	759119	616407	18.80
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1544968	15.40
Aroclor-1260 {4}	9.89	8.99	10.79	952284	838008	12.00
Aroclor-1260 {5}	10.95	10.05	11.85	412992	431179	4.40

Data File: Y2408.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.76	3.69	3.83	731183	668693	8.55
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1509293	4.84
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3393540	8.72
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1462308	10.66
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1157754	8.93
Aroclor-1260	7.85	6.95	8.75	1372418	1242036	9.50
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1806791	9.54
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1703542	1.18
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3864696	1.59
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2757074	1.39

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013 **Instrument ID:** GC-Y

Data File: Y2416.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	394332	330763	16.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	453191	17.07
Aroclor-1016 {3}	4.60	4.53	4.67	687780	568120	17.40
Aroclor-1016 {4}	5.10	5.03	5.17	331025	296002	10.58
Aroclor-1016 {5}	5.50	5.42	5.56	562872	474340	15.73
Aroclor-1260	8.27	7.36	9.16	1606726	1373088	14.54
Aroclor-1260 {2}	8.94	8.04	9.84	759119	642532	15.36
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1615958	11.52
Aroclor-1260 {4}	9.89	8.99	10.79	952284	860268	9.66
Aroclor-1260 {5}	10.95	10.05	11.85	412992	396898	3.90

Data File: Y2416.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WINDOW FROM	RT WINDOW TO	Avg CF	CC CF	%D
Aroclor-1016	3.76	3.69	3.83	731183	685886	6.20
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1332722	15.98
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3491473	6.08
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1508222	7.85
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1193600	6.11
Aroclor-1260	7.85	6.95	8.75	1372418	1279692	6.76
Aroclor-1260 {2}	8.10	7.21	9.01	1997230	1882484	5.75
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1810727	5.04
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4151895	9.14
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3028988	11.38

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

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

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW 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	4.58	4.58	4.58	4.58	4.58	4.51	4.65
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}			5.29				5.22	5.36
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}			6.27				6.19	6.35
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	8.97	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.46	9.46	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.95	9.95	9.94	9.94	9.94	9.94	9.04	10.84
Aroclor-1260 {5}	11.02	11.01	11.01	11.01	11.00	11.01	10.11	11.91

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013 **Instrument ID:** GC-R
GC Column (1st): DB-5

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	231867	242237	228592	193642	202501	219768	9.41
Aroclor-1016 {2}	323952	328763	312155	266416	283182	302894	8.92
Aroclor-1016 {3}	408864	422707	403550	343925	364951	388800	8.48
Aroclor-1016 {4}	211380	209414	197757	165186	173203	191388	11.03
Aroclor-1016 {5}	318536	325749	322343	275171	293750	307110	7.11
Aroclor-1221			112607				
Aroclor-1221 {2}			180363				
Aroclor-1221 {3}			116612				
Aroclor-1221 {4}			410785				
Aroclor-1221 {5}			87454				
Aroclor-1232			299005				
Aroclor-1232 {2}			173615				
Aroclor-1232 {3}			148470				
Aroclor-1232 {4}			166967				
Aroclor-1232 {5}			214764				
Aroclor-1242			270307				
Aroclor-1242 {2}			167968				
Aroclor-1242 {3}			238157				
Aroclor-1242 {4}			373164				
Aroclor-1242 {5}			318472				
Aroclor-1248			652071				
Aroclor-1248 {2}			375416				
Aroclor-1248 {3}			492167				
Aroclor-1248 {4}			820080				
Aroclor-1248 {5}			559162				
Aroclor-1254			754913				
Aroclor-1254 {2}			471653				
Aroclor-1254 {3}			896264				
Aroclor-1254 {4}			908483				
Aroclor-1254 {5}			831676				
Aroclor-1260	775960	857104	906294	793572	814009	829388	6.34
Aroclor-1260 {2}	377553	403178	424628	369076	376790	390245	5.93
Aroclor-1260 {3}	928859	1035434	1093936	957941	955048	994243	6.89
Aroclor-1260 {4}	468061	491573	539142	480892	479108	491755	5.65
Aroclor-1260 {5}	276730	239351	257112	224560	216162	242783	10.11
					Average %RSD		7.99

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

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

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.37	3.37	3.37	3.37	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.93	3.93	3.93	3.93	3.93	3.93	3.86	4.00
Aroclor-1016 {3}	4.65	4.65	4.65	4.65	4.65	4.65	4.58	4.72
Aroclor-1016 {4}	4.85	4.85	4.85	4.85	4.85	4.85	4.78	4.92
Aroclor-1016 {5}	5.01	5.01	5.02	5.02	5.02	5.02	4.95	5.09
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			3.37				3.30	3.44
Aroclor-1232 {2}			4.29				4.22	4.36
Aroclor-1232 {3}			4.85				4.78	4.92
Aroclor-1232 {4}			5.02				4.95	5.09
Aroclor-1232 {5}			5.60				5.53	5.67
Aroclor-1242			4.29				4.22	4.36
Aroclor-1242 {2}			5.02				4.95	5.09
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			4.65				4.57	4.73
Aroclor-1248 {2}			5.21				5.13	5.29
Aroclor-1248 {3}			5.60				5.52	5.68
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}			7.16				7.08	7.24
Aroclor-1254 {3}			7.59				7.50	7.68
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.58				8.49	8.67
Aroclor-1260	7.34	7.34	7.34	7.34	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.59	7.59	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}	9.69	9.69	9.69	9.68	9.68	9.69	8.79	10.59
Aroclor-1260 {5}	10.28	10.28	10.27	10.27	10.27	10.27	9.37	11.17

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

Instrument ID: GC-R

GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	550494	519905	477104	398620	415593	472343	13.82
Aroclor-1016 {2}	1137773	1114790	971547	817071	857941	979824	14.84
Aroclor-1016 {3}	2409237	2308318	2162673	1836901	1930647	2129555	11.42
Aroclor-1016 {4}	976378	938082	902861	752678	797813	873562	10.85
Aroclor-1016 {5}	765897	723148	693529	580374	604962	673582	11.68
Aroclor-1221			232590				
Aroclor-1221 {2}			371702				
Aroclor-1221 {3}			228573				
Aroclor-1221 {4}			851260				
Aroclor-1221 {5}			156189				
Aroclor-1232			626422				
Aroclor-1232 {2}			237558				
Aroclor-1232 {3}			506906				
Aroclor-1232 {4}			387345				
Aroclor-1232 {5}			545113				
Aroclor-1242			361591				
Aroclor-1242 {2}			595144				
Aroclor-1242 {3}			790982				
Aroclor-1242 {4}			656779				
Aroclor-1242 {5}			1253965				
Aroclor-1248			1407656				
Aroclor-1248 {2}			2125325				
Aroclor-1248 {3}			1515589				
Aroclor-1248 {4}			1365446				
Aroclor-1248 {5}			734322				
Aroclor-1254			1659417				
Aroclor-1254 {2}			1314077				
Aroclor-1254 {3}			861013				
Aroclor-1254 {4}			1218067				
Aroclor-1254 {5}			1822415				
Aroclor-1260	922431	1045578	934621	786115	713116	880372	14.90
Aroclor-1260 {2}	1394880	1337506	1235464	1030567	1057679	1211219	13.47
Aroclor-1260 {3}	1134860	1095803	1056150	902187	916628	1021126	10.36
Aroclor-1260 {4}	2472691	2519783	2419894	2060860	2010835	2296813	10.51
Aroclor-1260 {5}	1675873	1830814	1743697	1489536	1439740	1635932	10.19
						Average %RSD	12.21

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013

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

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW 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}			11.01				10.89	11.13
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.17				10.05	10.29
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.61				11.49	11.73

GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW 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}			10.86				10.74	10.98
Aroclor-1268			10.17				10.05	10.29
Aroclor-1268 {2}			10.25				10.13	10.37
Aroclor-1268 {3}			10.50				10.38	10.62
Aroclor-1268 {4}			10.64				10.52	10.76
Aroclor-1268 {5}			11.72				11.60	11.84

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/18/2013 **Instrument ID:** GC-R
GC Column (1st): DB-5

Data File: R4820.D R4819.D R4818.D R4817.D R4816.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			420599				
Aroclor-1262 {2}			1542205				
Aroclor-1262 {3}			582031				
Aroclor-1262 {4}			721905				
Aroclor-1262 {5}			531740				
Aroclor-1268			1681176				
Aroclor-1268 {2}			1910902				
Aroclor-1268 {3}			1476250				
Aroclor-1268 {4}			401069				
Aroclor-1268 {5}			4856406				

GC Column (2nd): DB-1701P

Data File: R4820.C R4819.C R4818.C R4817.C R4816.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			1508129				
Aroclor-1262 {2}			3468452				
Aroclor-1262 {3}			1097700				
Aroclor-1262 {4}			2448536				
Aroclor-1262 {5}			430436				
Aroclor-1268			3602626				
Aroclor-1268 {2}			4026803				
Aroclor-1268 {3}			3133762				
Aroclor-1268 {4}			846659				
Aroclor-1268 {5}			9930684				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013 **Instrument ID:** GC-R

Data File: R4952.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.21	3.13	3.27	219768	234870	6.87
Aroclor-1016 {2}	4.04	3.96	4.10	302894	317714	4.89
Aroclor-1016 {3}	4.60	4.51	4.65	388800	415138	6.77
Aroclor-1016 {4}	5.10	5.02	5.16	191388	217713	13.75
Aroclor-1016 {5}	5.50	5.42	5.56	307110	328614	7.00
Aroclor-1260	8.30	7.39	9.19	829388	942512	13.64
Aroclor-1260 {2}	8.97	8.07	9.87	390245	424378	8.75
Aroclor-1260 {3}	9.46	8.55	10.35	994243	1098787	10.51
Aroclor-1260 {4}	9.94	9.04	10.84	491755	534493	8.69
Aroclor-1260 {5}	11.01	10.11	11.91	242783	246814	1.66

Data File: R4952.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	472343	426018	9.81
Aroclor-1016 {2}	3.93	3.86	4.00	979824	834461	14.84
Aroclor-1016 {3}	4.66	4.58	4.72	2129555	1896322	10.95
Aroclor-1016 {4}	4.86	4.78	4.92	873562	794893	9.01
Aroclor-1016 {5}	5.02	4.95	5.09	673582	611605	9.20
Aroclor-1260	7.34	6.44	8.24	880372	809055	8.10
Aroclor-1260 {2}	7.59	6.69	8.49	1211219	1075506	11.20
Aroclor-1260 {3}	9.18	8.27	10.07	1021126	899200	11.94
Aroclor-1260 {4}	9.69	8.79	10.59	2296813	1994027	13.18
Aroclor-1260 {5}	10.27	9.37	11.17	1635932	1393705	14.81

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013 **Instrument ID:** GC-R

Data File: R4961.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.21	3.13	3.27	219768	222292	1.15
Aroclor-1016 {2}	4.04	3.96	4.10	302894	299104	1.25
Aroclor-1016 {3}	4.60	4.51	4.65	388800	394090	1.36
Aroclor-1016 {4}	5.10	5.02	5.16	191388	209023	9.21
Aroclor-1016 {5}	5.50	5.42	5.56	307110	314149	2.29
Aroclor-1260	8.30	7.39	9.19	829388	897538	8.22
Aroclor-1260 {2}	8.98	8.07	9.87	390245	408475	4.67
Aroclor-1260 {3}	9.46	8.55	10.35	994243	1043300	4.93
Aroclor-1260 {4}	9.95	9.04	10.84	491755	510307	3.77
Aroclor-1260 {5}	11.01	10.11	11.91	242783	216151	10.97

Data File: R4961.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	472343	408532	13.51
Aroclor-1016 {2}	3.93	3.86	4.00	979824	795223	18.84
Aroclor-1016 {3}	4.66	4.58	4.72	2129555	1799832	15.48
Aroclor-1016 {4}	4.86	4.78	4.92	873562	762615	12.70
Aroclor-1016 {5}	5.02	4.95	5.09	673582	585378	13.09
Aroclor-1260	7.34	6.44	8.24	880372	774572	12.02
Aroclor-1260 {2}	7.59	6.69	8.49	1211219	1040811	14.07
Aroclor-1260 {3}	9.18	8.27	10.07	1021126	869395	14.86
Aroclor-1260 {4}	9.69	8.79	10.59	2296813	1929801	15.98
Aroclor-1260 {5}	10.27	9.37	11.17	1635932	1365913	16.51

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** 12.04 **TCMX 2** 2.89 **DCB 2** 12.48

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKA131021-17	10/22/2013	21:25	2.77		12.04		2.89		12.48	
PCB	LCSA131021-17	10/22/2013	21:43	2.77		12.04		2.89		12.48	
OUTFALL	E13-10256-001	10/22/2013	22:00	2.77		12.04		2.89		12.48	
FB-21	E13-10192-011	10/22/2013	22:17	2.77		12.04		2.89		12.48	
FB-22	E13-10227-014	10/22/2013	22:35	2.77		12.04		2.89		12.48	
PCB	E13-10256-001MS	10/22/2013	22:52	2.77		12.04		2.89		12.48	
PCB	E13-10256-001MSD	10/22/2013	23:09	2.77		12.04		2.89		12.48	

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-R **Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	2.74	DCB 1	12.09	TCMX 2	2.57	DCB 2	11.95

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKA131023-07	10/23/2013	13:58	2.74		12.09		2.57		11.95	
PCB	LCSA131023-07	10/23/2013	14:16	2.74		12.09		2.56		11.94	
ES-PTCB-	E13-10415-001	10/23/2013	14:41	2.74		12.09		2.57		11.95	
ES-PTCB-	E13-10415-002	10/23/2013	14:59	2.74		12.09		2.57		11.94	
FB-23	E13-10300-009	10/23/2013	15:16	2.74		12.09		2.57		11.94	
TW-13/22	E13-10410-012	10/23/2013	15:34	2.74		12.09		2.57		11.94	
FB-24	E13-10361-010	10/23/2013	15:51	2.75		12.09		2.57		11.94	
EFFLUENT	E13-10376-001	10/23/2013	16:08	2.74		12.09		2.57		11.94	

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** 12.04 **TCMX 2** 2.89 **DCB 2** 12.48

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKS131023-05	10/23/2013	15:28	2.77		12.04		2.89		12.48	
PCB	LCSS131023-05	10/23/2013	15:46	2.77		12.04		2.89		12.48	
13-179-C	E13-10450-001	10/23/2013	16:14	2.77		12.05		2.90		12.48	
PCB	10450-001MS	10/23/2013	16:32	2.77		12.04		2.89		12.48	
PCB	10450-001MSD	10/23/2013	16:49	2.77		12.04		2.89		12.48	
13-179-C	E13-10450-002	10/23/2013	17:06	2.77		12.04		2.89		12.48	
13-179-C	E13-10450-003	10/23/2013	17:24	2.77		12.04		2.89		12.48	
13-179-C	E13-10450-004	10/23/2013	17:41	2.77		12.04		2.89		12.48	
SW-2B	E13-10345-006	10/23/2013	19:08	2.77		12.04		2.89		12.48	
SW-3B	E13-10345-007	10/23/2013	19:25	2.77		12.04		2.89		12.48	
SW-4B	E13-10345-008	10/23/2013	19:43	2.77		12.04		2.89		12.48	
B-5B	E13-10345-009	10/23/2013	20:00	2.77		12.04		2.89		12.48	
X-44N_(3	E13-10361-001	10/23/2013	20:18	2.77		12.04		2.89		12.48	
Z-43N(1)	E13-10361-002	10/23/2013	20:35	2.77		12.04		2.89		12.48	
Y-43S_(6	E13-10361-003	10/23/2013	20:52	2.77		12.04		2.89		12.48	
Z-43_(4.	E13-10361-004	10/23/2013	21:10	2.77		12.04		2.89		12.48	
X-47_(0-	E13-10361-005	10/23/2013	21:27	2.77		12.04		2.89		12.48	
X-47_(1.	E13-10361-006	10/23/2013	22:02	2.77		12.04		2.89		12.48	
W-48_(0-	E13-10361-007	10/23/2013	22:19	2.77		12.04		2.89		12.48	
W-48_(1.	E13-10361-008	10/23/2013	22:54	2.77		12.04		2.89		12.48	
BB-43_(4	E13-10361-009	10/23/2013	23:11	2.77		12.04		2.89		12.48	

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\10-23-13\
Data File : Y2462.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 20:18
Operator : NG
Sample : X-44N_(3,E13-10361-001,S,5.25g,32.9,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:23:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3812.8E6	8151.0E6	206.514	221.952
Spiked Amount 200.000			Recovery	=	103.26%	110.98%
2) S DCB	12.04	12.48	1004.1E6	2469.7E6	162.924	191.203
Spiked Amount 200.000			Recovery	=	81.46%	95.60%
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	4.45	5.11	9568604	21798802	8.921	9.095
24) L6 Aroclor-1248 {2}	4.99	5.69	3715284	24400654	6.009	6.894
25) L6 Aroclor-1248 {3}	0.00	6.09	0	18020657	N.D. d	7.065m#
26) L6 Aroclor-1248 {4}	6.00	6.24	6733797	10773880	5.330	4.831m
27) L6 Aroclor-1248 {5}	0.00	6.59	0	6486523	N.D. d	5.009 #
Sum Aroclor-1248			20017685	81480516	20.261	32.895
Average Aroclor-1248					6.754	6.579
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

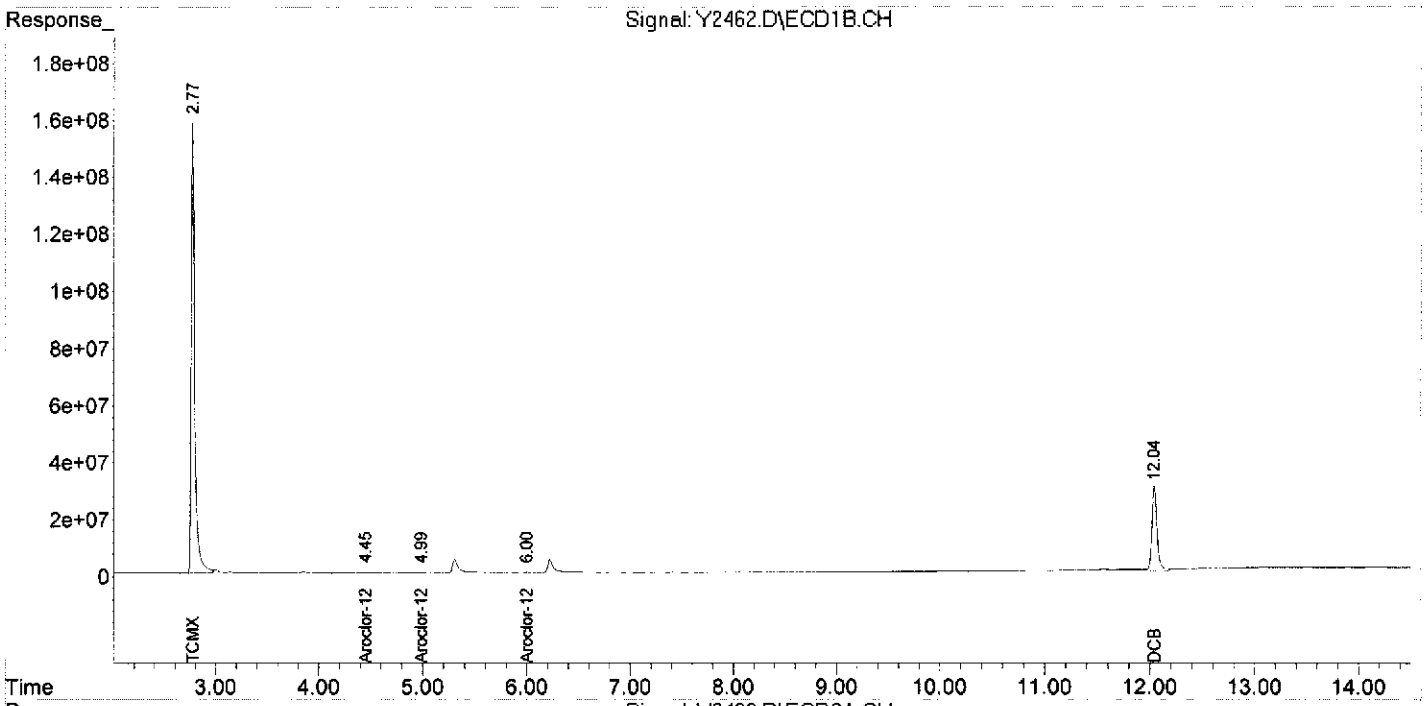
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

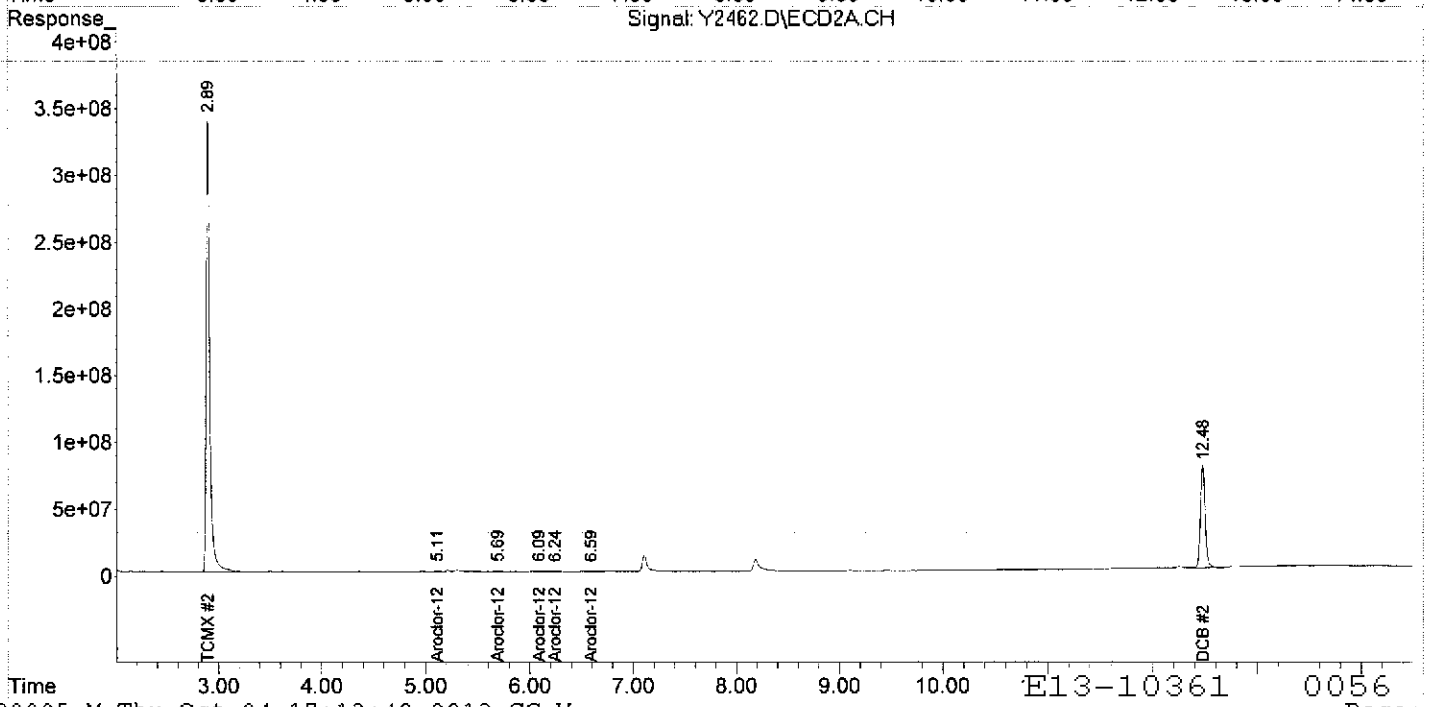
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2462.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 20:18
Operator : NG
Sample : X-44N_(3,E13-10361-001,S,5.25g,32.9,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:23:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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\10-23-13\
Data File : Y2463.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 20:35
Operator : NG
Sample : Z-43N(1),E13-10361-002,S,5.86g,23.0,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:26:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3914.3E6	8341.2E6	212.014	227.130
Spiked Amount 200.000			Recovery	=	106.01%	113.57%
2) S DCB	12.04	12.48	965.7E6	2804.0E6	156.688	217.086 #
Spiked Amount 200.000			Recovery	=	78.34%	108.54%
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	4.45	5.11	149.6E6	350.0E6	139.510	146.019
24) L6 Aroclor-1248 {2}	4.99	5.69	42597264	293.1E6	68.896	82.805
25) L6 Aroclor-1248 {3}	5.31	6.09	76033223	187.2E6	95.590m	73.374
26) L6 Aroclor-1248 {4}	6.00	6.24	29056556	154.1E6	23.000	69.117 #
27) L6 Aroclor-1248 {5}	6.27	6.60	29082476	53000571	29.125	40.930 #
Sum Aroclor-1248			326.4E6	1037.3E6	356.120	412.244
Average Aroclor-1248					71.224	82.449
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

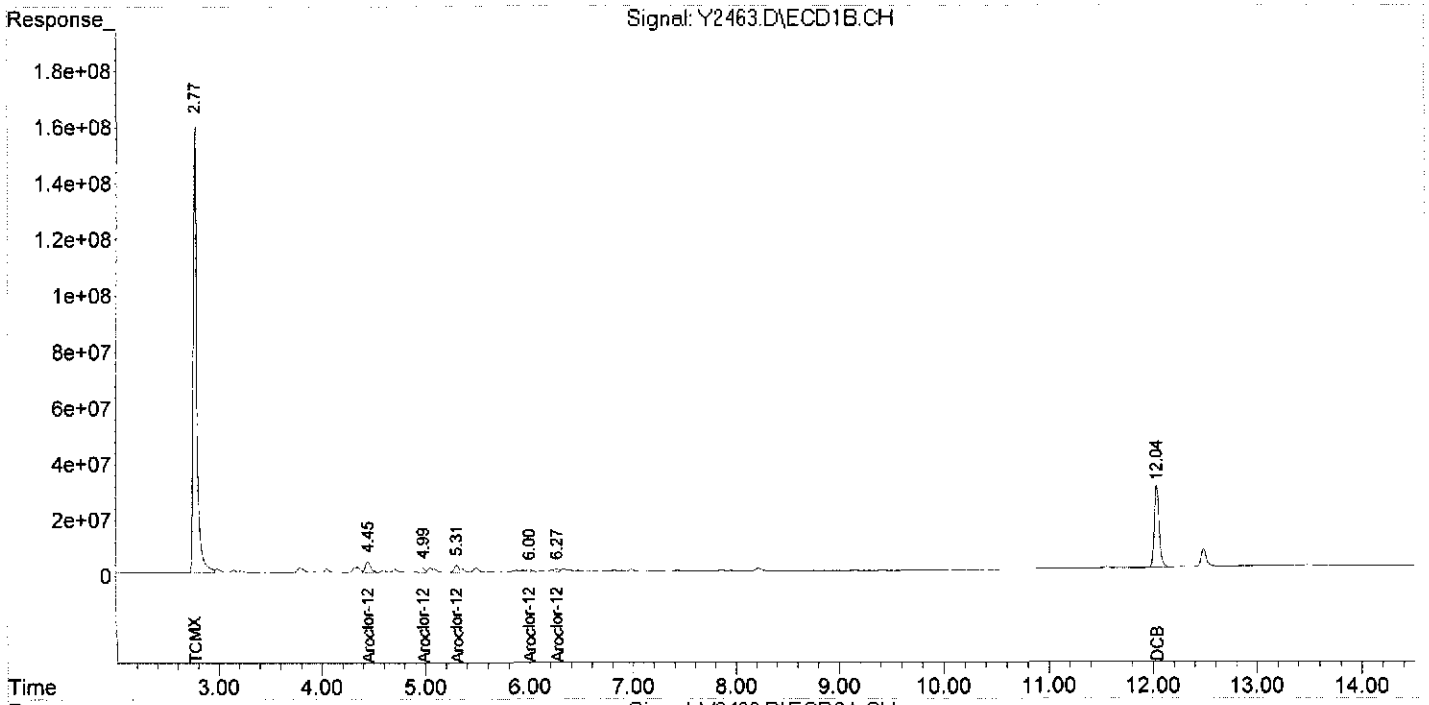
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

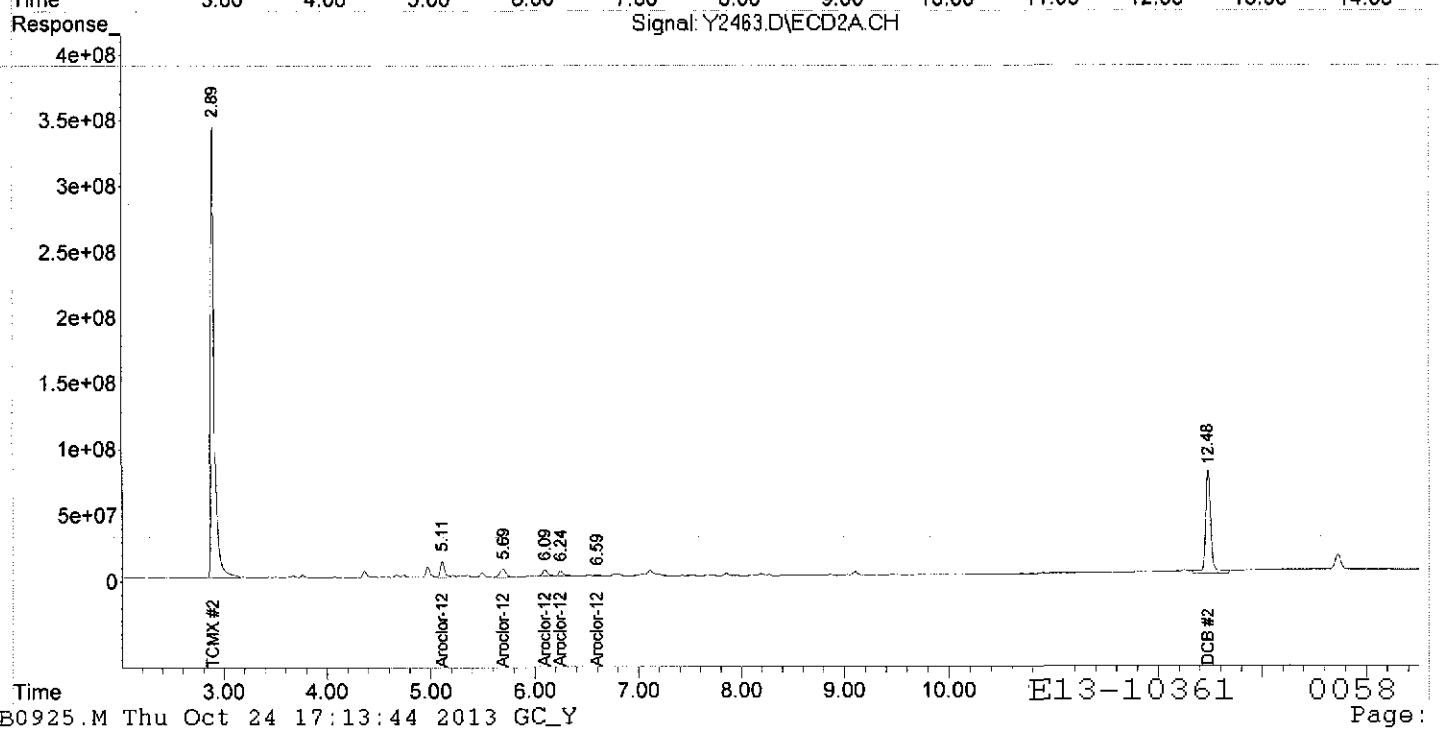
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2463.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 20:35
Operator : NG
Sample : Z-43N(1),E13-10361-002,S,5.86g,23.0,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:26:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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 :





E13-10361 0058

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2464.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 20:52
Operator : NG
Sample : Y-43S_(6,E13-10361-003,S,5.27g,17.3,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:01:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3606.8E6	7680.6E6	195.356	209.143
Spiked Amount 200.000			Recovery	=	97.68%	104.57%
2) S DCB	12.04	12.48	871.8E6	2504.1E6	141.457	193.866 #
Spiked Amount 200.000			Recovery	=	70.73%	96.93%
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

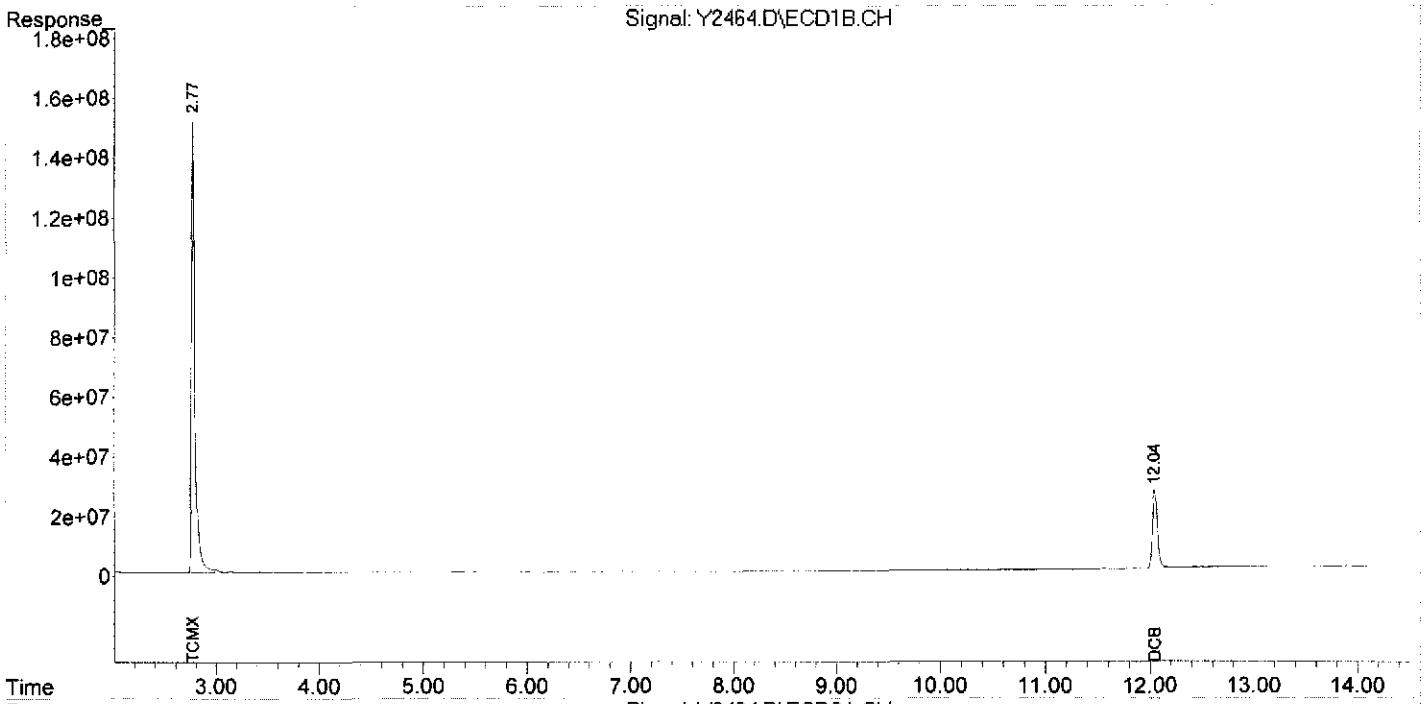
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

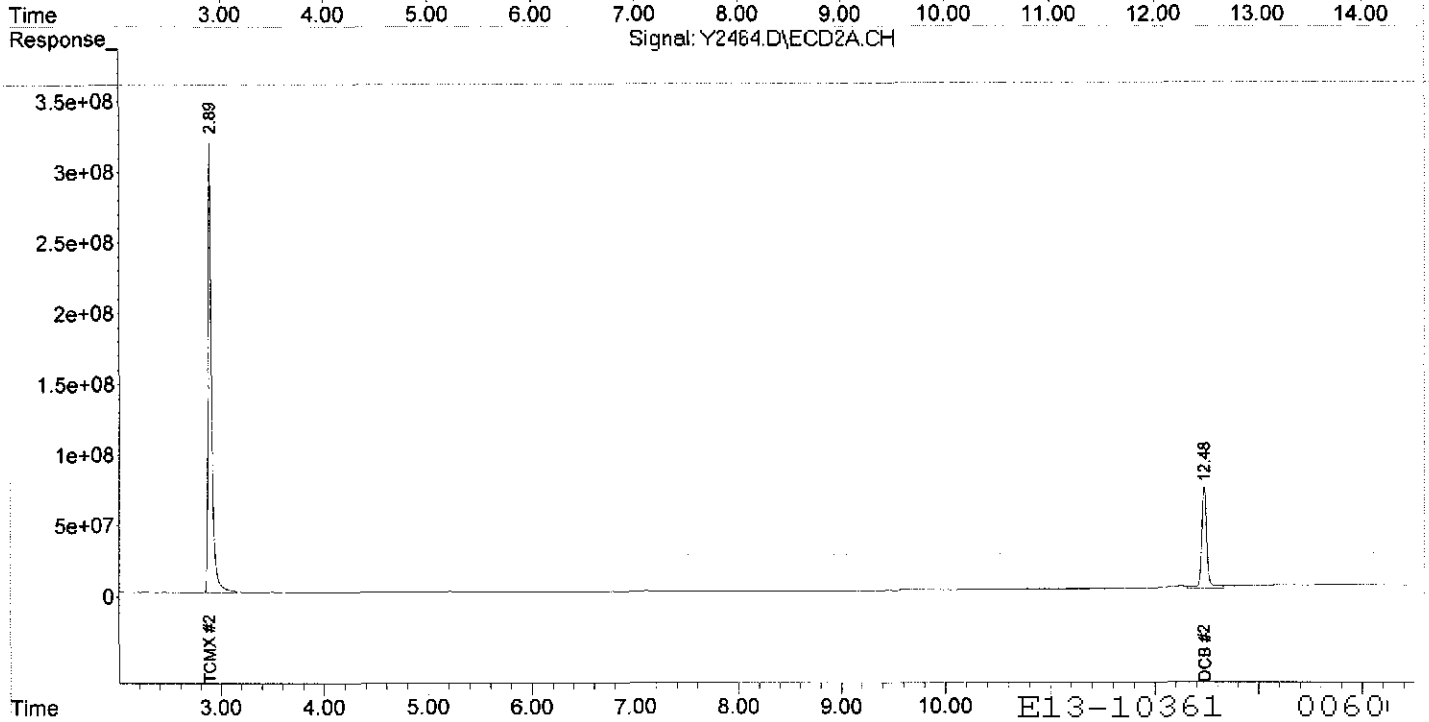
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2464.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 20:52
Operator : NG
Sample : Y-43S_(6,E13-10361-003,S,5.27g,17.3,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:01:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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 :





E13-10361 0060

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2465.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 21:10
Operator : NG
Sample : Z-43_(4.,E13-10361-004,S,5.09g,24.5,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:29:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3571.6E6	7657.9E6	193.453	208.524
Spiked Amount 200.000			Recovery	=	96.73%	104.26%
2) S DCB	12.04	12.48	870.0E6	2259.7E6	141.161	174.943
Spiked Amount 200.000			Recovery	=	70.58%	87.47%
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
23) L6 Aroclor-1248	4.45	5.11	213.1E6	505.7E6	198.710	211.008
24) L6 Aroclor-1248 {2}	4.99	5.69	60341836	404.7E6	97.595	114.355
25) L6 Aroclor-1248 {3}	5.31	6.09	85674107	273.0E6	107.710	107.038
26) L6 Aroclor-1248 {4}	6.00	6.24	39451725	212.9E6	31.229	95.480 #
27) L6 Aroclor-1248 {5}	6.27	6.60	27386121	51031465	27.426m	39.409 #
Sum Aroclor-1248			426.0E6	1447.5E6	462.670	567.289
Average Aroclor-1248					92.534	113.458
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

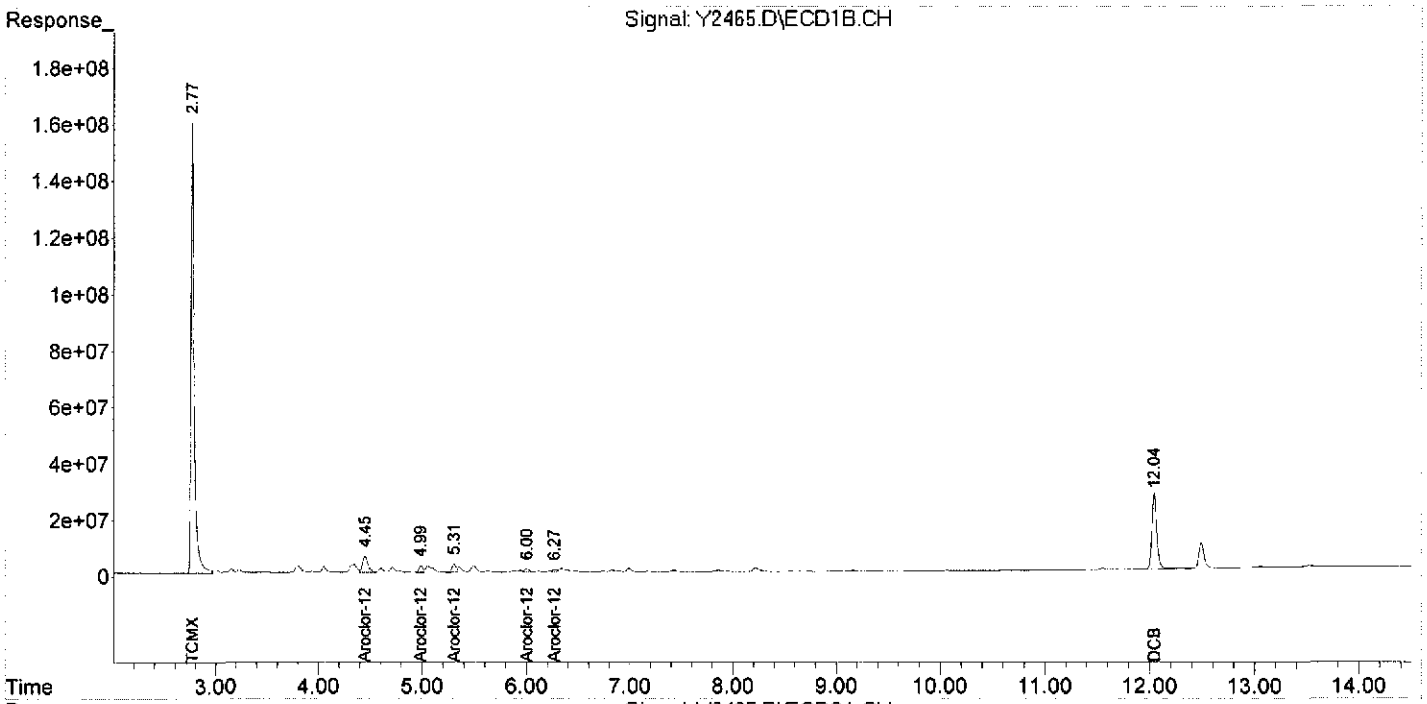
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

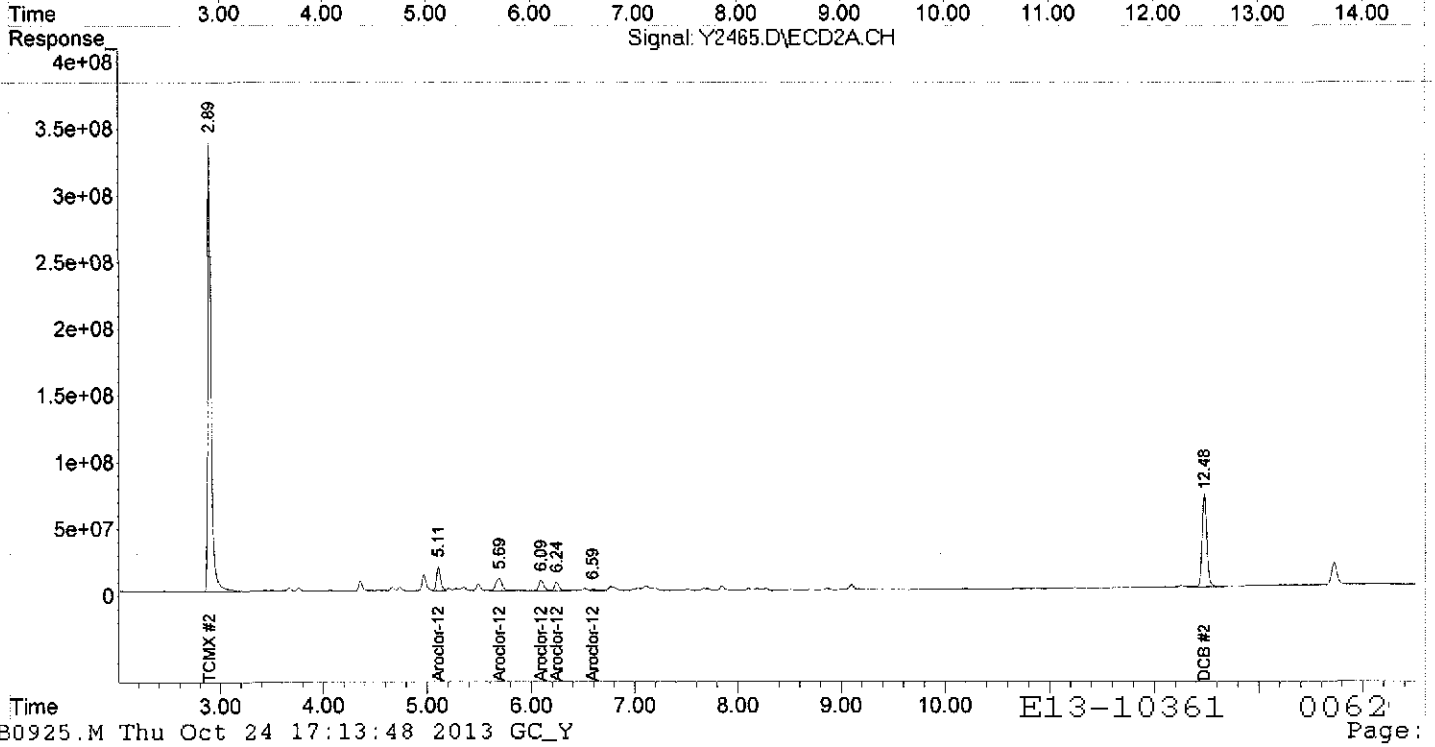
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2465.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 21:10
Operator : NG
Sample : Z-43_(4.,E13-10361-004,S,5.09g,24.5,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:29:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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\10-23-13\
Data File : Y2466.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 21:27
Operator : NG
Sample : X-47_(0-,E13-10361-005,S,5.38g,83.3,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:04:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	4441.8E6	9676.1E6	240.585	263.481
Spiked Amount 200.000			Recovery	=	120.29%	131.74%
2) S DCB	12.04	12.48	1088.9E6	2957.6E6	176.682	228.972 #
Spiked Amount 200.000			Recovery	=	88.34%	114.49%
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	4.45	5.11	337.4E6	715.9E6	314.600	298.716
24) L6 Aroclor-1248 {2}	4.99	5.69	286.2E6	1733.0E6	462.933	489.626
25) L6 Aroclor-1248 {3}	5.31	6.09	421.7E6	1508.4E6	530.161	591.353
26) L6 Aroclor-1248 {4}	6.00	6.25	681.6E6	927.9E6	539.526	416.092
27) L6 Aroclor-1248 {5}	6.27	6.59	488.1E6	466.3E6	488.852	360.098 #
Sum Aroclor-1248			2215.1E6	5351.5E6	2336.071	2155.886
Average Aroclor-1248					467.214	431.177
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

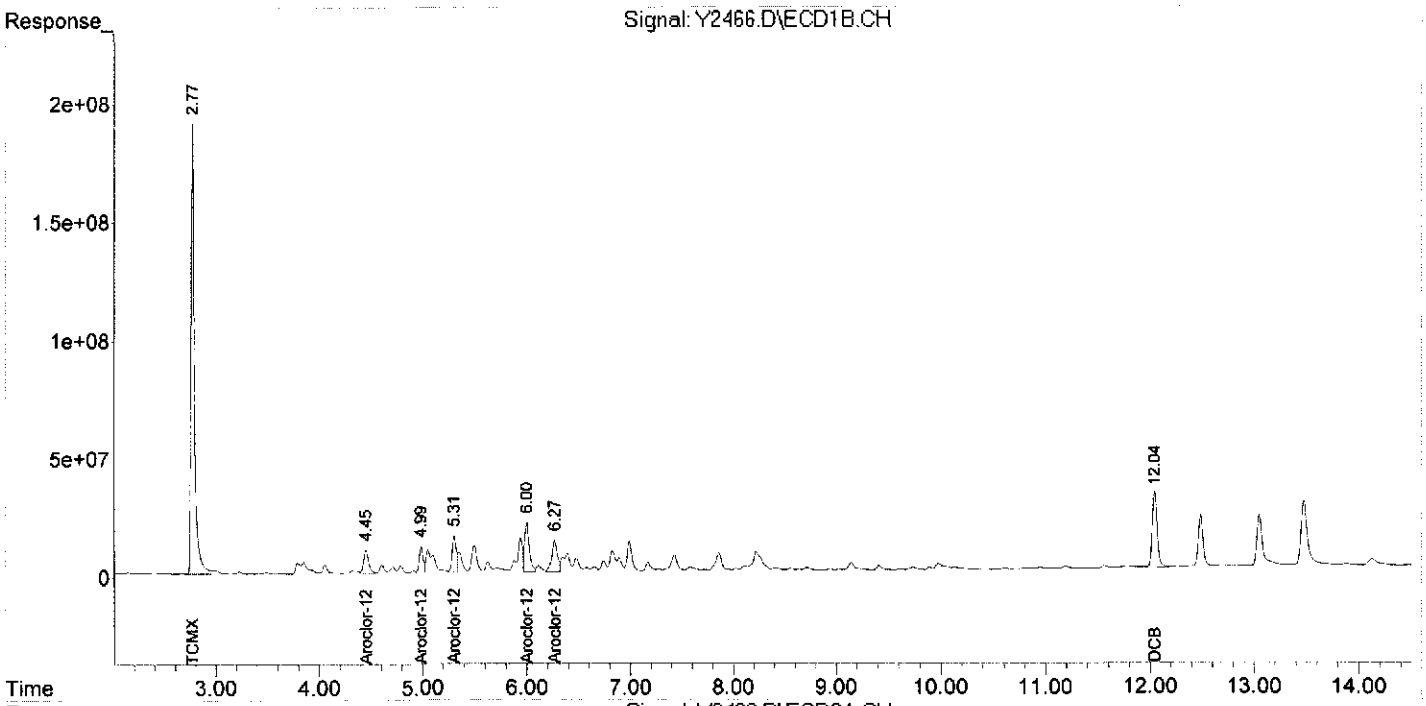
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

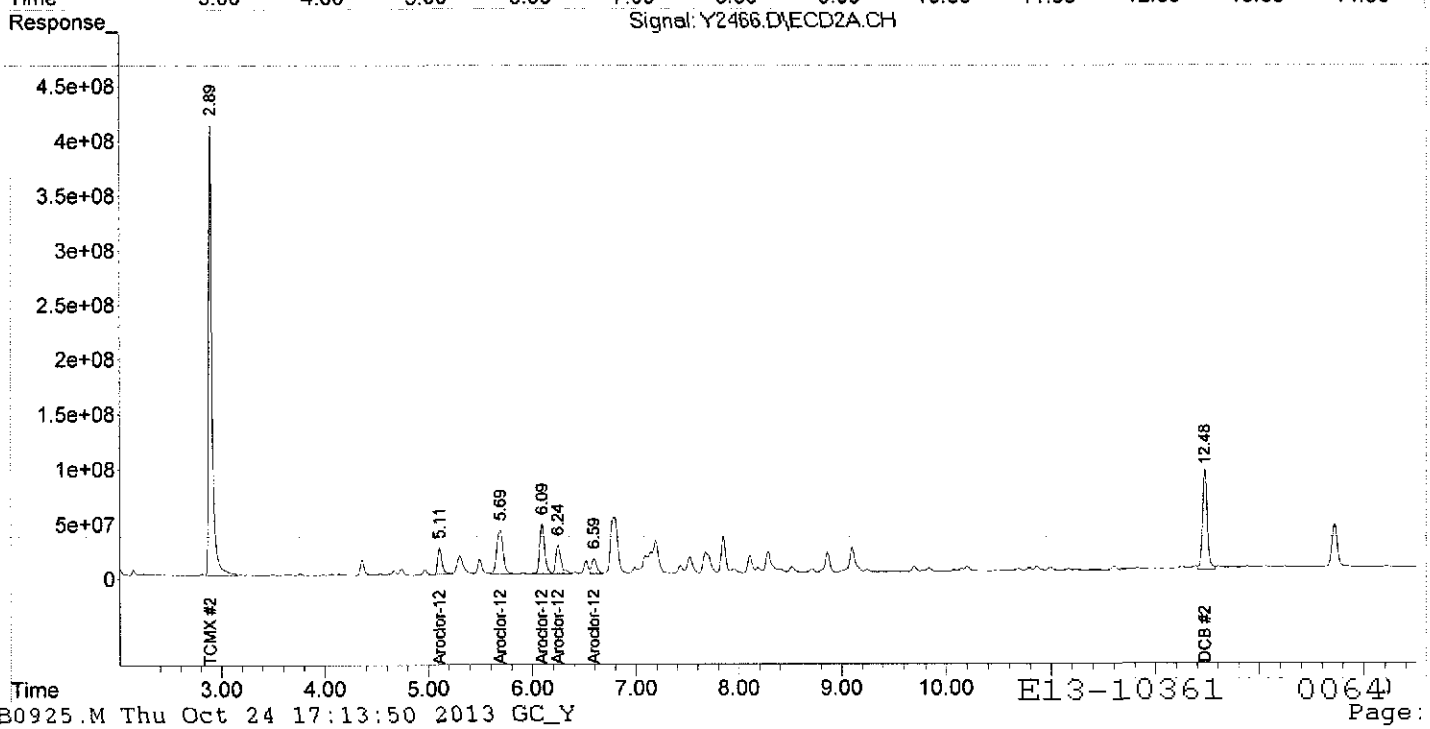
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2466.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 21:27
Operator : NG
Sample : X-47_(0-,E13-10361-005,S,5.38g,83.3,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:04:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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\10-23-13\
Data File : Y2467.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 22:02
Operator : NG
Sample : X-47_(1.,E13-10361-006,S,5.24g,85.2,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:29:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	4452.8E6	10033.9E6	241.183	273.222
Spiked Amount 200.000			Recovery	=	120.59%	136.61%
2) S DCB	12.04	12.48	1137.9E6	2930.6E6	184.630	226.887
Spiked Amount 200.000			Recovery	=	92.31%	113.44%
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	4.46	5.11	33372482	37072186	31.115	15.468 #
24) L6 Aroclor-1248 {2}	4.99	5.69	20751440	135.7E6	33.563	38.339
25) L6 Aroclor-1248 {3}	0.00	6.09	0	110.1E6	N.D. d	43.173 #
26) L6 Aroclor-1248 {4}	6.00	6.24	34997031	52685897	27.703	23.625
27) L6 Aroclor-1248 {5}	0.00	6.58	0	43816089	N.D. d	33.837 #
Sum Aroclor-1248			89120952	379.4E6	92.380	154.442
Average Aroclor-1248					30.793	30.888
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

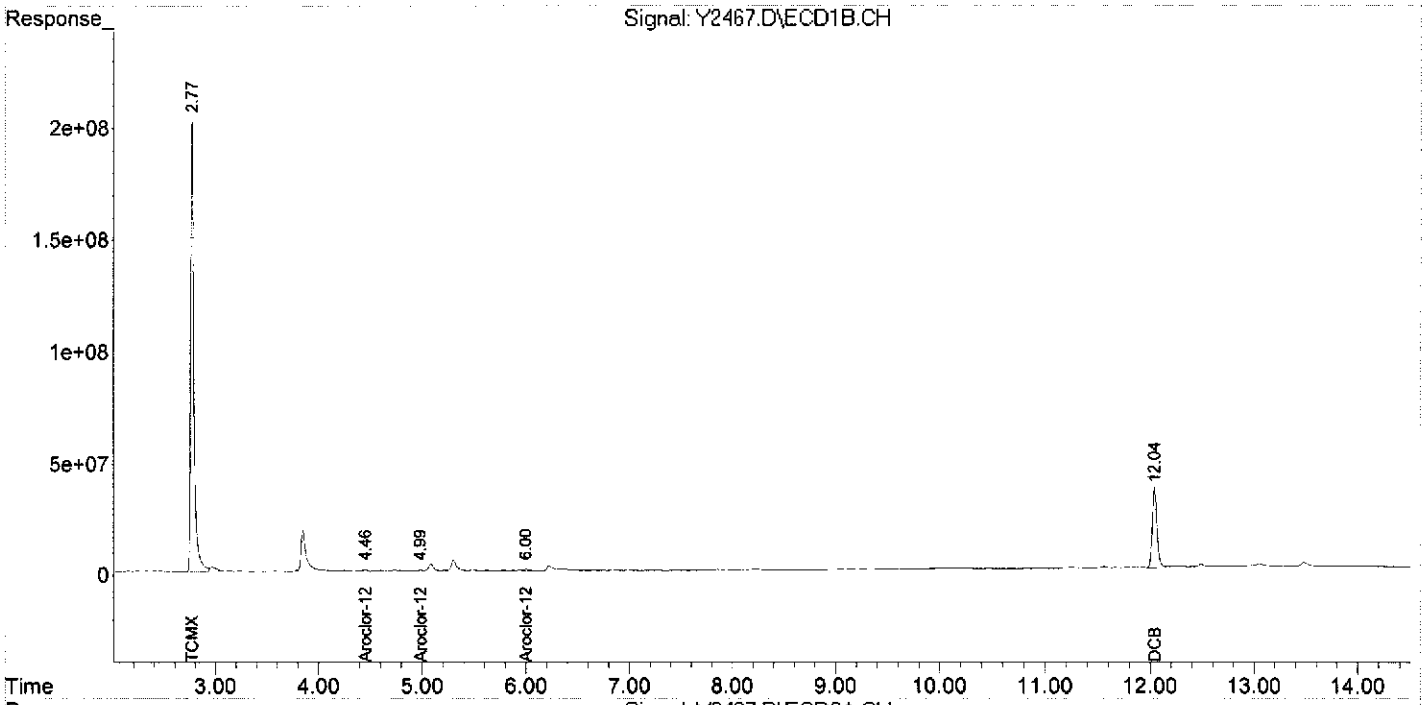
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

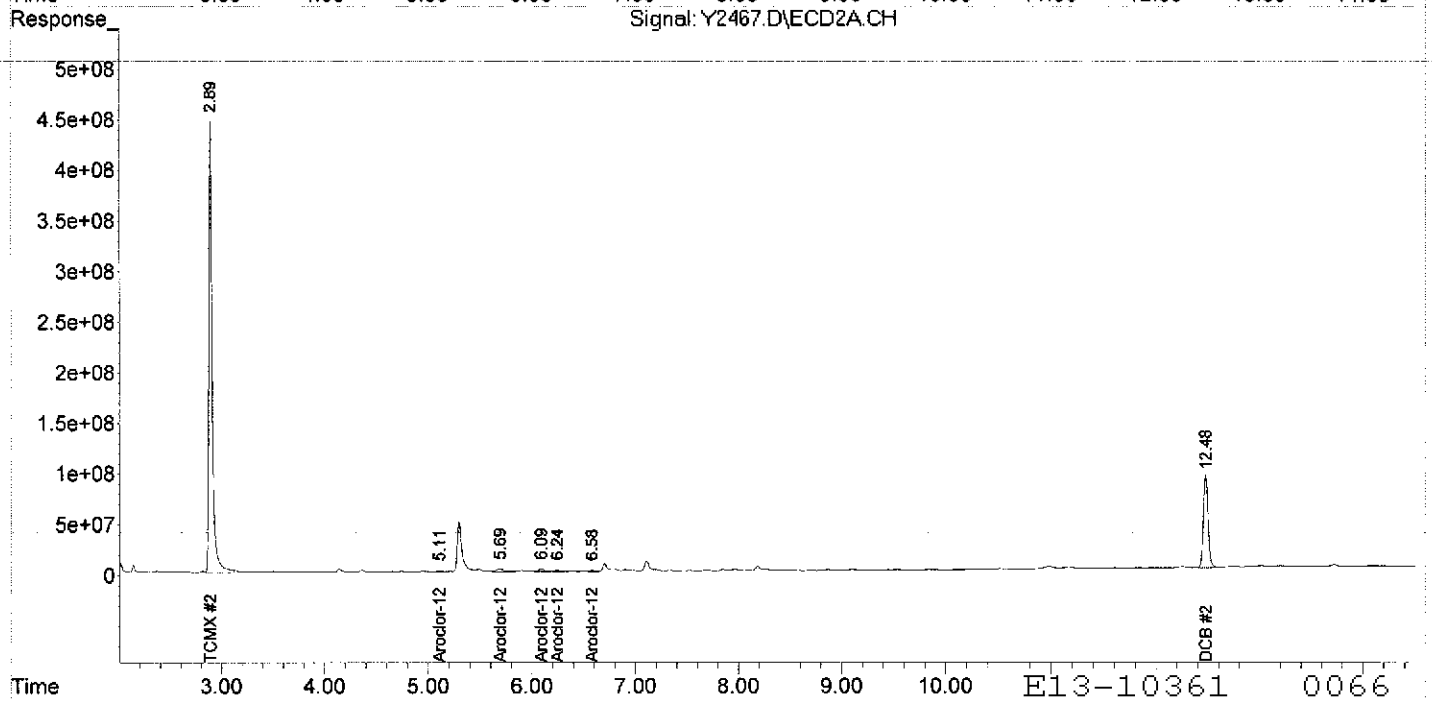
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2467.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 22:02
Operator : NG
Sample : X-47_(1.,E13-10361-006,S,5.24g,85.2,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:29:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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 :





E13-10361 0066

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2468.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 22:19
Operator : NG
Sample : W-48_(0-,E13-10361-007,S,5.08g,83.4,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:05:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	4291.7E6	9297.7E6	232.453	253.175
Spiked Amount 200.000			Recovery	=	116.23%	126.59%
2) S DCB	12.04	12.48	1075.9E6	2840.6E6	174.582	219.919 #
Spiked Amount 200.000			Recovery	=	87.29%	109.96%
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	4.45	5.11	354.9E6	763.8E6	330.896	318.685
24) L6 Aroclor-1248 {2}	4.99	5.69	267.1E6	1635.1E6	431.983	461.973
25) L6 Aroclor-1248 {3}	5.31	6.09	392.5E6	1419.8E6	493.417	556.618
26) L6 Aroclor-1248 {4}	6.00	6.24	648.0E6	853.2E6	512.971	382.577 #
27) L6 Aroclor-1248 {5}	6.27	6.59	484.7E6	479.1E6	485.451	369.990
Sum Aroclor-1248			2147.3E6	5151.0E6	2254.717	2089.843
Average Aroclor-1248					450.943	417.969
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

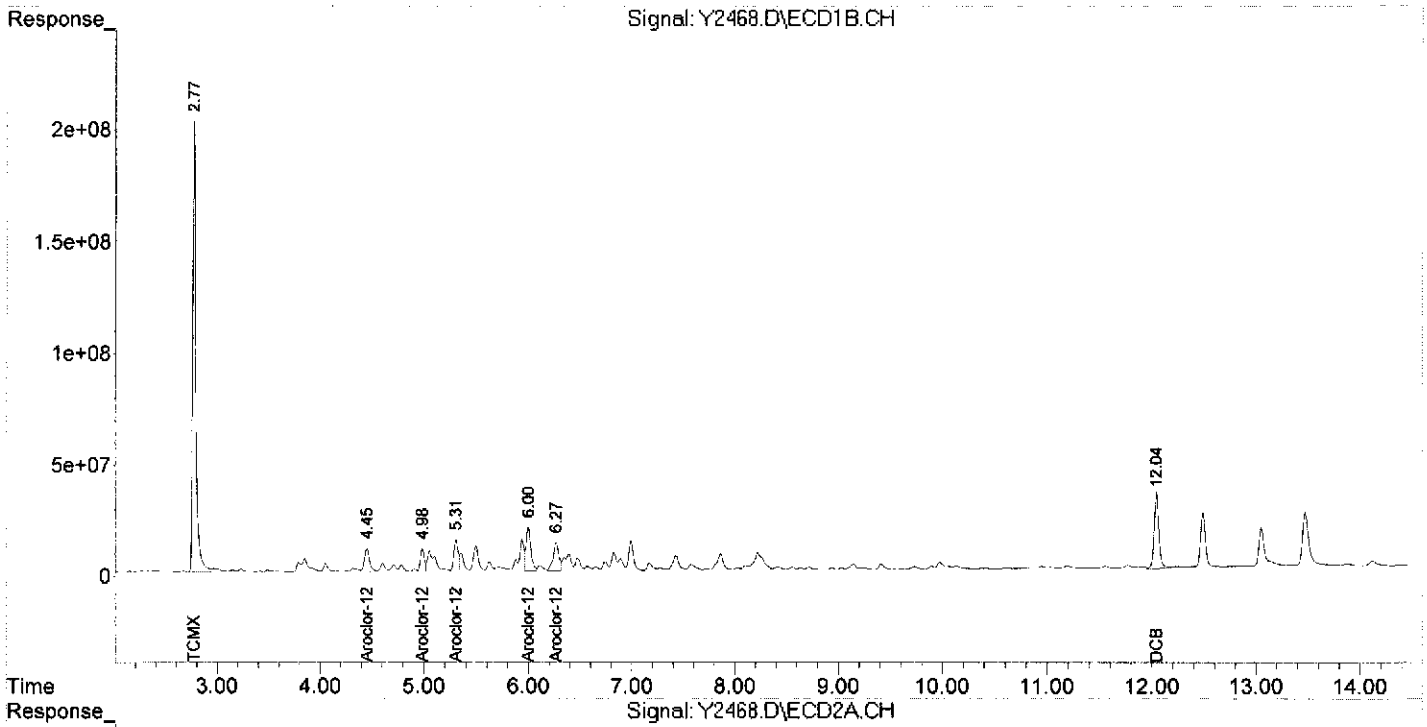
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

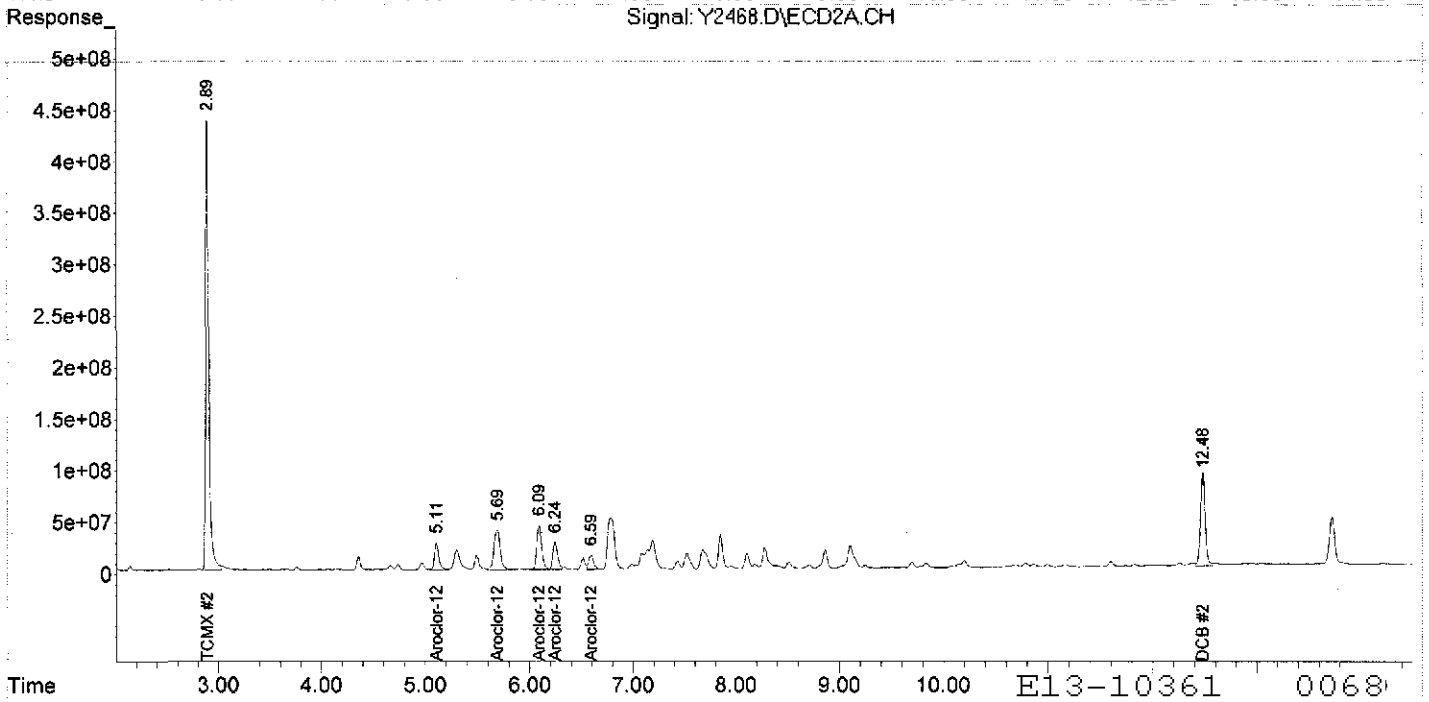
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2468.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 22:19
Operator : NG
Sample : W-48_(0-,E13-10361-007,S,5.08g,83.4,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:05:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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\10-23-13\
Data File : Y2469.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 22:54
Operator : NG
Sample : W-48_(1.,E13-10361-008,S,5.19g,76.0,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:31:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	4435.3E6	9802.1E6	240.231	266.910
Spiked Amount 200.000			Recovery	=	120.12%	133.46%
2) S DCB	12.04	12.48	1127.7E6	2769.8E6	182.974	214.433
Spiked Amount 200.000			Recovery	=	91.49%	107.22%
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	4.46	5.11	40992814	49271073	38.220	20.557 #
24) L6 Aroclor-1248 {2}	4.99	5.69	19609979	124.4E6	31.717	35.137m
25) L6 Aroclor-1248 {3}	0.00	6.09	0	84305019	N.D. d	33.051m#
26) L6 Aroclor-1248 {4}	6.00	6.25	37374976	54889151	29.585	24.613
27) L6 Aroclor-1248 {5}	0.00	6.58	0	68760733	N.D. d	53.100 #
Sum Aroclor-1248			97977769	381.6E6	99.521	166.459
Average Aroclor-1248					33.174	33.292
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

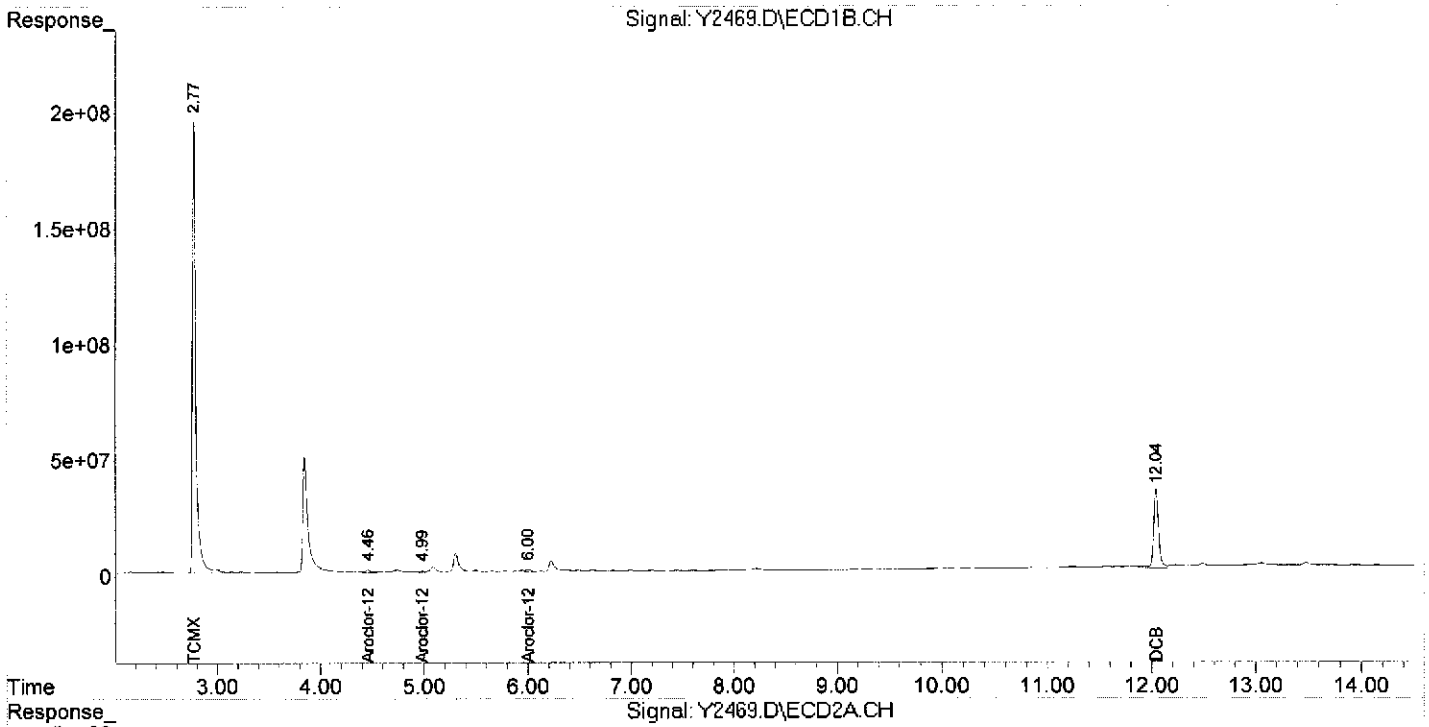
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

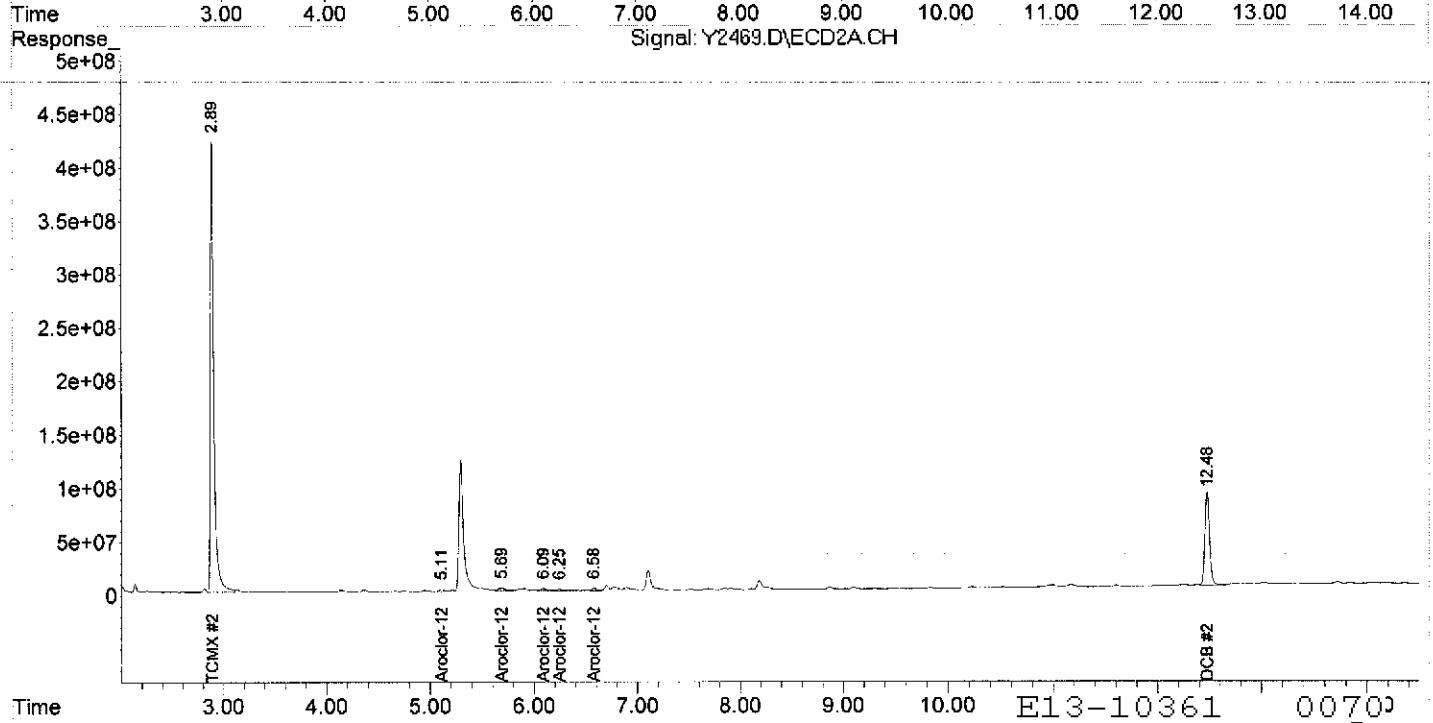
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2469.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 22:54
Operator : NG
Sample : W-48_(1.,E13-10361-008,S,5.19g,76.0,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:31:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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\10-23-13\
Data File : Y2470.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 23:11
Operator : NG
Sample : BB-43_(4,E13-10361-009,S,5.39g,19.8,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:09:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3560.2E6	7690.1E6	192.835	209.402
Spiked Amount 200.000			Recovery	=	96.42%	104.70%
2) S DCB	12.04	12.48	841.2E6	2263.0E6	136.496	175.197 #
Spiked Amount 200.000			Recovery	=	68.25%	87.60%
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
18) L5 Aroclor-1242	4.05	4.74	95979060	126.4E6	215.523	206.726
19) L5 Aroclor-1242 {2}	4.99	5.49	71249662	250.4E6	246.194	242.436
20) L5 Aroclor-1242 {3}	0.00	6.09	0	364.8E6	N.D. d	286.904 #
21) L5 Aroclor-1242 {4}	6.00	6.25	139.9E6	280.5E6	234.918	253.407
22) L5 Aroclor-1242 {5}	6.25	6.79	122.8E6	498.5E6	233.800m	228.232
Sum Aroclor-1242			430.0E6	1520.6E6	930.435	1217.705
Average Aroclor-1242					232.609	243.541
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

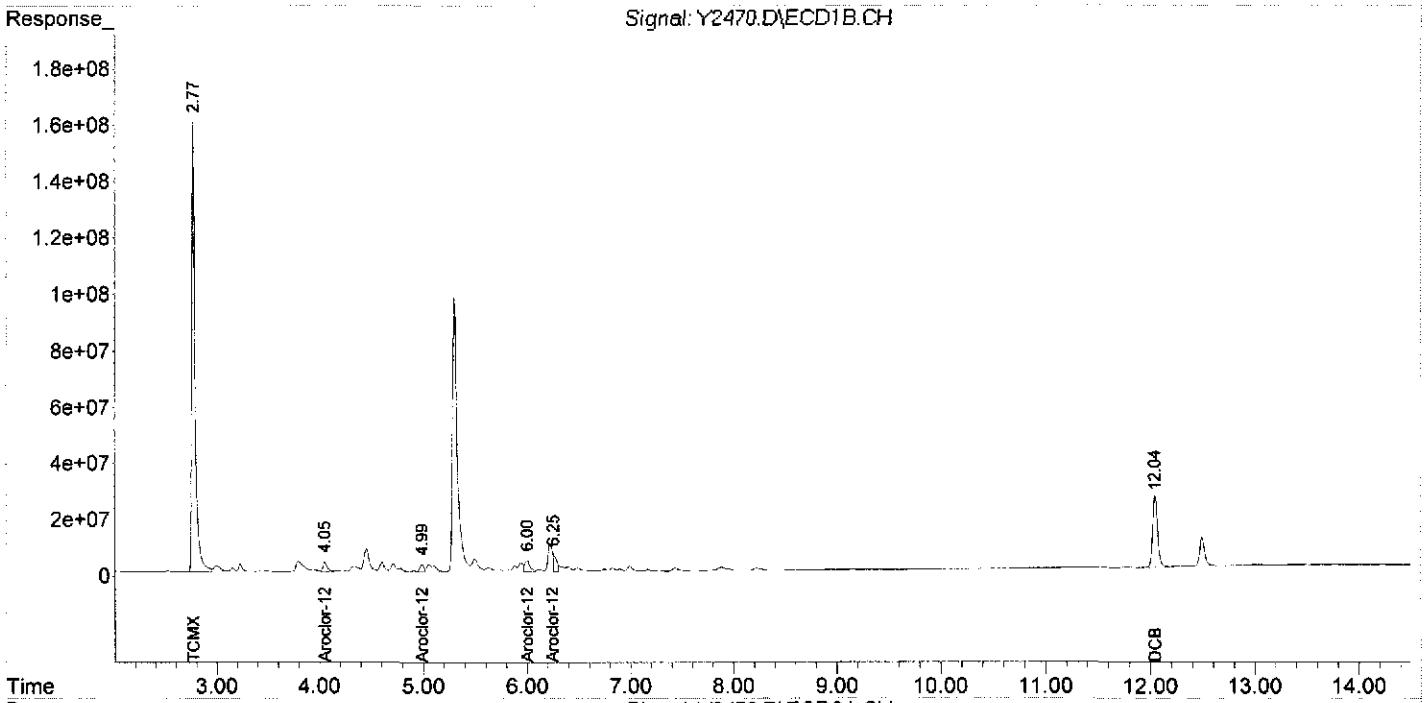
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

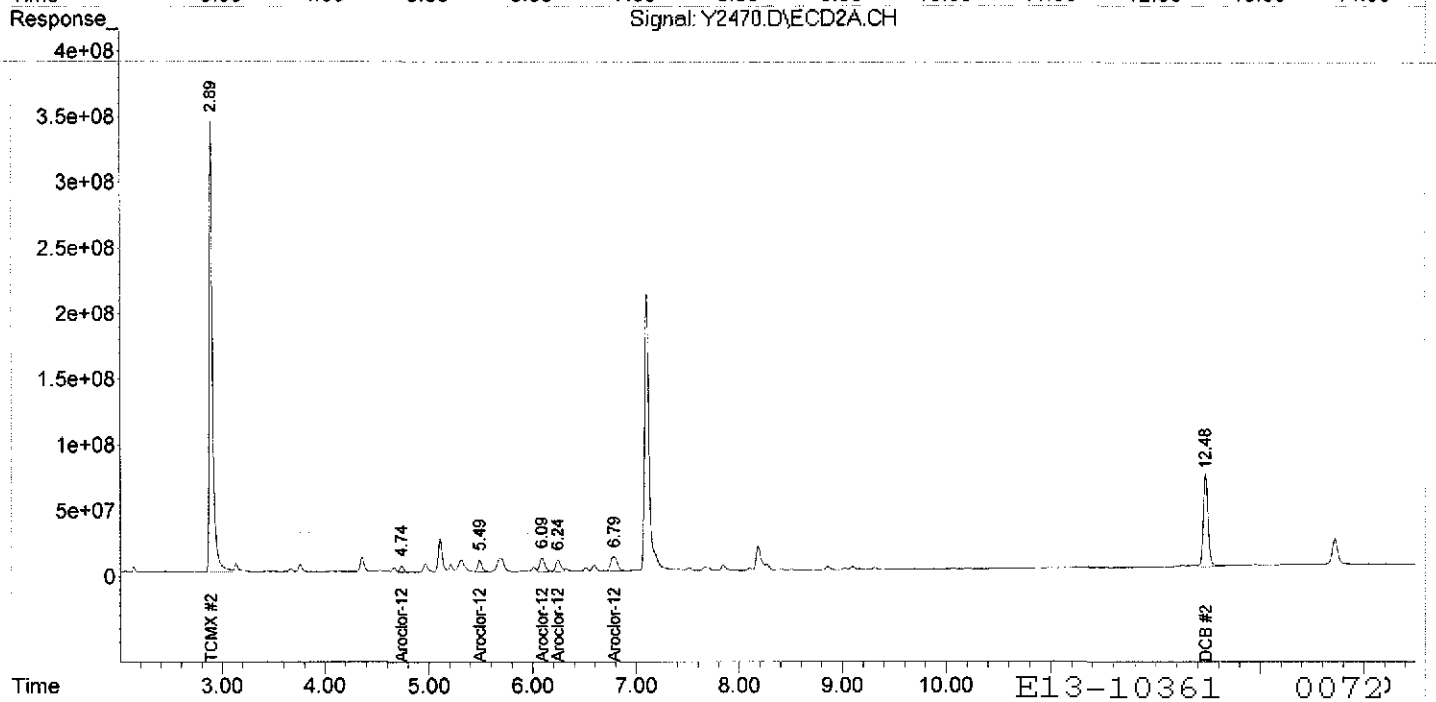
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2470.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 23:11
Operator : NG
Sample : BB-43_(4,E13-10361-009,S,5.39g,19.8,20
Misc : 131023-05,10/23/13,10/17/13,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 16:09:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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 :





E13-10361 0072

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : R4959.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 15:51
Operator : NG
Sample : FB-24,E13-10361-010,A,1000ml,100,5
Misc : 131023-07,10/23/13,10/17/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 23 16:56:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M
Quant Title :
QLast Update : Fri Oct 18 14:06:50 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	2.75	2.57	2264.5E6	4229.1E6	187.685	161.052
Spiked Amount 200.000			Recovery	=	93.84%	80.53%
2) S DCB	12.09	11.94	571.7E6	891.0E6	144.929	107.553 #
Spiked Amount 200.000			Recovery	=	72.46%	53.78%
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

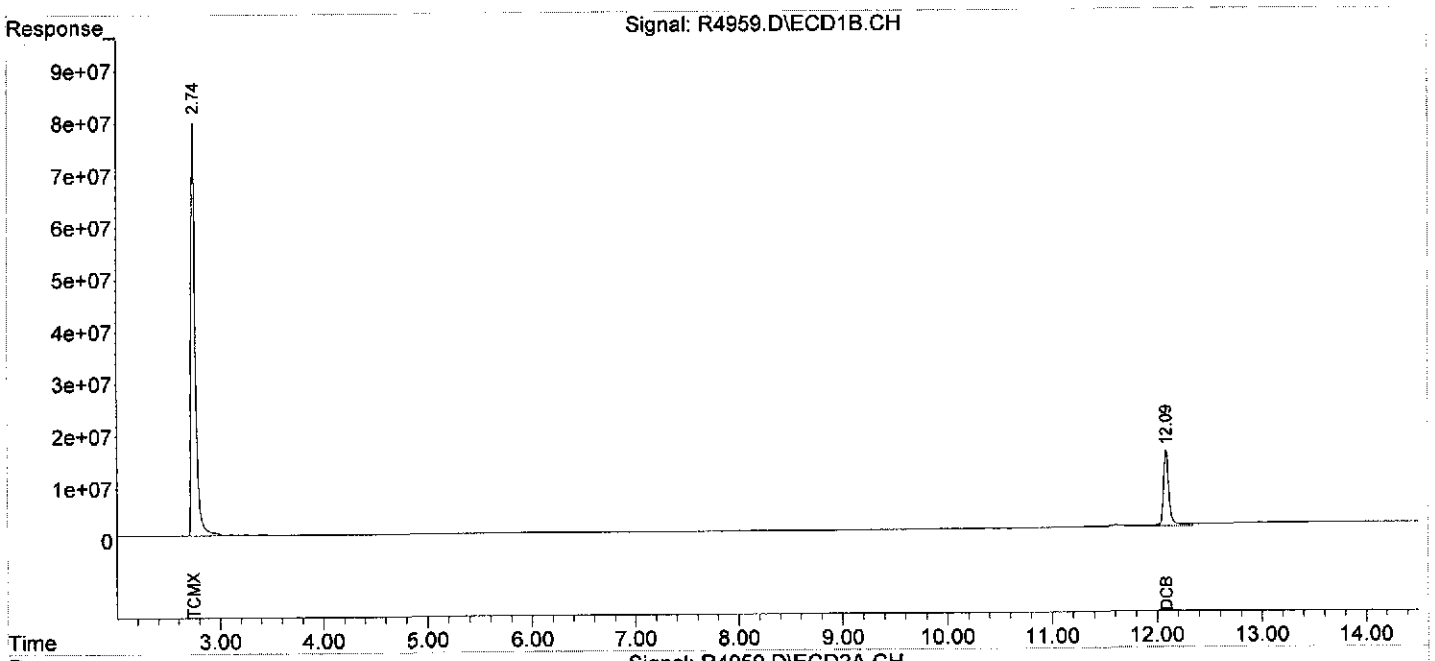
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

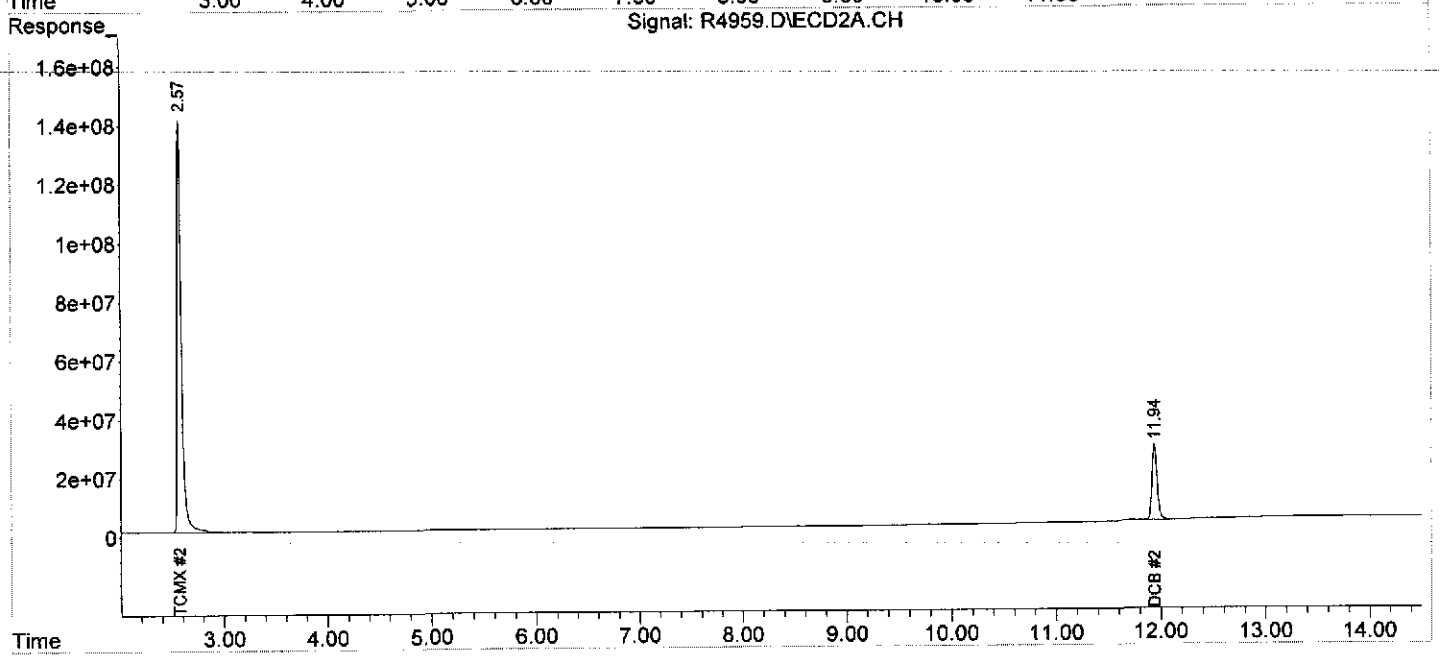
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : R4959.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 15:51
Operator : NG
Sample : FB-24,E13-10361-010,A,1000ml,100,5
Misc : 131023-07,10/23/13,10/17/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 23 16:56:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M
Quant Title :
QLast Update : Fri Oct 18 14:06:50 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: BLKS131023-05
Client ID: PCB
Date Received: NA
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: Y2449.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.00g
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

E13-10361 0075

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2449.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 15:28
Operator : NG
Sample : PCB,BLKS131023-05;S,5.00g,0,20
Misc : NA,NA,NA,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 15:40:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3371.7E6	7021.5E6	182.624	191.196
Spiked Amount 200.000			Recovery	=	91.31%	95.60%
2) S DCB	12.04	12.48	818.7E6	2014.0E6	132.835	155.921
Spiked Amount 200.000			Recovery	=	66.42%	77.96%
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

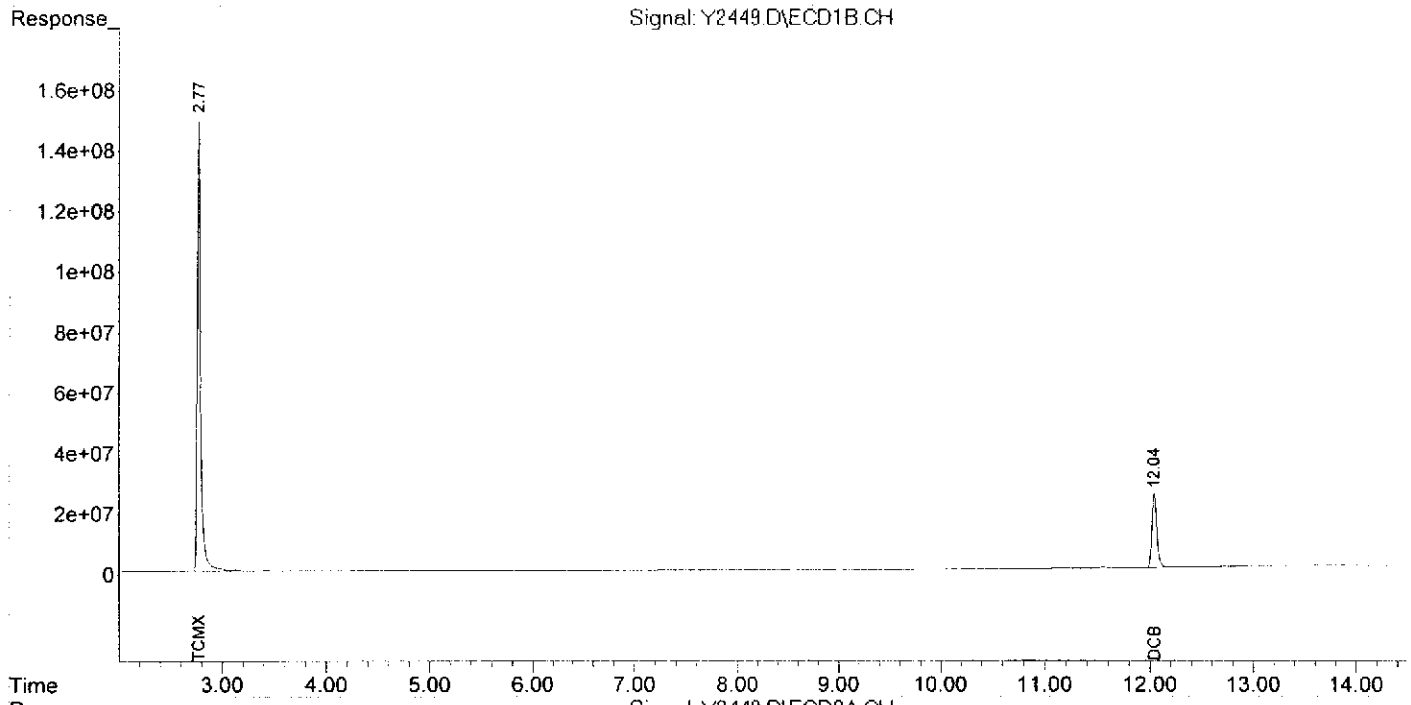
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

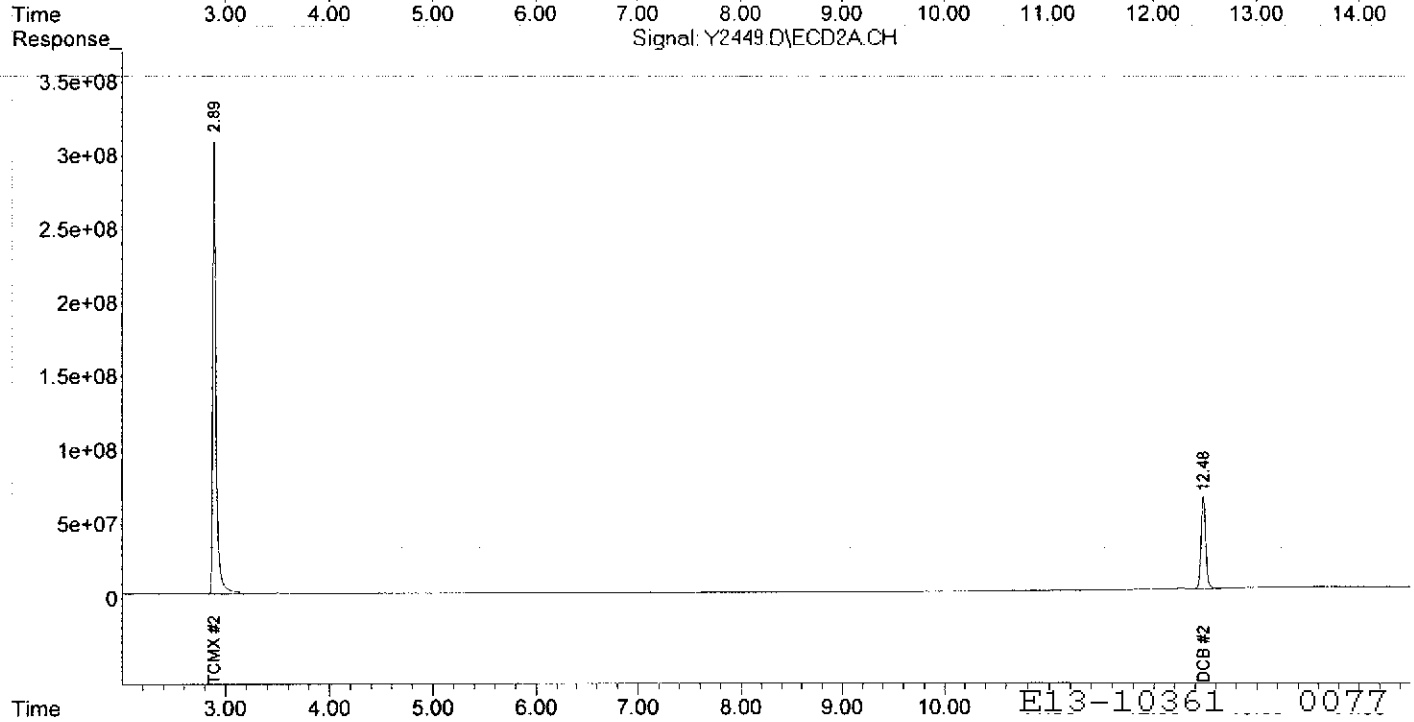
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : Y2449.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 15:28
Operator : NG
Sample : PCB,BLKS131023-05,S,5.00g,0,20
Misc : NA,NA,NA,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 24 15:40:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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 :





E13-10361 0077

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKA131021-17
Client ID: PCB
Date Received: NA
Date Extracted: 10/21/2013
Date Analyzed: 10/22/2013
Data file: Y2409.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 & great than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\
Data File : Y2409.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 Oct 2013 21:25
Operator : NG
Sample : PCB,BLKA131021-17,A,1000ml,100,5
Misc : NA,NA,NA,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 23 10:27:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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	2.89	3254.0E6	6959.8E6	176.250	189.516
Spiked Amount 200.000			Recovery	=	88.13%	94.76%
2) S DCB	12.04	12.48	976.4E6	2314.3E6	158.429	179.170
Spiked Amount 200.000			Recovery	=	79.21%	89.58%
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

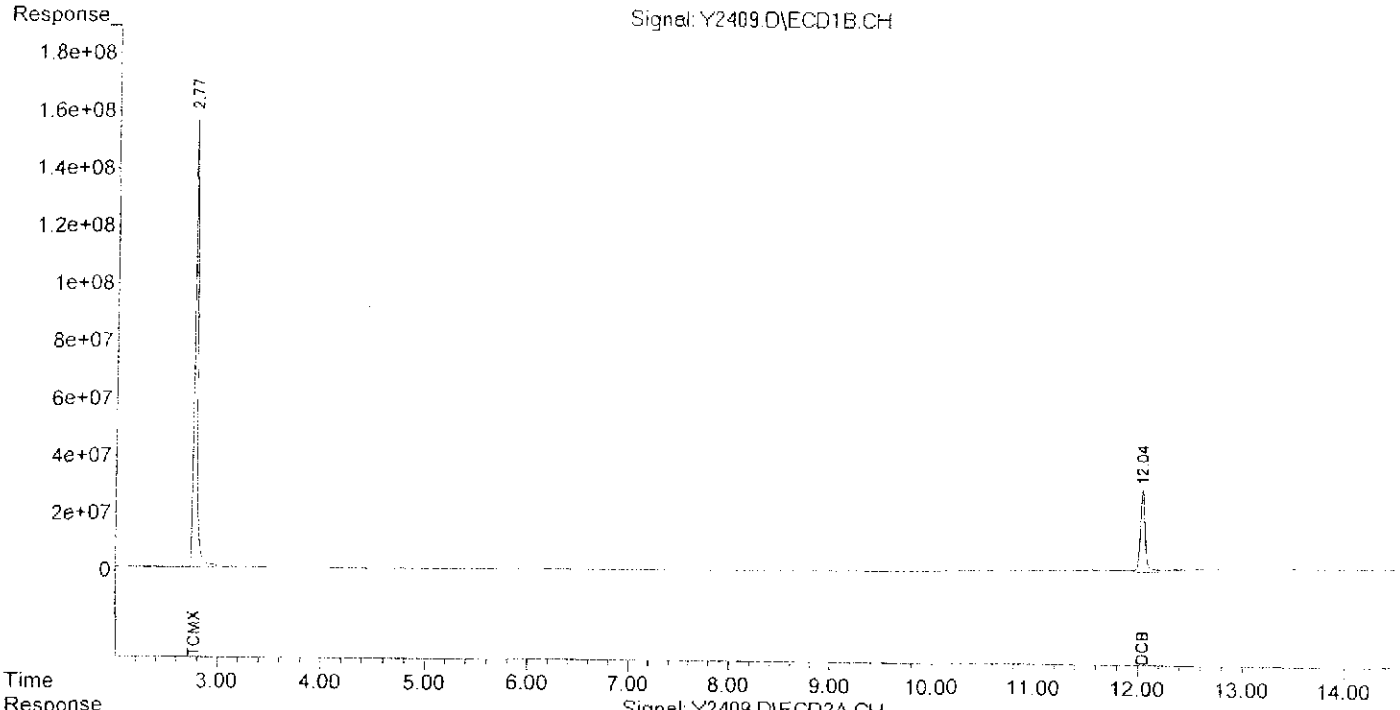
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

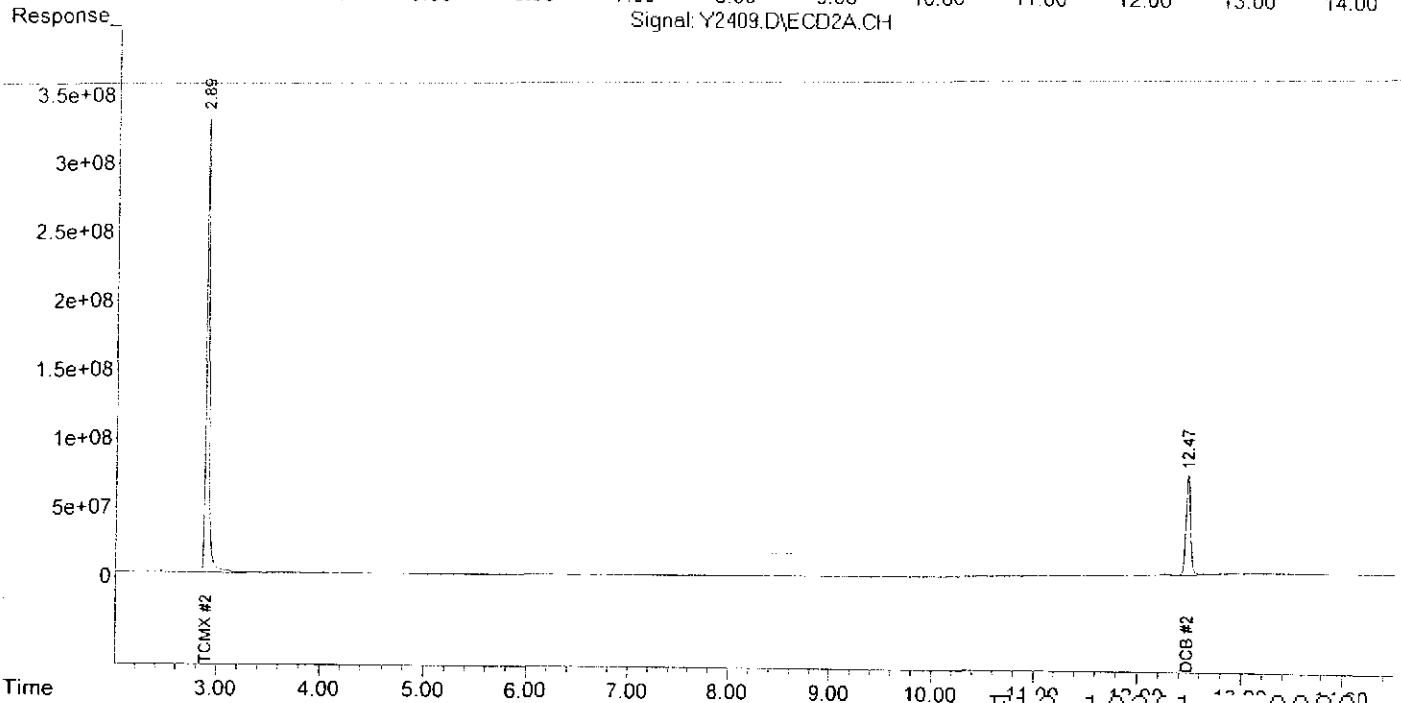
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\
Data File : Y2409.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 22 Oct 2013 21:25
Operator : NG
Sample : PCB,BLKA131021-17,A,1000ml,100,5
Misc : NA,NA,NA,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 23 10:27:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 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: BLKA131023-07
Client ID: PCB
Date Received: NA
Date Extracted: 10/23/2013
Date Analyzed: 10/23/2013
Data file: R4953.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 & great than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\
Data File : R4953.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 13:58
Operator : NG
Sample : PCB,BLKA131023-07,A,1000ml,100,S
Misc : NA,NA,NA,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 23 15:24:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M
Quant Title :
QLast Update : Fri Oct 18 14:06:50 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	2.57	2398.6E6	4582.8E6	198.795	174.521
Spiked Amount 200.000			Recovery	=	99.40%	87.26%
2) S DCB	12.09	11.95	620.6E6	1029.4E6	157.343	124.265
Spiked Amount 200.000			Recovery	=	78.67%	62.13%
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\10-23-13\
Data File : R4953.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 23 Oct 2013 13:58
Operator : NG
Sample : PCB,BLKA131023-07,A,1000ml,100,5
Misc : NA,NA,NA,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 23 15:24:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1018.M
Quant Title :
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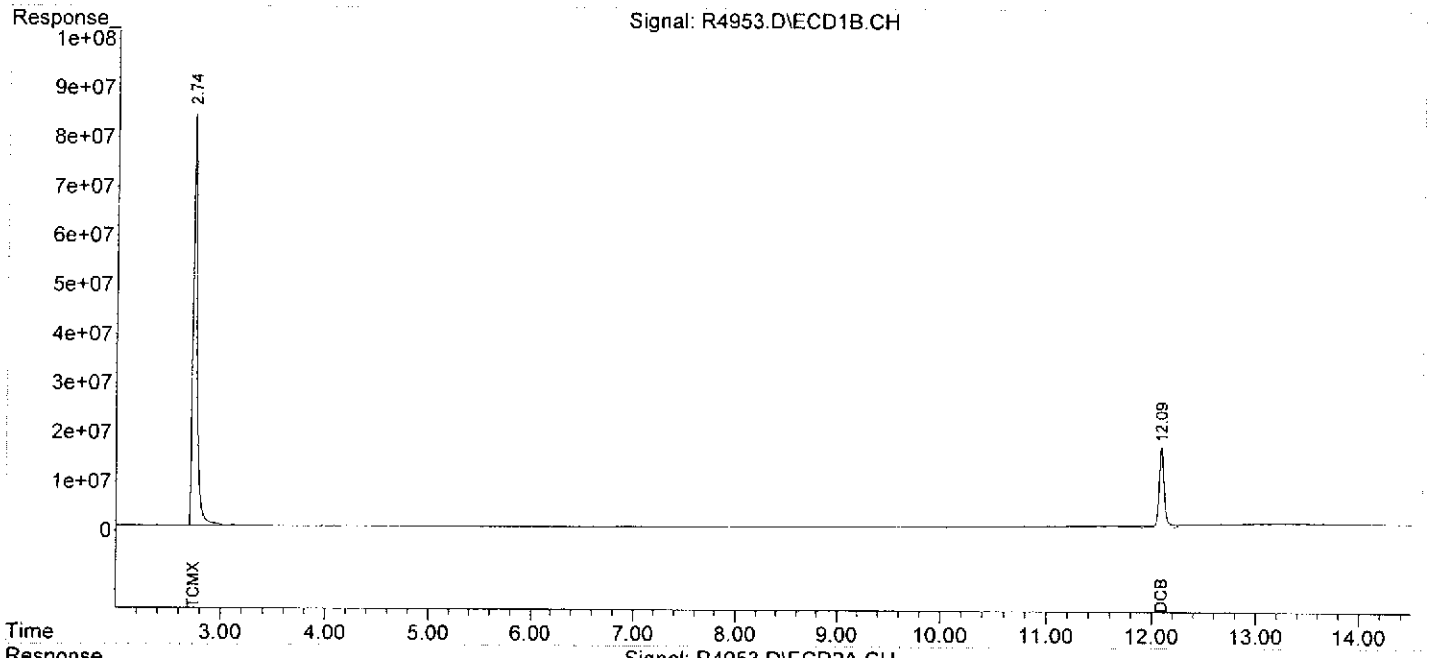
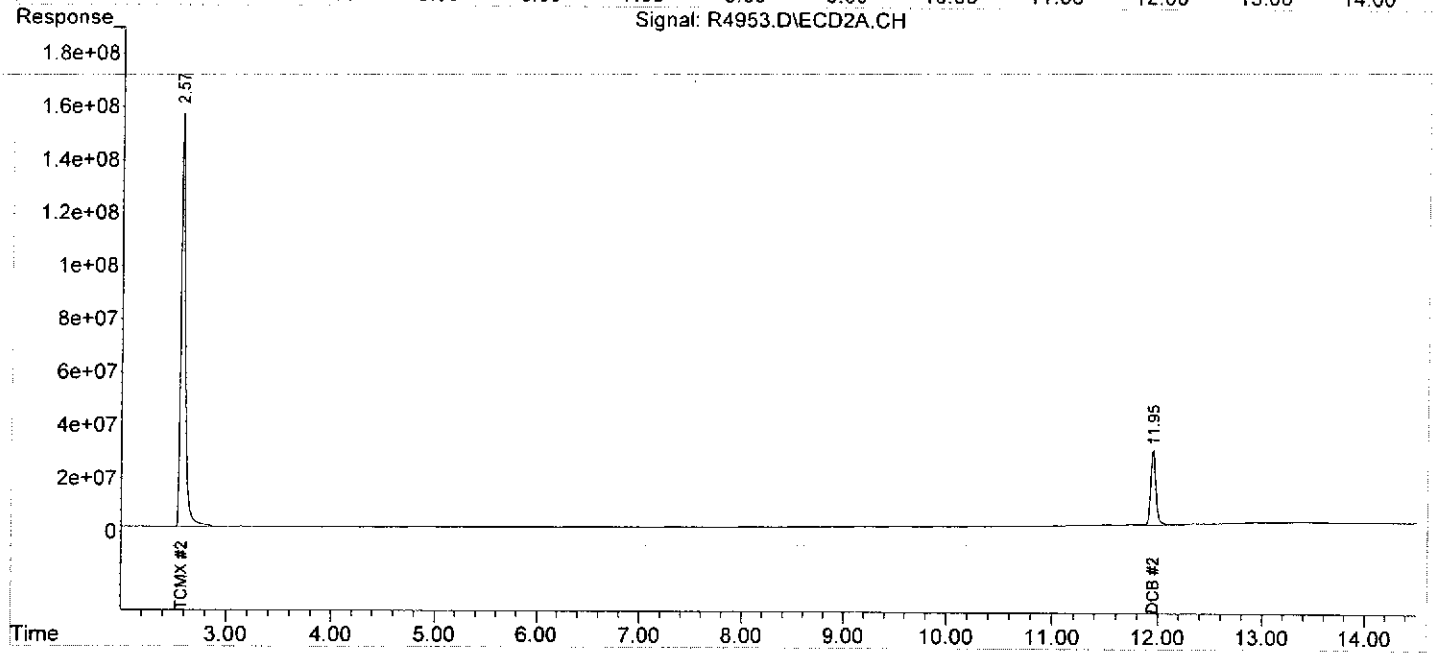
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





SAMPLE TRACKING

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 Cito	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 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

SAMPLE INFORMATION

ANALYTICAL PARAMETERS / **# BOTTLES & PRESERVATIVES**

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCL PCB (8082)	HCL	HNO3	MeOH	H2SO4	NAOH/ZNAc	Sterile
X-44N (3.0-4.0)		10/17/13	11:55	S	1	1	x						
Z-43N(1) (5.0-6.0)			12:15	S	1	2	x						
Y-43S (6.0-7.0)			12:43	S	1	3	x						
Z-43 (4.0-5.0)			1:05	S	1	4	x						
X-47 (0-1.0)			1:53	S	1	5	x						
X-47 (1.0-2.0)			1:54	S	1	6	x						
W-48 (0-1.0)			2:25	S	1	7	x						
W-48 (1.0-2.0)			2:26	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 by:	[illegible]	10/17/13		Received by:	[illegible]	10-17-13	1615
Relinquished by:	[illegible]	10-17-13	1800	Received by:	[illegible]	10/17/13	1815
Relinquished by:				Received by:			
Relinquished by:				Received by:			
Relinquished by:				Received by:			

Comments:

Lab Case # 10361

PAGE: 1 of 2

LAB COPY - WHITE & YELLOW; CLIENT COPY - PINK

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)	HCL	HNO3	MeOH	H2SO4	NAOH/ZNAc	Sterile
BB-43(4.0-5.0)		10/17/13	2:55	S	1	9	X						
FB-24		10/17/13	3:15	aq	2	10	X						
							X						
							X						
							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 by:	[illegible]	10/17/13		Received by:	[illegible]	10-17-13	1615
Relinquished by:	[illegible]	10/17/13	1815	Received by:	[illegible]	10/17/13	1815
Relinquished by:				Received by:			
Relinquished by:				Received by:			
Relinquished by:				Received by:			

Comments:

Lab Case # 10361

PAGE: 2 of 2

LAB COPY - WHITE & YELLOW; CLIENT COPY - PINK

IAL
Integrated Analytical Laboratories LLC

PROJECT INFORMATION

E13-10361: 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	22126	Oct 17, 2013 @ 18:15	NA	Nov 01, 2013	Nov 08, 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
10361-001	X-44N (3.0-4.0)	3/4	10/17/13@11:55	Soil	mg/Kg (ppm)	
10361-002	Z-43N(1) (5.0-6.0)	5/6	10/17/13@12:15	Soil	mg/Kg (ppm)	
10361-003	Y-43S (6.0-7.0)	6/7	10/17/13@12:43	Soil	mg/Kg (ppm)	
10361-004	Z-43 (4.0-5.0)	4/5	10/17/13@13:05	Soil	mg/Kg (ppm)	
10361-005	X-47 (0-1.0)	0/1	10/17/13@13:53	Soil	mg/Kg (ppm)	
10361-006	X-47 (1.0-2.0)	1/2	10/17/13@13:54	Soil	mg/Kg (ppm)	
10361-007	W-48 (0-1.0)	0/1	10/17/13@14:25	Soil	mg/Kg (ppm)	
10361-008	W-48 (1.0-2.0)	1/2	10/17/13@14:26	Soil	mg/Kg (ppm)	
10361-009	BB-43 (4.0-5.0)	4/5	10/17/13@14:55	Soil	mg/Kg (ppm)	
10361-010	FB-24	NA	10/17/13@15:15	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
006	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
008	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
009	TCL PCB	Analyze	8082A	STD/2 WKS	10/31/2013
010	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013

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

IAL is a NELAP New Jersey Accredited Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Pennsylvania (68-00773)

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: **E 13** **10361** CLIENT: JMC

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

COC: (COMPLETE) / INCOMPLETE

Comments

KEY

✓ **= YES/NA**
✗ **= NO**

VOA received: (check one) ☐ Encore ☐ Terra Core ☐ IGW - Methanol ☐ 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 [illegible] DATE 10/10/13

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 [illegible] DATE 10/24/12

Laboratory Custody Chronicle

IAL Case No.

E13-10361

Client JMC Environmental Consultants

Project ARSYNCO

Received On 10/17/2013@18:15

Department: GC			***Prep. Date***	***Analyst***	***Analysis Date***	***Analyst***
TCL PCB	10361-001	Soil	10/23/13	Archimede	10/23/13	Justyna
"	-002	"	10/23/13	Archimede	10/23/13	Justyna
"	-003	"	10/23/13	Archimede	10/23/13	Justyna
"	-004	"	10/23/13	Archimede	10/23/13	Justyna
"	-005	"	10/23/13	Archimede	10/23/13	Justyna
"	-006	"	10/23/13	Archimede	10/23/13	Justyna
"	-007	"	10/23/13	Archimede	10/23/13	Justyna
"	-008	"	10/23/13	Archimede	10/23/13	Justyna
"	-009	"	10/23/13	Archimede	10/23/13	Justyna
"	-010	Aqueous	10/23/13	Archimede	10/23/13	Justyna

Integrated Analytical Labs ~ 273 Franklin Road, Randolph, NJ 07869 ~ (973) 361-4252 ~ Fax (973) 989-5288