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: **E13-09441**

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.

E13-09441

Client JMC Environmental Consultants

Project ARSYNCO

Received On 9/25/2013@16:10

Lab ID	Client Sample ID	Depth Top/Bottom	Sampling Time	Matrix	# of Container
09441-001	R-49(0-1.0)	0/1.0	9/25/2013@11:25	Soil	1
09441-002	R-49(1.0-2.0)	1.0/2.0	9/25/2013@11:26	Soil	1
09441-003	R-48R(0-1.0)	0/1.0	9/25/2013@11:45	Soil	1
09441-004	R-48R(1.0-2.0)	1.0/2.0	9/25/2013@11:46	Soil	1
09441-005	S-49(0-1.0)	0/1.0	9/25/2013@12:00	Soil	1
09441-006	S-49(1.0-2.0)	1.0/2.0	9/25/2013@12:01	Soil	1
09441-007	S-48(0-1.0)	0/1.0	9/25/2013@12:15	Soil	1
09441-008	S-48(1.0-2.0)	1.0/2.0	9/25/2013@12:16	Soil	1
09441-009	U-45N(2)(5.0-6.0)	5.0/6.0	9/25/2013@13:30	Soil	1
09441-010	V-44N(4.0-5.0)	4.0/5.0	9/25/2013@13:50	Soil	1
09441-011	V-44N(5.0-6.0)	5.0/6.0	9/25/2013@13:51	Soil	1
09441-012	FB-11	n/a	9/25/2013@14:35	Aqueous	2

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on October 09, 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 Indicated analyte was reported from diluted analysis.

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

J Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL.

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 eleven (11) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-09441, Project: ARSYNCO) on September 25, 2013 for the analysis of:

(12) 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

10/8/13
Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-09441

PCB By 8082A

Batch ID: 130930-19	**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: 012
- The following samples were cleaned up using method 3665A: 012

E13-09441

- 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 012.

10/2/2013

Signature Date

E13-09441 0004

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-09441

PCB By 8082A

Batch ID: 131001-07	**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, 010, 011

E13-09441

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- Sample 09441 -003 was run with 2x dilution due to a high concentration of the target compound. No dilution was performed for samples -001, -002 and -004 through -011.

10/3/2013

Signature Date

E13-09441 0005

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-09441

Lab ID:	**09441-012**		
Client ID:	**FB-11**		
Matrix:	**Aqueous**		
Sampled Date	**9/25/13**		
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		0.00002

Lab ID:	**09441-001**			**09441-002**			**09441-003**			**09441-004**		
Client ID:	**R-49(0-1.0)**			**R-49(1.0-2.0)**			**R-48R(0-1.0)**			**R-48R(1.0-2.0)**		
Depth:	**0/1.0**			**1.0/2.0**			**0/1.0**			**1.0/2.0**		
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**		
Sampled Date	**9/25/13**			**9/25/13**			**9/25/13**			**9/25/13**		
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		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1221	ND		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1232	ND		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1242	ND		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1248	2.57		0.046	ND		0.019	23.3	D	0.110	ND		0.068
Aroclor-1254	ND		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1260	ND		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1262	ND		0.046	ND		0.019	ND		0.110	ND		0.068
Aroclor-1268	ND		0.046	ND		0.019	ND		0.110	ND		0.068
PCBs	2.57		0.046	ND		0.019	23.3	D	0.110	ND		0.068

Lab ID:	**09441-005**			**09441-006**			**09441-007**			**09441-008**		
Client ID:	**S-49(0-1.0)**			**S-49(1.0-2.0)**			**S-48(0-1.0)**			**S-48(1.0-2.0)**		
Depth:	**0/1.0**			**1.0/2.0**			**0/1.0**			**1.0/2.0**		
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**		
Sampled Date	**9/25/13**			**9/25/13**			**9/25/13**			**9/25/13**		
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		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1221	ND		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1232	ND		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1242	ND		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1248	1.75		0.039	0.127		0.043	4.90		0.052	1.04		0.090
Aroclor-1254	ND		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1260	ND		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1262	ND		0.039	ND		0.043	ND		0.052	ND		0.090
Aroclor-1268	ND		0.039	ND		0.043	ND		0.052	ND		0.090
PCBs	1.75		0.039	0.127		0.043	4.90		0.052	1.04		0.090

ND = Analyzed for but Not Detected at the MDL
D = The compound was reported from the Diluted analysis

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-09441

Lab ID:	**09441-009**			**09441-010**			**09441-011**		
Client ID:	**U-45N(2)(5.0-6.0)**			**V-44N(4.0-5.0)**			**V-44N(5.0-6.0)**		
Depth:	**5.0/6.0**			**4.0/5.0**			**5.0/6.0**		
Matrix:	**Soil**			**Soil**			**Soil**		
Sampled Date	**9/25/13**			**9/25/13**			**9/25/13**		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's *(Units)*	***(mg/Kg-ppm)***			***(mg/Kg-ppm)***			***(mg/Kg-ppm)***		
Aroclor-1016	ND		0.017	ND		0.020	ND		0.019
Aroclor-1221	ND		0.017	ND		0.020	ND		0.019
Aroclor-1232	ND		0.017	ND		0.020	ND		0.019
Aroclor-1242	ND		0.017	ND		0.020	ND		0.019
Aroclor-1248	ND		0.017	0.030	J	0.020	0.027	J	0.019
Aroclor-1254	0.028	J	0.017	ND		0.020	ND		0.019
Aroclor-1260	0.049		0.017	0.023	J	0.020	ND		0.019
Aroclor-1262	ND		0.017	ND		0.020	ND		0.019
Aroclor-1268	ND		0.017	ND		0.020	ND		0.019
PCBs	0.078	J	0.017	0.053	J	0.020	0.027	J	0.019

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

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-001
Client ID: R-49(0-1.0
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1941.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.84g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 70.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.115	0.046
Aroclor-1221	ND		0.115	0.046
Aroclor-1232	ND		0.115	0.046
Aroclor-1242	ND		0.115	0.046
Aroclor-1248	2.57		0.115	0.046
Aroclor-1254	ND		0.115	0.046
Aroclor-1260	ND		0.115	0.046
Aroclor-1262	ND		0.115	0.046
Aroclor-1268	ND		0.115	0.046
PCBs	2.57		0.115	0.046

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

E13-09441 0010

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-002
Client ID: R-49(1.0-2
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1942.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.46g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 24.6

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.049	0.019
Aroclor-1221	ND		0.049	0.019
Aroclor-1232	ND		0.049	0.019
Aroclor-1242	ND		0.049	0.019
Aroclor-1248	ND		0.049	0.019
Aroclor-1254	ND		0.049	0.019
Aroclor-1260	ND		0.049	0.019
Aroclor-1262	ND		0.049	0.019
Aroclor-1268	ND		0.049	0.019
PCBs	ND		0.049	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

E13-09441 0011

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-003
Client ID: R-48R(0-1.
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1965.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.40g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 2
% Moisture: 73.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.275	0.110
Aroclor-1221	ND		0.275	0.110
Aroclor-1232	ND		0.275	0.110
Aroclor-1242	ND		0.275	0.110
Aroclor-1248	23.3	D	0.275	0.110
Aroclor-1254	ND		0.275	0.110
Aroclor-1260	ND		0.275	0.110
Aroclor-1262	ND		0.275	0.110
Aroclor-1268	ND		0.275	0.110
PCBs	23.3	D	0.275	0.110

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

E13-09441 0012

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-004
Client ID: R-48R(1.0-
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1950.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.60g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 79.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.171	0.068
Aroclor-1221	ND		0.171	0.068
Aroclor-1232	ND		0.171	0.068
Aroclor-1242	ND		0.171	0.068
Aroclor-1248	ND		0.171	0.068
Aroclor-1254	ND		0.171	0.068
Aroclor-1260	ND		0.171	0.068
Aroclor-1262	ND		0.171	0.068
Aroclor-1268	ND		0.171	0.068
PCBs	ND		0.171	0.068

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

E13-09441 0013

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-005
Client ID: S-49(0-1.0
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1951.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.84g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 65.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.098	0.039
Aroclor-1221	ND		0.098	0.039
Aroclor-1232	ND		0.098	0.039
Aroclor-1242	ND		0.098	0.039
Aroclor-1248	1.75		0.098	0.039
Aroclor-1254	ND		0.098	0.039
Aroclor-1260	ND		0.098	0.039
Aroclor-1262	ND		0.098	0.039
Aroclor-1268	ND		0.098	0.039
PCBs	1.75		0.098	0.039

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

E13-09441 0014

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-006
Client ID: S-49(1.0-2
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1952.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.87g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 68.2

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.107	0.043
Aroclor-1221	ND		0.107	0.043
Aroclor-1232	ND		0.107	0.043
Aroclor-1242	ND		0.107	0.043
Aroclor-1248	0.127		0.107	0.043
Aroclor-1254	ND		0.107	0.043
Aroclor-1260	ND		0.107	0.043
Aroclor-1262	ND		0.107	0.043
Aroclor-1268	ND		0.107	0.043
PCBs	0.127		0.107	0.043

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

E13-09441 0015

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-007
Client ID: S-48(0-1.0
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1953.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.39g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 71.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.130	0.052
Aroclor-1221	ND		0.130	0.052
Aroclor-1232	ND		0.130	0.052
Aroclor-1242	ND		0.130	0.052
Aroclor-1248	4.90		0.130	0.052
Aroclor-1254	ND		0.130	0.052
Aroclor-1260	ND		0.130	0.052
Aroclor-1262	ND		0.130	0.052
Aroclor-1268	ND		0.130	0.052
PCBs	4.90		0.130	0.052

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

E13-09441 0016

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-008
Client ID: S-48(1.0-2
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1954.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.37g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 83.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.226	0.090
Aroclor-1221	ND		0.226	0.090
Aroclor-1232	ND		0.226	0.090
Aroclor-1242	ND		0.226	0.090
Aroclor-1248	1.04		0.226	0.090
Aroclor-1254	ND		0.226	0.090
Aroclor-1260	ND		0.226	0.090
Aroclor-1262	ND		0.226	0.090
Aroclor-1268	ND		0.226	0.090
PCBs	1.04		0.226	0.090

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

E13-09441 0017

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-009
Client ID: U-45N(2)(5
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1955.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.86g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 21.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.043	0.017
Aroclor-1221	ND		0.043	0.017
Aroclor-1232	ND		0.043	0.017
Aroclor-1242	ND		0.043	0.017
Aroclor-1248	ND		0.043	0.017
Aroclor-1254	0.028	J	0.043	0.017
Aroclor-1260	0.049		0.043	0.017
Aroclor-1262	ND		0.043	0.017
Aroclor-1268	ND		0.043	0.017
PCBs	0.078	J	0.043	0.017

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

E13-09441 0018

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-010
Client ID: V-44N(4.0-
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1956.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.29g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 24.5

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	0.030	J	0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	0.023	J	0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	0.053	J	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

E13-09441 0019

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-011
Client ID: V-44N(5.0-
Date Received: 09/25/2013
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1957.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.45g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 20.8

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	ND		0.046	0.019
Aroclor-1248	0.027	J	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	0.027	J	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

E13-09441 0020

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: 09441-012
Client ID: FB-11
Date Received: 09/25/2013
Date Extracted: 09/30/2013
Date Analyzed: 10/01/2013
Data file: Y1928.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

E13-09441 0021

PCB DATA

PCB QC SUMMARY

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 09/24/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKA130923-16	AQUEOUS	79		98		98		108	
FB091713	09228-008	AQUEOUS	71		92		88		99	
EX._WELL	09198-007	AQUEOUS	66		91		82		98	
PCB	09198-007MS	AQUEOUS	59		80		74		104	
PCB	09198-007MSD	AQUEOUS	64		83		80		100	
PCB	LCSA130923-16	AQUEOUS	67		90		83		105	

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: 10/01/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKA130930-19	AQUEOUS	86		58		102		66	
PCB	LCSA130930-19	AQUEOUS	78		64		78		61	
TW-6/12.04	09464-001	AQUEOUS	75		59		76		68	
TW-3/11.81	09464-004	AQUEOUS	72		51		84		57	
ES-PTCB-09	09562-001	AQUEOUS	76		70		77		74	
ES-PTCB-09	09562-002	AQUEOUS	71		58		75		73	
FB-9	09369-014	AQUEOUS	78		55		79		63	
FB-10	09406-022	AQUEOUS	81		56		83		65	
FB-11	09441-012	AQUEOUS	79		57		81		61	
FB-12	09481-018	AQUEOUS	82		59		84		74	
FB-13	09542-014	AQUEOUS	75		54		78		61	

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: 10/02/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKS131001-07	SOIL	95		66		94		78	
C-1	09436-001	SOLID	86		98		86		101	
C-2	09436-002	SOLID	74		94		76		114	
R-49(0-1.0	09441-001	SOIL	107		85		108		110	
R-49(1.0-2	09441-002	SOIL	105		87		106		107	
PCB	09441-002MSD	SOIL	108		84		108		97	
PCB	LCSS131001-07	SOIL	94		86		94		78	
PCB	09441-002MS	SOIL	109		85		111		97	
R-48R(1.0-	09441-004	SOIL	129		112		136		125	
S-49(0-1.0	09441-005	SOIL	112		100		114		124	
S-49(1.0-2	09441-006	SOIL	120		107		127		118	
S-48(0-1.0	09441-007	SOIL	115		92		120		111	
S-48(1.0-2	09441-008	SOIL	130		123		137		146	
U-45N(2)(5	09441-009	SOIL	104		94		107		102	
V-44N(4.0-	09441-010	SOIL	104		82		107		98	
V-44N(5.0-	09441-011	SOIL	103		82		106		99	
Q-49_(0-1.	09481-001	SOIL	130		121		141		131	
Q-49_(1.0-	09481-002	SOIL	109		91		113		109	
Q-50_(0-1.	09481-003	SOIL	112		97		117		111	
Q-50_(1.0-	09481-004	SOIL	113		99		119		109	
P-49_(0-1.	09481-005	SOIL	108		92		112		106	
P-49_(1.0-	09481-006	SOIL	113		90		120		107	
P-50_(0-1.	09481-007	SOIL	91		86		94		100	
R-48R(0-1.	09441-003	SOIL	116		112		126		123	

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

AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA130930-19

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	414.2	83	40 - 140
Aroclor-1260	500.0	0.0	356.6	71	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 LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSS131001-07

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	487.6	98	40 - 140
Aroclor-1260	500.0	0.0	439.0	88	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 MS/MSD ACCURACY RECOVERY

Matrix Spike Lab sample ID: 09198-007

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	412.2	82	40 - 140
Aroclor-1260	500.0	0.0	489.5	98	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	#	MSD % REC	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	422.2		84	2	50	40 - 140
Aroclor-1260	0.0	486.2		97	1	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

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: 09441-002

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	559.7	112	40 - 140
Aroclor-1260	500.0	0.0	515.9	103	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	540.3	108	4	50	40 - 140
Aroclor-1260	0.0	487.5	98	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:	R4385.D	Instrument ID:	GC-R
Date Extracted:	09/23/2013	Matrix:	AQUEOUS
Date Analyzed:	09/24/2013	Time Analyzed:	16:40

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
TMW-1712	09228-008	09/24/2013	16:58
EX. WELL	09198-007	09/24/2013	17:15
PCB	09198-007MS	09/24/2013	17:33
PCB	09198-007MSD	09/24/2013	17:50
PCB	LCSA130923-16	09/24/2013	18:08

PCB METHOD BLANK SUMMARY

Lab File ID:	Y1920.D	Instrument ID:	GC-Y
Date Extracted:	09/30/2013	Matrix:	AQUEOUS
Date Analyzed:	10/01/2013	Time Analyzed:	14:48

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA130930-19	10/01/2013	15:05
TW-6/12.04	09464-001	10/01/2013	15:23
TW-3/11.81	09464-004	10/01/2013	15:54
ES-PTCB-09	09562-001	10/01/2013	16:12
ES-PTCB-09	09562-002	10/01/2013	16:29
FB-9	09369-014	10/01/2013	16:47
FB-10	09406-022	10/01/2013	17:04
FB-11	09441-012	10/01/2013	17:21
FB-12	09481-018	10/01/2013	17:39
FB-13	09542-014	10/01/2013	17:56

PCB METHOD BLANK SUMMARY

Lab File ID: Y1938.D

Instrument ID: GC-Y

Date Extracted: 10/01/2013

Matrix: SOIL

Date Analyzed: 10/02/2013

Time Analyzed: 11:18

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
C-1	09436-001	10/02/2013	11:35
C-2	09436-002	10/02/2013	11:53
R-49(0-1.0	09441-001	10/02/2013	12:10
R-49(1.0-2	09441-002	10/02/2013	12:27
PCB	09441-002MSD	10/02/2013	13:02
PCB	LCSS131001-07	10/02/2013	13:19
PCB	09441-002MS	10/02/2013	14:33
R-48R(1.0-	09441-004	10/02/2013	16:22
S-49(0-1.0	09441-005	10/02/2013	16:39
S-49(1.0-2	09441-006	10/02/2013	16:56
S-48(0-1.0	09441-007	10/02/2013	17:14
S-48(1.0-2	09441-008	10/02/2013	17:31
U-45N(2)(5	09441-009	10/02/2013	17:49
V-44N(4.0-	09441-010	10/02/2013	18:06
V-44N(5.0-	09441-011	10/02/2013	18:24
Q-49_(0-1.	09481-001	10/02/2013	18:41
Q-49_(1.0-	09481-002	10/02/2013	18:59
Q-50_(0-1.	09481-003	10/02/2013	19:16
Q-50_(1.0-	09481-004	10/02/2013	19:33
~~P-49_(0-1.~~	~~09481-005~~	~~10/02/2013~~	~~19:51~~
P-49_(1.0-	09481-006	10/02/2013	20:08
P-50_(0-1.	09481-007	10/02/2013	20:26
R-48R(0-1.	09441-003	10/02/2013	20:43

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

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

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WI NDOW FROM	TO
Aroclor-1016	3.21	3.21	3.21	3.21	3.20	3.21	3.14	3.28
Aroclor-1016 {2}	4.04	4.04	4.04	4.04	4.03	4.04	3.97	4.11
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
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			2.12				2.05	2.19
Aroclor-1221 {2}			3.01				2.94	3.08
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.21				3.14	3.28
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.21				3.14	3.28
Aroclor-1232 {2}			4.04				3.97	4.11
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.04				3.97	4.11
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				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}			8.29				8.20	8.38
Aroclor-1260	8.29	8.29	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.96	8.96	8.96	8.96	8.96	8.06	9.86
Aroclor-1260 {3}	9.45	9.45	9.44	9.44	9.44	9.45	8.55	10.35
Aroclor-1260 {4}	9.94	9.93	9.93	9.93	9.93	9.93	9.03	10.83
Aroclor-1260 {5}	11.00	11.00	11.00	10.99	10.99	11.00	10.10	11.90

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013 **Instrument ID:** GC-R
GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	243865	216790	199305	183366	184539	205573	12.32
Aroclor-1016 {2}	329663	293312	273907	254375	251534	280558	11.48
Aroclor-1016 {3}	421622	378312	356112	329359	325022	362086	10.95
Aroclor-1016 {4}	196004	176563	161796	145945	139733	164008	13.98
Aroclor-1016 {5}	322251	290331	282382	257409	252936	281062	9.96
Aroclor-1221			98455				
Aroclor-1221 {2}			147422				
Aroclor-1221 {3}			104493				
Aroclor-1221 {4}			357450				
Aroclor-1221 {5}			79152				
Aroclor-1232			248609				
Aroclor-1232 {2}			144312				
Aroclor-1232 {3}			125680				
Aroclor-1232 {4}			141484				
Aroclor-1232 {5}			176247				
Aroclor-1242			232340				
Aroclor-1242 {2}			149217				
Aroclor-1242 {3}			212227				
Aroclor-1242 {4}			308432				
Aroclor-1242 {5}			255832				
Aroclor-1248			550496				
Aroclor-1248 {2}			319120				
Aroclor-1248 {3}			418121				
Aroclor-1248 {4}			650924				
Aroclor-1248 {5}			480676				
Aroclor-1254			627382				
Aroclor-1254 {2}			399643				
Aroclor-1254 {3}			752699				
Aroclor-1254 {4}			788362				
Aroclor-1254 {5}			705322				
Aroclor-1260	757128	754434	788799	691182	715219	741352	5.17
Aroclor-1260 {2}	377531	353479	367477	314922	322854	347253	7.89
Aroclor-1260 {3}	833253	861623	929397	797453	840707	852487	5.73
Aroclor-1260 {4}	442035	422694	469045	403585	434405	434353	5.57
Aroclor-1260 {5}	232694	194352	209736	173881	171745	196482	13.01
					Average %RSD		9.61

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

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

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.38	3.38	3.38	3.38	3.39	3.38	3.31	3.45
Aroclor-1016 {2}	3.94	3.94	3.94	3.94	3.96	3.94	3.87	4.01
Aroclor-1016 {3}	4.66	4.66	4.66	4.66	4.67	4.66	4.59	4.73
Aroclor-1016 {4}	4.86	4.86	4.86	4.86	4.87	4.86	4.79	4.93
Aroclor-1016 {5}	5.03	5.03	5.03	5.03	5.04	5.03	4.96	5.10
Aroclor-1221			2.17				2.10	2.24
Aroclor-1221 {2}			3.08				3.01	3.15
Aroclor-1221 {3}			3.29				3.22	3.36
Aroclor-1221 {4}			3.38				3.31	3.45
Aroclor-1221 {5}			4.66				4.59	4.73
Aroclor-1232			3.38				3.31	3.45
Aroclor-1232 {2}			4.31				4.24	4.38
Aroclor-1232 {3}			4.86				4.79	4.93
Aroclor-1232 {4}			5.03				4.96	5.10
Aroclor-1232 {5}			5.61				5.54	5.68
Aroclor-1242			4.31				4.24	4.38
Aroclor-1242 {2}			5.03				4.96	5.10
Aroclor-1242 {3}			5.61				5.54	5.68
Aroclor-1242 {4}			5.76				5.69	5.83
Aroclor-1242 {5}			6.30				6.23	6.37
Aroclor-1248			4.66				4.58	4.74
Aroclor-1248 {2}			5.22				5.14	5.30
Aroclor-1248 {3}			5.61				5.53	5.69
Aroclor-1248 {4}			5.76				5.68	5.84
Aroclor-1248 {5}			6.11				6.03	6.19
Aroclor-1254			6.59				6.51	6.67
Aroclor-1254 {2}			7.17				7.09	7.25
Aroclor-1254 {3}			7.60				7.51	7.69
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.59				8.50	8.68
Aroclor-1260	7.35	7.35	7.35	7.35	7.36	7.35	6.45	8.25
Aroclor-1260 {2}	7.60	7.60	7.60	7.60	7.61	7.60	6.70	8.50
Aroclor-1260 {3}	9.18	9.18	9.18	9.18	9.19	9.18	8.28	10.08
Aroclor-1260 {4}	9.69	9.69	9.69	9.69	9.70	9.69	8.79	10.59
Aroclor-1260 {5}	10.28	10.28	10.28	10.27	10.28	10.28	9.38	11.18

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	362241	319133	272025	248097	250722	290444	16.94
Aroclor-1016 {2}	743962	638498	551705	509099	507402	590133	17.13
Aroclor-1016 {3}	1634305	1339093	1240491	1157160	1153188	1304848	15.26
Aroclor-1016 {4}	640757	532369	529369	479376	469296	530233	12.83
Aroclor-1016 {5}	511215	424107	401382	365779	361833	412863	14.71
Aroclor-1221			133932				
Aroclor-1221 {2}			198787				
Aroclor-1221 {3}			133461				
Aroclor-1221 {4}			484806				
Aroclor-1221 {5}			92989				
Aroclor-1232			337701				
Aroclor-1232 {2}			127755				
Aroclor-1232 {3}			282764				
Aroclor-1232 {4}			212621				
Aroclor-1232 {5}			294142				
Aroclor-1242			199335				
Aroclor-1242 {2}			339120				
Aroclor-1242 {3}			443826				
Aroclor-1242 {4}			366761				
Aroclor-1242 {5}			720540				
Aroclor-1248			766481				
Aroclor-1248 {2}			1140084				
Aroclor-1248 {3}			814777				
Aroclor-1248 {4}			687633				
Aroclor-1248 {5}			406423				
Aroclor-1254			915839				
Aroclor-1254 {2}			721245				
Aroclor-1254 {3}			474223				
Aroclor-1254 {4}			703201				
Aroclor-1254 {5}			1013959				
Aroclor-1260	585399	517611	452177	396373	395981	469508	17.43
Aroclor-1260 {2}	883662	775223	680288	591735	587886	703758	17.97
Aroclor-1260 {3}	674621	625967	589609	507374	529398	585394	11.73
Aroclor-1260 {4}	1367534	1326755	1291089	1100209	1160368	1249191	9.12
Aroclor-1260 {5}	929561	946699	919373	778085	827578	880259	8.35
						Average %RSD	14.15

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

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

Data File: R3851.D R3850.D R3849.D R3848.D R3847.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}			10.16				10.04	10.28
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1262			9.18				9.06	9.30
Aroclor-1262 {2}			9.69				9.57	9.81
Aroclor-1262 {3}			10.18				10.06	10.30
Aroclor-1262 {4}			10.27				10.15	10.39
Aroclor-1262 {5}			10.87				10.75	10.99
Aroclor-1268			10.18				10.06	10.30
Aroclor-1268 {2}			10.26				10.14	10.38
Aroclor-1268 {3}			10.51				10.39	10.63
Aroclor-1268 {4}			10.65				10.53	10.77
Aroclor-1268 {5}			11.73				11.61	11.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013 **Instrument ID:** GC-R

GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			326215				
Aroclor-1262 {2}			1281764				
Aroclor-1262 {3}			491930				
Aroclor-1262 {4}			563512				
Aroclor-1262 {5}			432239				
Aroclor-1268			1292652				
Aroclor-1268 {2}			1452313				
Aroclor-1268 {3}			1123481				
Aroclor-1268 {4}			297485				
Aroclor-1268 {5}			3490031				

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			817810				
Aroclor-1262 {2}			1844146				
Aroclor-1262 {3}			599368				
Aroclor-1262 {4}			1277066				
Aroclor-1262 {5}			225009				
Aroclor-1268			1847615				
Aroclor-1268 {2}			1965341				
Aroclor-1268 {3}			1551936				
Aroclor-1268 {4}			432171				
Aroclor-1268 {5}			4623946				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/24/2013 **Instrument ID:** GC-R

Data File: R4384.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.21	3.14	3.28	205573	189511	7.81
Aroclor-1016 {2}	4.04	3.97	4.11	280558	252511	10.00
Aroclor-1016 {3}	4.59	4.52	4.66	362086	329692	8.95
Aroclor-1016 {4}	5.10	5.03	5.17	164008	154438	5.84
Aroclor-1016 {5}	5.50	5.42	5.56	281062	258521	8.02
Aroclor-1260	8.30	7.39	9.19	741352	711637	4.01
Aroclor-1260 {2}	8.97	8.06	9.86	347253	326062	6.10
Aroclor-1260 {3}	9.45	8.55	10.35	852487	823289	3.43
Aroclor-1260 {4}	9.94	9.03	10.83	434353	419304	3.46
Aroclor-1260 {5}	11.00	10.10	11.90	196482	215258	9.56

Data File: R4384.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.39	3.31	3.45	290444	325519	12.08
Aroclor-1016 {2}	3.95	3.87	4.01	590133	645596	9.40
Aroclor-1016 {3}	4.67	4.59	4.73	1304848	1442551	10.55
Aroclor-1016 {4}	4.87	4.79	4.93	530233	609175	14.89
Aroclor-1016 {5}	5.03	4.96	5.10	412863	462335	11.98
Aroclor-1260	7.35	6.45	8.25	469508	506599	7.90
Aroclor-1260 {2}	7.60	6.70	8.50	703758	742963	5.57
Aroclor-1260 {3}	9.18	8.28	10.08	585394	623034	6.43
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1359070	8.80
Aroclor-1260 {5}	10.28	9.38	11.18	880259	977931	11.10

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/24/2013 **Instrument ID:** GC-R

Data File: R4391.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.21	3.14	3.28	205573	201297	2.08
Aroclor-1016 {2}	4.04	3.97	4.11	280558	269173	4.06
Aroclor-1016 {3}	4.59	4.52	4.66	362086	352706	2.59
Aroclor-1016 {4}	5.10	5.03	5.17	164008	169095	3.10
Aroclor-1016 {5}	5.50	5.42	5.56	281062	276769	1.53
Aroclor-1260	8.30	7.39	9.19	741352	762532	2.86
Aroclor-1260 {2}	8.97	8.06	9.86	347253	352612	1.54
Aroclor-1260 {3}	9.45	8.55	10.35	852487	901730	5.78
Aroclor-1260 {4}	9.94	9.03	10.83	434353	455080	4.77
Aroclor-1260 {5}	11.00	10.10	11.90	196482	213807	8.82

Data File: R4391.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.38	3.31	3.45	290444	341782	17.68
Aroclor-1016 {2}	3.94	3.87	4.01	590133	678384	14.95
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1528331	17.13
Aroclor-1016 {4}	4.86	4.79	4.93	530233	595111	12.24
Aroclor-1016 {5}	5.03	4.96	5.10	412863	493170	19.45
Aroclor-1260	7.35	6.45	8.25	469508	543709	15.80
Aroclor-1260 {2}	7.60	6.70	8.50	703758	812275	15.42
Aroclor-1260 {3}	9.18	8.28	10.08	585394	680332	16.22
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1411252	12.97
Aroclor-1260 {5}	10.27	9.38	11.18	880259	1032666	17.31

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: 10/01/2013 **Instrument ID:** GC-Y

Data File: Y1919.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	399850	1.40
Aroclor-1016 {2}	4.05	3.98	4.12	546451	540277	1.13
Aroclor-1016 {3}	4.60	4.53	4.67	687780	690020	0.33
Aroclor-1016 {4}	5.11	5.03	5.17	331025	358387	8.27
Aroclor-1016 {5}	5.50	5.42	5.56	562872	560163	0.48
Aroclor-1260	8.27	7.36	9.16	1606726	1424488	11.34
Aroclor-1260 {2}	8.94	8.04	9.84	759119	650070	14.37
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1544580	15.43
Aroclor-1260 {4}	9.89	8.99	10.79	952284	814440	14.48
Aroclor-1260 {5}	10.95	10.05	11.85	412992	362990	12.11

Data File: Y1919.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	775221	6.02
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1729271	9.02
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3912299	5.24
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1690276	3.27
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1316482	3.55
Aroclor-1260	7.86	6.95	8.75	1372418	1303539	5.02
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1830421	8.35
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1488134	13.68
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3280873	13.76
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2309509	15.07

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/01/2013 **Instrument ID:** GC-Y

Data File: Y1931.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	393578	0.19
Aroclor-1016 {2}	4.05	3.98	4.12	546451	541894	0.83
Aroclor-1016 {3}	4.60	4.53	4.67	687780	686227	0.23
Aroclor-1016 {4}	5.10	5.03	5.17	331025	361972	9.35
Aroclor-1016 {5}	5.50	5.42	5.56	562872	569883	1.25
Aroclor-1260	8.27	7.36	9.16	1606726	1501380	6.56
Aroclor-1260 {2}	8.94	8.04	9.84	759119	697859	8.07
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1658994	9.16
Aroclor-1260 {4}	9.89	8.99	10.79	952284	867311	8.92
Aroclor-1260 {5}	10.95	10.05	11.85	412992	354265	14.22

Data File: Y1931.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	842004	15.16
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1767993	11.47
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3993940	7.43
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1736753	6.11
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1363766	7.27
Aroclor-1260	7.85	6.95	8.75	1372418	1437537	4.74
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2025382	1.41
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1648789	4.36
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3610240	5.10
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2555339	6.03

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 WI NDOW 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: 10/02/2013 **Instrument ID:** GC-Y

Data File: Y1932.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.22	3.16	3.30	394332	386063	2.10
Aroclor-1016 {2}	4.05	3.98	4.12	546451	527067	3.55
Aroclor-1016 {3}	4.60	4.53	4.67	687780	657497	4.40
Aroclor-1016 {4}	5.10	5.03	5.17	331025	343526	3.78
Aroclor-1016 {5}	5.49	5.42	5.56	562872	537552	4.50
Aroclor-1260	8.26	7.36	9.16	1606726	1429537	11.03
Aroclor-1260 {2}	8.94	8.04	9.84	759119	665531	12.33
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1544072	15.45
Aroclor-1260 {4}	9.89	8.99	10.79	952284	826042	13.26
Aroclor-1260 {5}	10.95	10.05	11.85	412992	335832	18.68

Data File: Y1932.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.77	3.69	3.83	731183	821288	12.32
Aroclor-1016 {2}	4.37	4.29	4.43	1586125	1661921	4.78
Aroclor-1016 {3}	5.12	5.04	5.18	3717574	3824450	2.87
Aroclor-1016 {4}	5.33	5.25	5.39	1636714	1624611	0.74
Aroclor-1016 {5}	5.50	5.42	5.56	1271295	1286047	1.16
Aroclor-1260	7.86	6.95	8.75	1372418	1341995	2.22
Aroclor-1260 {2}	8.12	7.21	9.01	1997230	1896198	5.06
Aroclor-1260 {3}	9.71	8.80	10.60	1723918	1558441	9.60
Aroclor-1260 {4}	10.21	9.30	11.10	3804274	3342315	12.14
Aroclor-1260 {5}	10.80	9.89	11.69	2719408	2327719	14.40

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/02/2013 **Instrument ID:** GC-Y

Data File: Y1948.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	356191	9.67
Aroclor-1016 {2}	4.05	3.98	4.12	546451	491263	10.10
Aroclor-1016 {3}	4.60	4.53	4.67	687780	617099	10.28
Aroclor-1016 {4}	5.10	5.03	5.17	331025	323614	2.24
Aroclor-1016 {5}	5.50	5.42	5.56	562872	510082	9.38
Aroclor-1260	8.27	7.36	9.16	1606726	1366509	14.95
Aroclor-1260 {2}	8.94	8.04	9.84	759119	630170	16.99
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1528079	16.33
Aroclor-1260 {4}	9.89	8.99	10.79	952284	800363	15.95
Aroclor-1260 {5}	10.95	10.05	11.85	412992	386930	6.31

Data File: Y1948.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	700524	4.19
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1570614	0.98
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3576843	3.79
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1536604	6.12
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1212791	4.60
Aroclor-1260	7.85	6.95	8.75	1372418	1334934	2.73
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1878237	5.96
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1542544	10.52
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3392843	10.81
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2345229	13.76

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/02/2013 **Instrument ID:** GC-Y

Data File: Y1966.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	354230	10.17
Aroclor-1016 {2}	4.05	3.98	4.12	546451	488569	10.59
Aroclor-1016 {3}	4.60	4.53	4.67	687780	612902	10.89
Aroclor-1016 {4}	5.10	5.03	5.17	331025	317499	4.09
Aroclor-1016 {5}	5.50	5.42	5.56	562872	502661	10.70
Aroclor-1260	8.26	7.36	9.16	1606726	1385255	13.78
Aroclor-1260 {2}	8.94	8.04	9.84	759119	627578	17.33
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1506840	17.49
Aroclor-1260 {4}	9.89	8.99	10.79	952284	813205	14.60
Aroclor-1260 {5}	10.95	10.05	11.85	412992	346836	16.02

Data File: Y1966.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	815619	11.55
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1598667	0.79
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3640273	2.08
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1555787	4.94
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1230103	3.24
Aroclor-1260	7.85	6.95	8.75	1372418	1372402	0.00
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1948181	2.46
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1592933	7.60
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3529983	7.21
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2507711	7.78

PCB RETENTION TIME SHIFT SUMMARY

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

Surrogate RT from initial calibration :

TCMX 1 2.75 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	BLKA130923-16	09/24/2013	16:40	2.75		12.09		2.57		11.95	
FB091713	09228-008	09/24/2013	16:58	2.75		12.09		2.57		11.95	
EX_WELL	09198-007	09/24/2013	17:15	2.75		12.09		2.57		11.95	
PCB	09198-007MS	09/24/2013	17:33	2.75		12.09		2.57		11.95	
PCB	09198-007MSD	09/24/2013	17:50	2.75		12.09		2.57		11.94	
PCB	LCSA130923-16	09/24/2013	18:08	2.75		12.09		2.57		11.95	

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** 2.90 **DCB 2** 12.49

[illegible]	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
[illegible]	BLKA130930-19	10/01/2013	14:48	2.77		12.04		2.90		12.49	
[illegible]	LCSA130930-19	10/01/2013	15:05	2.77		12.04		2.89		12.48	
[illegible]	09464-001	10/01/2013	15:23	2.77		12.04		2.89		12.48	
[illegible]	09464-004	10/01/2013	15:54	2.77		12.04		2.90		12.48	
[illegible]	09562-001	10/01/2013	16:12	2.77		12.04		2.89		12.48	
[illegible]	09562-002	10/01/2013	16:29	2.77		12.04		2.89		12.48	
[illegible]	09369-014	10/01/2013	16:47	2.77		12.04		2.89		12.48	
FB-10	09406-022	10/01/2013	17:04	2.77		12.04		2.89		12.48	
FB-11	09441-012	10/01/2013	17:21	2.77		12.04		2.89		12.48	
[illegible]	09481-018	10/01/2013	17:39	2.77		12.04		2.89		12.48	
FB-13	09542-014	10/01/2013	17:56	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-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	BLKS131001-07	10/02/2013	11:18	2.77		12.04		2.89		12.48	
C-1	09436-001	10/02/2013	11:35	2.77		12.04		2.89		12.48	
C-2	09436-002	10/02/2013	11:53	2.77		12.04		2.89		12.48	
R-49(0-1.0	09441-001	10/02/2013	12:10	2.77		12.04		2.89		12.48	
R-49(1.0-2	09441-002	10/02/2013	12:27	2.77		12.04		2.89		12.48	
PCB	09441-002MSD	10/02/2013	13:02	2.77		12.04		2.89		12.48	
PCB	LCSS131001-07	10/02/2013	13:19	2.77		12.04		2.89		12.48	
PCB	09441-002MS	10/02/2013	14:33	2.77		12.04		2.89		12.48	
R-48R(1.0-	09441-004	10/02/2013	16:22	2.77		12.04		2.89		12.48	
S-49(0-1.0	09441-005	10/02/2013	16:39	2.77		12.04		2.89		12.48	
S-49(1.0-2	09441-006	10/02/2013	16:56	2.77		12.04		2.89		12.48	
S-48(0-1.0	09441-007	10/02/2013	17:14	2.77		12.04		2.89		12.48	
S-48(1.0-2	09441-008	10/02/2013	17:31	2.77		12.04		2.89		12.48	
U-45N(2)(5	09441-009	10/02/2013	17:49	2.77		12.04		2.89		12.48	
V-44N(4.0-	09441-010	10/02/2013	18:06	2.77		12.04		2.89		12.48	
V-44N(5.0-	09441-011	10/02/2013	18:24	2.77		12.04		2.89		12.48	
Q-49_(0-1.	09481-001	10/02/2013	18:41	2.77		12.04		2.89		12.48	
Q-49_(1.0-	09481-002	10/02/2013	18:59	2.77		12.04		2.89		12.48	
Q-50_(0-1.	09481-003	10/02/2013	19:16	2.77		12.04		2.89		12.48	
Q-50_(1.0-	09481-004	10/02/2013	19:33	2.77		12.04		2.89		12.48	
P-49_(0-1.	09481-005	10/02/2013	19:51	2.77		12.04		2.89		12.48	
P-49_(1.0-	09481-006	10/02/2013	20:08	2.77		12.04		2.89		12.48	
P-50_(0-1.	09481-007	10/02/2013	20:26	2.77		12.04		2.89		12.48	
R-48R(0-1.	09441-003	10/02/2013	20:43	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\10-02-13\
Data File : Y1941.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 12:10
Operator : NG
Sample : R-49(0-1.0,09441-001,S,5.84g,70.3,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:37:29 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	3951.8E6	7932.6E6	214.043	216.005
Spiked Amount 200.000			Recovery	=	107.02%	108.00%
2) S DCB	12.04	12.48	1043.3E6	2842.2E6	169.277	220.044 #
Spiked Amount 200.000			Recovery	=	84.64%	110.02%
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	112.8E6	239.7E6	105.125	100.000
24) L6 Aroclor-1248 {2}	4.98	5.69	171.2E6	905.5E6	276.851	255.843
25) L6 Aroclor-1248 {3}	5.30	6.09	264.0E6	802.9E6	331.901	314.788
26) L6 Aroclor-1248 {4}	6.00	6.24	339.9E6	393.6E6	269.063	176.488 #
27) L6 Aroclor-1248 {5}	6.26	6.57	188.7E6	344.4E6	189.018	265.971 #
Sum Aroclor-1248			1076.6E6	2686.1E6	1171.958	1113.090
Average Aroclor-1248					234.392	222.618
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

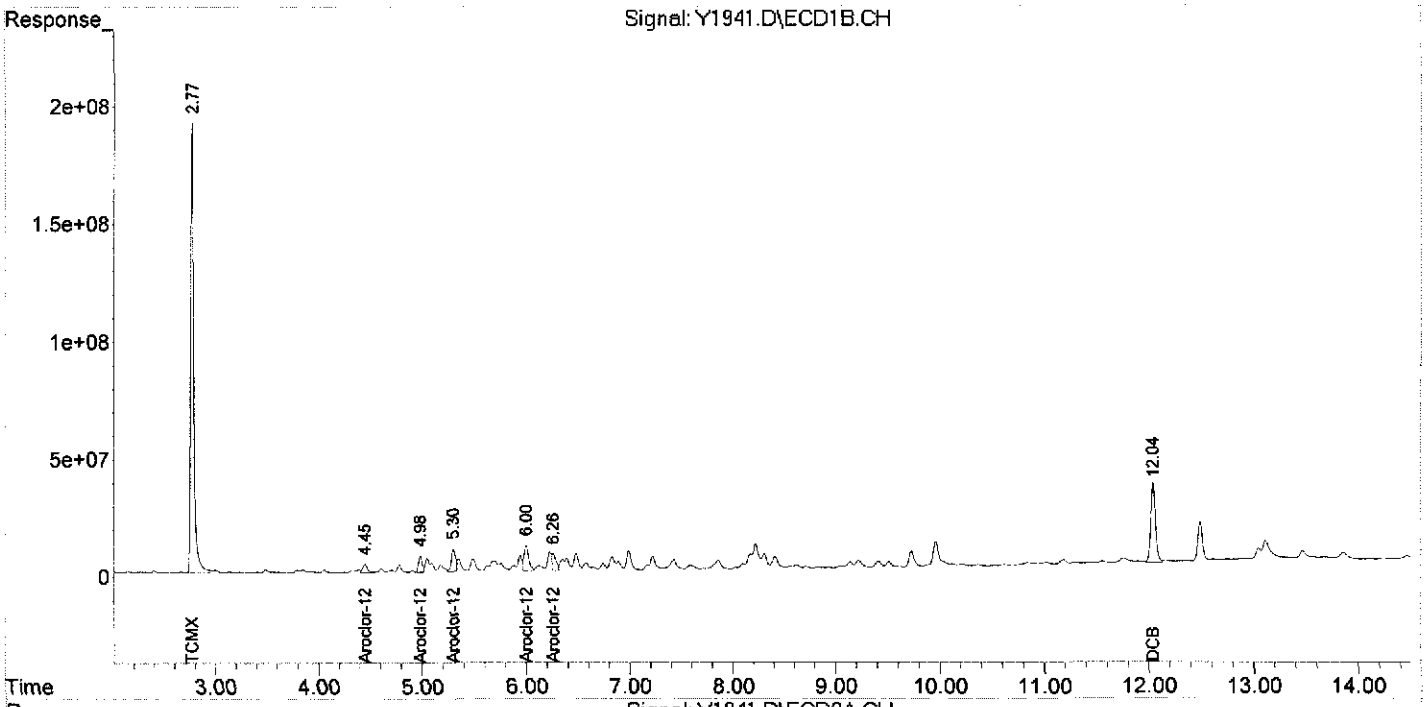
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

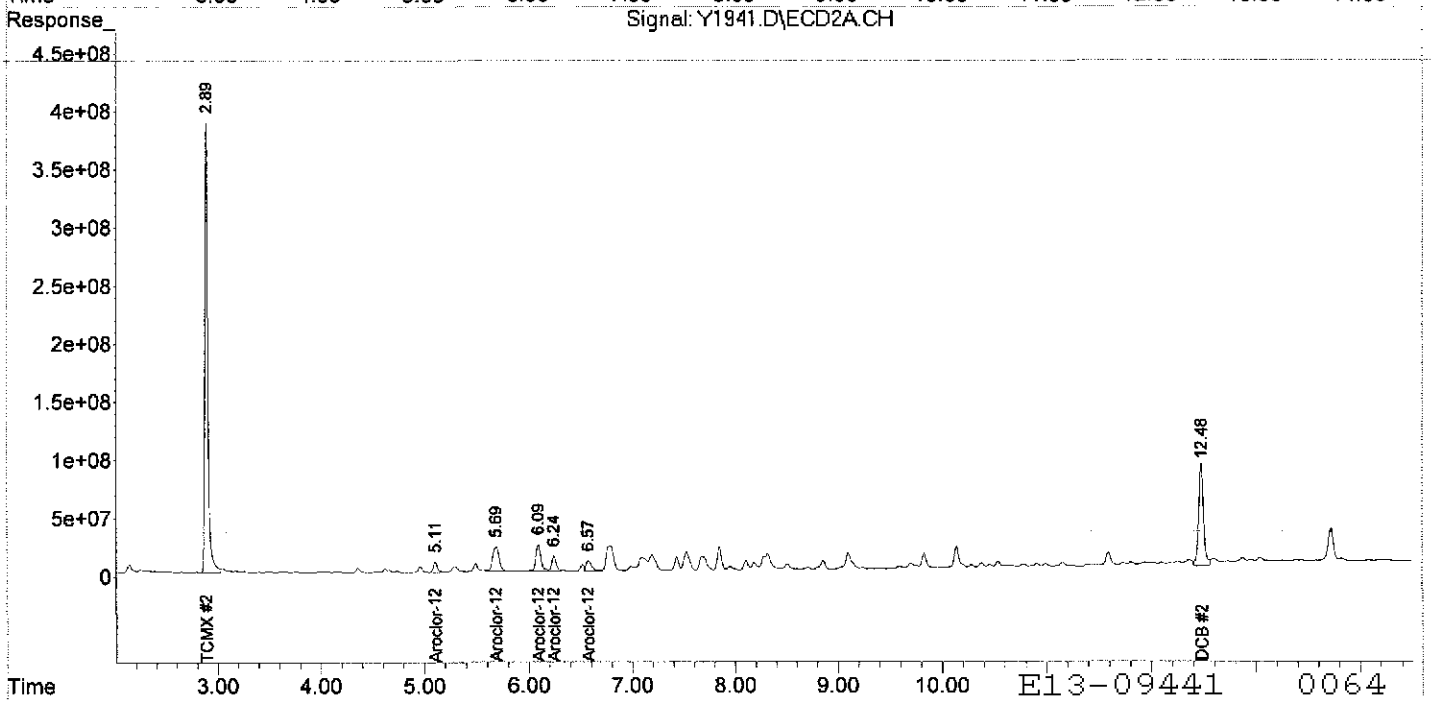
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1941.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 12:10
Operator : NG
Sample : R-49(0-1.0,09441-001,S,5.84g,70.3,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:37:29 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\10-02-13\
Data File : Y1942.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 12:27
Operator : NG
Sample : R-49(1.0-2,09441-002,S,5.46g,24.6,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 02 15:45:56 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	3865.9E6	7756.9E6	209.390	211.221
Spiked Amount 200.000			Recovery	=	104.69%	105.61%
2) S DCB	12.04	12.48	1072.3E6	2758.8E6	173.994	213.585
Spiked Amount 200.000			Recovery	=	87.00%	106.79%
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

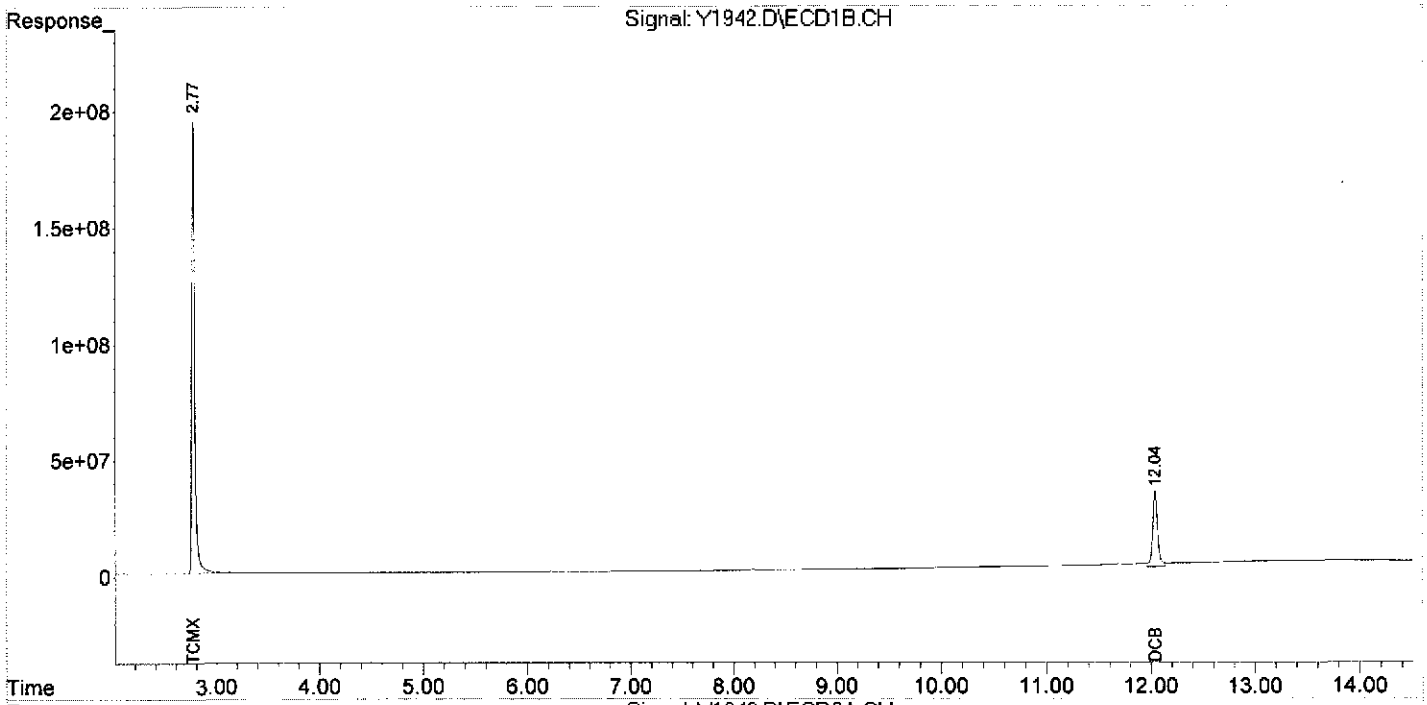
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

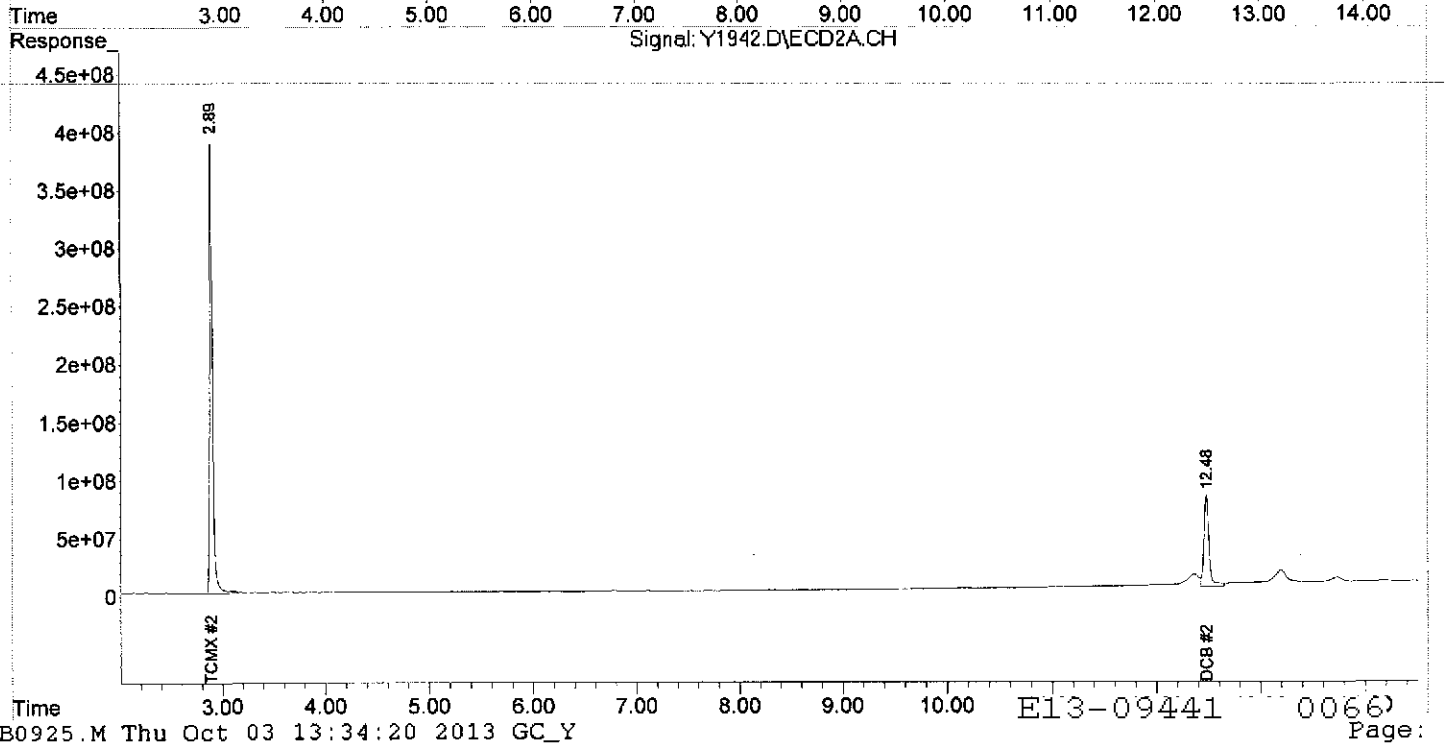
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1942.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 12:27
Operator : NG
Sample : R-49(1.0-2,09441-002,S,5.46g,24.6,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 02 15:45:56 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\10-02-13\
Data File : Y1965.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 20:43
Operator : NG
Sample : R-48R(0-1.,09441-003,S,5.40g,73.1,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,2
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 10:29:00 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	2140.9E6	4640.2E6	115.958	126.353
Spiked Amount 200.000			Recovery	=	57.98%	63.18%
2) S DCB	12.04	12.48	689.3E6	1587.9E6	111.840	122.935m
Spiked Amount 200.000			Recovery	=	55.92%	61.47%
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	416.1E6	784.7E6	387.905	327.380
24) L6 Aroclor-1248 {2}	4.98	5.69	703.2E6	4000.6E6	1137.379	1130.310
25) L6 Aroclor-1248 {3}	5.30	6.09	1014.7E6	3531.0E6	1275.722	1384.306
26) L6 Aroclor-1248 {4}	6.00	6.24	1504.1E6	1808.8E6	1190.612	811.107 #
27) L6 Aroclor-1248 {5}	6.26	6.59	1198.4E6	757.0E6	1200.131	584.584 #
Sum Aroclor-1248			4836.5E6	10882.0E6	5191.748	4237.687
Average Aroclor-1248					1038.350	847.537
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

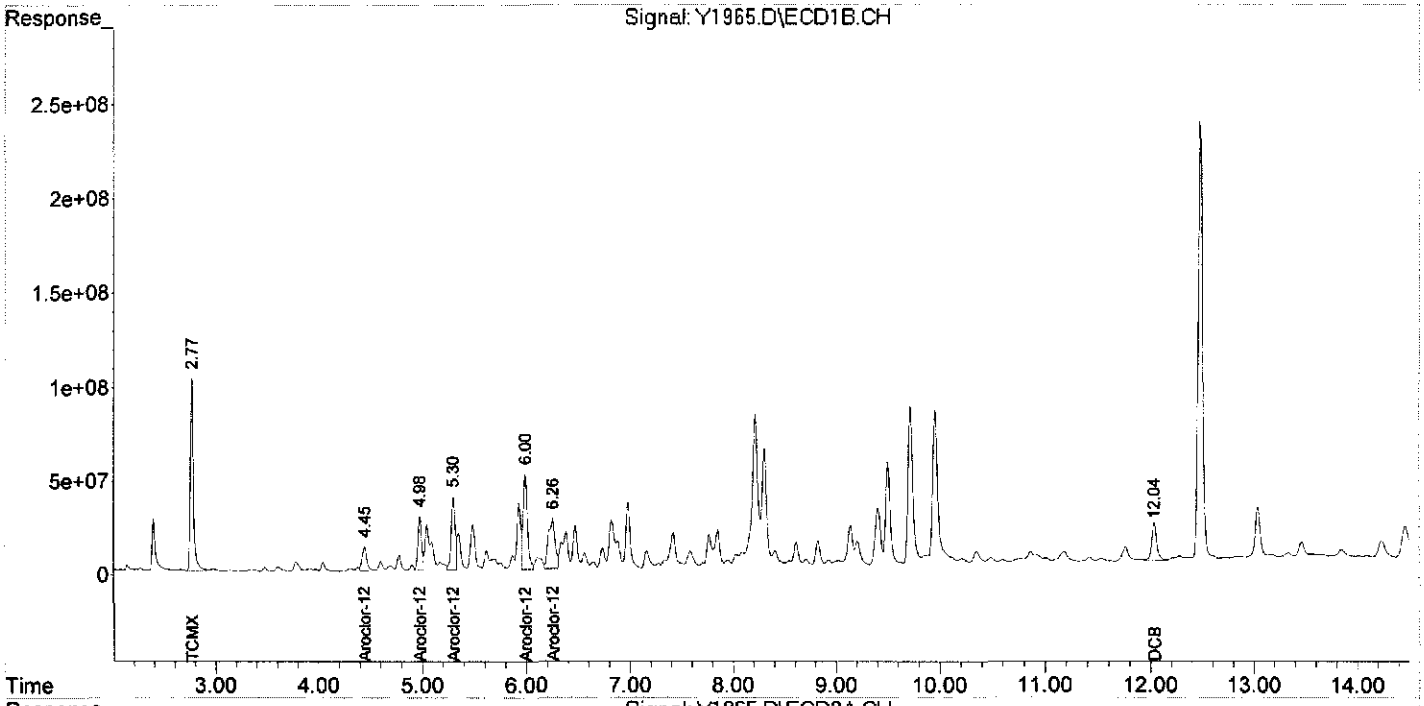
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

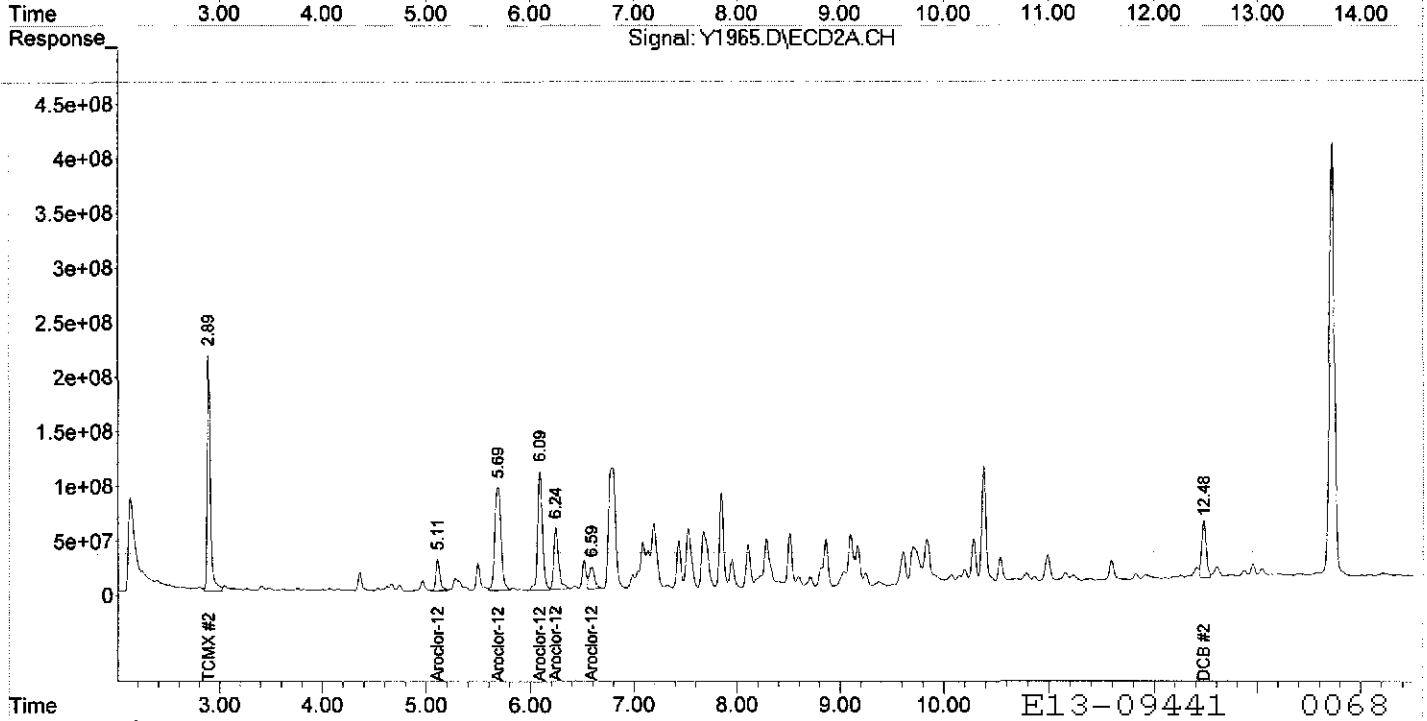
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1965.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 20:43
Operator : NG
Sample : R-48R(0-1.,09441-003,S,5.40g,73.1,10/01/13.4
Misc : 131001-07,09/25/13,09/25/13,2
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 10:29:00 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\10-02-13\
Data File : Y1950.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 16:22
Operator : NG
Sample : R-48R(1.0-,09441-004,S,5.60g,79.1,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:25:12 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	4746.5E6	9957.0E6	257.089	271.130
Spiked Amount 200.000			Recovery	=	128.54%	135.57%
2) S DCB	12.04	12.48	1383.4E6	3230.7E6	224.469	250.115
Spiked Amount 200.000			Recovery	=	112.23%	125.06%
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

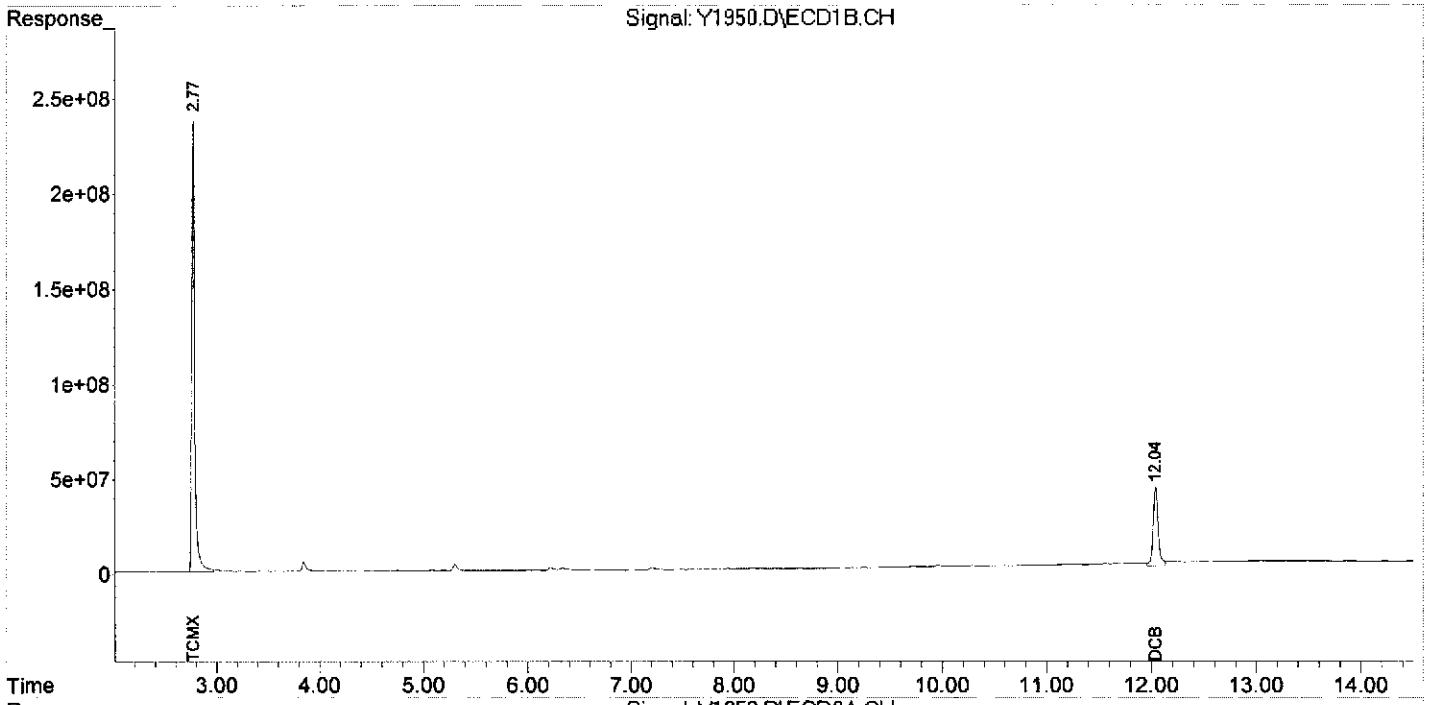
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

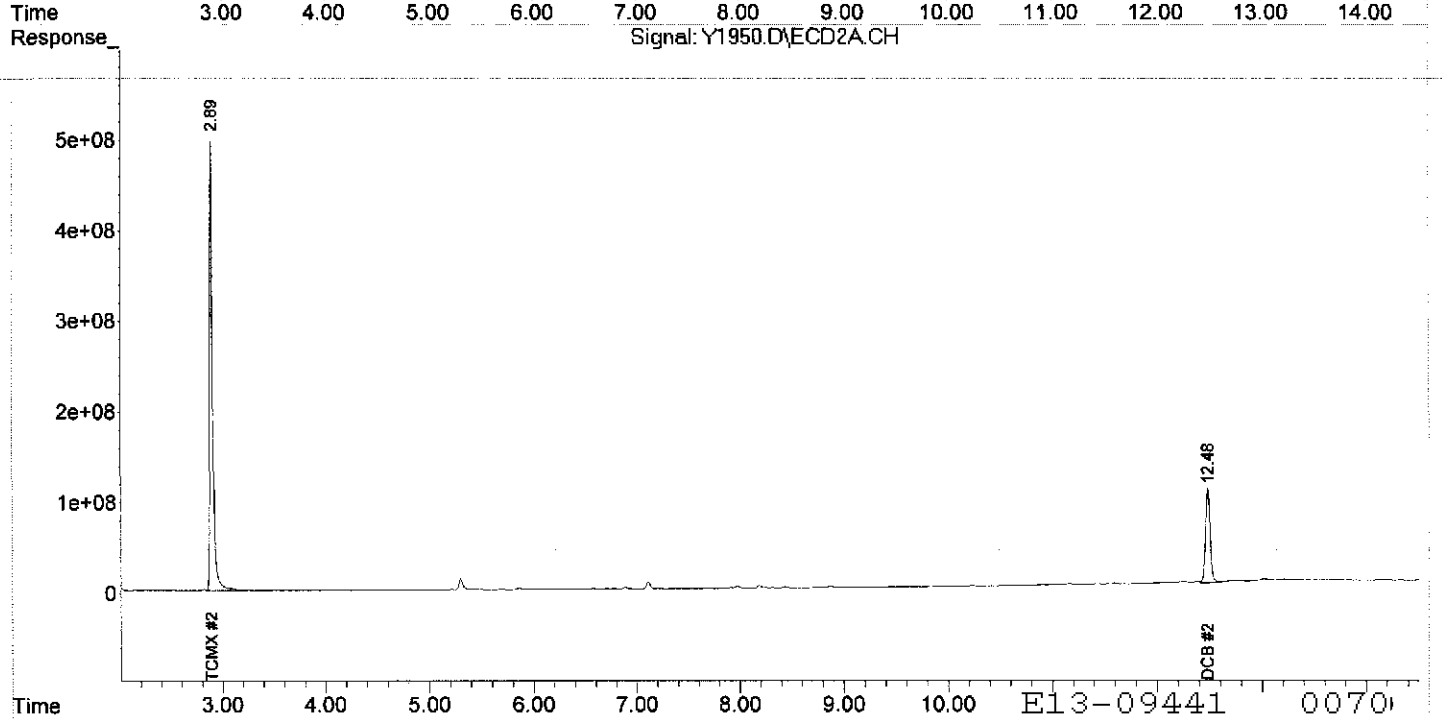
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1950.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 16:22
Operator : NG
Sample : R-48R(1.0-,09441-004,S,5.60g,79.1,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:25:12 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\10-02-13\
Data File : Y1951.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 16:39
Operator : NG
Sample : S-49(0-1.0,09441-005,S,5.84g,65.1,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:41:45 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	4120.5E6	8403.7E6	223.182	228.831
Spiked Amount 200.000			Recovery	=	111.59%	114.42%
2) S DCB	12.04	12.48	1238.0E6	3213.2E6	200.882	248.766
Spiked Amount 200.000			Recovery	=	100.44%	124.38%
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	51037355	117.6E6	47.584	49.062
24) L6 Aroclor-1248 {2}	4.98	5.69	141.4E6	790.8E6	228.722	223.424
25) L6 Aroclor-1248 {3}	5.30	6.09	179.2E6	659.6E6	225.284	258.585
26) L6 Aroclor-1248 {4}	6.00	6.24	264.3E6	278.5E6	209.230	124.900 #
27) L6 Aroclor-1248 {5}	6.23	6.57	276.8E6	304.1E6	277.163	234.807
Sum Aroclor-1248			912.7E6	2150.5E6	987.984	890.777
Average Aroclor-1248					197.597	178.155
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

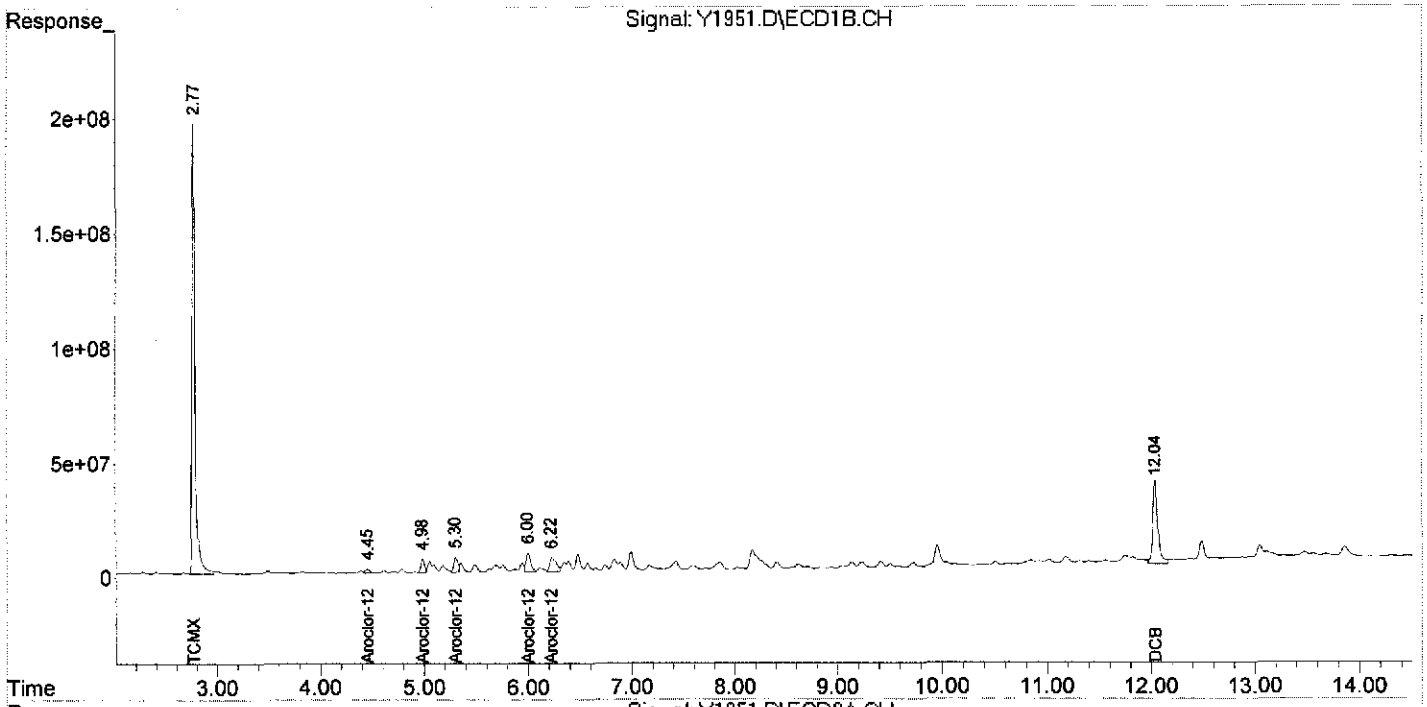
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

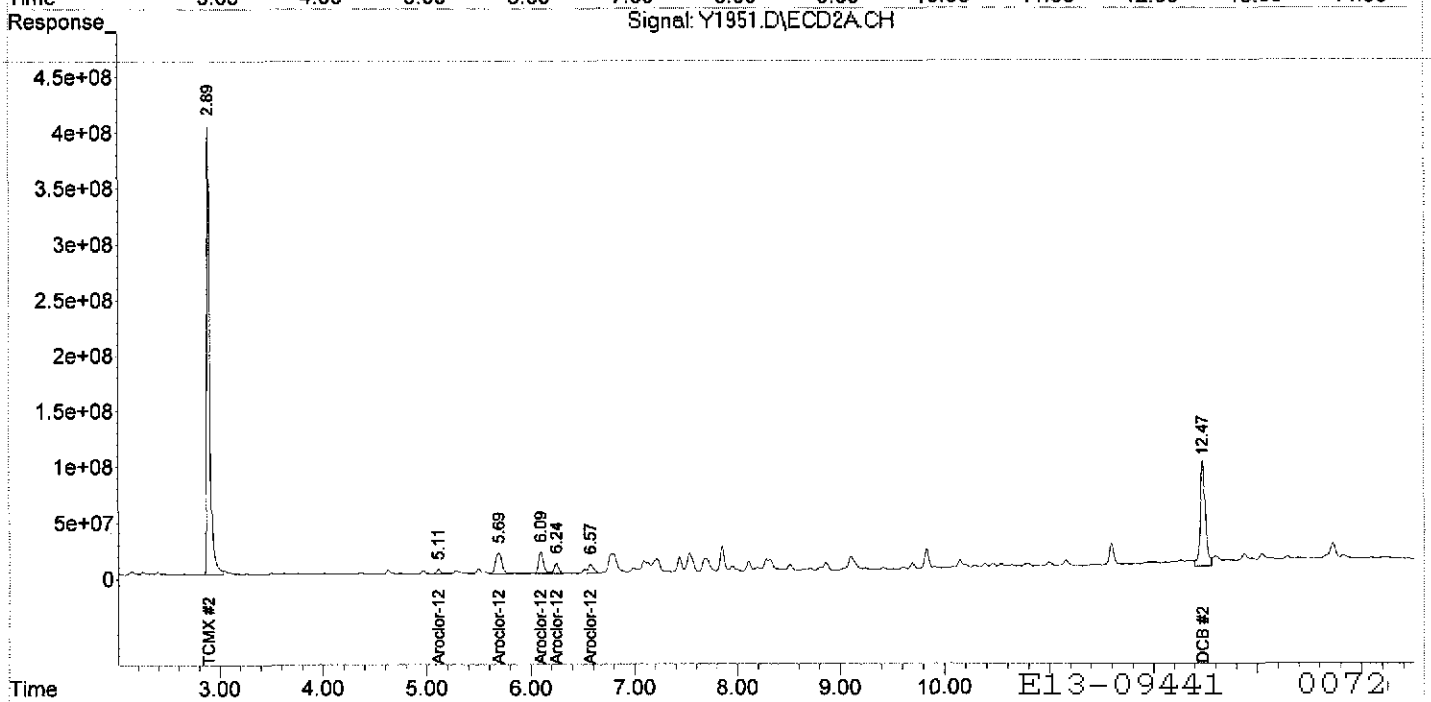
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1951.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 16:39
Operator : NG
Sample : S-49(0-1.0,09441-005,S,5.84g,65.1,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:41:45 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 :





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1952.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 16:56
Operator : NG
Sample : S-49(1.0-2,09441-006,S,5.87g,68.2,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:45:19 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	4446.9E6	9334.9E6	240.858	254.190
Spiked Amount 200.000			Recovery	=	120.43%	127.10%
2) S DCB	12.04	12.48	1323.1E6	3048.0E6	214.684	235.970
Spiked Amount 200.000			Recovery	=	107.34%	117.99%
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	0.00	5484283	0	5.113	N.D. d#
24) L6 Aroclor-1248 {2}	4.99	5.68	9703910	54930858	15.695	15.520
25) L6 Aroclor-1248 {3}	0.00	6.09	0	47255067	N.D. d	18.526 #
26) L6 Aroclor-1248 {4}	6.00	6.24	18746822	19823222	14.839	8.889 #
27) L6 Aroclor-1248 {5}	0.00	6.57	0	24554053	N.D. d	18.962 #
Sum Aroclor-1248			33935016	146.6E6	35.648	61.897
Average Aroclor-1248					11.883	15.474
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

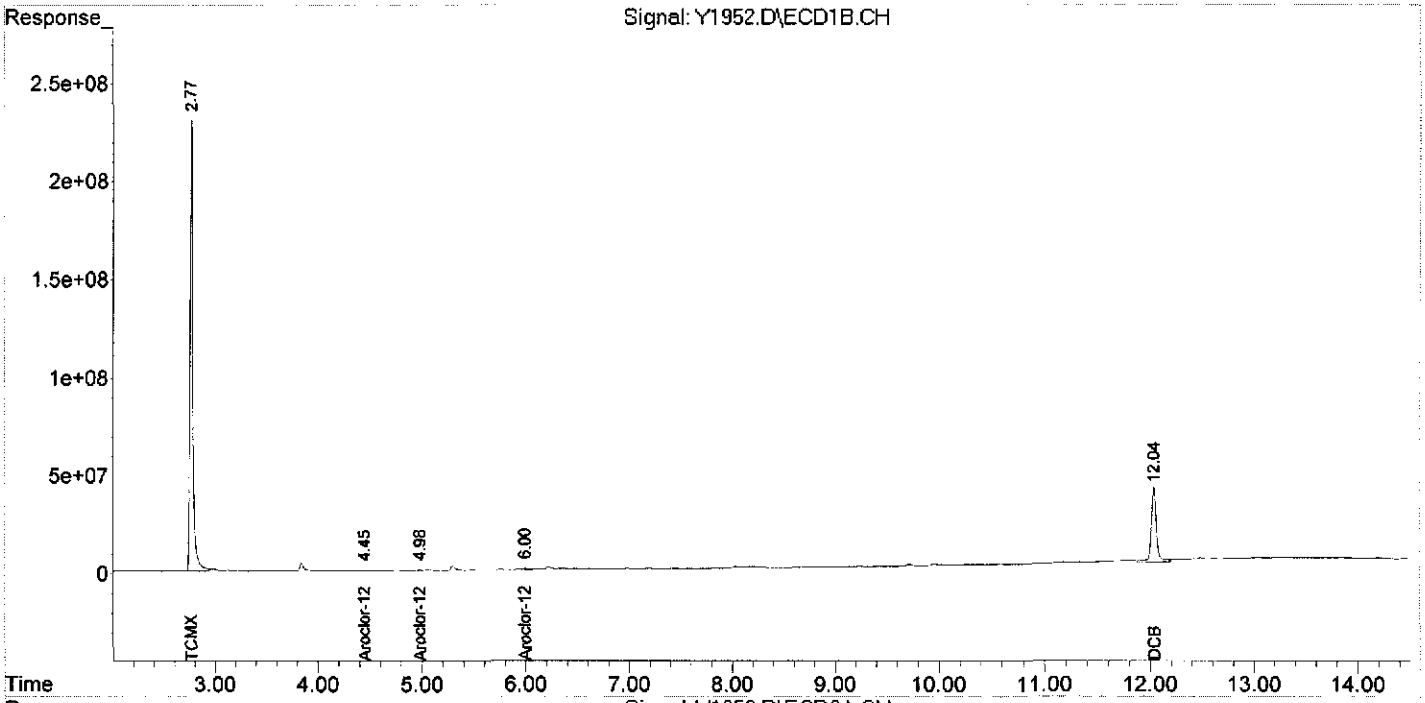
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

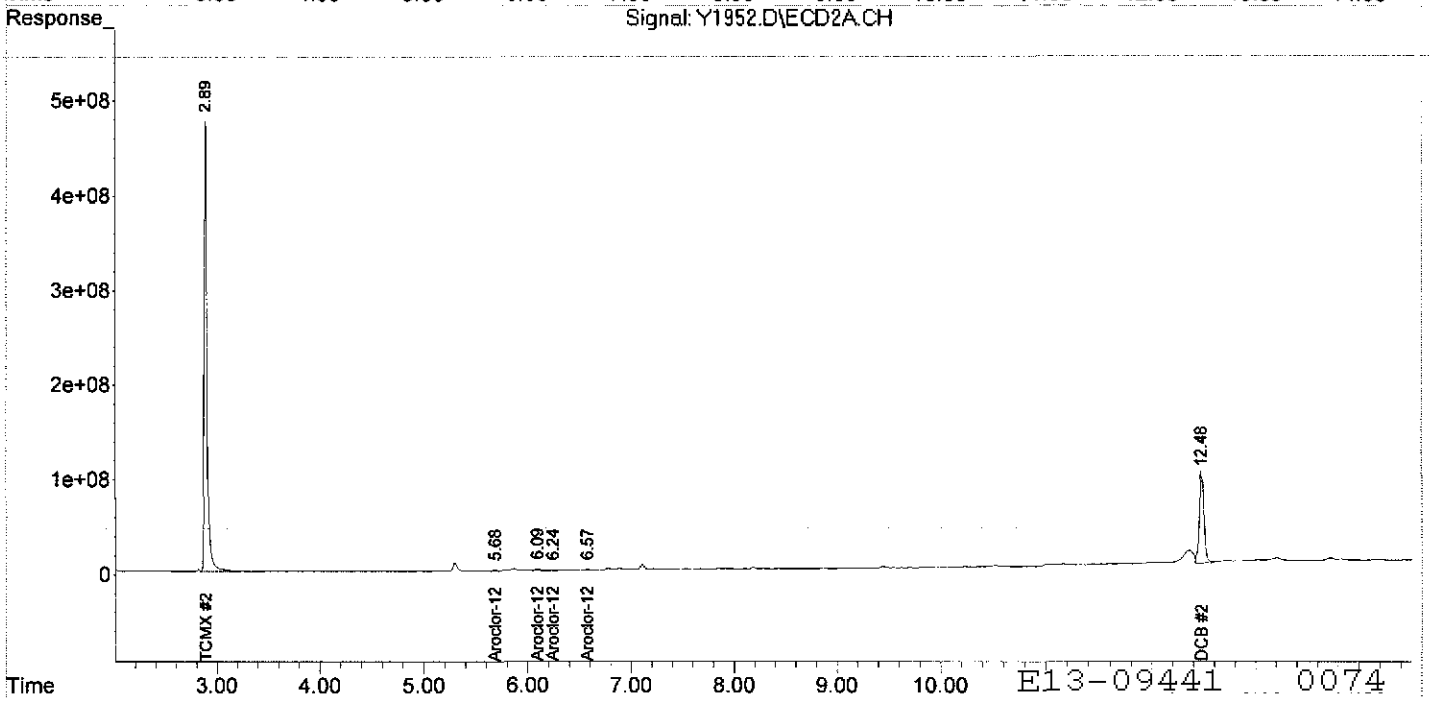
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1952.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 16:56
Operator : NG
Sample : S-49(1.0-2,09441-006,S,5.87g,68.2,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:45:19 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 :





E13-09441 0074

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1953.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:14
Operator : NG
Sample : S-48(0-1.0,09441-007,S,5.39g,71.4,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 11:26:04 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	4245.4E6	8776.0E6	229.946	238.971
Spiked Amount 200.000			Recovery	=	114.97%	119.49%
2) S DCB	12.04	12.48	1136.6E6	2864.6E6	184.428	221.773m
Spiked Amount 200.000			Recovery	=	92.21%	110.89%
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	127.5E6	253.2E6	118.906	105.637
24) L6 Aroclor-1248 {2}	4.98	5.69	351.6E6	1915.5E6	568.618	541.197
25) L6 Aroclor-1248 {3}	5.30	6.09	460.5E6	1639.2E6	578.898	642.622
26) L6 Aroclor-1248 {4}	6.00	6.24	755.4E6	628.1E6	597.983	281.627 #
27) L6 Aroclor-1248 {5}	6.26	6.57	554.7E6	409.4E6	555.550	316.149 #
Sum Aroclor-1248			2249.8E6	4845.3E6	2419.956	1887.232
Average Aroclor-1248					483.991	377.446
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

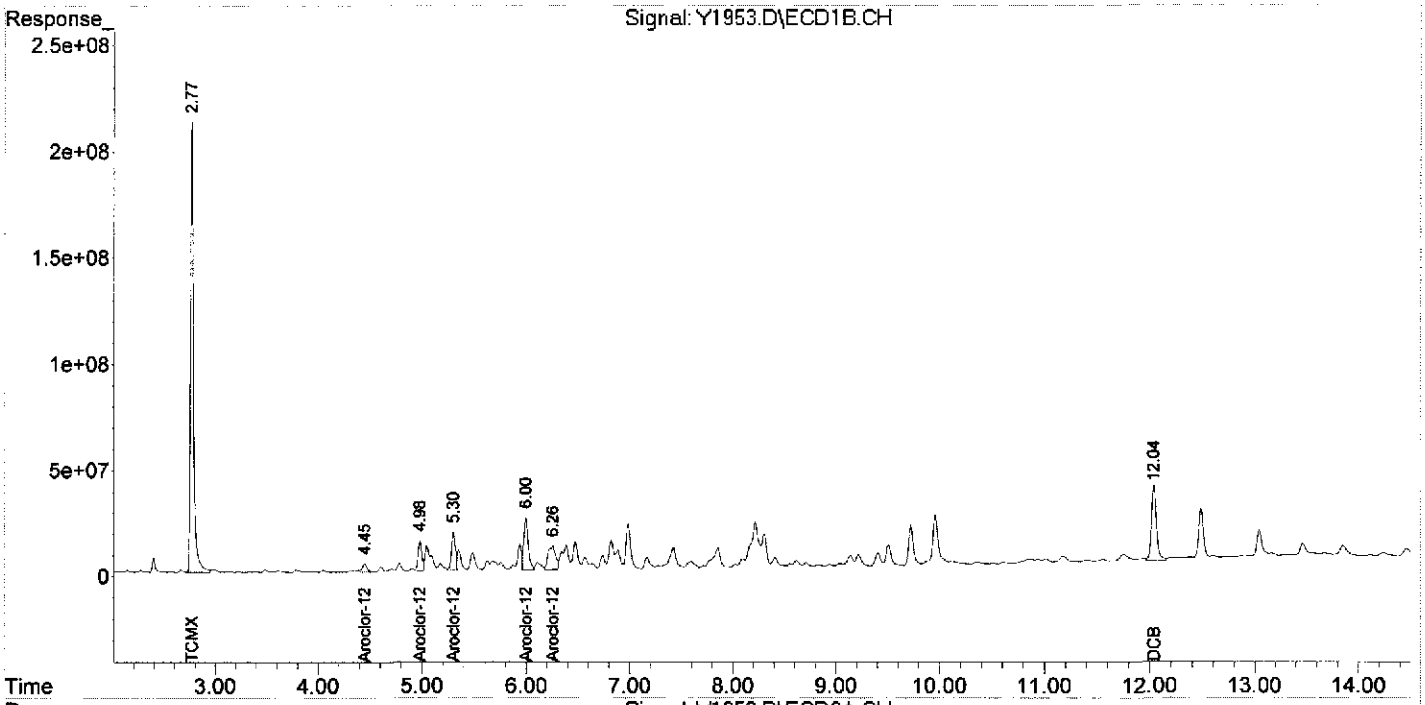
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

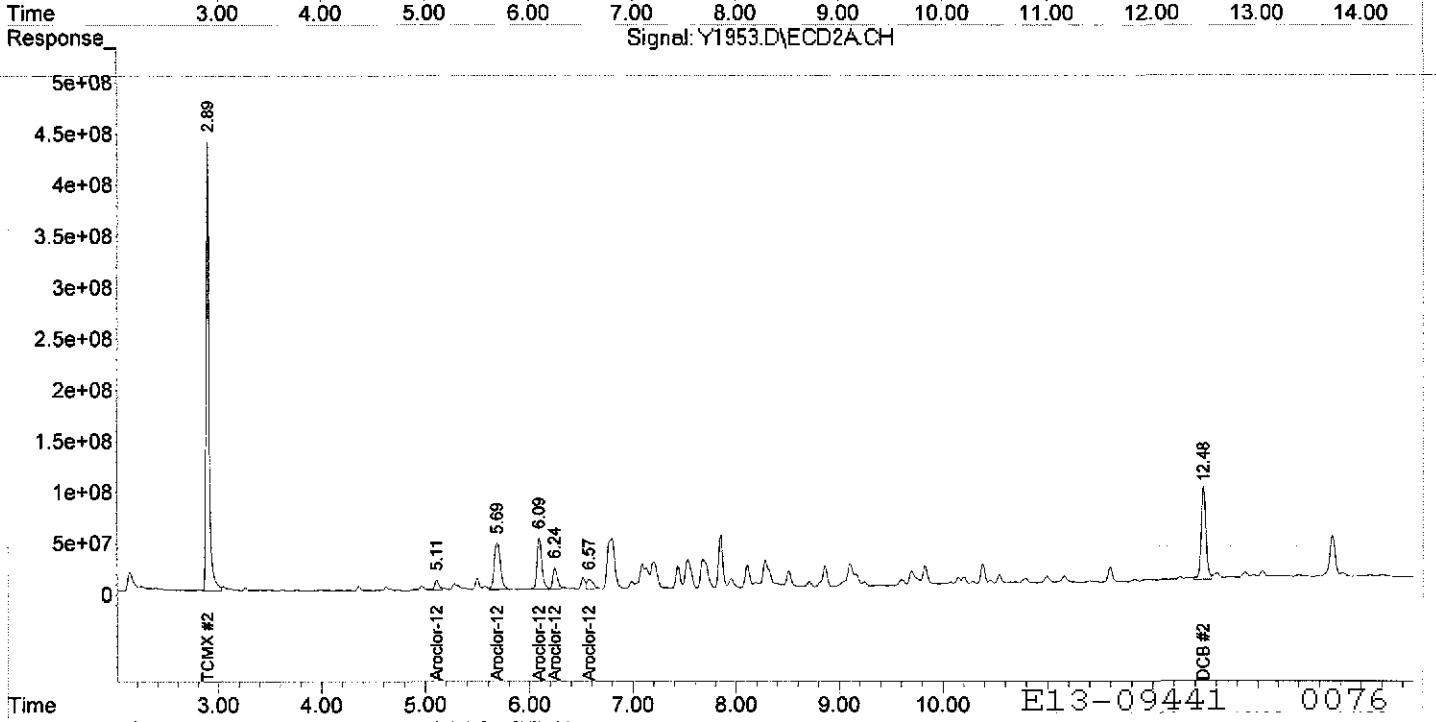
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1953.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:14
Operator : NG
Sample : S-48(0-1.0,09441-007,S,5.39g,71.4,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 11:26:04 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 :





E13-09441 0076

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1954.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:31
Operator : NG
Sample : S-48(1.0-2,09441-008,S,5.37g,83.5,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:50:46 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	4795.7E6	10036.5E6	259.752	273.293	
Spiked Amount 200.000			Recovery	=	129.88%	136.65%	
2) S DCB	12.04	12.48	1511.1E6	3770.2E6	245.184	291.882	
Spiked Amount 200.000			Recovery	=	122.59%	145.94%	
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	28245564	50046957	26.335	20.881	
24) L6 Aroclor-1248 {2}	4.98	5.69	38718936	206.8E6	62.623	58.417	
25) L6 Aroclor-1248 {3}	5.30	6.09	78236168	176.8E6	98.359	69.312	#
26) L6 Aroclor-1248 {4}	6.00	6.24	75242075	96189597	59.559	43.133	#
27) L6 Aroclor-1248 {5}	6.26	6.59	49196478	51173475	49.268	39.519	
Sum Aroclor-1248			269.6E6	581.0E6	296.144	231.261	
Average Aroclor-1248					59.229	46.252	
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	

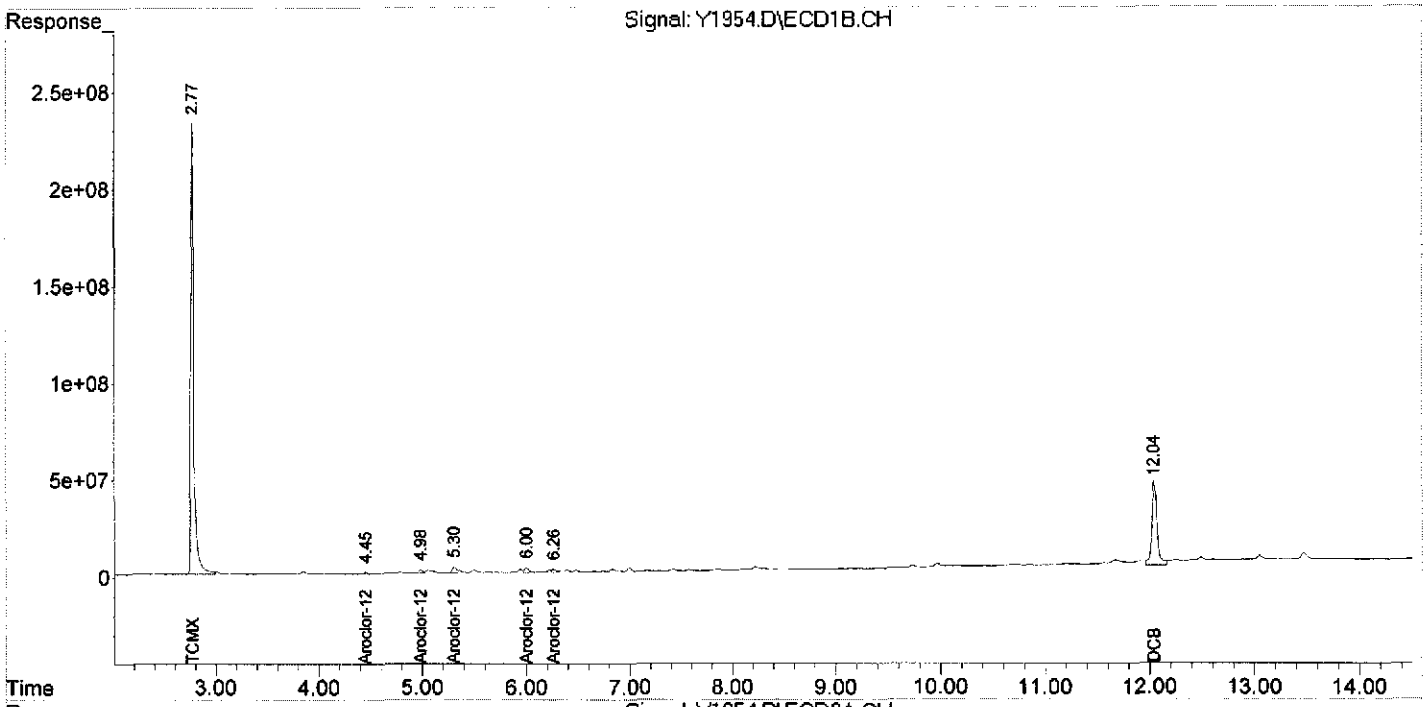
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

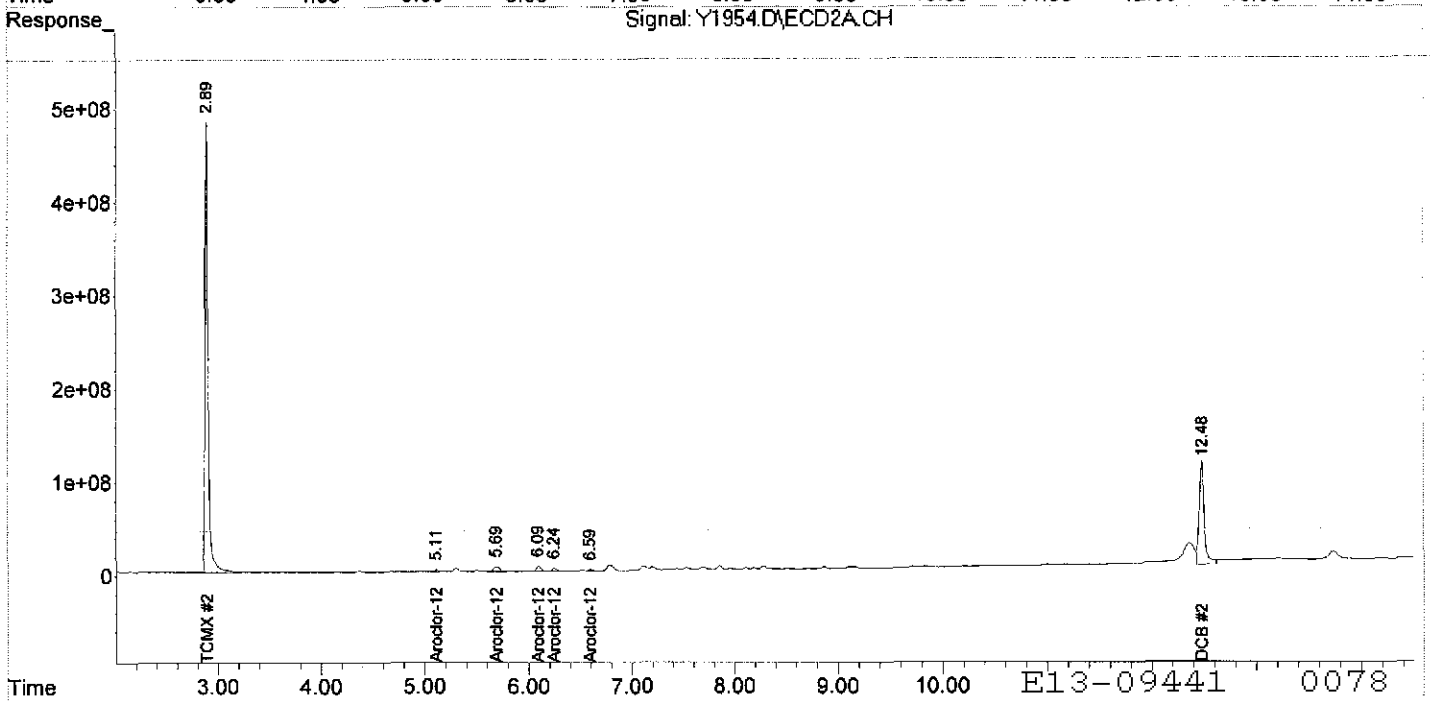
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1954.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:31
Operator : NG
Sample : S-48(1.0-2,09441-008,S,5.37g,83.5,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 09:50:46 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 :





E13-09441 0078

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1955.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:49
Operator : NG
Sample : U-45N(2)(5,09441-009.S,5.86g,21.3,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 11:41:30 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	3825.8E6	7856.4E6	207.222	213.930
Spiked Amount 200.000			Recovery	=	103.61%	106.97%
2) S DCB	12.04	12.48	1163.5E6	2645.4E6	188.789	204.801
Spiked Amount 200.000			Recovery	=	94.39%	102.40%
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
28) L7 Aroclor-1254	6.39	7.09	6132339	24030427	4.902m	8.333 #
29) L7 Aroclor-1254 {2}	6.82	0.00	4642442	0	5.654m	N.D. d#
30) L7 Aroclor-1254 {3}	6.99	8.29	8355871	11386808	5.643	6.105
31) L7 Aroclor-1254 {4}	7.40	0.00	15826664	0	9.849m	N.D. d#
32) L7 Aroclor-1254 {5}	0.00	9.10	0	22092827	N.D. d	7.413m#
Sum Aroclor-1254			34957316	57510062	26.048	21.851
Average Aroclor-1254					6.512	7.284
33) L8 Aroclor-1260	8.26	7.85	19001425	26995758	11.826	19.670m#
34) L8 Aroclor-1260 {2}	8.94	8.11	8797647	23625034	11.589m	11.829
35) L8 Aroclor-1260 {3}	9.41	9.70	22966489	18227826	12.575m	10.573
36) L8 Aroclor-1260 {4}	9.90	10.20	9810832	46188408	10.302m	12.141
37) L8 Aroclor-1260 {5}	10.96	10.79	4444345	33372699	10.761m	12.272
Sum Aroclor-1260			65020738	148.4E6	57.055	66.486
Average Aroclor-1260					11.411	13.297
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

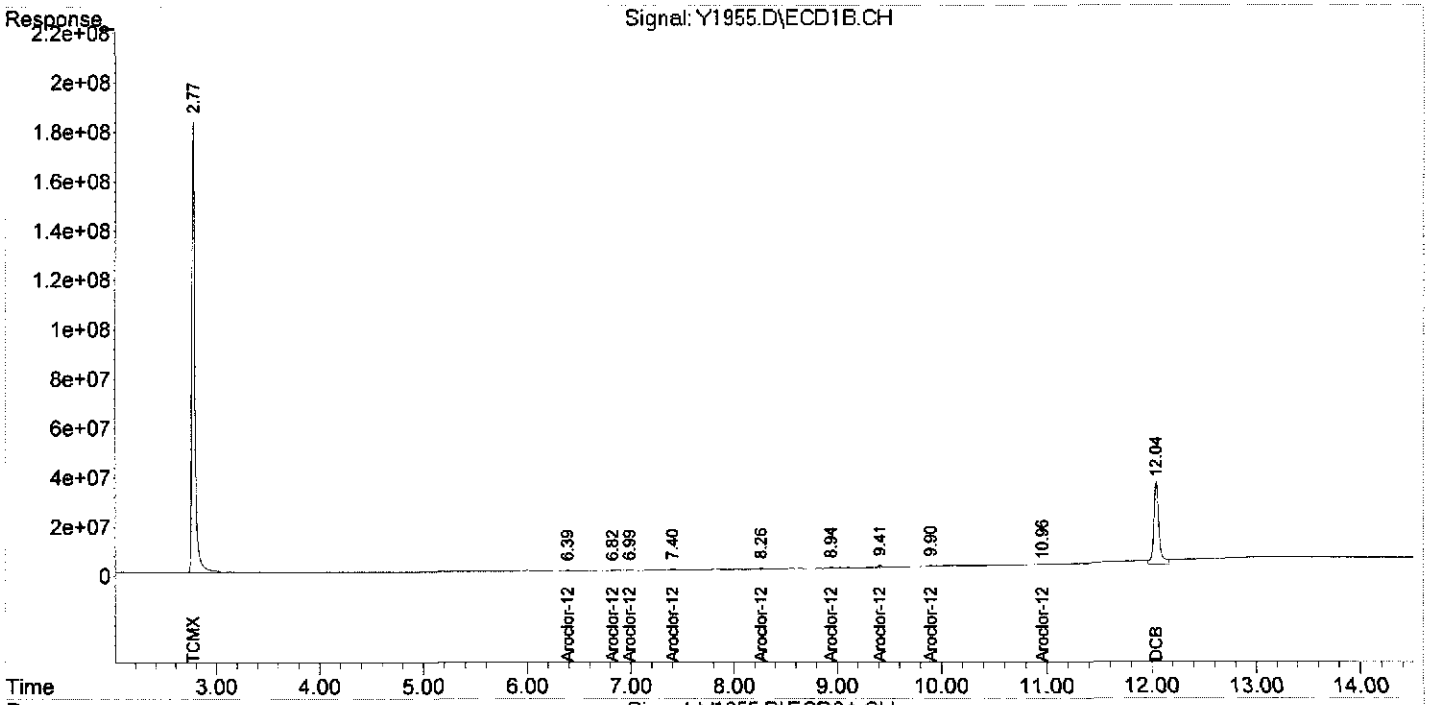
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

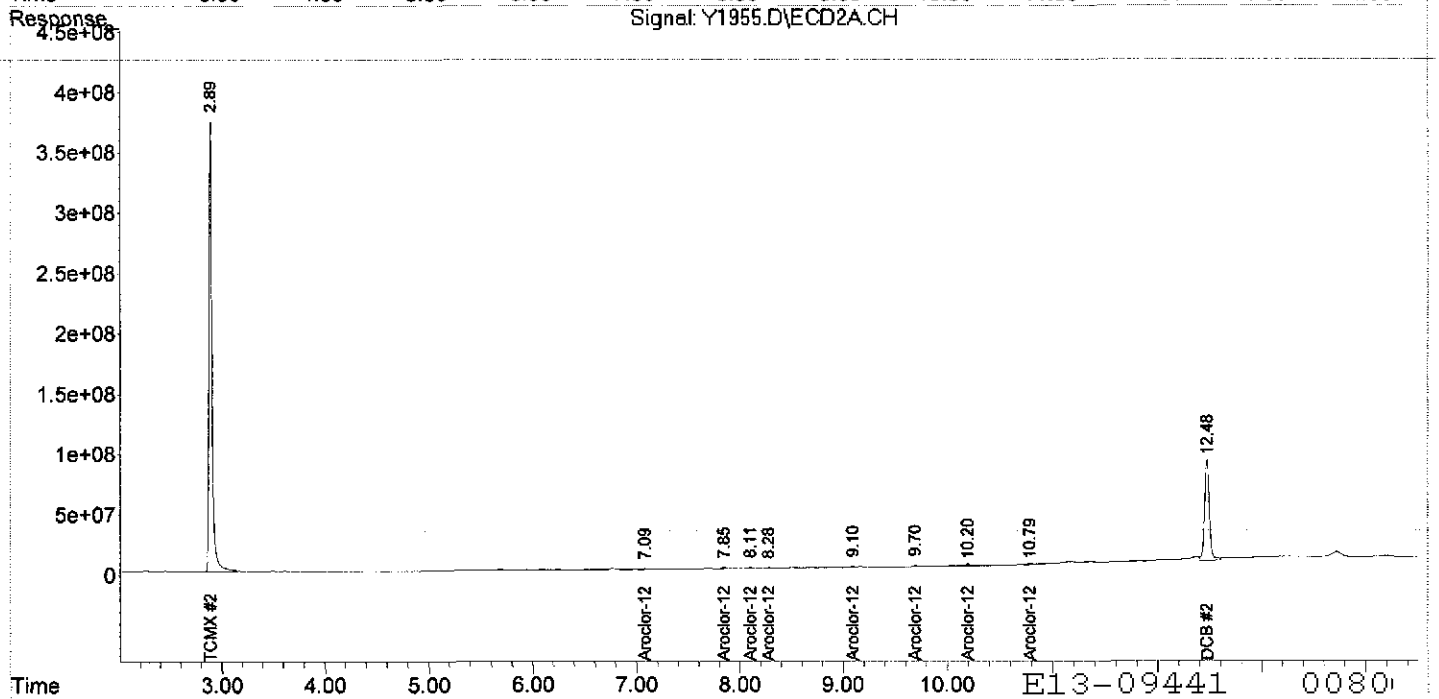
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1955.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:49
Operator : NG
Sample : U-45N(2)(5,09441-009,S,5.86g,21.3,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 11:41:30 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\10-02-13\
Data File : Y1956.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 18:06
Operator : NG
Sample : V-44N(4.0-,09441-010,S,5.29g,24.5,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 10:02:37 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	3820.5E6	7857.5E6	206.933	213.959
Spiked Amount 200.000			Recovery	=	103.47%	106.98%
2) S DCB	12.04	12.48	1004.2E6	2531.4E6	162.947	195.979
Spiked Amount 200.000			Recovery	=	81.47%	97.99%
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	7664803	13980892	7.146m	5.833
24) L6 Aroclor-1248 {2}	4.98	5.69	4178887	22202983	6.759	6.273
25) L6 Aroclor-1248 {3}	5.30	6.09	4763082	17714653	5.988	6.945
26) L6 Aroclor-1248 {4}	6.00	6.24	7956844	12860641	6.298	5.767
27) L6 Aroclor-1248 {5}	6.27	6.59	4496402	6042909	4.503m	4.667
Sum Aroclor-1248			29060017	72802077	30.695	29.485
Average Aroclor-1248					6.139	5.897
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
33) L8 Aroclor-1260	8.27	7.85	6998962	14606186	4.356m	10.643m#
34) L8 Aroclor-1260 {2}	0.00	8.11	0	10646083	N.D. d	5.330m#
35) L8 Aroclor-1260 {3}	9.41	0.00	9275469	0	5.079	N.D. d#
36) L8 Aroclor-1260 {4}	0.00	10.20	0	16748782	N.D. d	4.403m#
37) L8 Aroclor-1260 {5}	10.95	0.00	1875367	0	4.541m	N.D. d#
Sum Aroclor-1260			18149798	42001050	13.976	20.376
Average Aroclor-1260					4.659	6.792
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

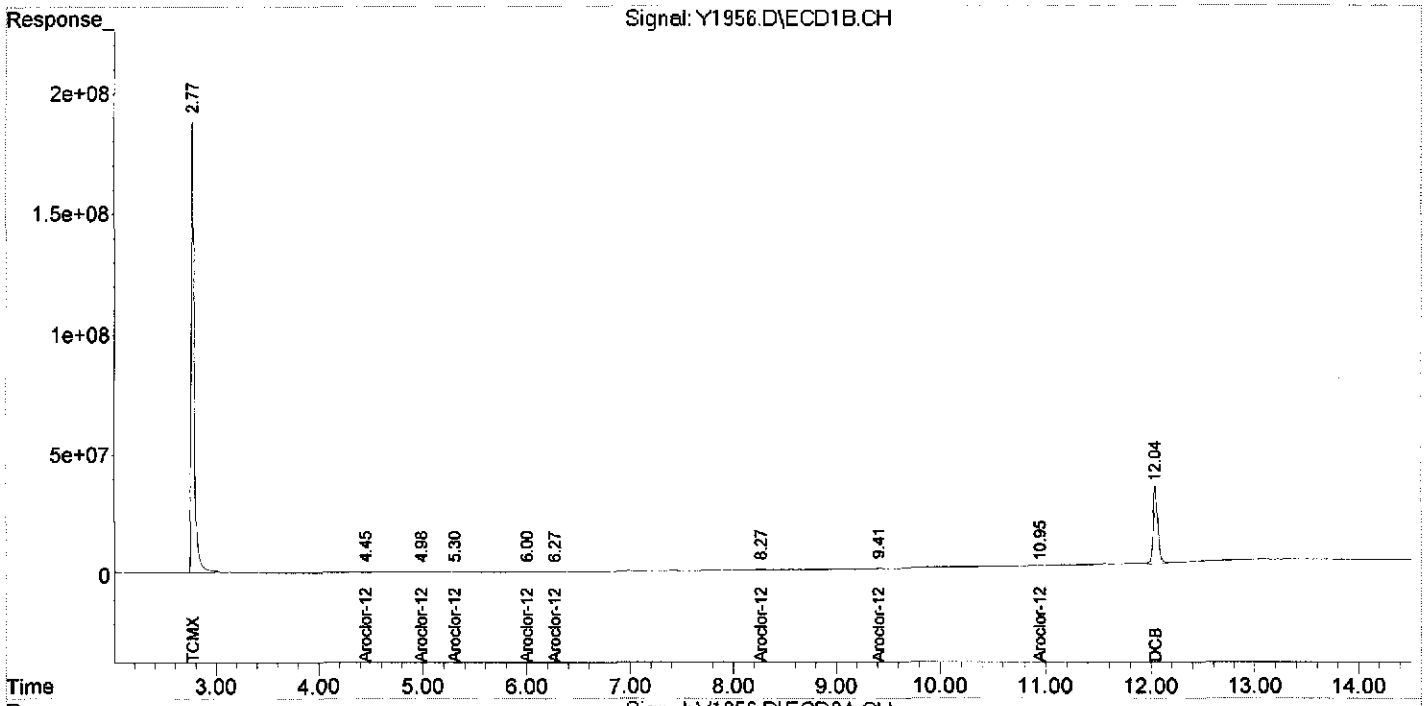
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

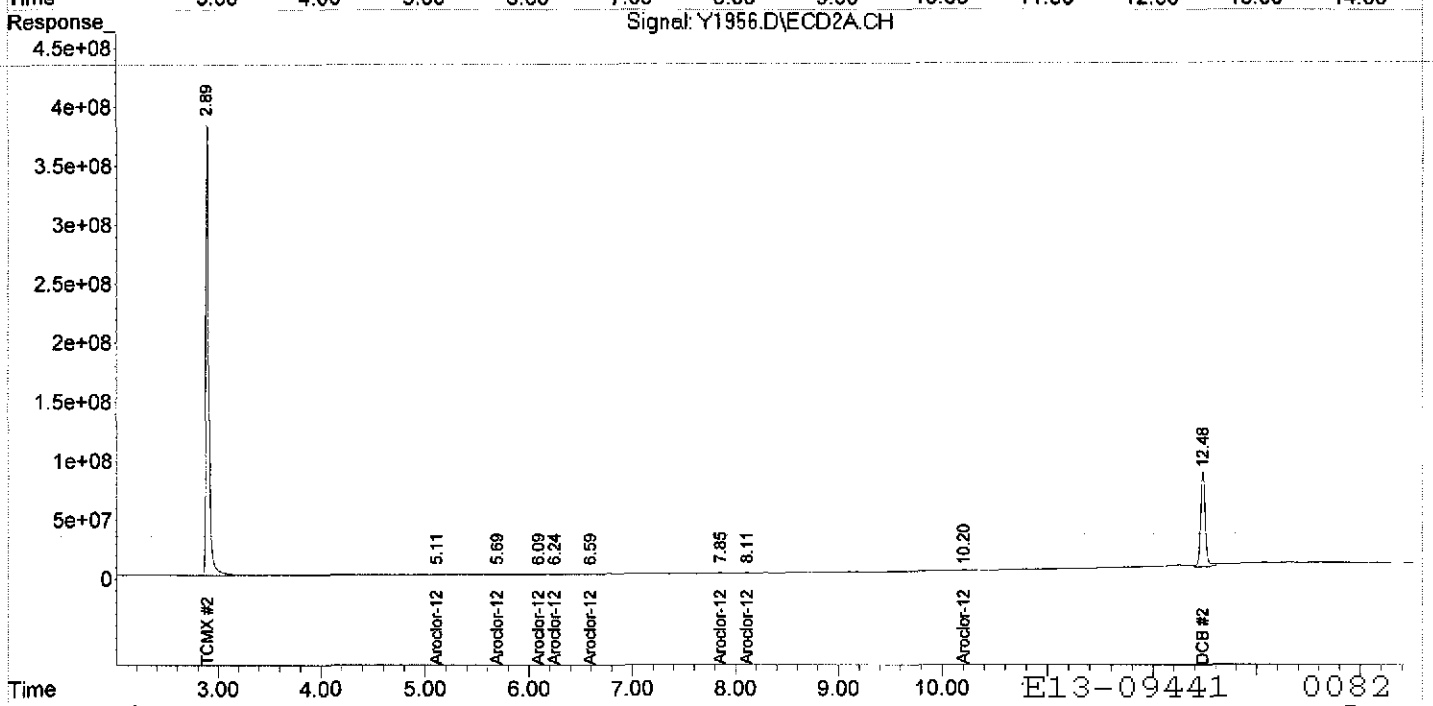
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1956.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 18:06
Operator : NG
Sample : V-44N(4.0-,09441-010,S,5.29g,24.5,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 10:02:37 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 :





E13-09441 0082

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1957.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 18:24
Operator : NG
Sample : V-44N(5.0-,09441-011,S,5.45g,20.8,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 11:46:43 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	3785.9E6	7774.1E6	205.058	211.688
Spiked Amount 200.000			Recovery	=	102.53%	105.84%
2) S DCB	12.04	12.48	1014.0E6	2560.4E6	164.536	198.227
Spiked Amount 200.000			Recovery	=	82.27%	99.11%
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	6713213	14031089	6.259	5.854
24) L6 Aroclor-1248 {2}	4.98	5.69	4139434	21767521	6.695	6.150
25) L6 Aroclor-1248 {3}	5.30	6.09	4505202	16852778	5.664	6.607
26) L6 Aroclor-1248 {4}	6.00	6.24	7723013	10517721	6.113m	4.716
27) L6 Aroclor-1248 {5}	6.26	0.00	4227264	0	4.233m	N.D. d#
Sum Aroclor-1248			27308126	63169109	28.965	23.328
Average Aroclor-1248					5.793	5.832
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

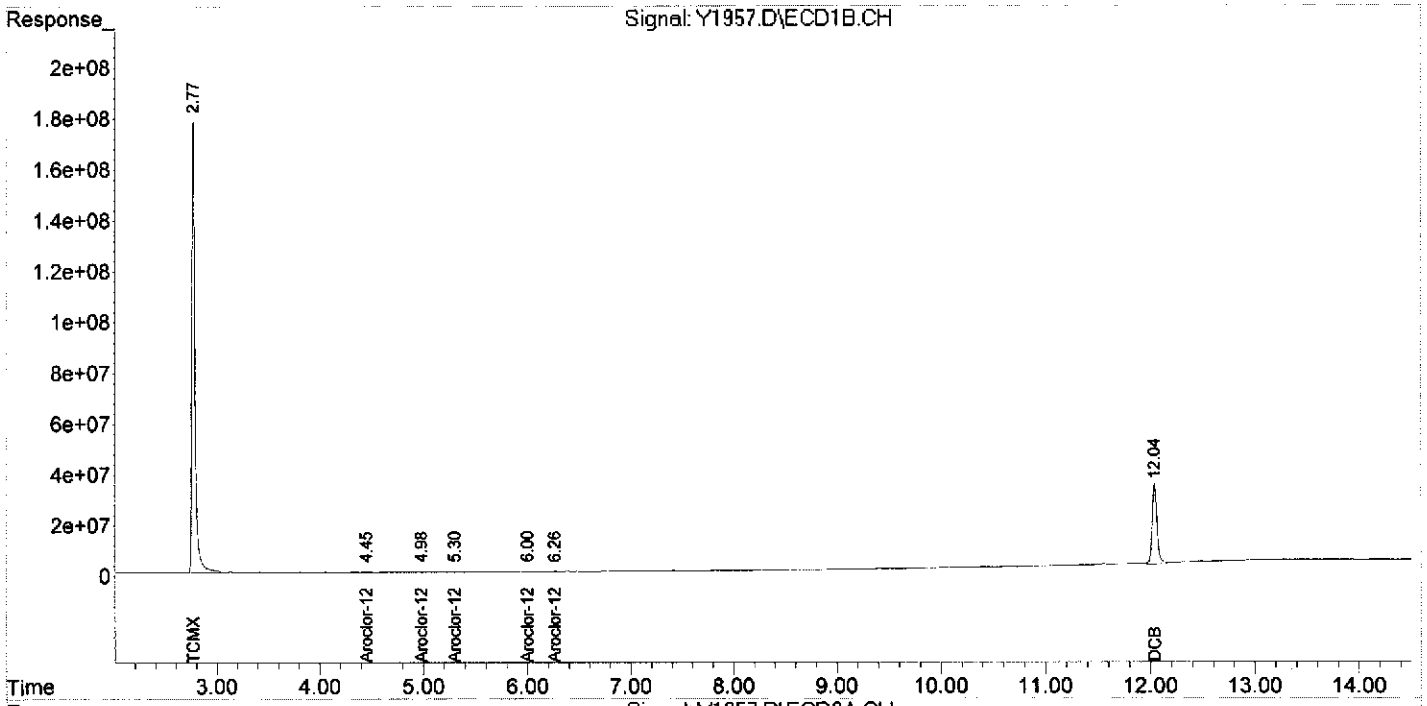
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

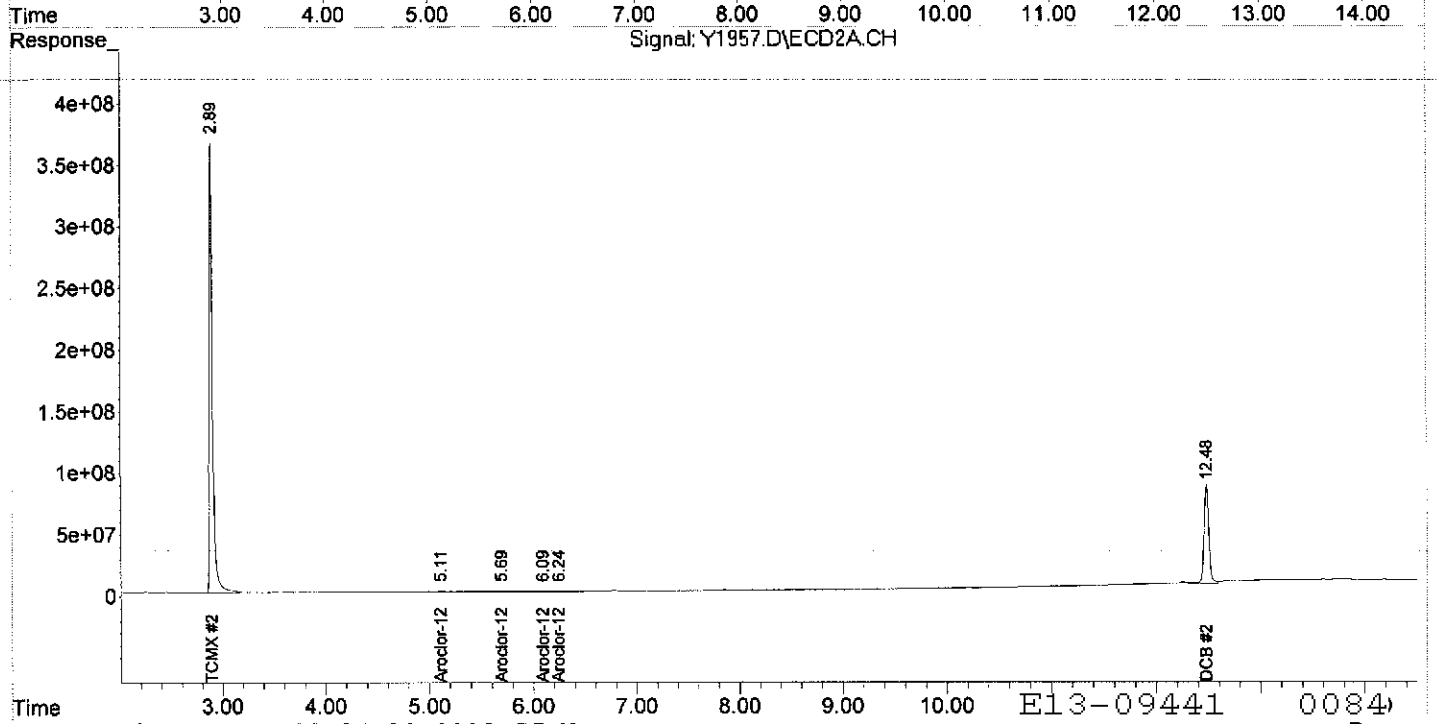
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1957.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 18:24
Operator : NG
Sample : V-44N(5.0-,09441-011,S,5.45g,20.8,10/01/13,4
Misc : 131001-07,09/25/13,09/25/13,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 03 11:46:43 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\10-01-13\
Data File : Y1928.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 01 Oct 2013 17:21
Operator : NG
Sample : FB-11,09441-012,A,1000ml,100,09/30/13,1
Misc : 130930-19,09/25/13,09/25/13,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 02 09:56:32 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	2908.9E6	5915.5E6	157.557	161.080
Spiked Amount 200.000			Recovery	=	78.78%	80.54%
2) S DCB	12.04	12.48	697.9E6	1569.6E6	113.247	121.515
Spiked Amount 200.000			Recovery	=	56.62%	60.76%
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

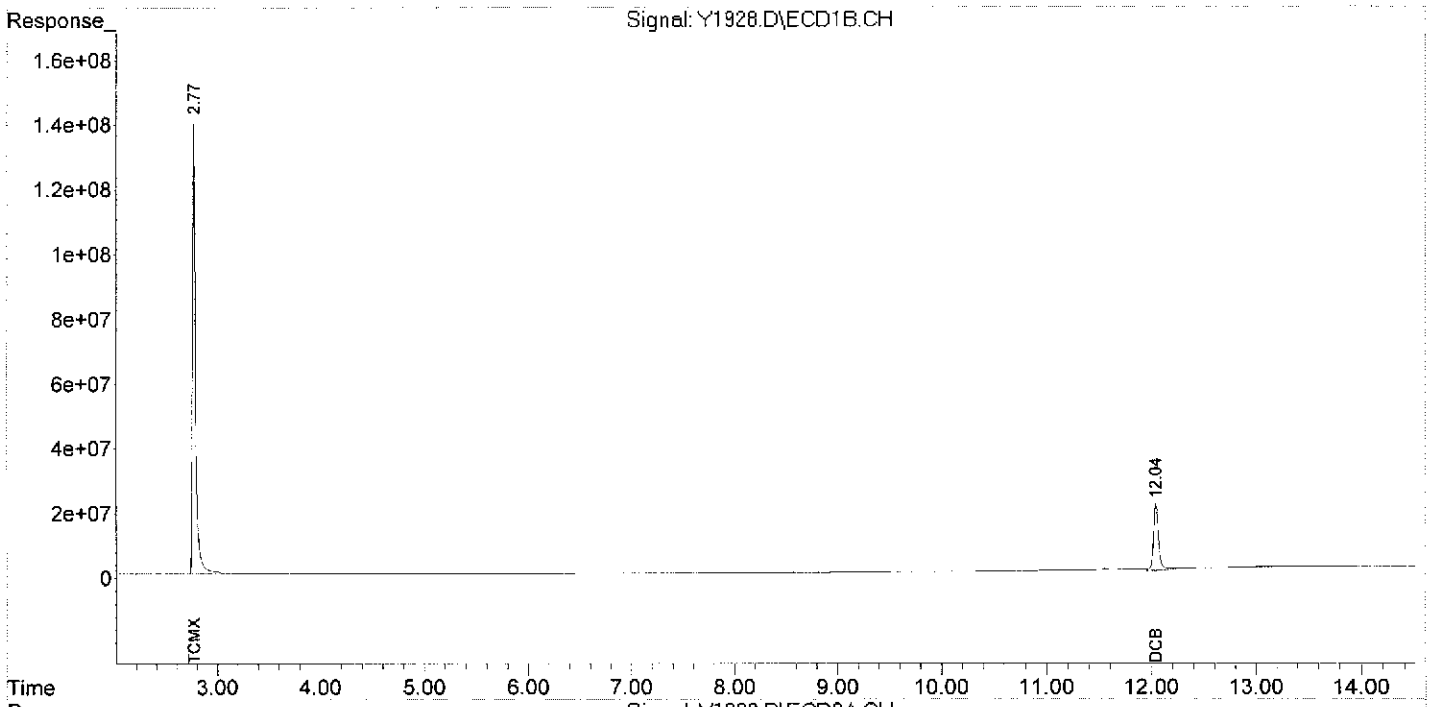
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

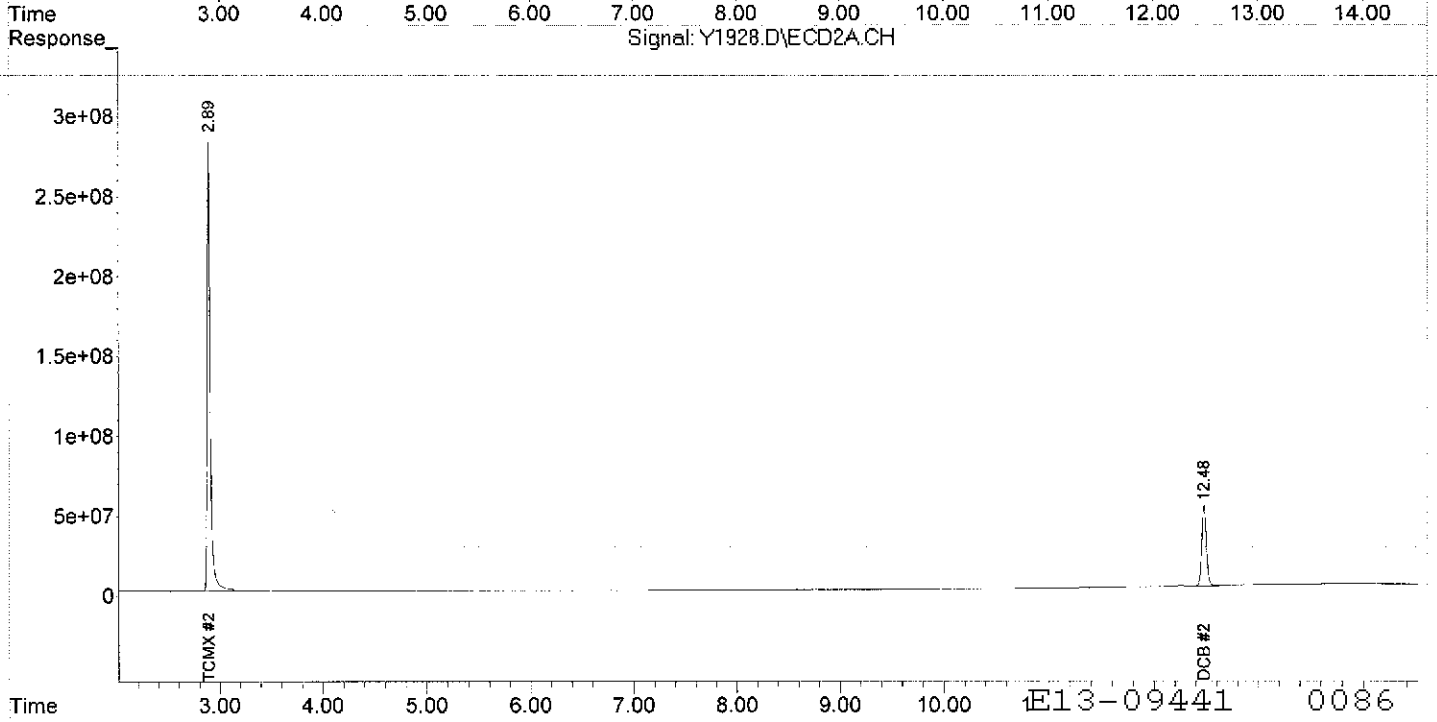
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-01-13\
Data File : Y1928.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 01 Oct 2013 17:21
Operator : NG
Sample : FB-11,09441-012,A,1000ml,100,09/30/13,1
Misc : 130930-19,09/25/13,09/25/13,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 02 09:56:32 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: BLKA130923-16
Client ID: PCB
Date Received: NA
Date Extracted: 09/23/2013
Date Analyzed: 09/24/2013
Data file: R4385.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

E13-09441 0087

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKA130930-19
Client ID: PCB
Date Received: NA
Date Extracted: 09/30/2013
Date Analyzed: 10/01/2013
Data file: Y1920.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

E13-09441 0088

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-01-13\
Data File : Y1920.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 01 Oct 2013 14:48
Operator : NG
Sample : PCB,BLKA130930-19,A,1000ml,100,09/30/13,1
Misc : NA,NA,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 01 15:02:10 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	2.90	3171.3E6	7470.9E6	171.771	203.432
Spiked Amount 200.000			Recovery	=	85.89%	101.72%
2) S DCB	12.04	12.49	709.6E6	1710.6E6	115.142	132.433
Spiked Amount 200.000			Recovery	=	57.57%	66.22%
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
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

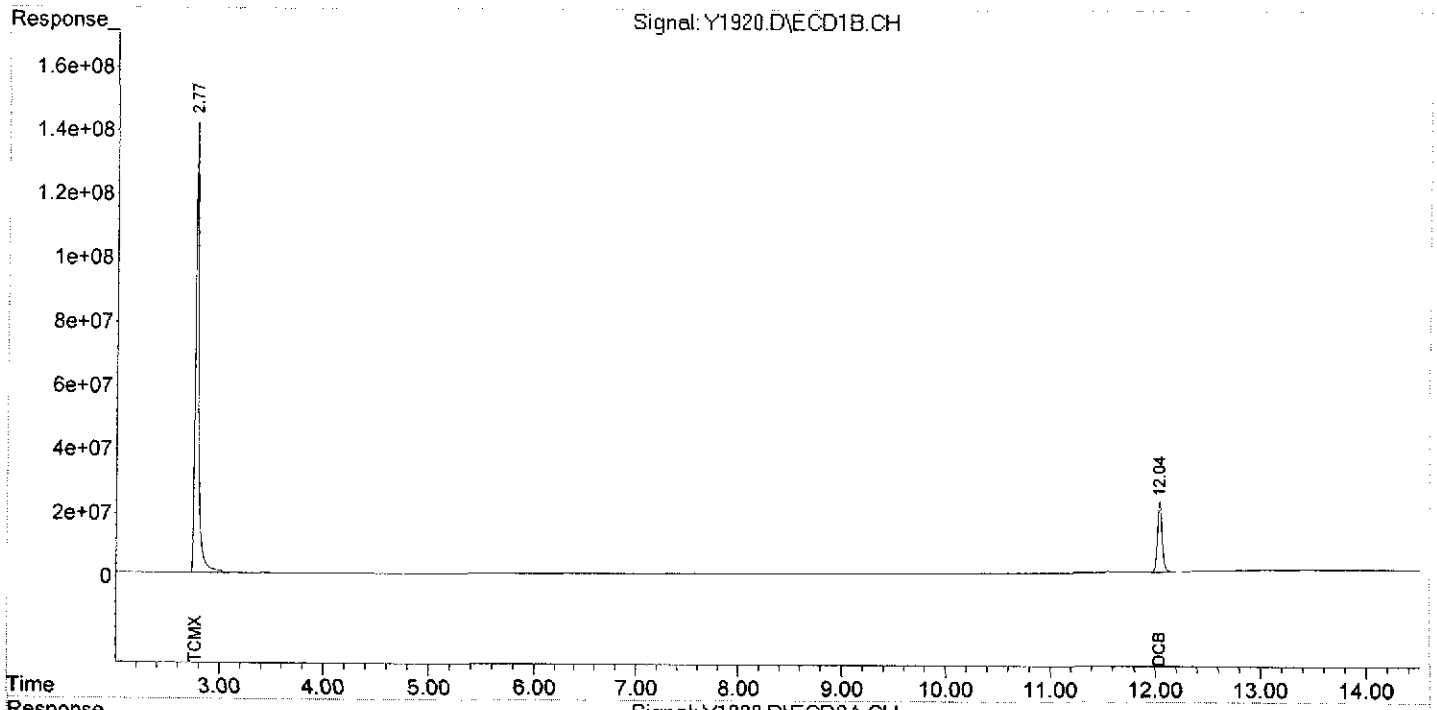
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

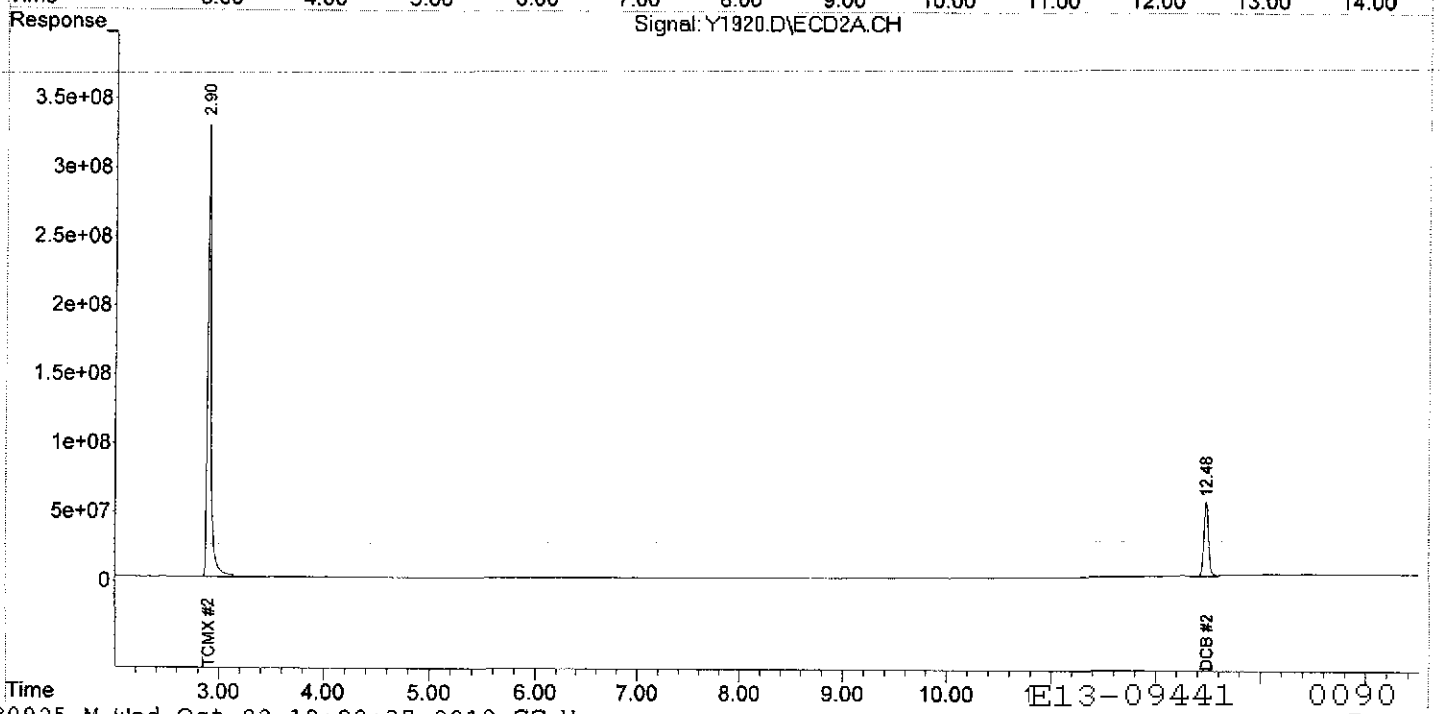
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-01-13\
Data File : Y1920.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 01 Oct 2013 14:48
Operator : NG
Sample : PCB,BLKA130930-19,A,1000ml,100,09/30/13,1
Misc : NA,NA,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 01 15:02:10 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: BLKS131001-07
Client ID: PCB
Date Received: NA
Date Extracted: 10/01/2013
Date Analyzed: 10/02/2013
Data file: Y1938.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

E13-09441 0091

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1938.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 11:18
Operator : NG
Sample : PCB,BLKS131001-07,S,5.00g,0,10/01/13,4
Misc : NA,NA,NA,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 02 15:36:06 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	3496.0E6	6908.6E6	189.357	188.120
Spiked Amount 200.000			Recovery	=	94.68%	94.06%
2) S DCB	12.04	12.48	807.4E6	2015.3E6	131.000	156.021
Spiked Amount 200.000			Recovery	=	65.50%	78.01%
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

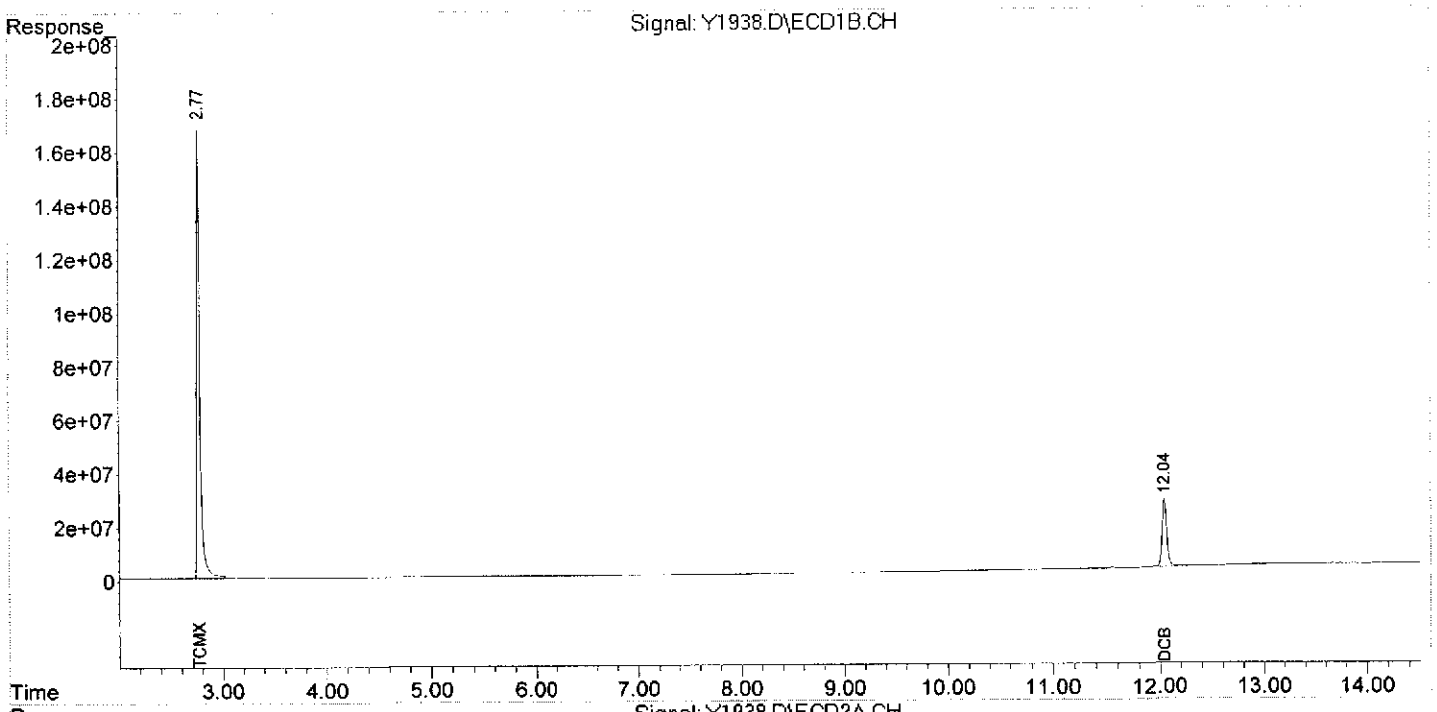
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

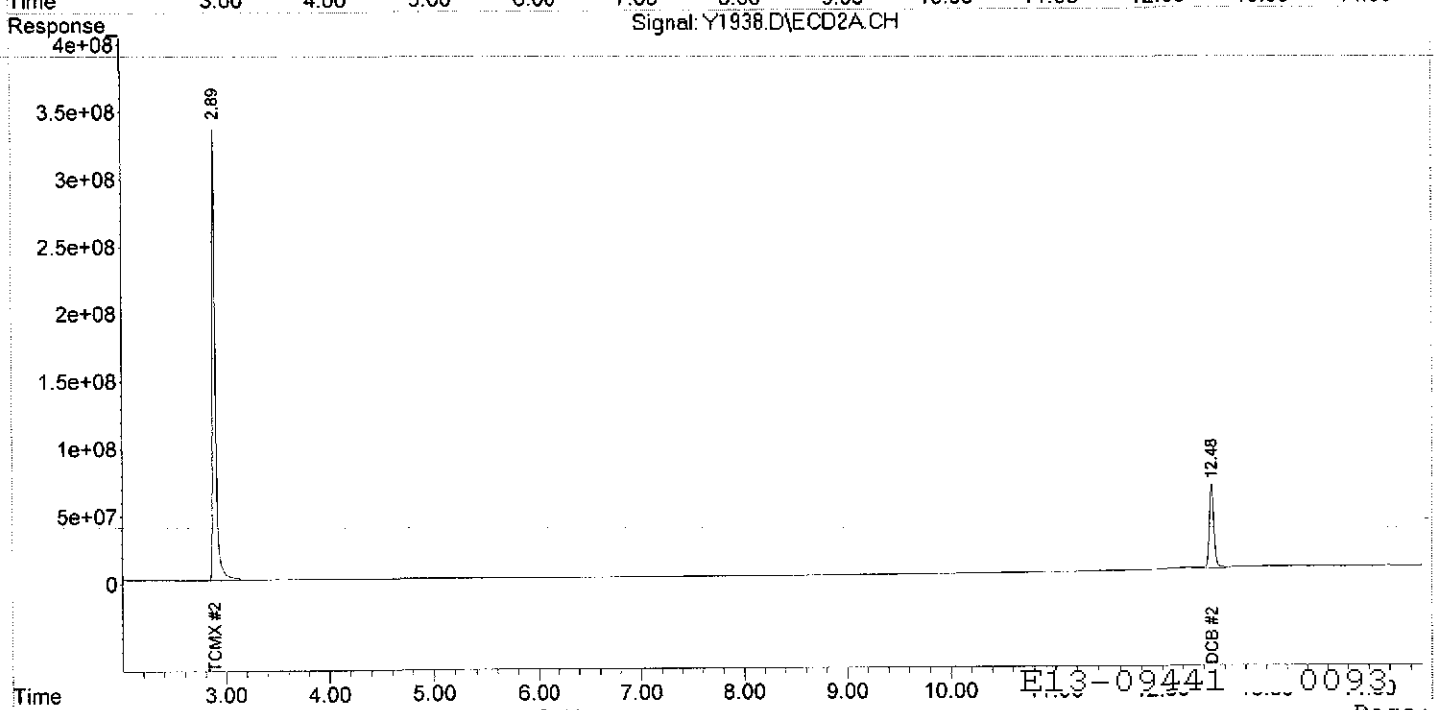
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1938.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 11:18
Operator : NG
Sample : PCB,BLKS131001-07,S,5.00g,0,10/01/13,4
Misc : NA,NA,NA,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 02 15:36:06 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 :





SAMPLE TRACKING

IAL
Integrated Analytical Laboratories LLC

Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

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

CUSTOMER INFO	REPORTING INFO
Company: JMC Environmental Consultants, Inc.	REPORT TO: James Clabby
Address: 2109 Bridge Ave., Bldg. B	Address: same
Point Pleasant, NJ 08742	
Telephone #: (732) 295-2144	Attn:
Fax #: (732) 295-2150	FAX # (732) 295-2150
Project Manager: James Clabby	INVOICE TO: Aceto Corp.
EMAIL Address: jclabby@jmcenvironmental.com	Address: 4 Tri Harbor Court
Sampler: Steve Kosch, Chris Cho	Port Washington, NY 11050
Project Name: Arsynco	(with copy to: JMC Environmental (attn.: J. Clabby))
Project Location (State): NJ	Attn: Ed Kelly
Bottle Order #:	PO # 22126
Quote # : 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
R-49 (0-1.0)		9/25/13	11:25	S	1	1	X						
R-49 (1.0-2.0)			11:26	S	1	2	X						
R-48R (0-1.0)			11:45	S	1	3	X						
R-48R (1.0-2.0)			11:46	S	1	4	X						
S-49 (0-1.0)			12:00	S	1	5	X						
S-49 (1.0-2.0)			12:01	S	1	6	X						
S-48 (0-1.0)			12:15	S	1	7	X						
S-48 (1.0-2.0)			12:16	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: [signature]	9/25/13	15:00	Received by: [signature]	9/25/13	15:00
Relinquished by: [signature] IAL	9/25/13	16:10	Received by: [signature]	9/25/13	1610
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Comments:

Lab Case # 09441

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 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
U-45N(2)(5.0-6.0)		9/25/13	1:30	S	1	9	x						
V-44N(4.0-5.0)		↓	1:50	S	1	10	x						
V-44N(5.0-6.0)			1:51	S	1	11	x						
FB-11			2:35	aq	2	12	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:	[signature]	9/25/13	15:00	Received by:	[signature] IAL	9/25/13	15:00
Relinquished by:	[signature] IAL	9/25/13	16:10	Received by:	[signature]	9/25/13	16:10
Relinquished by:				Received by:			
Relinquished by:				Received by:			
Relinquished by:				Received by:			

Comments:

Lab Case # 09441

PAGE: 2 of 2

LAB COPY - WHITE & YELLOW; CLIENT COPY - PINK

PROJECT INFORMATION

E13-09441: 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: Jim Clabby

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Sep 25, 2013 @ 16:10	NA	Oct 09, 2013	Oct 16, 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
09441-001	R-49(0-1.0)	0/1.0	09/25/13@11:25	Soil	mg/Kg (ppm)	
09441-002	R-49(1.0-2.0)	1.0/2.0	09/25/13@11:26	Soil	mg/Kg (ppm)	
09441-003	R-48R(0-1.0)	0/1.0	09/25/13@11:45	Soil	mg/Kg (ppm)	
09441-004	R-48R(1.0-2.0)	1.0/2.0	09/25/13@11:46	Soil	mg/Kg (ppm)	
09441-005	S-49(0-1.0)	0/1.0	09/25/13@12:00	Soil	mg/Kg (ppm)	
09441-006	S-49(1.0-2.0)	1.0/2.0	09/25/13@12:01	Soil	mg/Kg (ppm)	
09441-007	S-48(0-1.0)	0/1.0	09/25/13@12:15	Soil	mg/Kg (ppm)	
09441-008	S-48(1.0-2.0)	1.0/2.0	09/25/13@12:16	Soil	mg/Kg (ppm)	
09441-009	U-45N(2)(5.0-6.0)	5.0/6.0	09/25/13@13:30	Soil	mg/Kg (ppm)	
09441-010	V-44N(4.0-5.0)	4.0/5.0	09/25/13@13:50	Soil	mg/Kg (ppm)	
09441-011	V-44N(5.0-6.0)	5.0/6.0	09/25/13@13:51	Soil	mg/Kg (ppm)	
09441-012	FB-11	NA	09/25/13@14:35	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
002	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
003	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
004	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
005	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
006	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
007	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
008	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
009	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
010	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013

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-0690), New York (11402), Pennsylvania (68-00773)

PROJECT INFORMATION

E13-09441: ARSYNCO

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
011	TCL PCB	Analyze	8082	STD/2 WKS	10/9/2013
012	TCL PCB	Analyze	8082	STD/2 WKS	10/2/2013

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-0609), New York (11402), Pennsylvania (68-00773) and West Virginia 9125 and Florida 10

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: **E 13** **09441** 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 [signature] DATE 9/25/13

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 ES DATE 9/27

E13-09441 0099

REV 03/2013

Laboratory Custody Chronicle

IAL Case No.

E13-09441

Client JMC Environmental Consultants

Project ARSYNCO

Received On 9/25/2013@16:10

Department: GC

			Prep. Date	Analyst	Analysis Date	Analyst
TCL PCB	09441-001	Soil	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-002	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-003	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-004	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-005	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-006	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-007	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-008	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-009	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-010	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-011	"	10/ 1/13	Archimede	10/ 2/13	Justyna
"	-012	Aqueous	9/30/13	Archimede	9/30/13	Justyna

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